



OKLAHOMA

I would like to thank the Transportation Cabinet employees for all their time and effort put forth in working together with Guidehouse to help support the creation of the Current State Analysis. Guidehouse gathered current state information by interviewing people across all three agencies, looking at real data of our operations and functional areas and looking at what makes other DOTs successful.

The analysis was needed to establish a common understanding about how we currently operate across agencies and to facilitate the appropriate consideration of the changes, alternative organizational opportunities and process improvements recommendations that are to come. It is important to agree on that common understanding before we can think about how we will operate in the future. This report is not intended to cast judgement on any one Agency, Division, or the commitment, dedication, and investment of staff in their work to the respective agency missions. It is simply data, not criticism, an honest evaluation and benchmark of our practices and a look towards leading edge practices.

The Transportation Modernization Committee will now use the Current State Analysis to begin work on focus areas to develop recommendations for organizational and process change. Also, you will find as part of the analysis, three early action immediate initiatives as recommended by Guidehouse. I have visited with our team members who are included and we look forward to working with them as these initiatives are transformed from recommendations into detailed opportunities. The initiative recommendations were reviewed by executive staff and attached you will find the summary response resulting from that consideration. We didn't completely agree with everything presented and offered perspective on nuances that might not have been clear that will be further considered during the detailing of the recommendations.

As the Transportation Modernization Committee works from the Current State Analysis and brings forward additional recommendations, my request is that each of you continue to provide feedback and input with a focus on our transportation future and our service to Oklahoma citizens. Thank you for your continued hard work and dedication to transportation in the state of Oklahoma.

Tim J. Gatz
Secretary of Transportation



Management Response to Early Initiatives as recommended in the Current State Analysis:

Initiative 1:

1. Move OMPT under the Director of Capital Programs - Concur
2. Combine OMPT with Rail Division- Partially concur
 - a. Create a Modal division with OMPT, Rail and Waterways, see discussion under Initiative 2.a. This new division would then address statewide personal and freight mobility for the State of Oklahoma. Ultimately may include Active Transportation and Micro-mobility initiatives.

Initiative 2:

1. Creation of a Communications Group that serves the Transportation Cabinet – Concur. This group would encompass MPR, marketing and video and content development and be responsible for assisting with the marketing and promotion of waterways.
2. Include Governmental Affairs into Communications Group – Do not concur
 - a. Combine resources of Tribal Liaison, Legislative Affairs, and Administrative Affairs into one group. This will facilitate communication of the expertise of transportation policy knowledge on the state and federal level more effectively. Communications services can assist with messaging, but should not encompass a governmental affairs group due to the technical knowledge required.
3. Waterways moves into Communications Group moves into Initiative #1- Partially concur with modifications. Instead include in initiative 1, see below.
 - a. Combine this group with Rail and OMPT in Initiative #1 thereby strengthening the necessary coordination between modes. Additionally, with recent changes in state and federal laws, namely WRDA, grant and reimbursement opportunities are available for the MKARNS, which require program management. Grant applications and grant administration are appropriately managed by the Capital Programs divisions.
4. Governance of OSD – Partially concur
 - a. Staff currently dedicated to graphic design and visual studios to create content should be included in the Transportation Cabinet Communications Group. IT, Content Management, and other areas providing administrative services like cell phones, mail services, etc. should not be included in this early initiative.



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Initiative 3:

1. Restructure Tolling "Back Office"-Concur.

Re-structure OTA Customer Service, Tolling Operations, and Controller divisions to strengthen the back-office operations; and allow Customer Service and Controller divisions autonomy to recalibrate (e.g. Launch new initiatives, re-tool and manage training programs, etc..) for success ahead of the AET rollout on the Kilpatrick Turnpike



State of Oklahoma Transportation Modernization

Final Current State Assessment


February 2021

Current State Deliverables

The Current State Assessment Deliverable is comprised of the following components:

1

Project Overview



Modernization Framework

Project Vision Blueprint

2

Executive Summary




Transportation Cabinet Overview

Current State Observations: Overview

3


Cabinet Assessment



Current State Findings: Enterprise

4

Focus Area Assessment

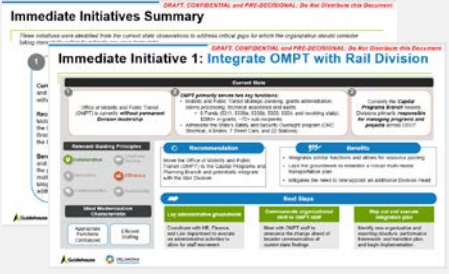


Business Functions

Observations & Opportunities: Business Functions (1 of 4)

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Immediate Initiatives



Immediate Initiatives Summary

Immediate Initiative 1: Integrate OMPT with Rail Division

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Appendix: Focus Area Profiles



Portfolio Planning: Focus Area Overview

Portfolio Planning: Inter-agency Comparison (2 of 3)

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Project Overview

Background

Executive Leadership at the Oklahoma Department of Transportation (ODOT), Oklahoma Turnpike Authority (OTA), and Oklahoma Aeronautics Commission (OAC), collectively referred to as the “Cabinet,” have recognized that there is both the opportunity and urgency to modernize the combined organizational structure and operations of the Cabinet. The goal of this effort is to integrate and optimize the combined operating models of the three Agencies and deliver enduring cost savings, while positioning the Cabinet to meet the transportation needs of the State over the next 50 years.

Guidehouse has been engaged to support the Executive Leadership and the Transportation Modernization Committee (TMC) by providing an objective analysis of the three Agencies’ operating models and facilitating the design and proposal of a set of recommendations to optimize the combined operating models of these Agencies.

Report Objectives

The purpose of the Current State Assessment report is to establish a common, fact-based understanding of the operating models of the Cabinet, from which modernization initiatives can be developed in the next phase of the project. In particular, the report:

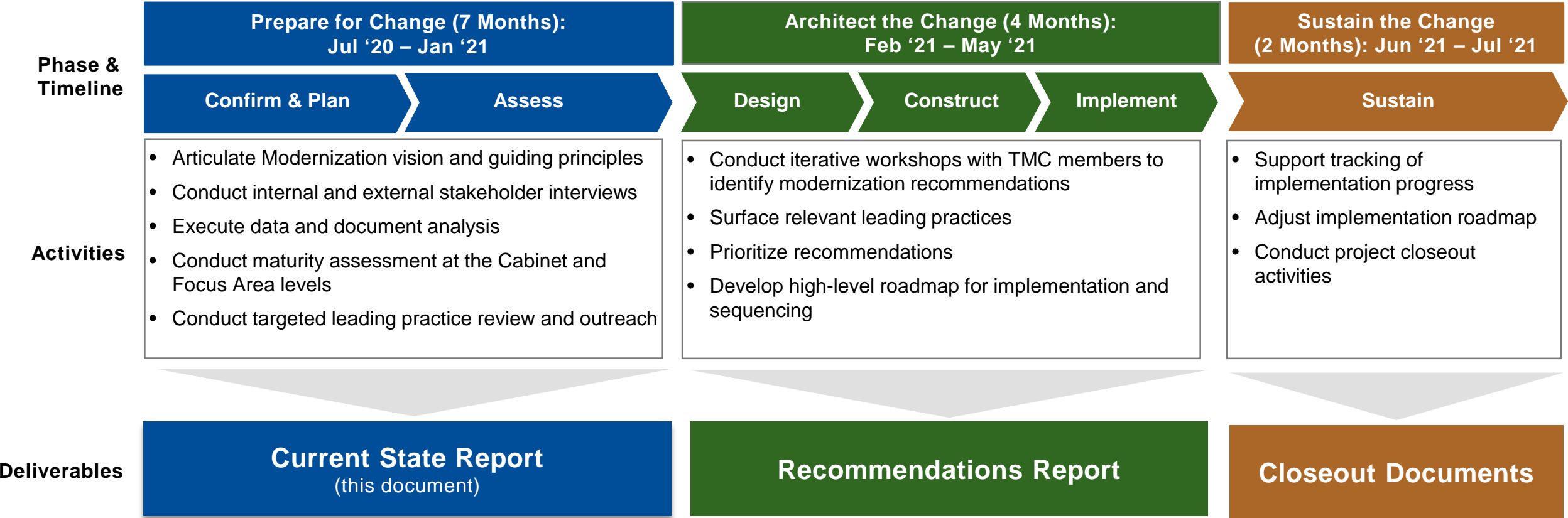
1. Synthesizes Cabinet Level organizational maturity findings
2. Presents a detailed analysis of 14 of the Agencies’ critical Business and Operating Platform Functions
3. Identify next steps and initiatives for immediate consideration

Acknowledgements

Guidehouse appreciates and wants to acknowledge the cooperation that ODOT, OTA, and OAC provided during the course of this review. We were impressed with the knowledge, level of engagement, and flexibility of Cabinet staff at all levels. This report would not be possible without the countless individuals who agreed to be interviewed and provide documentation assistance. The quick and effective coordination with staff, despite the Covid-19 pandemic, was critical to the success of this report.

Project Approach

As the Prepare for Change phase winds down, Guidehouse will work intimately with the Transportation Modernization Committee (TMC) during the Architect the Change phase to design the future state and develop recommendations



Project Vision Blueprint

For this Initiative, the **Modernization Vision and Guiding Principles** have served as the “North-Star”, shaped the current state assessment, and will help steer the next phase

Transportation Modernization Vision:

An efficient, innovative, and customer-driven organization working collaboratively to provide safe, modernized, integrated and sustainable transportation options throughout Oklahoma

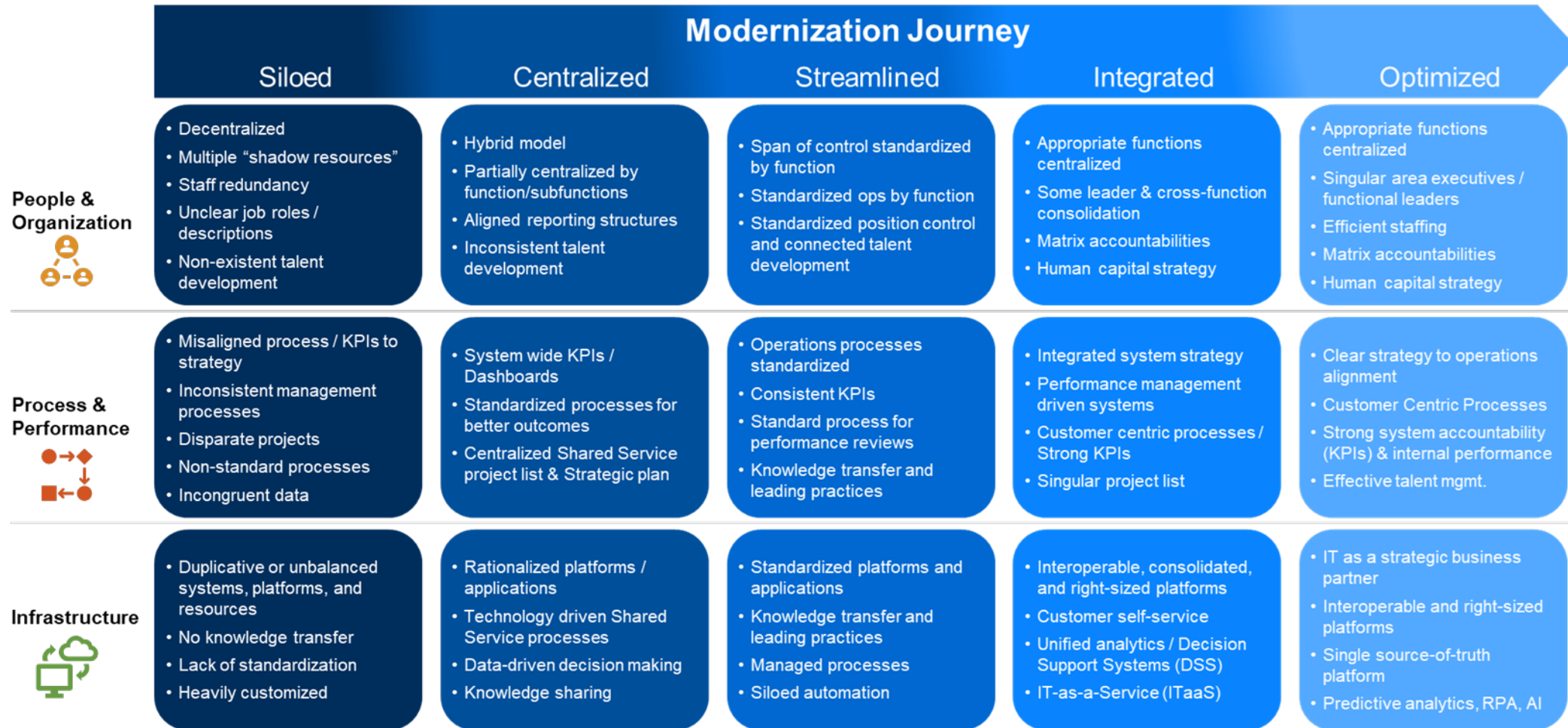
Guiding Principles for Modernization



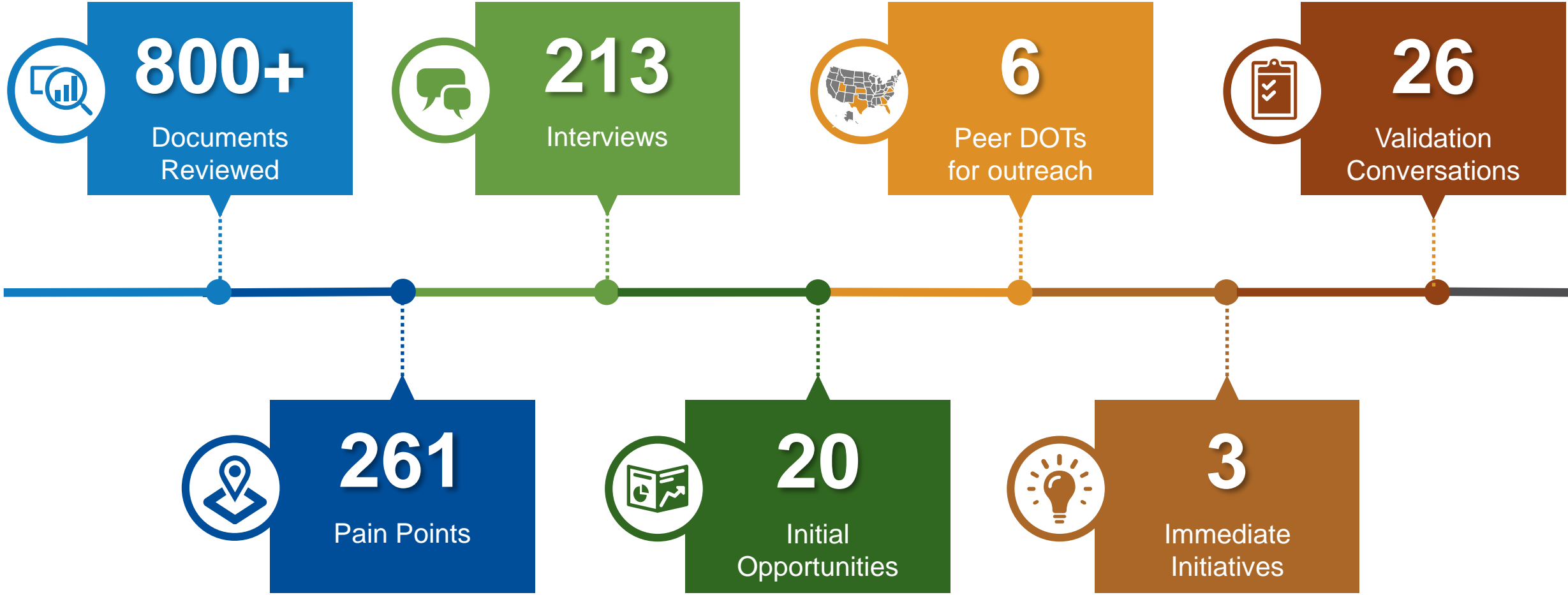
- 1. Improved Collaboration:** Fosters integration and coordination of activities, expertise, and resources across projects and key department functions that can be better achieved together while improving transportation services for Oklahoma
- 2. Enhanced Innovation:** Promotes innovation across the organization and modernizes all business processes with data analytics and tailored technology solutions
- 3. Greater Communication:** Facilitates constructive communication that ensures participation and transparency across the organization
- 4. Exceptional Customer Service:** Prioritizes and manages internal and external customer service, and allows user needs to influence transportation planning
- 5. Increased Efficiency:** Streamlines organizational structure and functions while encouraging collective and proactive optimization of resources, delivery timelines, and results
- 6. Rapid Adaptability:** Enables the organization to rapidly address existing and emerging needs, allocate resources, and implement solutions accordingly

Modernization Framework

The Capability Maturity Model serves as a foundational framework to Modernization. The framework, coupled with the Modernization Vision and Guiding Principles, serves as the lens used to examine the Cabinet and will guide the future recommendations and implementation roadmap to ensure success



Current State Assessment Inputs & Outputs



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Transportation Cabinet Overview



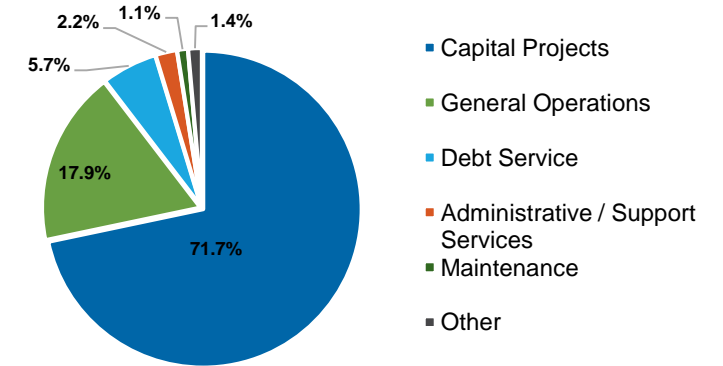
Secretary of Transportation, Tim Gatz

As Secretary of Transportation, Tim Gatz leads the Transportation Cabinet including ODOT, OTA, and OAC. A primary initiative for the Cabinet in the coming years is to integrate and modernize the Cabinet so that it can successfully attend to the long-term transportation needs of the State

Cabinet Quick Facts

Agencies, Boards, Commissions (ABCs)	3	Departments / Divisions	73
2021 Budget	\$2,408.1M	Facilities	1,066
Total Employees	3,034	IT Applications	436

2021 Budget by Summary Level Program Category

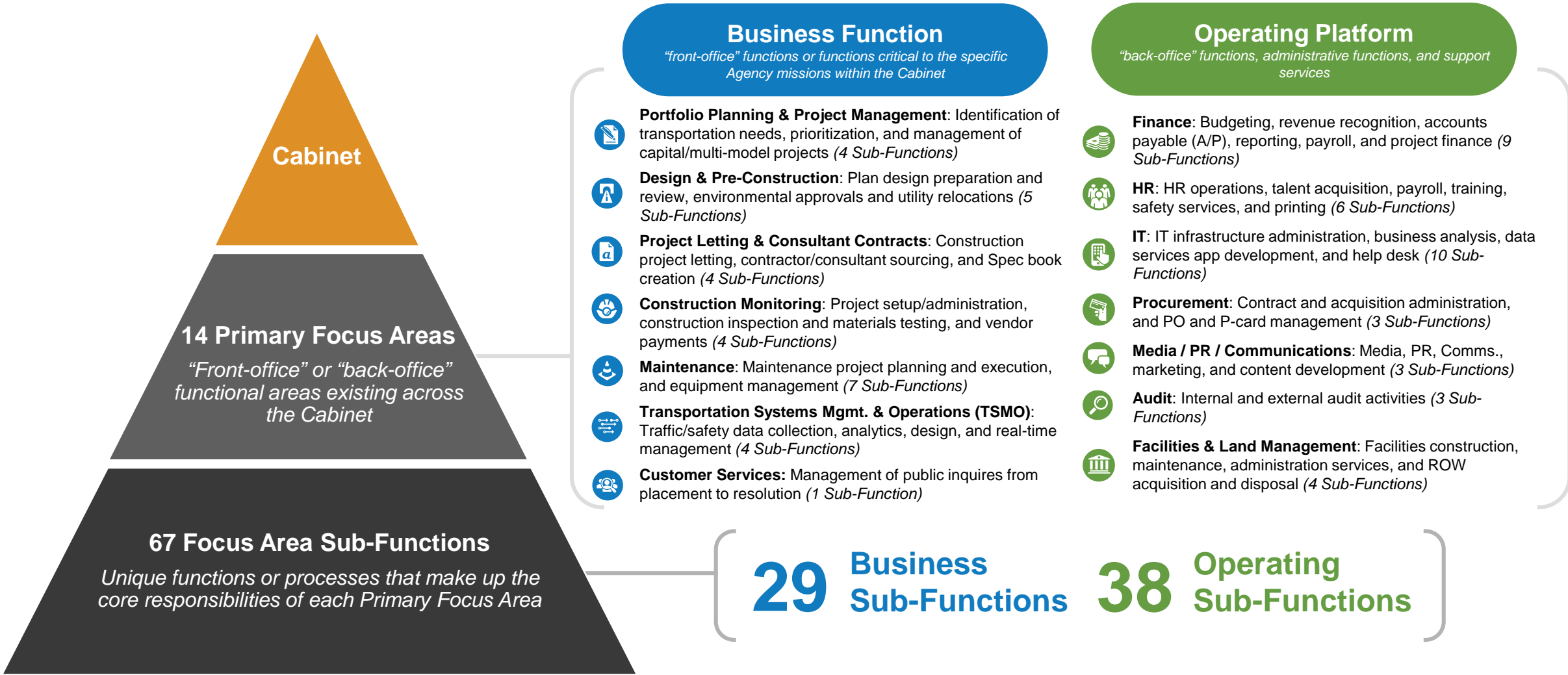


ABC Snapshot & Key Performance Metrics

Oklahoma Dept. of Transportation (ODOT) Sec. Tim Gatz, Executive Director		Oklahoma Turnpike Authority (OTA) Sec. Tim Gatz, Executive Director		Oklahoma Aeronautics Comm. (OAC) Grayson Ardies, State Director of Aeronautics	
\$1,701.3M		\$699.4M		\$7.4M	
% of deficient bridges (FY20)	1.27%	% of electronic tolling usage (FY19)	79.36%	% of airport construction funds granted (FY20)	95.00%
Fatalities on public roads (FY19)	640	% of structurally deficient bridges (FY19)	0.38%	Aerospace & aviation grant application participation (FY20)	46
Miles of rural highways with deficient shoulders (FY20)	5,299	% of pavement miles with "Good" rating (FY19)	91.57%	5010 safety and standards inspection conducted on the States 137 public-use airports (FY20)	29
% of lane miles in good condition	35.03%	% of construction contract growth (FY19)	1.63%		
		% of construction contract awards w/in estimate (FY19)	42.90%		

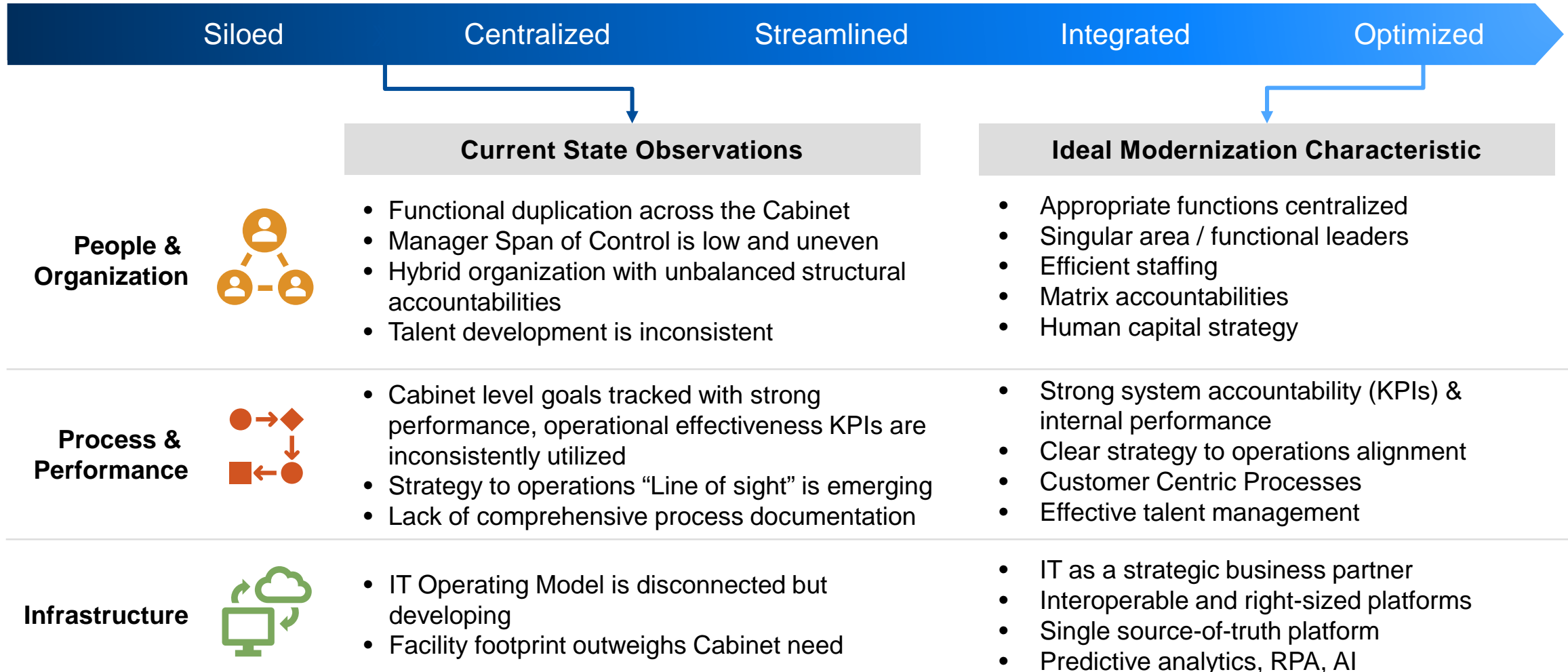
Current State Observations: Overview

To enable the development of granular and targeted modernization opportunities, the current state of the Cabinet was assessed at three levels; Cabinet level, primary Focus Areas, and Focus Area Sub-Functions



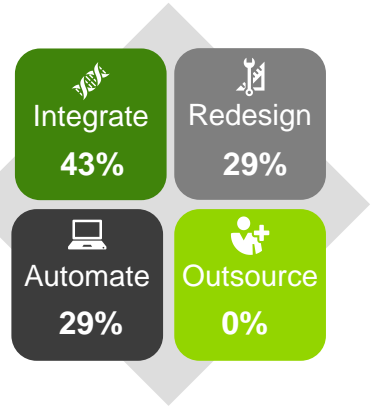
Current State Observations: Cabinet Level

The Capability Maturity Model presents a pathway to realizing the Transportation Modernization Vision. A comparison of the Cabinet to select characteristics of an optimized organization based on the Maturity Model helps direct the approach to identify and shaping recommendations



Observations & Opportunities: Business Functions

Our detailed analysis of the 7 Business Function Focus Areas with 29 Sub-Functions across the Agencies yielded several opportunities within the areas of Integrate, Redesign, and Automate, based on the identified strengths and risks below



INTEGRATE

- Unify portfolio planning, project management, and TSMO within ODOT and expand to include OTA/OAC
- Integrate Design, Letting, and CO Construction functions across Cabinet
- Expand OTA Customer Service role beyond OTA to the entire Cabinet

REDESIGN

- Create a Maintenance Quality Assurance framework
- Establish a TSMO Strategy
- Define operational effectiveness KPIs and SLAs where gaps exist
- Create process documentation for critical areas
- Establish appropriate matrix accountabilities

AUTOMATE

- Expand the use of ODOT construction monitoring, vendor payment, and letting applications across the Cabinet
- Harmonize Maintenance, TSMO, and system condition platforms
- Invest in robust project and grants management platforms

STRENGTH

RISK

PLANNING

- ODOT system condition data management and analytics

- Project/Program mgmt. and controls structure; and software
- Portfolio Plans integration

DESIGN

- ODOT core competencies & process maturity
- OTA design timeframe

- Coordination between Divisions; CO and Districts
- ODOT QA/QC Org. Structure/Processes

LETTING

- ODOT Project Letting and Spec Book platform

- ODOT Software application support
- Consultant procurement - decision making process

CONSTRUCTION

- ODOT construction monitoring platform

- OTA/OAC Vendor Payment/Contract Admin platform
- ODOT Software application support

MAINTENANCE

- ODOT/OTA Maintenance Management Systems

- Maintenance Quality Assurance platform
- Staff turnover and human capital development

TSMO

- OTA infrastructure to capture real time traffic data

- TSMO strategy and Organizational Structures

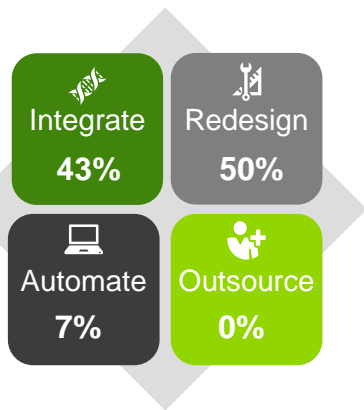
CUST. SVC.

- OTA customer service platform

- ODOT customer service platform
- Segregation of OTA Tolling duties

Observations & Opportunities: Operating Platform

Our detailed analysis of the 7 Operating Platform Focus Areas with 38 Sub-Functions across the Agencies yielded several opportunities within the areas of Integrate, Redesign, and Automate, based on the identified strengths and risks below



INTEGRATE

- Integrate targeted functional areas in HR, Finance/Controller, IT, Comms/ Marketing, Audit, and Procurement
- Unify ROW & Facilities within ODOT and expand to include OTA/OAC
- Establish robust Back Office Support division specific to Tolling

REDESIGN

- Establish Strategy for HR Talent Mgt., IT Platform & Service Quality, Facilities
- Define operational effectiveness KPIs and SLAs where gaps exist
- Create process documentation for critical areas
- Establish appropriate matrix accountabilities

AUTOMATE

- Expand the use of Workday across Cabinet and focus areas where appropriate
- Harmonize Procurement, Communications, Audit and Facilities software applications

	FINANCE	HR	IT	PROCUREMENT	COMMS/PR	AUDIT	FACILITIES
STRENGTH	<ul style="list-style-type: none"> • ODOT process maturity & KPI platform • OTA budget, reporting, and accounting standards 	<ul style="list-style-type: none"> • ODOT transition to Workday • ODOT Training Program Development 	<ul style="list-style-type: none"> • OTA IT platform and people capabilities • Process maturity at OTA 	<ul style="list-style-type: none"> • Cross agency informal contract sharing • Dedicated ODOT staff with clear role division 	<ul style="list-style-type: none"> • OTA Marketing platform • Skilled content development staff 	<ul style="list-style-type: none"> • ODOT audit expertise, process and policy documentation 	<ul style="list-style-type: none"> • ODOT ROW process maturity and KPI platform
RISK	<ul style="list-style-type: none"> • Staff retirement risk • Staffing imbalances • Segregation of OTA Tolling duties • Multiple / antiquated IT systems 	<ul style="list-style-type: none"> • Staff retirement risk • Process maturity and KPI platform • Insufficient staff • Training attendance value proposition 	<ul style="list-style-type: none"> • Many legacy applications and aging infrastructure • Lack of overall IT governance • OMES service quality 	<ul style="list-style-type: none"> • OTA/OAC staffing levels • Process automation 	<ul style="list-style-type: none"> • Comms / Marketing strategy • Agency brand clarity • Functional gaps • Insufficient & siloed staff • IT infrastructure 	<ul style="list-style-type: none"> • Staff Retirement risk • Process maturity and documentation • OAC functional gap • Audits alignment to priority risks 	<ul style="list-style-type: none"> • Facilities / Land Mgmt. Strategy • Siloed staffing • OTA ROW staffing • Maintenance KPI • Facility Footprint

Future State Recommendations Approach

Establishing a focus for formulating future state recommendations aligns the Cabinet with an appropriate Modernization trajectory



Organizational Integration

Using the Focus Area level findings as a foundation, establish the right organizational structures, leadership, and internal performance measures to pave the way for longer term operational success and modernization



Right size key infrastructure platforms

Form a unified IT platform and re-calibrate the facility footprint to enable and catalyze modernization efforts



Generate Quick Wins

Identify and execute on a limited number of high impact / low effort initiatives to help jump-start modernization and set a tone of success

Immediate Initiatives

The current state assessment has revealed critical strategic and functional gaps for which the Cabinet should consider taking immediate action to mitigate any near-term risks

1

Integrate OMPT within Rail Division

Current State: The Office of Mobility and Public Transit (OMPT) is currently without Division Leadership

Recommendation: Move the Office of Mobility and Public Transit (OMPT) under Director of Capital Programs, and potentially integrate with the Rail Division

Benefit: Integrates similar functions and allows for resource pooling, and lays the groundwork to establish a robust multi-modal transportation plan

2

Integrate Media/PR/Communications

Current State: Communication with the public / external stakeholders is of strategic importance, however, critical strategic and functional gaps exist

Recommendation: Create a “Strategic Communications” division that unifies relevant staff from ODOT and OTA

Benefit: Lays groundwork to establish a robust/unified enterprise marketing, Media/PR, and communications strategy; Integrates similar functions, and allows for resource pooling to enable better performance

3

Strengthen Tolling Back Office Support (BOS)

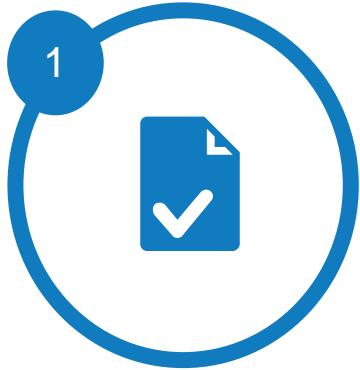
Current State: OTA’s current BOS structure does not align to leading practices and places the AET rollout on the Kilpatrick at risk

Recommendation: Re-structure OTA Customer Service, Tolling Operations, and Finance divisions to strengthen the back office operations ahead of the AET pilot

Benefit: Allows for the financial, IT, and data systems sophistication and process standardization required for more efficient and scalable electronic transaction processing

Next Steps

The next steps will allow for the Cabinet to attend to some urgent organizational needs, establish the direction for future state recommendations, and enable communication of findings to all transportation staff and help promote engagement



Secure Key Approvals

Secure approval for Immediate Initiatives, Recommendations Approach, and Report acceptance



Communicate Findings

Engage Change Management Team to communicate current state findings to Staff, prioritizing those impacted by Immediate Initiatives



Craft Recommendations

Convene the TMC to commence crafting Modernization recommendations in the “Architect the Change” Phase

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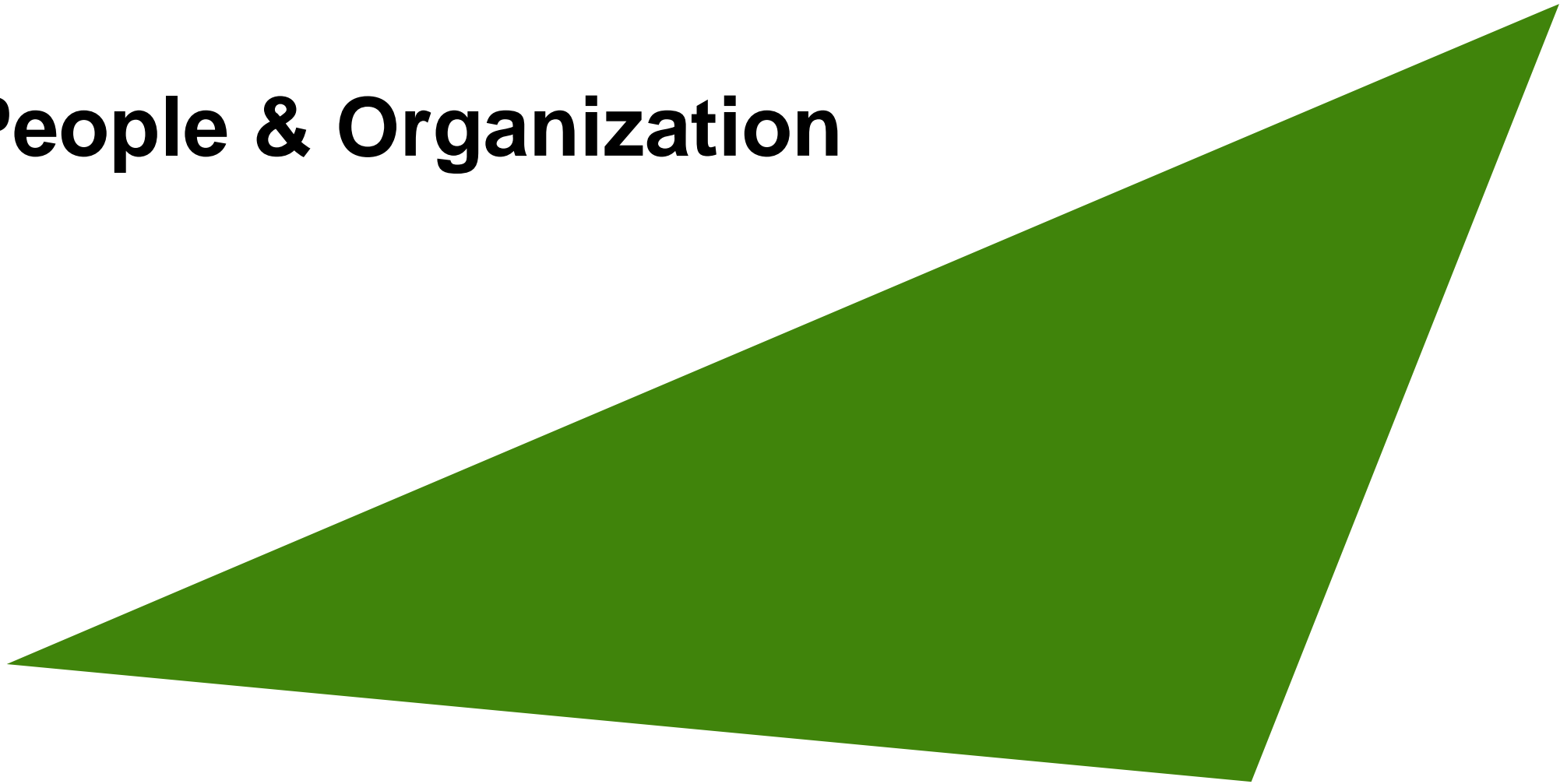
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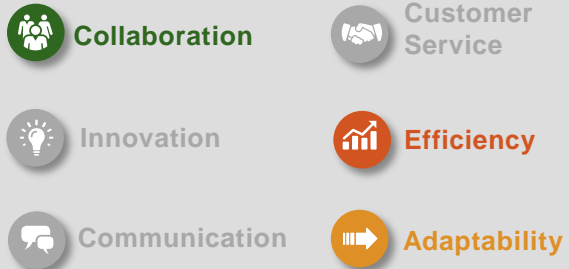
Appendix: Focus
Area Profiles

People & Organization



Functional duplication is pervasive across the Cabinet and some critical gaps exist

Impacted Guiding Principles



Ideal Modernization Characteristic

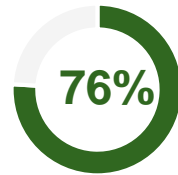
Appropriate Functions Centralized

Key Takeaways

- Considerable opportunity to integrate operations and optimize resources across the three Agencies
- Critical gaps currently exist, some of which need immediate attention

Functional Duplication

52 Duplicative Sub-Functions



- Focus Area Sub-Functions that are identical/analogous, and could be integrated and shared, across ODOT, OTA, and OAC (where appropriate)
- Percentage of duplicative Sub-Functions of the 67 total Sub-Functions spanning 14 Focus Areas across ODOT, OTA, and OAC (where appropriate);

5 Specialized Sub-Functions

- Key Sub-Functions that are unique to any one of ODOT, OTA, or OAC

The 5 specialized Sub-Functions include PikePass Customer Service, Revenue Assurance, ODOT Rail and Utilities Audits, OTA Project Finance, and Misc. Maintenance Programs

Beyond the Focus Areas each Agency executes on unique activities due to statutory or financial requirements, examples include: (ODOT) Civil Rights / DBE; Tribal Liaison; (OTA) Toll Operations, Highway Patrol, and External Audit; (OAC) Aerospace advocacy/education programs

9 Critical Sub-Functional Gaps

- Sub-Functions that are undeveloped or absent, but have significant impact on the Cabinet operating model

Critical Function Gaps include communications, marketing, content development; Maintenance Quality Assurance (MQA); unified TSMO strategy; ODOT IT asset management, business analysis, and content management; and ODOT customer service

- Tangential to the Finance Focus Area, OTA faces a critical gap related to the Tolling Back Office Support

Leader Span of Control (SOC)* is low and uneven across the Cabinet illuminating opportunity to optimize staffing and structure

Impacted Guiding Principles

- Collaboration
- Innovation
- Communication
- Customer Service
- Efficiency
- Adaptability

Ideal Modernization Characteristic

Singular Executive / Functional Leader

Efficient Staffing

Key Takeaways

- Span of Control gives insight into how efficiently Agencies are structured
- Pockets of inefficient staffing exist across the Cabinet and opportunities exist to re-deploy staff

Cabinet-wide Leader Staffing Efficiency

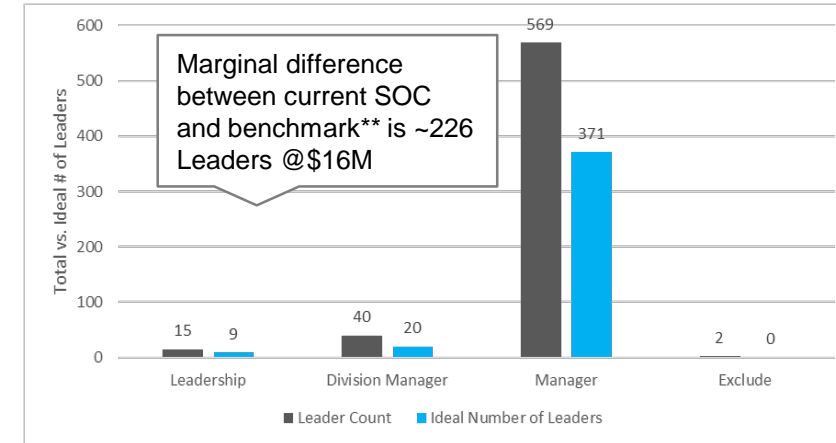
Span of Control Baseline – ODOT and OTA

Agency	Management Level	Total Employees (less Staff)	Number of Leaders	Avg. Direct Reports	Median Direct Reports	
ODOT	Leadership	12	10	8.3	7.0	
	Division Manager	31	30	5.1	5.0	
	Manager	506	505	5.0	4.0	
	Excluded	109	2	1.0	1.0	
	Sub-Total		658	547	5.1	4.0
OTA	Leadership	5	5	3.4	3.0	
	Division Manager	10	10	3.2	3.5	
	Manager	67	64	9.3	6.0	
	Sub-Total		82	79	8.2	5.0
	Total		740	626	5.5	4.0

Source: ODOT/OTA/OAC personnel files as of July 2020

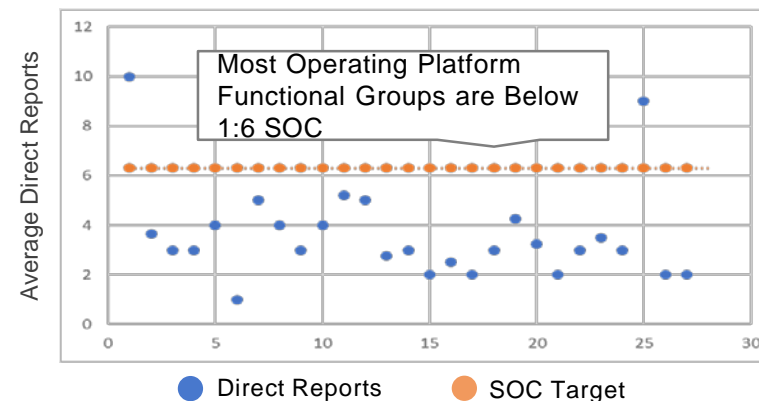
Directional Opportunity for SOC

Total Leaders vs. Directional Opportunity at 1:6



Operating Platform Groups SOC vs. 1:6 Benchmark

SOC Baseline – ODOT and OTA



Observations

- Current state Span of Control (SOC) vs. benchmark helps to investigate areas for consolidating and resources movement
- Current state ODOT and OTA are structured with ~65% - 67% of Leaders below benchmark of 1:6, with SOC ranging from 1:1 to 1:4. At the leadership level (6); Division Manager level (20); Manager level (198)
- The aggregate difference between the current SOC and benchmark is equal to 226 leaders representing ~\$16M in personnel costs to consider for enabling future state design options

The Cabinet has several cross-functional organizational structures but lacks appropriate matrix (vertical and horizontal) accountabilities



Impacted Guiding Principles

- Collaboration
- Customer Service
- Innovation
- Efficiency
- Communication
- Adaptability

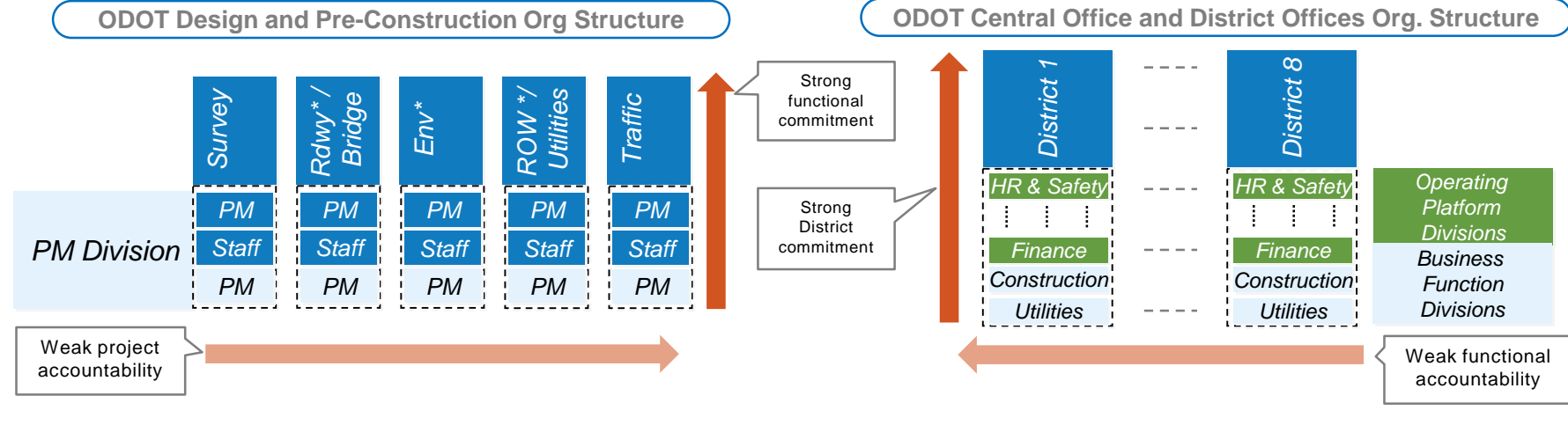
Ideal Modernization Characteristic

Matrix Accountabilities

Key Takeaways

- Imbalance in authority and decision-making rights limits end to end performance
- Little incentive to collaborate across divisions
- Duplicative systems and lack of process/project transparency

Sample agency Org. Structures and current matrix accountabilities



Pain Point Observations

53

Number of Pain Points attributable to lack of appropriate structural accountabilities

- Multiple independent systems to track project & operations execution
- Divisions operate in siloes with very little sharing of information, or best practices
- Lack of Service Level Agreements between collaborating Divisions or overarching KPIs
- Job Descriptions not appropriately structured to drive performance in a matrix environment
- Lack of standard approaches for identical functions that span Divisions, or inconsistent use of standard approaches if they exist

Sample Outcomes for sub-functions implemented in matrix environment

73%

% of planned ODOT/OTA projects let on time (2018 & 2019) per 8-Year CWP and 5-Year Capital Plan

Source: ODOT/OTA provided 8yr - CWP/5yr - CP performance measures

12.2%

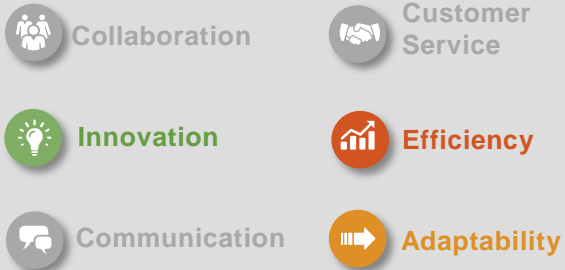
Average annual Cabinet 2019 turnover rate for ODOT/OTA/OAC

Source: ODOT/OTA/OMES provided staff turnover data

*Rdwy = Roadway Division; Env = Environmental Division; ROW = Right of Way

Talent development processes are inconsistent amidst the backdrop of significant staff retirement risk


Impacted Guiding Principles



Ideal Modernization Characteristic

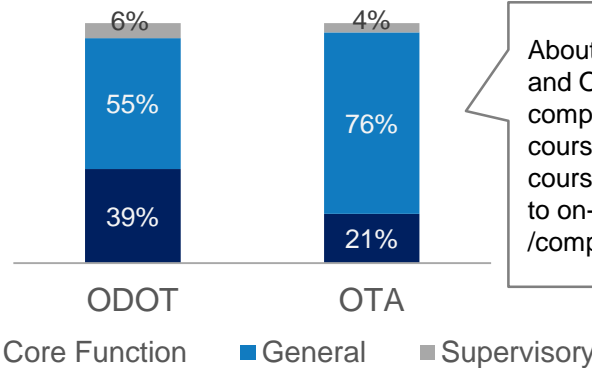
Human Capital Strategy

Key Takeaways

-  Career paths and learning pathways do not exist
 - Training and development are not consistently formalized, tracked, or linked to career paths
 - Impending staff retirements pose a significant risk to institutional knowledge and Cabinet core competencies

ODOT and OTA Training

% of trainings completed by type*



About 62% of ODOT and OTA employees completed a training course in 2019. Most courses were related to on-boarding /compliance training

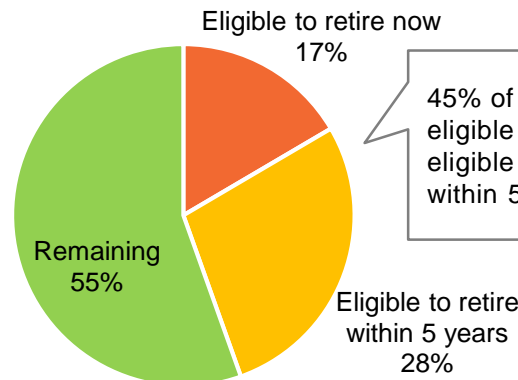
Source: ODOT/OTA centrally tracked training data as of Jan 2021

Pain Point Observations

- While there is a centralized training platform, the availability of core competency trainings has diminished
- Course completion tracking is inconsistent and limited to the centrally administered courses
- With some exceptions (EIT, equipment and materials testing certifications), training provided throughout the Divisions is typically hands-on and not institutionalized
- Career paths and succession plans are nearly non-existent
- Attracting young talent is a significant challenge

Retirement Eligibility

% of staff eligible to retire

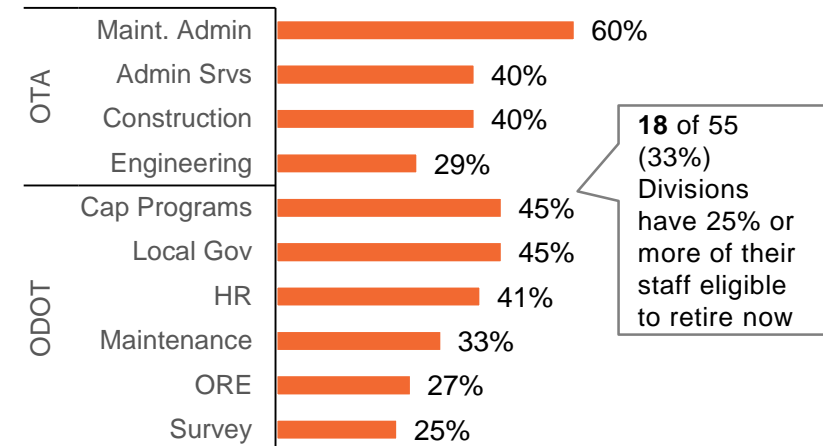


45% of staff are eligible or will be eligible to retire within 5 years

Source: ODOT/OTA/OAC retirement eligibility personnel data for FY2019

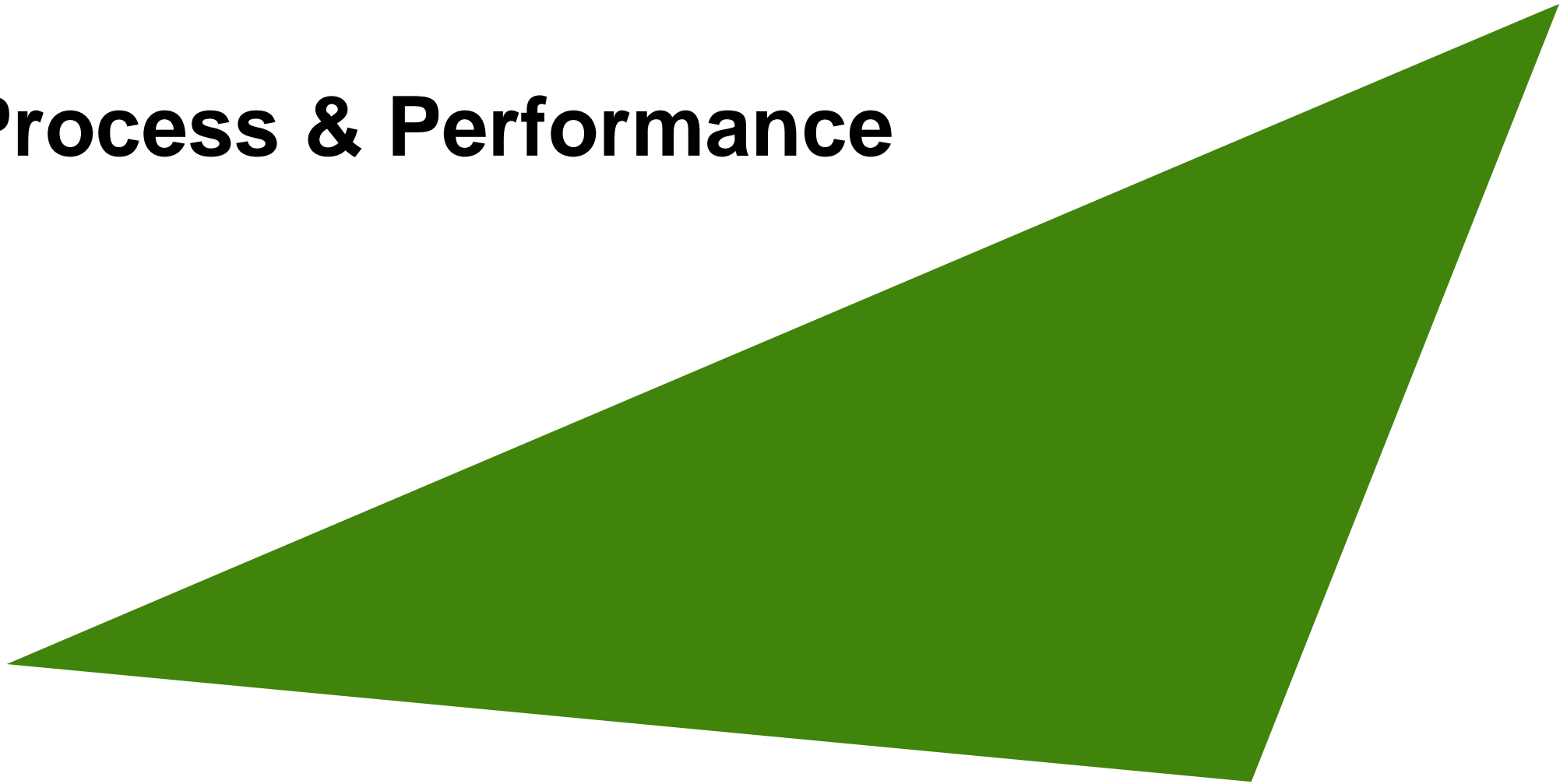
*Displayed data is from 2018 which is more reflective of historical trend data

Divisions with Greatest % of Retirement Eligibility

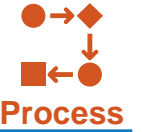


18 of 55 (33%) Divisions have 25% or more of their staff eligible to retire now

Process & Performance



Operations Line of Sight to execute the Cabinet Strategy is emerging but not mature or inclusive



Impacted Guiding Principles



Ideal Modernization Characteristic

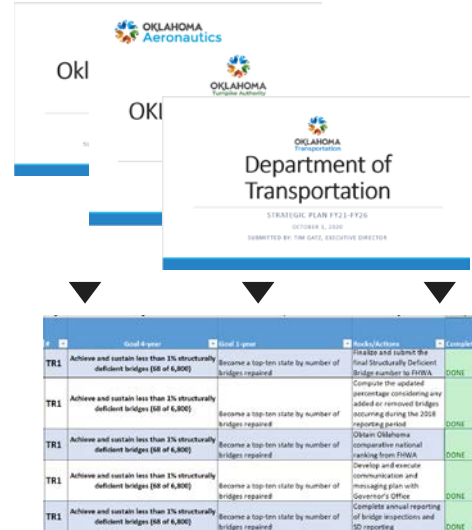
Clear strategy to operations line of sight

Key Takeaways

- Without Cabinet mindset and inclusive line of sight:
 - Operating model to support execution will be misaligned regarding scope / requirements
 - Agencies will be under resourced, execute locally, and contribute less than required

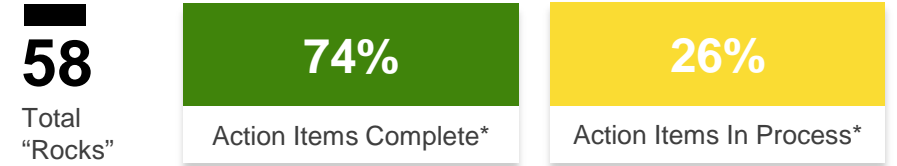
Cabinet Strategy To Operations Line of Sight

Agency Strategy to Action Plan



The Cabinet has translated 5 of its Strategic goals into concrete action items ("Rocks") with associated owners and delivery timelines. Nevertheless, the 3 Agencies aren't fully represented, and downstream performance metrics are absent

Action Plan Progress



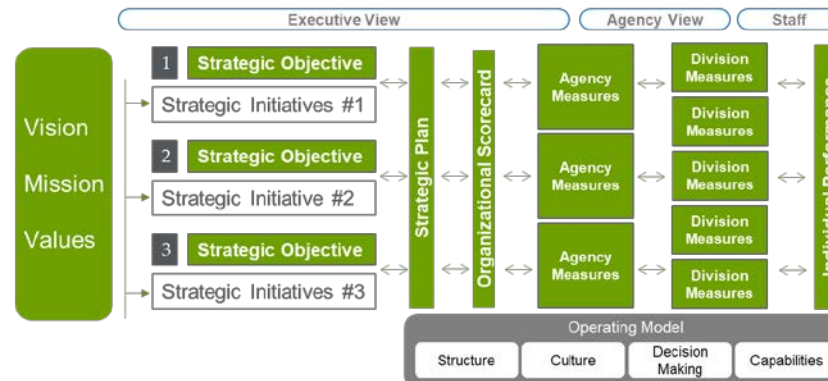
Action Item Distribution

PLANNING	33	TSMO	7
LETTING	1	COMMS	6
CONSTRUCTION	4	TOLL OPS	6
MAINTENANCE	1		

Source: ODOT/OTA June 2020 Traction Goals

While the Cabinet has made significant progress, key functional areas are absent, obscuring contribution and impact

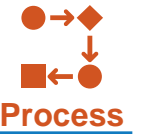
Line of Sight Model



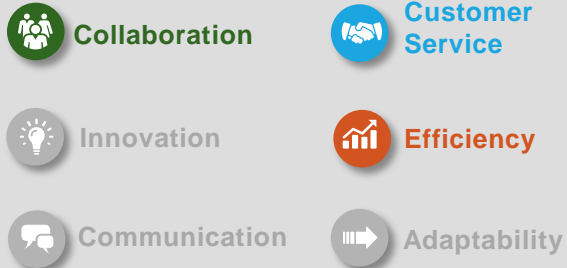
Observations

- Current ODOT, OTA, and OAC agency strategic plans highlight contributions to Cabinet Strategy with a historic and "siloes" agency and division mindset, potentially leading to local and "siloes" execution tactics and resource deployment
- Current Action plan / "Rocks" do not include all business function and operating model components potentially excluding their contributions and impacts to the underlying divisions

Cabinet level goals tracked with strong performance, operational effectiveness KPIs are inconsistently utilized



Impacted Guiding Principles



Ideal Modernization Characteristic

Strong system accountability (KPIs) & internal performance

Effective talent mgmt..

Key Takeaways

- The Cabinet is generally on track to achieve its strategic goals
- Lack of operational effectiveness KPIs limits access to data necessary to continuously improve internal operations over the long run

Agency-level metrics

ODOT

4 of 4 Trending / Achieved

1.27%
% Structurally Deficient Bridges*

OTA

5 of 6 Trending / Achieved

1.63%
% of Contract Growth**

OAC

2 of 3¹ Trending / Achieved

95%
% Programmed funds granted***

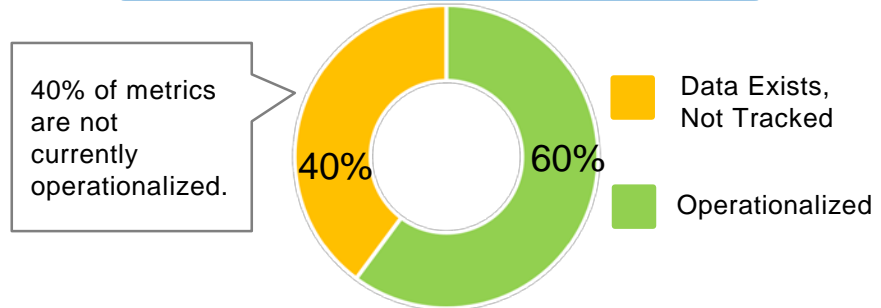
Sample KPIs

At the Cabinet level, most metrics detailed in the agency strategic plan are achieved or are on target. However, internal metrics are not consistently clear at the functional area level

Source: ODOT/OTA/OAC FY2021 – 20216 Strategic Plans

Operational Effectiveness KPIs

Distribution of sample Focus Area KPIs



9/14

Focus Areas for which Interviews revealed operational effectiveness KPIs were lacking or did not exist

Focus Areas with more mature KPIs

ODOT Right of Way

- ~95 KPIs tracked on a quarterly basis that measure performance across 13 key functional dimensions

ODOT Finance: Accounts payable, Revenue

- Robust Performance Management Plans with clearly defined metrics

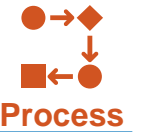
OTA Customer Service

- ~15 division and individual level KPIs. Real-time performance data and dashboards readily available and monitored daily

Pain Point Observations

- The data to calculate KPIs typically exist. However, data quality issues, lack of performance measurement culture, and system constraints prevent regular and consistent operational performance tracking
- Very few Service Level Agreements (SLAs) exist between divisions which hinders collaboration and accountability
- Performance Management Plans (PMPs) exist at the individual level, yet they are not consistently tracked and do not include function-level performance metrics

Level of processes standardization, documentation, and automation varies, limiting knowledge management and process optimization



Impacted Guiding Principles



Ideal Modernization Characteristic

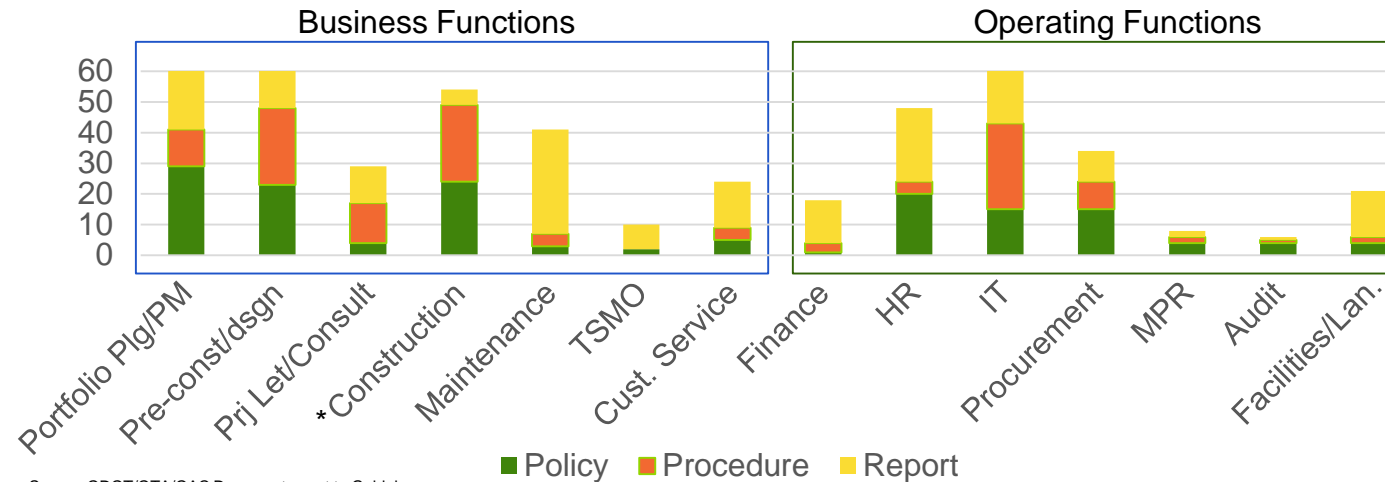
Customer Centric Processes

Key Takeaways

- Process documentation is generally addressed locally at the Division level
- Without complete end-to-end documentation, customer centered process optimization is difficult and organizational integration will be hampered

Process Documentation

Distribution of Process Documentation across Focus Areas¹



While Policy documentation is extensive, process documentation is not consistently present. Nevertheless, several Focus Areas including Design, Construction, Letting, and IT have significant process documentation

Source: ODOT/OTA/OAC Documents sent to Guidehouse

Pain Point Observations

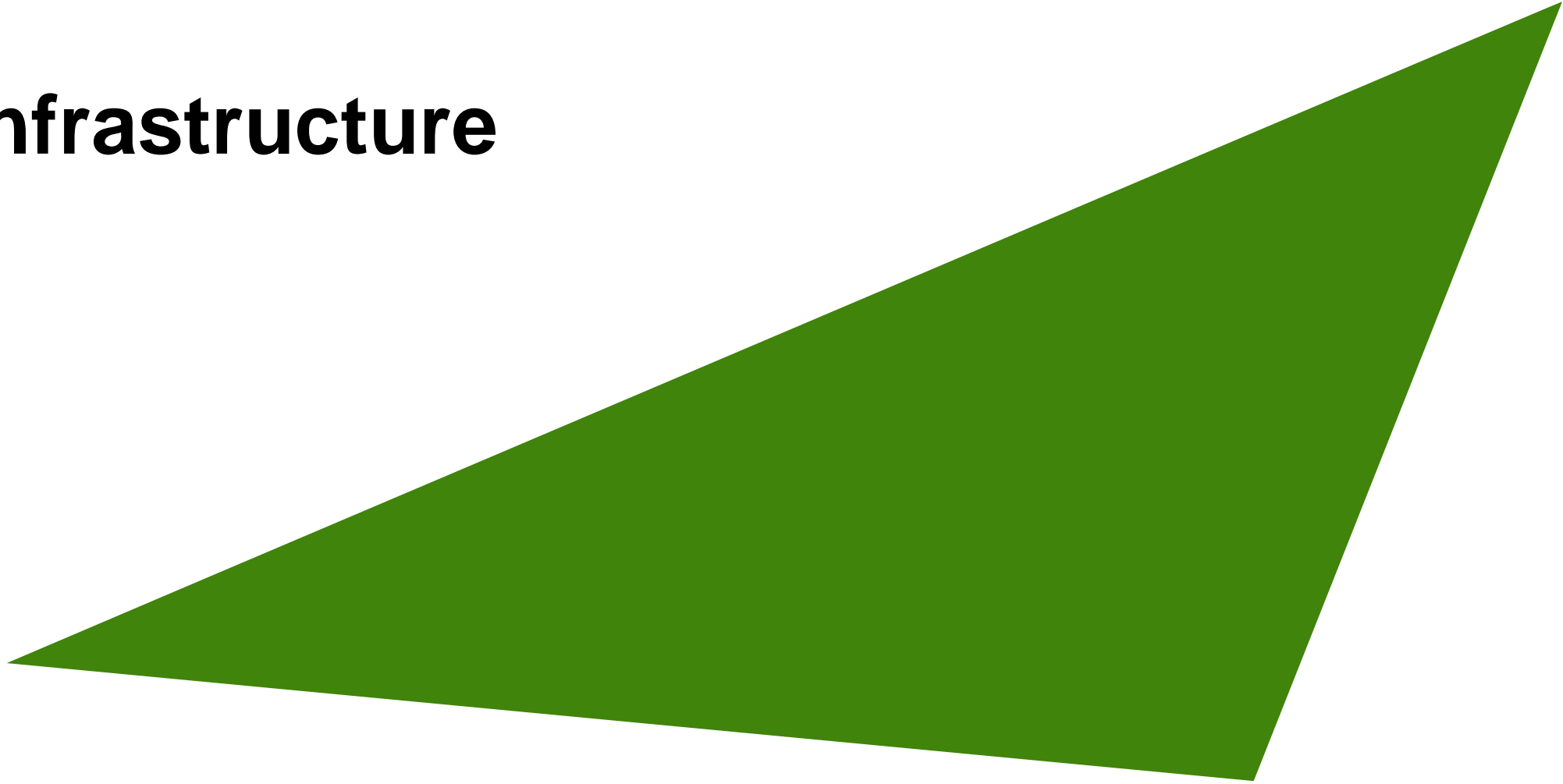
66

Number of Process related Pain Points

- Lack of process documentation, reliance on tribal knowledge, and highly manual processes were consistent themes raised in interviews
- Significant policy documentation across Agencies likely due to federal, state, and local requirements
- There are several “pockets” within each Agency that have strong process documentation. (e.g., ROW, Utilities, Construction, Controller/Comptroller, IT)
- On the business side, lack of standard processes poses significant challenges to coordination between divisions, especially in Maintenance and Construction
- Many manual processes exist, and with the transition to telework, some paper-based processes have been quickly transferred to electronic processes. However, electronic processes can still be inefficient. (e.g., emailing a file back and forth to gain all necessary approvals for contracts)

¹Construction document representation is accurate, but volume is scaled down 5X

Infrastructure



The Enterprise IT Operating Model is disconnected but developing, resulting in IT serving as a transactional rather than strategic partner



Impacted Guiding Principles

- Collaboration
- Customer Service
- Innovation
- Efficiency
- Communication
- Adaptability

Ideal Modernization Characteristic

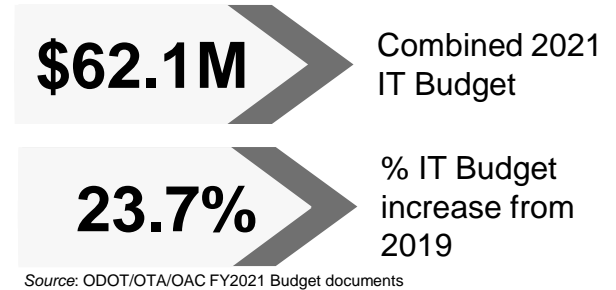
IT as Business Partner

Key Takeaways

- Key foundational gaps exist:
- Alignment between IT spend and strategic initiatives
 - Clarity related to what IT services will be delivered, by when, and the quality
 - Cohesive Org. structure and unified leadership to enable operational maturity

Governance

- No business strategy within / across Agencies creating uncertainty for IT
- No singular view into overall IT demand management across Agencies
- Lack of IT / data governance
- Project approvals require long lead times complex gates



Performance Measurement

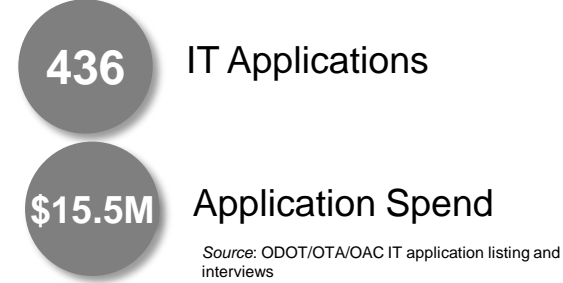
- SLAs are limited and Performance measures/metrics are compiled manually
- Unclear view of performance of IT investments, distribution, and value
- The majority of IT spend allocated to "run" as opposed to grow/transform

	SLA Categories	KPI Categories
ODOT	2 ↓	3 ↓
OTA	0 ↓	11 ↑

Source: OMES/OTA provided KPI and SLA information

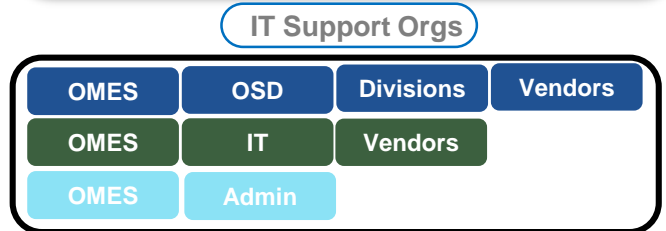
Architecture, Capabilities, Services

- Minimal Enterprise architecture and application standardization
- No clear way to map business applications, interactions, and data
- Numerous legacy systems without robust support or clear migration plan
- IT Service Management (ITSM) is inconsistent but emerging



Organization

- Unclear IT support structure across Agencies and lack of horizontal coordination
- Undefined / unfollowed vendor management processes with sourcing focused on contractors rather than MSPs
- IT leader load imbalance



Facility footprint outweighs Cabinet need resulting in unnecessary costs and hindering inter-agency collaboration (1 of 2)



Impacted Guiding Principles



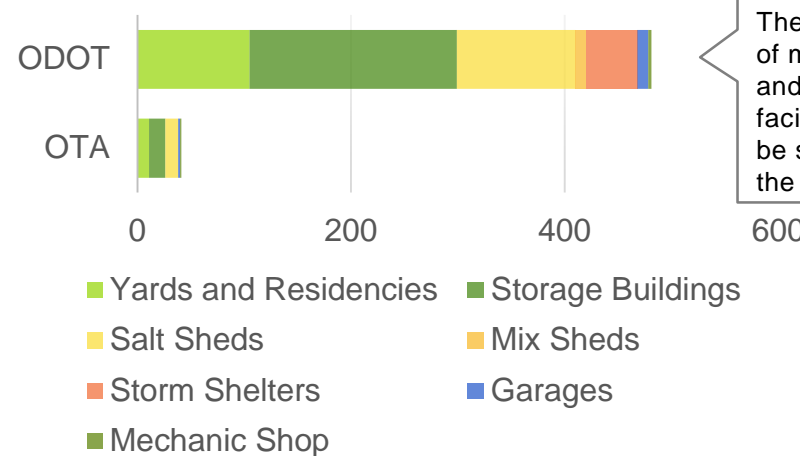
Ideal Modernization Characteristic

Interoperable and right-sized platforms

Key Takeaways

- There are opportunities to right size the facility footprint and reduce maintenance / capital improvement costs
- Consolidation will also aid in increasing collaboration and potentially lead to mutual efficiencies within the Agencies

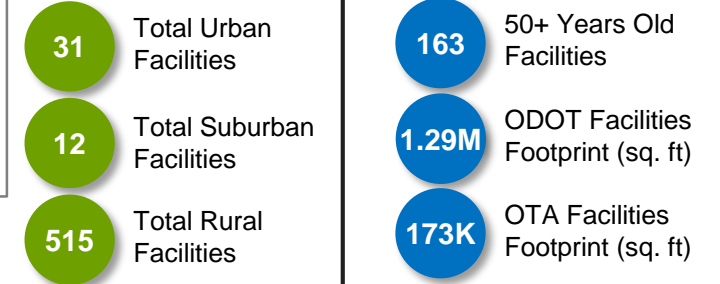
Total Facilities Breakdown*



There is an excess of maintenance and storage facilities that can be shared across the Agencies

Source: Guidehouse Facilities Data Validation

Community Breakdown



Community Ranges:
 Urban – 100K+ population
 Suburban – 50K-100K population
 Rural – Less than 50K+ population

Observations

- ODOT's facility footprint currently consists of 86 Maintenance Yards, 25 Construction Residencies, 8 Field District HQ and 1 Central Office
- OTA's facility footprint currently consists of 23 maintenance facilities on 11 turnpikes
- Approximately 32% of ODOT's current facilities have been in commission for more than 50 years and 8% have been in commission for more than 60 years. We currently do not have data around when OTA facilities were built
- The current maintenance costs for ODOT's facilities for FY20 are \$6.3 M. The maintenance costs for OTA's facilities in FY20 are \$634K annually
- The ODOT budget for capital improvements for FY21 is \$14.6M with the projected 5-year forecast to be approximately \$58.5M. The OTA budget for capital improvements for FY21 is \$3.4M with the projected 5-year forecast to be approximately \$5.4M

Facility footprint outweighs Cabinet need resulting in unnecessary costs and hindering inter-agency collaboration (2 of 2)



Impacted Guiding Principles

- Collaboration
- Customer Service
- Innovation
- Efficiency
- Communication
- Adaptability

Ideal Modernization Characteristic

Interoperable and right-sized platforms

Key Takeaways

- There are opportunities to right size the facility footprint and reduce maintenance / capital improvement costs
- Consolidation will also aid in increasing collaboration and potentially lead to mutual efficiencies within the Agencies

Rightsizing Parameters

- There are opportunities to consolidate/sunset maintenance facilities, but they are dependent on 3 critical factors: Maintenance Response Times (< 1 hour), distance to nearest population center (< 75 miles), and Manpower Availability/Utilization rates
- Consolidation needs to factor in the need/availability of increased equipment space as this correlates to more resources potentially being attributed to that yard
- There are opportunities in significantly scaling back the construction residencies (>50%), however they are crucial in rural areas where the consultant availability is limited and/or consultant fees are cost prohibitive

Maintenance Costs

ODOT

\$6.4M FY20 Maintenance

OTA

\$634K FY20 Maintenance

Capital Improvement Costs

ODOT

\$15M FY 2021

OTA

\$3.4M FY 2021

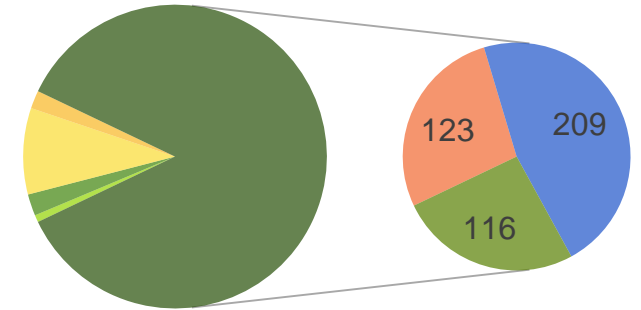
\$58M 5-Year Forecast

\$5.4M 5-Year Forecast

Facility Opportunities

All Facilities

Candidate Facilities



- Salt Sheds
- Storage Buildings
- Residency / Maint. Yard Buildings

Potential Savings

ODOT

50% "Sunset" facilities

>50% Cost Savings

>90%* Candidates for Consolidation

OTA

13% "Sunset" facilities

15% Cost Savings

100% Candidates for Consolidation

* ODOT Maintenance Yards and Construction Residencies

01

Overview

02

Executive Summary

03

Cabinet
Assessment

04

Focus Area
Assessment

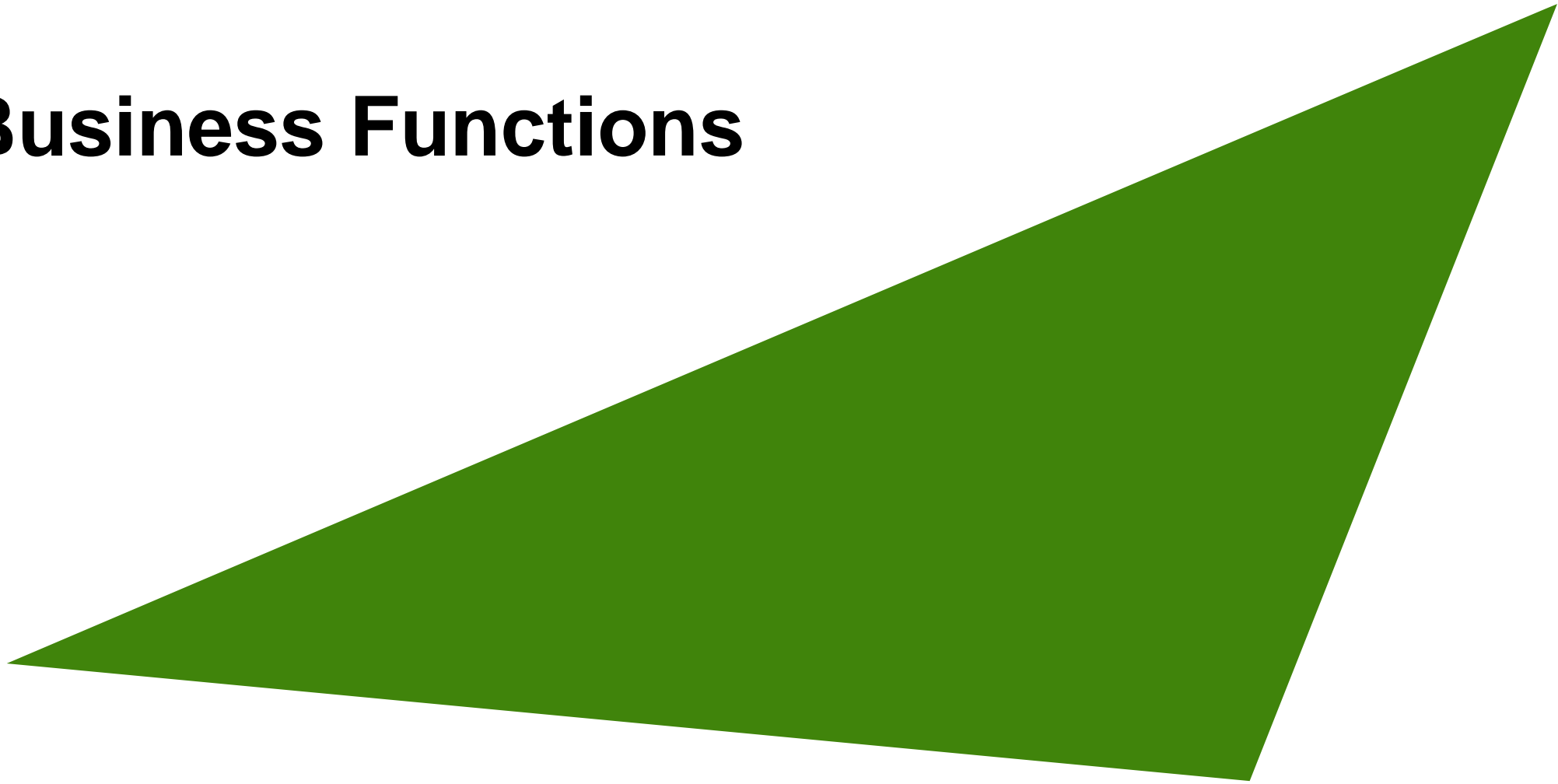
05

Immediate
Initiatives

06

Appendix: Focus
Area Profiles

Business Functions



Overview: Business Functions

Dedicated Personnel and Budget

	ODOT		OTA		OAC	
	FTE/Personnel Costs*	Consultant – Cost**	FTE/Personnel Costs*	Consultant – Cost**	FTE/Personnel Costs*	Consultant – Cost**
Portfolio Planning & Project Management	163 / \$20,403,381	\$5,201,173	4 / Hidden	\$730,380	4 / Hidden	\$425,000
Design & Preconstruction	286 / \$31,401,742	\$60,577,210	2 / Hidden	\$2,438,897	N/A	N/A
Project Letting and Consultant Contracts	23 / \$2,771,264	\$40,000	5 / \$538,402	\$-	N/A	N/A
Construction	537 / \$52,349,219	\$19,622,381	3 / Hidden	\$53,451,896	2 / Hidden	\$-
Maintenance	1246 / \$100,623,648	\$5,211,565	202 / \$12,944,231	\$2,419,708	N/A	N/A
TSMO	72 / \$7,451,649	\$1,075,759	4 / Hidden	\$450,000	N/A	N/A
Customer Service	9 / \$711,432	\$-	105 / \$6,054,763	\$1,245,024	N/A	N/A

FY 2019 Delivery Volume and Performance Highlights

ODOT	
<ul style="list-style-type: none"> Construction Projects: 254 / \$896M Work Plan Projects Entering Design: 60 District/County Maint. Spend: \$131M 	<ul style="list-style-type: none"> Avg Design Time: 2080 days Projects Let On-Time: 73.0% Construction Under-Budget: 54%

OTA	
<ul style="list-style-type: none"> Construction Projects: 57 / \$134M Projects Entering Design: 12 Maintenance Spend: \$19.3M 	<ul style="list-style-type: none"> Average Design Time: 202 days Projects Let On-Time: 72.7% Construction Under-Budget: 35%

OAC	
<ul style="list-style-type: none"> Construction Projects: 21 / \$5.1M Projects Programmed: 7/\$2.3M 	<ul style="list-style-type: none"> Airport Inspections: 44

Portfolio Planning & Project Management

Observations

Platform could be leveraged "as is";
Some strong practices

Platform functional; Upgrades driven
by overall Modernization prioritization

Platform in need of significant
upgrade and/or support

People & Organization



- ODOT's planning resources **span multiple divisions and are not unified**. OTA and OAC rely on a combination of consultants and ODOT
- OTA largely outsources Project/Program Management (PPM) to consultants
- ODOT manages numerous capital projects/programs, however, these **activities are siloed**, and decision rights are not calibrated to optimize project delivery

Process & Performance



- ODOT's formal PPM frameworks/toolkits are inconsistently utilized. Internal project delivery **KPIs inconsistently tracked**. OTA delegates project controls to consultants
- ODOT's data collection and analytics policies and procedures are mature. OTA and OAC largely relies on institutional knowledge, consultants, or ODOT for this guidance

Infrastructure



- **None of the Agencies have a mature Portfolio Project Management platform**
- ODOT has a maturing technology platform and suite of disparate tools to collect, analyze, and model system condition data; OTA relies on user developed or consultant provided tools

Opportunities

Integrate - Combine multiple divisions into one effective entity and align staff, policies, processes, systems.

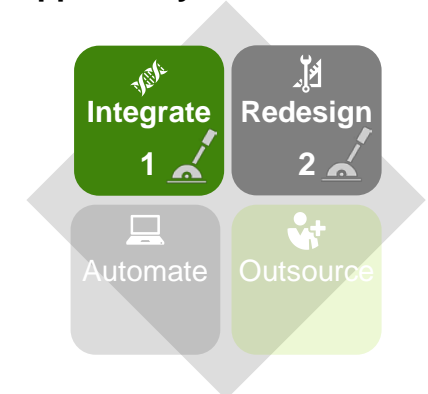
Redesign - Restructure and standardize cross functional processes around end-to-end transactions and create efficient and scalable processes

Automate - Eliminate manual labor, improve quality/reliability, and enable scalability by automating repeatable processes

Outsource - Outsource services to vendor to address subject matter expertise or resource gaps

- Leverage ODOT's maturing platform to unify system condition data management, analytics, and modeling across all three Agencies to establish a single source of truth and standardize approach
- Unify Portfolio and Program/Project Management activities primarily within ODOT and more broadly across all three Agencies within a centralized branch, and centralize decision making authority within this branch
- Formalize existing Project and Program Management frameworks and toolkits, establish KPIs, and secure software to streamline project management activities
- Secure and implement Grants Management Software to administer grant funds across all three Agencies

Opportunity Lever Priorities



Design & Pre-Construction

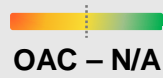
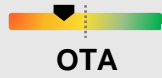
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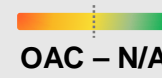
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People & Organization



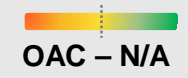
- Although ODOT's pre-construction Divisions individually have **strong core competencies**, these Divisions are clustered according to specialization and operate in siloes
- OTA does not have the expertise to perform any design work in-house and outsources all design activities

Process & Performance



- ODOT and OTA track overall key project milestones but **lack interagency KPIs/SLAs** and lack accountability when key deadlines are unmet
- ODOT has a foundation of policies/procedural documents that OTA leverages, including design standards

Infrastructure



- While there are systems in place to track design activities at ODOT, they are **cumbersome and antiquated**, and often are not updated
- **Information often remains siloed** at ODOT and other Divisions may operate based on inaccurate information

Opportunities

Integrate - Combine multiple divisions into one effective entity and align staff, policies, processes, systems.

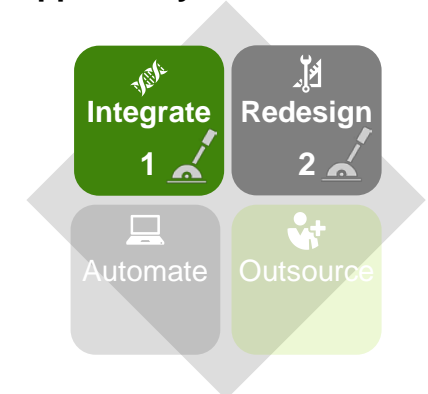
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Outsource - Outsource services to vendor to address subject matter expertise or resource gaps

- Optimize design work by unifying the Agencies and integrating processes
- Centralize project management decision-making authority, which will optimize the delivery performance of design activities and provide better understanding of resource allocation
- Establish SLAs/KPIs between the design and District Divisions to reduce some of the process execution pain points in areas such as utility relocation, environmental review, and errors & omissions
- Establish a more robust feedback mechanism between the design and district divisions
- Unify workflow and project management systems to gain a better understanding of resource needs

Opportunity Lever Priorities



Project Letting & Consultant Contracts

Observations

Platform could be leveraged "as is";
Some strong practices

Platform functional; Upgrades driven
by overall Modernization prioritization

Platform in need of significant
upgrade and/or support

People & Organization



- ODOT's procurement of Professional Engineering (PE) services is distributed across the Agency with each Engineering Division determining scope, make/buy decisions, budget, negotiations, and award
- OTA's consultant contracts are centrally managed where scope, budget, and need are determined

Process & Performance



- OTA leverages ODOT's spec book and pre-qualifications list
- OTA does not have formal consultant selection policies/procedures or a robust performance review policy or system, and can adopt ODOT's
- OAC outsources the modest level of PE service procurement to OMES which charges a high service fee

Infrastructure



- ODOT has a comprehensive letting system, which OTA could utilize as its system has yielded a more manual process, and which OAC could utilize for its sub-recipients
- ODOT and OTA both use different systems for document signing and project letting, but functionally, they are similar

Opportunities

Integrate - Combine multiple divisions into one effective entity and align staff, policies, processes, systems.

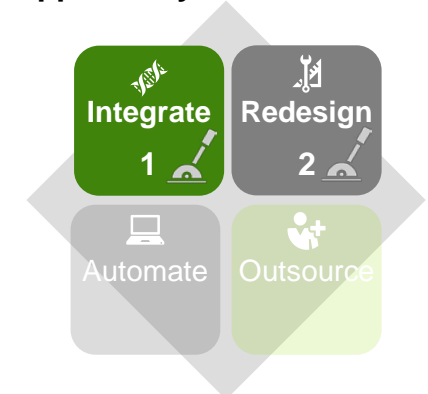
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Outsource - Outsource services to vendor to address subject matter expertise or resource gaps

- Streamline and centralize within ODOT engineering consultant make/buy decisions, budget, and negotiations, which will provide better cost control measures and reduce administrative resources
- Adopt the same spec book, and integrate project letting and consultant contracting across the Agencies, to optimize internal operations and enable consistency for consultants / contractors
- Utilize ODOT processes to conduct performance reviews and implement a process for resolution of claims against consultants for engineering errors & omissions
- Reduce technology duplication by utilizing the same document signing and project letting technology

Opportunity Lever Priorities



Construction

Observations

Platform could be leveraged “as is”;
Some strong practices

Platform functional; Upgrades driven
by overall Modernization prioritization

Platform in need of significant
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People & Organization



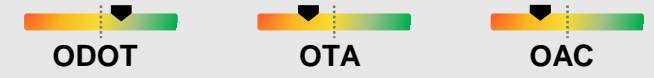
- All Agencies have **clear organizational structures** to manage Construction Inspection/Materials Testing activities. OTA and OAC largely outsource these functions, which allows more flexibility to shift resources
- All Agencies are **under-resourced** in Project Setup, Vendor Payment, and Contract Administration

Process & Performance



- ODOT has a **comprehensive policy/procedural framework**, but some key gaps exist. OTA and OAC have very limited policy / procedural documentation
- Current **KPIs are designed to meet regulations or track project timeliness / budget, rather than capture total performance or aid with process improvement**

Infrastructure



- ODOT has “**industry-standard**” **ASW Site Manager to manage workflow**, while OTA/OAC rely on spreadsheets or consultants
- Although ODOT requires facilities (residencies, materials labs, etc.) to support activities, **current footprint limits resource flexibility / optimization**

Opportunities

Integrate - Combine multiple divisions into one effective entity and align staff, policies, processes, systems.

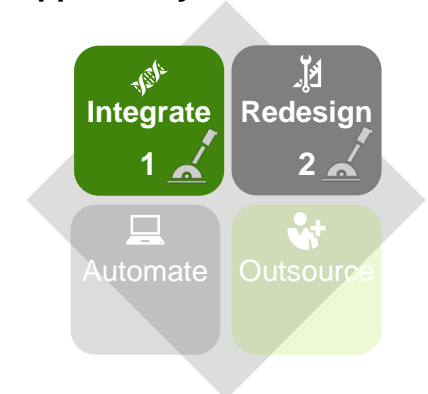
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Outsource - Outsource services to vendor to address subject matter expertise or resource gaps

- Centralize Construction Focus Area personnel across all three Agencies, and increase personnel dedicated to ASW Site Manager Support
- Consider re-calibrating District organizational structure with possible Facilities integration
- Standardize policy and procedure documents across all three Agencies where they exist (and applicable) and close process documentation gaps (e.g. Materials Manual, Const. PM)
- Standardize project management approaches and expand operating effectiveness KPIs to optimize resource utilization, improve project delivery, and vendor payments
- Expand the use of ASW Site Manager across all three Agencies (OTA, if appropriate), to track Construction Activities and process vendor payments

Opportunity Lever Priorities



Maintenance

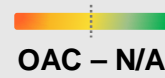
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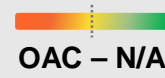
Platform in need of significant
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People & Organization



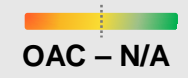
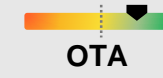
- Both Agencies have a lot of **turnover and issues with resource retention**, especially at the **junior staff level**
- Maintenance **training is targeted towards specialized skills** and certification and **not tied to career progression**

Process & Performance



- **Neither Agency has an MQA platform** to define Level of Service (LOS) targets, **prioritize maintenance projects, and develop budgets**
- **Neither Agency has** internal procedural documents or **mature project management** to guide maintenance work

Infrastructure



- ODOT has a more mature Maintenance Management Systems (MMS). However, data quality issues diminish the utility of the tool
- Although ODOT/OTA require facilities to support activities, **current footprint artificially limits resource flexibility / optimization**

Opportunities

Integrate - Combine multiple divisions into one effective entity and align staff, policies, processes, systems.

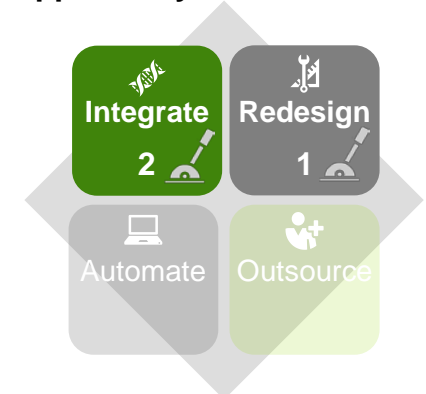
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Automate - Eliminate manual labor, improve quality/reliability, and enable scalability by automating repeatable processes

Outsource - Outsource services to vendor to address subject matter expertise or resource gaps

- Continue and expand ODOT's efforts to build a Maintenance Quality Assurance (MQA) platform to set Level of Service targets, manage project identification, and set budgets
- Integrate IT Infrastructure, specifically Maintenance and Equipment Management Systems
- Consider re-calibrating District organizational with possible Facilities integration
- Invest in creating process documentation (e.g. maintenance manuals) and expand project management approaches across ODOT and OTA
- Consider expanding Equipment Leasing across ODOT to manage the any budget shortfall

Opportunity Lever Priorities



Observations

Platform could be leveraged "as is";
Some strong practices

Platform functional; Upgrades driven
by overall Modernization prioritization

Platform in need of significant
upgrade and/or support

People & Organization



- Parts of TSMO are **spread across each Agency and there's no central TSMO strategy**
- **Duplication of work may occur**, with conflicting results because divisions are not communicating frequently

Process & Performance



- **TSMO concepts and principles are in their infancy**
- Dedicated funding for TSMO activities across all Agencies is generally lacking

Infrastructure



- The Agencies **lack a centralized and accessible data and storage system** needed to easily access real-time data
- **OTA has the infrastructure and real-time data that can be leveraged for TSMO purposes**, but it is not being used in this way

Opportunities

Integrate - Combine multiple divisions into one effective entity and align staff, policies, processes, systems.

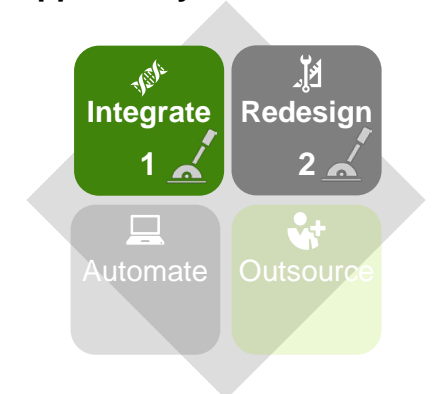
Redesign - Restructure and standardize cross functional processes around end-to-end transactions and create efficient and scalable processes

Automate - Eliminate manual labor, improve quality/reliability, and enable scalability by automating repeatable processes

Outsource - Outsource services to vendor to address subject matter expertise or resource gaps

- Centralize parts of TSMO into one Division within ODOT and develop clear roles and KPIs/SLAs between other relevant divisions (maintenance, design, SAPM, etc.) to ensure proper communications
- Establish a TSMO strategy and integration across each Agency
- Unify technology systems to enable real-time data access

Opportunity Lever Priorities



Customer Service

Observations

Platform could be leveraged "as is";
Some strong practices

Platform functional; Upgrades driven
by overall Modernization prioritization

Platform in need of significant
upgrade and/or support

People & Organization



- **No centralized customer service at ODOT** and it is being managed by the MPR Division and District offices
- In addition to typical customer service duties, **OTA's Customer Service Division is performing back-office tolling activities**

Process & Performance



- ODOT **does not** have a **strategy, processes, or KPIs**
- OTA has established KPIs and processes around their PIKEPASS customer service

Infrastructure



- OTA makes it convenient for customers to make payment transactions over the phone or in person, which can also be completed online

Opportunities

Integrate - Combine multiple divisions into one effective entity and align staff, policies, processes, systems.

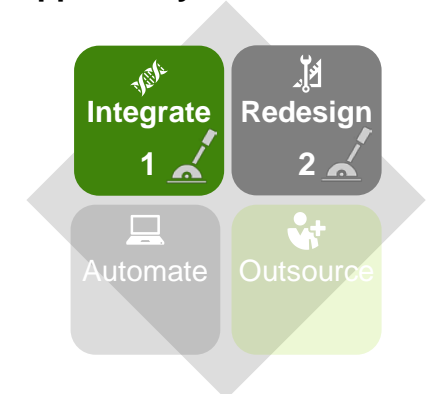
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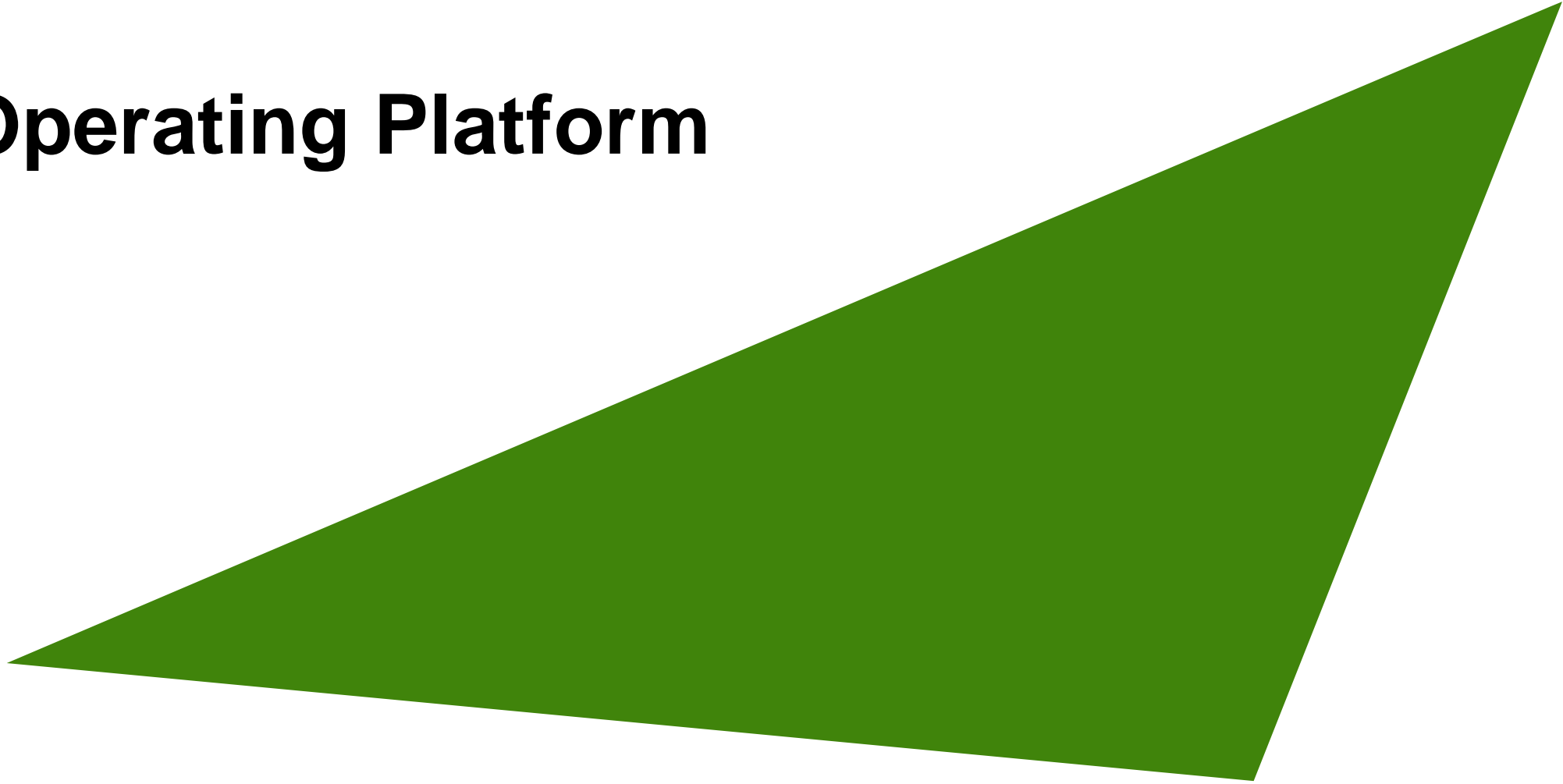
Outsource - Outsource services to vendor to address subject matter expertise or resource gaps

- Leverage OTA's Customer Service division resources to provide both general customer service to all external ODOT/OTA customers and PikePass specific requests
- Enable more customer self-service and automation for PikePass transactions, which would provide additional staff resources devoted to more general customer service for both ODOT and OTA
- Establish policies/procedures, SLAs and KPIs between the Central Offices and District Offices to track and manage customer inquiries to resolution
- Utilize more third-party entities for PikePass tag distribution / centralize staff into fewer facilities

Opportunity Lever Priorities



Operating Platform



Overview: Operating Platform

Dedicated Personnel and Budget

	ODOT		OTA		OAC	
	FTE/Personnel Costs*	Consultant – Cost**	FTE/Personnel Costs*	Consultant – Cost**	FTE/Personnel Costs*	Consultant – Cost**
Finance	65 / \$6,390,245	\$66,648	19 / \$1,871,479	\$2,360,000	2 / Hidden	\$-
HR	38 / \$4,447,853	\$184,717	10 / \$960,455	\$-	0.3 / Hidden	\$-
IT	14 / \$1,312,973	\$7,019,818	59 / \$6,237,745	\$-	N/A	N/A
Procurement	30.5 / \$2,495,187	\$4,682	1 / Hidden	\$-	0.6 / Hidden	\$-
Media/Public Relations/Communications	25 / \$2,294,369	\$60,962	1.5 / Hidden	\$100,000	0.5 / Hidden	\$-
Audit	11 / \$1,255,748	\$306,139	7 / \$547,895	N/A	N/A	N/A
Facilities and Land Management	85.3 / \$8,435,124	\$10,266,845	7.8 / \$619,001	\$2,416,923	N/A	N/A

Delivery Volume and Performance Highlights

ODOT	
<ul style="list-style-type: none"> Annual PO volume: \$1.6B Average monthly # of service requests: 490 	<ul style="list-style-type: none"> FY19 % of Facilities Constructed On-time: 100% Billing, requisitions, Journal entry accuracy rate: 92-98%

OTA	
<ul style="list-style-type: none"> Annual PO volume: \$51M Average monthly # of IT service requests: 400 	<ul style="list-style-type: none"> Maintaining the highest bond rating FY19 # and % ROW Acquisitions over offer: 58 / 49% over

OAC	
<ul style="list-style-type: none"> Annual PO volume: \$117K Average monthly # of IT service requests: 17 	<ul style="list-style-type: none"> Turnaround time for invoices: 5 days

Finance

Observations

Platform could be leveraged "as is";
Some strong practices

Platform functional; Upgrades driven
by overall Modernization prioritization

Platform in need of significant
upgrade and/or support

People & Organization



- There is **risk associated with losing people** through retirement/moves. **All Agencies need additional tribal knowledge capture & ideally cross training**
- **OTA is severely restricted in staff** and relies heavily on firefighting to achieve goals. **Some staff at ODOT may be underutilized** and need additional employee development

Process & Performance



- **ODOT has robust individual KPIs and procedures** for most financial processes. OTA/OAC KPIs not formally tracked
- Agencies have processes for the rigorous reporting required and opportunity **to automate**
- There are areas that could be **eligible for centralization** (given statutes / unique considerations)

Infrastructure



- There is **great need for AET support infrastructure** at OTA to ensure successful deployment
- ODOT utilizes a double-entry system for finance and OTA has multiple in-house systems for budget and financials. OAC uses single system for all financials

Opportunities

Integrate - Combine multiple divisions into one effective entity and align staff, policies, processes, systems.

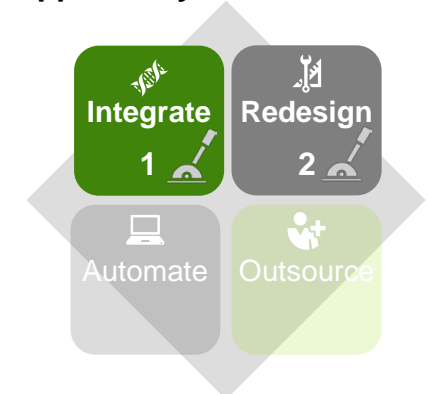
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Outsource - Outsource services to vendor to address subject matter expertise or resource gaps

- Centralize targeted aspects of the duplicative functions like payroll, reporting, budget, & asset tracking, across all three organizations. ODOT can potentially manage payroll function for OTA and OAC as well
- Formalize a customer-oriented mindset for budget, working with each division to understand goals & needs
- Solidify strategy to maintain or sunset legacy ODOT mainframe. Knowledge of maintenance is dwindling due to retirements.
- Create/modify PMPs and metrics across Agencies to create measurable metrics that can be evaluated at a functional level
- Due to movement to workday for HR, investigate possibility to use workday financial modules to standardize financial functions across Agencies
- Can leverage automation and process mapping to connect front end budget with back-end accounts payable within ODOT and OTA

Opportunity Lever Priorities



Human Resources

Observations

Platform could be leveraged "as is";
Some strong practices

Platform functional; Upgrades driven
by overall Modernization prioritization

Platform in need of significant
upgrade and/or support

People & Organization



- ODOT/OTA have great workplace culture yet needs formal career planning & development due to limited vertical career ladders
- A high percentage of staff is retirement eligible, posing a risk for loss of tribal knowledge

Process & Performance



- There are few areas where there's an emphasis to document and capture process-related knowledge
- All three Agencies lack consistently tracked KPIs or measurable goals and rely on heroics to complete critical HR tasks

Infrastructure



- Transition to Workday from Peoplesoft for HR should be able to consolidate certain modules and separate applications used for HR operations across Agencies
- ODOT/OTA currently have many different HR systems for similar tasks. (e.g., ODOT double-entry system for HR, and OTA legacy leave system)

Opportunities

Integrate - Combine multiple divisions into one effective entity and align staff, policies, processes, systems.

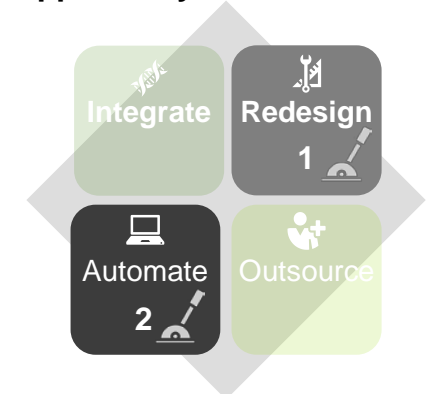
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Outsource - Outsource services to vendor to address subject matter expertise or resource gaps

- Create an HR strategy for talent management throughout OK transportation Agencies. Create formal career pathing / succession planning to increase retention and mitigate tribal knowledge loss
- Use Workday to consolidate applications & software used. Consider replacing OTA leave system/ODOT Mainframe
- Opportunity to consolidate training between Agencies. Improve value proposition for training to keep employees engaged through specific & diverse methods. Leverage strong ODOT training program development
- Standardize the location of payroll between Agencies. (e.g., either within HR or Finance)

Opportunity Lever Priorities



Information Technology

Observations

Platform could be leveraged "as is";
Some strong practices

Platform functional; Upgrades driven
by overall Modernization prioritization

Platform in need of significant
upgrade and/or support

People & Organization



- **OTA IT has a skilled team and solid platform** that is able to identify and address IT challenges at OTA and potentially ODOT & OAC as well
- **Interviews revealed** that expectations & service delivery of IT needs by OMES through SB. 227 **is regularly not meeting ODOT & OAC needs**

Process & Performance



- **ODOT/OTA are just beginning to build out dashboards to track KPIs & SLAs**; operational metrics are still being defined.
- **There are no SLAs** between Agencies/ OMES **that are regularly reviewed to measure service quality**
- OTA needs additional enterprise-level strategy surrounding project prioritization

Infrastructure



- **OTA has many custom-built applications** for internal OTA uses, and **has potential capability to assist ODOT/OAC with technology needs**
- ODOT/OTA use same consultant (BIS) for content mgmt., ODOT's Grooper initiative has not been successful; OTA's has been effective
- All Agencies can be reactive at times, **OTA moving to model with agile framework**

Opportunities

Integrate - Combine multiple divisions into one effective entity and align staff, policies, processes, systems.

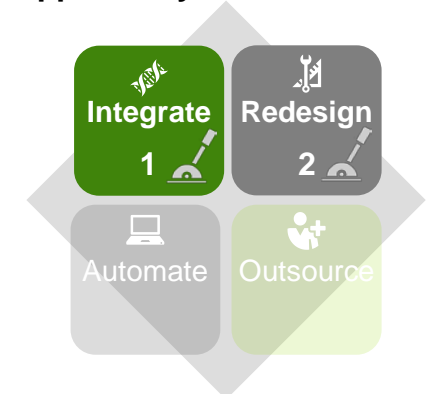
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Outsource - Outsource services to vendor to address subject matter expertise or resource gaps

- Define an overall IT strategy with governance structure (umbrella) for all three Agencies. Utilize OTA IT capabilities to automate ODOT/OAC manual processes. Consider more OMES/OTA IT partnerships to provide services for ODOT/OAC.
- Develop customer/supplier relationship both internal and external through SLA co-creation (include KPI development, escalation of issues, and process improvement)
- Create an interagency IT catalogue to better understand all IT contracts, application, software, hardware, etc. This will help document what needs to be maintained and sunset. Identify silos and standardize IT platforms leveraging Process mapping.
- Content management - need to create document retention policies outlining what should/shouldn't be documented, and timing.
- Cloud solutions for data storage and cloud migration for some applications. Proper security measures needed to protect data.

Opportunity Lever Priorities



Procurement

Observations

Platform could be leveraged "as is";
Some strong practices

Platform functional; Upgrades driven
by overall Modernization prioritization

Platform in need of significant
upgrade and/or support

People & Organization



- ODOT is **well staffed** and has dedicated teams for contracts & acquisitions and POs; **OTA and OAC have very few people** and **contract/acquisition is not centralized** in the "procurement" role

Process & Performance



- **Agencies share contracts through informal means**, but there is no centralized repository to store and view all contracts available for use & comparison
- **ODOT/OTA have manual but structured processes**

Infrastructure



- ODOT engineering-side sourcing is effective, but the **goods & services team needs new/better infrastructure**
- Agencies use different technology / applications for document signatures

Opportunities

Integrate - Combine multiple divisions into one effective entity and align staff, policies, processes, systems.

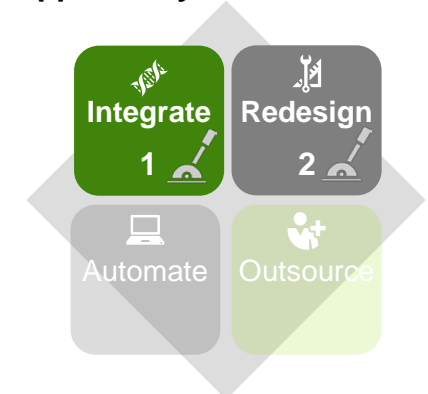
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- Centralize all contracts to a repository that can be accessed across Agencies. This will allow for easier contract comparisons. This is to help standardization and ability for price comparison
- Use procurement workflow tool (e.g., ePro) for all procurement (both central office & in the field) to streamline and automate procurement activities
- Standardize to one doc signing/viewing software (Adobe Formfill, SignNow, Docusign, etc.)
- Utilize OMES to improve procurement infrastructure (ODOT) specifically on the goods/services side. Since ODOT uses OMES for their IT infrastructure, OMES would be able to support

Opportunity Lever Priorities



Media, Comm, & PR

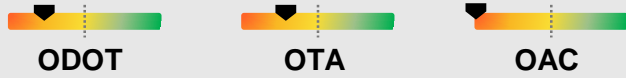
Observations

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Some strong practices

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Platform in need of significant
upgrade and/or support

People & Organization



- **Informal resource-sharing between Agencies already exists** (e.g., ODOT/OAC use OTA for marketing) to fill functional gaps
- **OTA and OAC have limited FTE** to manage all media, PR, Comms responsibilities
- **ODOT's Divisions** that manage customer relationships **are disconnected**
- All Agencies struggle with talent retention

Process & Performance



- **Variability** (at each Agency) of **customer relationships, segmentation of those customers**, and the current & future tools necessary to communicate with the different segments
- **At the Cabinet level there is a lack of strategy & approach as it relates to marketing/comm**

Infrastructure



- **All Agencies use different technology & tools**, but there is no standard tool between the three Agencies that can be used. There's an opportunity to rationalize those tools

Opportunities

Integrate - Combine multiple divisions into one effective entity and align staff, policies, processes, systems.

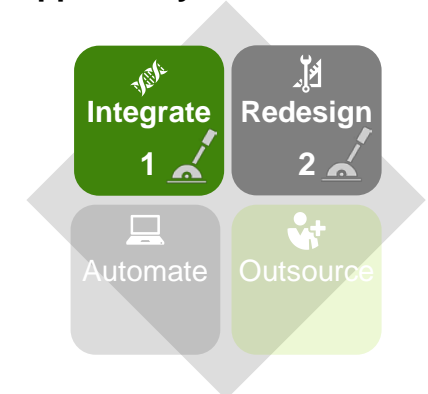
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Outsource - Outsource services to vendor to address subject matter expertise or resource gaps

- Recommend bringing Communications, Media, & PR out from all three Agencies and combine into one large Marketing/Communication arm that reports to the Transportation Secretary
- Review/do a deep dive into content creation in Office Service Division to determine what work they're doing for who
- Create a governance structure for content creation through Marketing/Communications, as well as prioritization of work for Office Services Division
- Standardize & rationalize contracts for social media/public engagement metrics (e.g., Hootsuite, MeltWater, etc.)

Opportunity Lever Priorities



Audit

Observations

Platform could be leveraged "as is";
Some strong practices

Platform functional; Upgrades driven
by overall Modernization prioritization

Platform in need of significant
upgrade and/or support

People & Organization



- All agencies face significant retirements risk and upcoming vacancies
- OTA Audit does not have formal succession planning and is a smaller division in comparison to ODOT.
- OAC does not have an internal audit function and could benefit from the other Agencies internal audit's capabilities

Process & Performance



- ODOT has a unique "External audit" function that serves more of quality assurance
- ODOT/OTA would benefit from protocol to follow up on audit findings, as well as process documentation to retain institutional knowledge

Infrastructure



- ODOT is currently beginning to use the same auditing software (Engagement) as the state OTA uses mostly Excel and both Agencies use the software in the Division they're auditing

Opportunities

Integrate - Combine multiple divisions into one effective entity and align staff, policies, processes, systems.

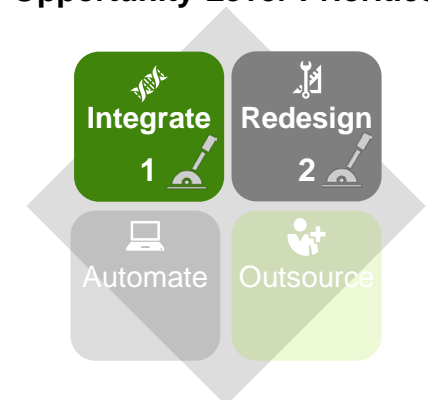
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Outsource - Outsource services to vendor to address subject matter expertise or resource gaps

- Define an audit group that aligns to the modernization strategies (e.g., centralizations; if HR is combined for all three groups, they can audit all three Agencies together)
- Prioritize highest risk areas to operations/business functions across enterprise and audit accordingly. (e.g., ODOT/OTA should formalize process to determine which areas to audit)
- ODOT/OTA should invest in career and succession planning so that tribal knowledge is documented and retained in new staff
- ODOT/OTA can consider sharing audit software licenses and report generating applications within their two Agencies, and potentially OAC as well

Opportunity Lever Priorities



Facilities & Land Management

Observations

Platform could be leveraged “as is”;
Some strong practices

Platform functional; Upgrades driven
by overall Modernization prioritization

Platform in need of significant
upgrade and/or support

People & Organization



- ODOT and OTA's Facilities construction, maintenance, and ROW resources span multiple Divisions/Districts and are not unified
- OTA's ROW sub-function is under-resourced

Process & Performance



- Neither agency has standardized approaches or KPIs related to facilities maintenance
- ODOT and OTA do not have a unified Facilities and Land Management strategy yielding a facility footprint that outweighs the need
- ODOT has comprehensive ROW acquisition policies, procedures, and performance metrics;

Infrastructure



- ODOT has “industry standard” facilities construction project management and maintenance software applications. OTA currently utilizes Microsoft Suite
- ODOT has a facility rebuild plan that spans to 2048 and will result in some structures surpassing 100 years in age

Opportunities

Integrate - Combine multiple divisions into one effective entity and align staff, policies, processes, systems.

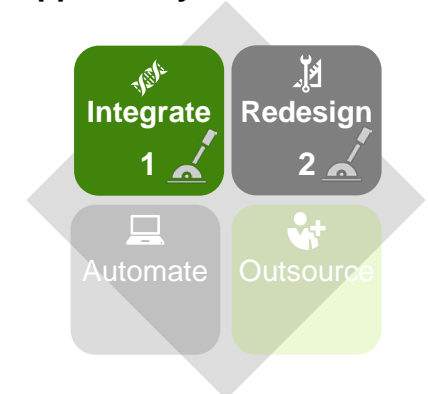
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Automate - Eliminate manual labor, improve quality/reliability, and enable scalability by automating repeatable processes

Outsource - Outsource services to vendor to address subject matter expertise or resource gaps

- Unify ROW acquisition/disposal across ODOT, and combine platform across ODOT/OTA
- Unify ongoing facilities construction/maintenance planning and execution across Agencies to ensure that facility footprint meets field staff needs while optimizing resources/ expenditures
- Establish standardized approaches, SLAs, and KPIs for Facilities Maintenance across Agencies; Establish dotted line reporting structures between Field and Central Office Personnel
- Leverage ODOT's IT platform to support facilities maintenance construction

Opportunity Lever Priorities



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Appendix: Focus
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Immediate Initiatives Summary

Three initiatives were identified from the current state observations to address critical gaps for which the organization should consider taking immediate action to mitigate any near-term risks

1

Integrate OMPT within Rail Division

Current State: The Office of Mobility and Public Transit (OMPT) is currently without Division Leadership

Recommendation: Move the Office of Mobility and Public Transit (OMPT) under the Director of Capital Programs, and potentially integrate with the Rail Division

Benefit: Integrates similar functions and allows for resource pooling, and lays the groundwork to establish a robust multi-modal transportation plan

2

Integrate Media/PR/Communications

Current State: Communication with the public / external stakeholders is of strategic importance, however, critical strategic and functional gaps exist

Recommendation: Create a “Strategic Communications” division that unifies relevant staff from ODOT and OTA

Benefit: Lays groundwork to establish a robust/unified enterprise marketing, Media/PR, and communications strategy; Integrates similar functions, and allows for resource pooling to enable better performance

3

Strengthen Tolling Back Office Support (BOS)

Current State: OTA’s current BOS structure does not align to leading practices and places the AET rollout on the Kilpatrick at risk

Recommendation: Re-structure OTA Customer Service, Tolling Operations, and Finance divisions to strengthen the back-office operations ahead of the AET pilot

Benefit: Allows for the financial, IT, and data systems sophistication and process standardization required for more efficient and scalable electronic transaction processing

Immediate Initiative 1: Integrate OMPT with Rail Division

Current State

1

Office of Mobility and Public Transit (OMPT) is, due to retirement, currently **without permanent Division leadership**

2

OMPT primarily serves two key functions:

- Mobility and Public Transit strategic planning, grants administration, claims processing, technical assistance and audits
 - 6 Funds (5311, 5339a, 5339b, 5303, 5304, and revolving state); \$28M+ in grants; ~72+ sub-recipients
- Administer the State's Safety and Security Oversight program (OKC Streetcar; 4.8 miles; 7 Street Cars, and 22 Stations)

3

Currently the Divisions under the Director of **Capital Programs** are primarily **responsible for managing programs and projects** across ODOT

Relevant Guiding Principles



Collaboration



Customer Service



Innovation



Efficiency



Communication



Adaptability

Ideal Modernization Characteristic

Appropriate Functions Centralized

Efficient Staffing



Recommendation

Move the Office of Mobility and Public Transit (OMPT) under the Director of Capital Programs, and potentially integrate with the Rail Division



Benefits

- Integrates similar functions and allows for resource pooling
- Lays the groundwork to establish a robust multi-modal transportation plan



Next Steps

Lay administrative groundwork

Coordinate with HR, Finance, and Law department to execute on administrative activities to allow for staff movement

Communicate organizational shift to OMPT staff

Meet with OMPT staff to announce the change ahead of broader communication of current state findings

Map out and execute integration plan

Identify new organization and reporting structure, performance framework, and transition plan; and begin implementation

Immediate Initiative 2: Integrate Media/PR/Comms (MPR)

Current State

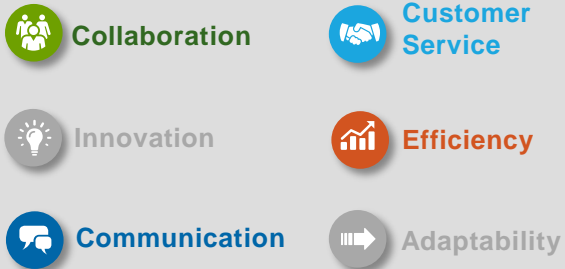
- 1
- **Communication** with the public / external stakeholders is of **strategic importance**
 - **Lack of cohesive strategy** and **variability in philosophy/approach** related to customer relationships and segmentation, brand awareness, communications vehicles and tools

- 2
- At the agency level, **critical functional gaps**/organizational misalignments currently exist, and inter-agency **collaboration is informal and tactical**:
- **ODOT**: Marketing is a gap; Content development housed in OSD; MPR Division, Inter-agency liaison, Tribal Liaison, and Waterways disconnected
 - **OTA**: Only has 2 FTE to manage MPR and marketing; content development contracted to a PR Firm; Call center helps manage customer inquiries
 - **OAC**: Only has 1 FTE to manage MPR and marketing and relies heavily ODOT and OTA to support all functions

3

Marketing/Comms **Performance metrics are largely absent** and **IT infrastructure is in its infancy**

Relevant Guiding Principles



Ideal Modernization Characteristic

Appropriate Functions Centralized

Efficient Staffing



Recommendation

Creation of a "Strategic Communications" Division responsible for Marketing, Comms & PR, and government relations, that integrates:

- ODOT: MPR, Interagency Liaison, Admin of Legislative Affairs, Tribal Liaison, and Waterways; Governance of OSD (Content Development)
- OTA: Communications



Benefits

- Integrates similar functions and allows for resource pooling to enable better performance
- Lays the groundwork to establish a robust and unified enterprise marketing, MPR, and communications strategy



Next Steps

Lay administrative groundwork

- Appoint new Division Lead
- Coordinate with HR, Finance, IT, and Law department to execute on administrative activities

Communicate organizational shift to impacted staff

Meet with impacted staff at all 3 Agencies to announce the change ahead of broader communication of current state findings

Map out and execute integration plan

New Division lead to identify new organization/reporting structure, performance framework, transition plan; and begin implementation

Immediate Initiative 3: Restructure Tolling “Back Office”

Peer Examples

1




- A review of tolling operations at three DOTs (VDOT, FDOT, and KYTC) reveals a clear division of duties between Customer Service, Back Office Support (BOS), and Finance:
- **Customer Service:** Front-end services such as Call center, Store front, Transponders, account management
 - **BOS:** Payment processing; reporting/reconciliation; dispute resolution; and back-end account, interoperability, and transponder management
 - **Finance:** Traditional enterprise financial functions such as budget, enterprise reporting/reconciliation, revenue analysis/recognition etc.

Current State

2

- **The 1st All Electronic Tolling (AET) rollout**, a key strategic priority that **is dependent on robust BOS**, is scheduled to launch in June 2021
- OTA has **not established a singular division** that can manage the full complement of BOS functions but rather splits them between three divisions Customer Service, Tolling, and Controller
- As a result, **unified and scalable end to end BOS operations nor a single point of accountability exists**, and **OTA leadership/staff time is drawn away from their core competencies**: front end customer service, OTA level finance, and manual tolling operations

Relevant Guiding Principles

- Collaboration  Customer Service
- Innovation  Efficiency
- Communication  Adaptability

Ideal Modernization Characteristic

Clear strategy to operations alignment



Recommendation

Re-structure OTA Customer Service, Tolling Operations, and Controller divisions to strengthen the back-office operations; and allow Customer Service and Controller divisions autonomy to re-calibrate (e.g. Launch new initiatives, re-tool and manage training programs, etc..) for success ahead of the AET rollout on the Kilpatrick Turnpike



Benefits

- Enables greater investment in front-end customer service to enhance OTA customer experience
- Allows for the financial, IT, and data systems sophistication and process standardization required for more efficient and scalable electronic transaction processing
- Brings OTA in line with leading practices



Next Steps

Craft new Org. structure

Create a new, leading practice informed, organizational structure that allows OTA to be well positioned for AET rollout, and identify any new Division leads

Communicate organizational shift to impacted staff

Meet with impacted staff to announce the change ahead of broader communication of current state findings

Map out and execute integration plan

New Division leads to create transition plan, performance metrics, training plan, and begin implementation

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Area Profiles

Focus Area Summary User Guide - Overview

To allow for a standardized approach to consider all three Agencies (ODOT, OTA, and OAC), each Focus Area is broken into Sub-Functions with associated descriptions/key responsibilities. In addition, the Division(s) responsible for those Sub-Functions are identified where possible, otherwise a Sub-Function gap is identified

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Construction: Focus Area Overview

1

Sub-Functions and Agency Breakdown				
Sub-Functions	Key Responsibilities	ODOT Divisions	OTA Divisions	OAC Divisions
Project Setup and Application/Data Management	<ul style="list-style-type: none"> Project Setup in applicable systems (e.g. Site Manager, Construction, Excel, etc) Project Data Migration or Population Application Support (where applicable) 	Construction (Construction Programs)	Construction (Administration)	Airport Division (Grants Administration)
Construction Inspection	<ul style="list-style-type: none"> Conduct daily inspections of Work Sites Selecting and scheduling Construction Management consultants Contractor Dispute resolution Change Order initiation Liaison to various external stakeholders 	District Offices (Construction Residency Staff)	Construction (Field Office)	Airport Division (Airport Engineer)
Materials Quality Testing	<ul style="list-style-type: none"> Verifying the quality of materials for use in highway construction Technician evaluation and certification verification Mediator to settle Construction vs Contractor disputes Calibrating Res Lab equipment 	Materials	Construction (Consultants)	Airport Division (Airport Engineer)
Vendor Payments and Contract Administration	<ul style="list-style-type: none"> Issue (monthly/bi-monthly) and final estimate payments Maintain contracts and process any changes and update applicable applications 	Construction (Contracts and Estimates)	Construction (Administration)	Airport Division (Grants Administration)

Sub-Functions Gaps				
ODOT		OTA	Materials Testing	OAC

2

1

Sub-Function Breakdown and Key Responsibilities

- Sub-Functions Breakdown**
 - Breaks down the Focus Area by the associated Sub-Functions
- Key Responsibilities**
 - Listing of the key responsibilities within each Sub-Function that potentially span across all the Agencies
- Division and Branches**
 - Aligns the appropriate Division (and where necessary, Branch), for each Agency, with the applicable Sub-Function

2

Sub-Function Gaps

- Sub-Function Gaps**
 - Potential areas where functionality may be lacking for a specific Agency when compared to others within the same Sub-Function

Focus Area Summary User Guide – Agency Profile (1 of 2)

For each Agency, the first page of the Focus Area Summary provides a targeted view of the dedicated FTE, Personnel costs, and consultant costs; a depiction of the volume of work handled; and existing measures of performance

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Construction Monitoring: ODOT Profile (1 of 2)

Dedicated Personnel and Budget				
Sub-Function	Divisions	FTE / % Class*	Personnel Cost*	Consultant Cost**
Project Setup and Application Data Management	Construction Division	2 / 100%	Hidden	\$ -
Construction Inspection	District Offices	395.14 / 98%	\$ 36,752,382	\$ 16,688,249
Materials Quality Testing	Materials Division	61 / 97%	\$ 6,156,631	\$ 2,934,132
Vendor Payments and Contract Administration	Construction Division	36.33 / 100%	\$ 3,768,853	\$ -
Administrative	All	42.27 / 91%	\$ 5,477,853	N/A
Vacancies	All	0	N/A	N/A
Total		536.74	\$ 62,349,219	\$ 19,622,381

Volume of Work	
Measure	Value
Projects Transitioned to Construction FY19	254 / \$896 M
Number of Vendor Payments FY19	4,670 / \$901 M
Number of Change Orders FY19	1,090 / \$16 M
Number and Value of Final Estimate Paid – FY19	331 / \$3 M
Active Technicians IA Evaluated – FY19	267
Number of Labs Certified – FY19	30 of 33
Asphalt Plants Certified – FY19	66 of 71

Performance		
KPI	Definition	Performance Measurement
Projects On-Time/Under-Budget	Percent of projects delivered on time and under budget – FY19	54% on-time / 62% under-budget
Techs Complete/Labs Certified	Percent of technician evaluation and lab certifications completed – FY19	100%
Vendor Payments	Percent of vendor payments made within 15 days – FY19	97%
Inspection Spend Comparison	Consultant inspection spend vs in-house spend – FY19	6.68% / 12.72%
6 Month List	Number of projects that have not been closed out in 6 months or more	189

1 Budget Breakdown

- **FTE Breakdown**
 - Summary of all full-time employees that have contribute to that Sub-Function
 - Sources: Agency Personnel file July 2020 and Agency provided Organizational Charts
- **Personnel Budget**
 - Total salaries (as of June 2020) for resources that fall within the specific Sub-Function
 - Sources: Agency Personnel file as of July 2020
- **Consultant Budget**
 - FY19 consultant costs associated with the corresponding that Sub-Function
 - Sources: Targeted data/document requests from Executive Leaders and/or Division Directors

2 Volume

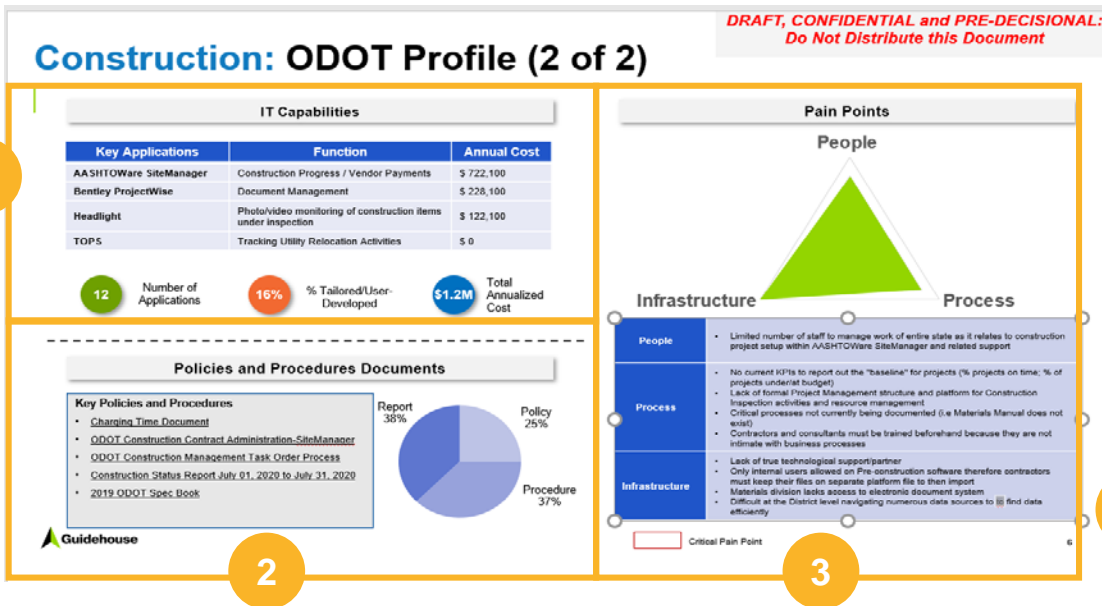
- **Volume of Work**
 - Summary view of work volume, potentially spanning different Divisions, that pertain to the respective Focus Area for FY19
 - Sources: Sources: Targeted data/document requests from Executive Leaders and/or Division Directors

3 Performance

- **Key Performance Indicators (KPIs)**
 - Summary of various FY19 KPIs, potentially spanning different Divisions, that represent the performance of Agency in this particular Focus Area
 - Sources: Interviews and targeted data/document requests from Executive Leaders and/or Division Directors

Focus Area Summary User Guide – Agency Profile (2 of 2)

For each Agency, the second page of the Focus Area Summary highlights critical software applications, policies and procedures, and pain points



1 Information Technology Capabilities

- **Key IT Applications**
 - List of the top IT applications sorted by FY19 spend, potentially spanning different divisions, across the entire Focus Area. Note: Annual cost represents the Annual Cost for the software application, not just the portion specific to the Focus Area
 - Sources: Interviews and Agency provided software costs file
- **Total Number of IT Applications and Total Annualized Cost**
 - Sum of the total number of applications and associated FY19 Annualized Cost, potentially spanning different divisions, across the entirety of the Focus Area
 - Sources: Interviews and Agency provided software costs file
- **Percent Tailored/User Developed**
 - A percent calculation of the IT applications that are not Off-the-Shelf and have been tailored or developed from scratch to fit within the organization
 - Sources: Interviews and Agency provided software costs file

2 Policies and Procedure Documents

- **Key Policy and Procedure Documents**
 - Snapshot of critical policy and procedure documents for the Focus Area and categorization of all received files (Policy, Procedure, or Dashboard/Report)
 - Sources: Agency provided documents and data per Guidehouse Data/Document requests

3 Pain Points

- **Pain Points**
 - Summary of the various pain points, potentially spanning different Divisions, sorted by: People, Process, or Infrastructure
 - Sources: Interviews

Focus Area Summary User Guide – Inter-Agency Comparison (1 of 2)

The first page of the Inter-Agency Comparison provides a quantitative view of each Agency in the identified Focus Area. It offers comparisons of the Agencies' personnel, budgets, IT applications, and volume / performance metrics

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Construction Monitoring: Inter-Agency Comparison (1 of 3)

Dedicated Personnel and Budget

	FTE	Classified	Personnel Costs*	Consultant – Cost**
ODOT	536.7	98%	\$52 M	\$19 M
OTA	3.4	49%	\$451	\$53 M
OAC	3.3	100%	\$161 K	\$ -
Total	543.4	82%	\$53 M	\$73 M

Volume and Performance

Agency	Volume	Performance
ODOT	<ul style="list-style-type: none"> FY19 # / Value of Projects Transitioned to Construction - 254 / \$396 M FY19 # / Value of Vendor Payments - 4,670 / \$901 M FY19 # / Value Orders - 1,090 / \$15.8 M FY19 # / Value of Final Estimate Paid - 331 / \$2.93 M 	<ul style="list-style-type: none"> FY19 % of Projects On-Time/Under-Budget - 54% on-time / 62% under-budget FY19 % of Techs Complete/Labs Certified - 100% FY19 % of Vendor Payments - 98% within 15 days FY19 % of Inspection Spend Comparison - 6.68% / 12.72% consultant vs in-house 6 Month List - 189
OTA	<ul style="list-style-type: none"> FY19 # / Value Projects Transitioned to Construction - 57 / \$134 M FY19 # / Value of Vendor Payments - 376 / \$333 M FY19 # / Value of Change Orders - 126 / \$11.3 M FY19 # / Value of Final Estimate Paid - 20 / \$129 M 	<ul style="list-style-type: none"> FY19 Pavement Distress Survey - Avg of 82 (Excellent) FY19 Bridge Conditions Ratings - 3411 bridges structurally deficient FY19 % of Vendor Payments - 87% paid within 30 days
OAC	<ul style="list-style-type: none"> FY19 Projects Programmed - 7 / \$2.3M FY19 Projects Closed Out - 11 / \$809 K FY19 # / Value of Vendor Payments - 531 / \$5.2 M Construction Projects Transitioned - 21 / \$31 M total / OAC portion \$5.1 M FY19 # / Value of Reimbursements - 131 / \$5.2 M FY19 # of Change Orders - 6 	N/A

Key Common IT Applications

Function	ODOT	OTA	OAC	IT Spend
Workflow Management	AASHTOWare TOPS - Utilities	Microsoft Suite	Microsoft Suite	\$1.2M ODOT
Payment Processing	AASHTOWare	EPPS	Microsoft Suite	\$10K OTA
Document Management	ProjectWise	EPPS	DropBox, AutoCAD	\$2.8K OAC
Analytics	Oracle BI	Microsoft Suite	Microsoft Suite	

Guidehouse OKLAHOMA Classification, and Personnel Costs – Sourced from Agency provided Personnel files as of July 2020 ** Consultant – Consultant costs

1 Dedicated Personnel and Associated Costs

- **FTE and Budget**
 - Breakdown of total FTE, Classification Percentage, Personnel, and Consultant costs by Agency in order to allow comparison across all 3 Agencies (where applicable)
 - Sources: Agency Personnel file July 2020, Agency provided Organizational Charts, Agency provided FY19 consultant costs

2 Key Common IT Applications

- **Key Functions and Associated Applications**
 - Breakdown of key IT applications by Function, Focus Area and Agency to better identify and analyze opportunities and gaps
 - Sources: Interviews and Agency provided software costs file

3 Volume and Performance

- **Volume**
 - Summary view of work volume by Agency in order to provide context for the each Agency's dedicated personnel and associated costs
 - Sources: Interviews and targeted data/document requests from Executive Leaders and/or Division Directors
- **KPIs**
 - Summary of various FY19 KPIs that represent the performance of each Agency in this particular Focus Area to identify and analyze gaps and opportunities
 - Sources: Interviews and targeted data/document requests from Executive Leaders and/or Division Directors

Focus Area Summary User Guide – Inter-Agency Comparison (2 of 2)

The second page (and beyond) of the Inter-Agency Comparison provides a qualitative comparison of all 3 Agencies (Where appropriate) from a People & Organization, Process & Performance, and Infrastructure standpoint. It lays the groundwork for formulating modernization recommendations

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Construction Monitoring: Inter-Agency Comparison (3 of 3)

Sub-Function	Agency Maturity Assessment			Observations
	People & Organization	Process & Performance	Infrastructure	
Project Setup and Application/Data Management	ODOT: OTA: OAC: 	ODOT: OTA: OAC: 	ODOT: OTA: OAC: 	<ul style="list-style-type: none"> People - There is a general lack of resources within this Sub-Function across all the Agencies. ODOT has a dedicated branch of only 3 FTE to manage project setup and data migration for the entire state. OTA and OAC have 1 resource each who are spread between several other Sub-Functions. Additionally, OTA relies on consultants to manage components of project setup. Process - ODOT has significantly more projects to setup versus OTA and OAC. Nevertheless, None of the Agencies have a Policy or Procedures manual to guide Project Setup Infrastructure - ODOT has "industry-standard" application ASW Site Manager to manage workflow for Construction Inspection, Materials Testing and Vendor Payments. However, OTA and OAC rely on user developed spreadsheets or consultants
Construction Inspection	ODOT: OTA: OAC: 	ODOT: OTA: OAC: 	ODOT: OTA: OAC: 	<ul style="list-style-type: none"> People - All three Agencies have clear organizational structures to execute on construction inspection. ODOT and OAC handle most responsibilities in house, while OTA largely contracts out this function. OTA has spent approximately 3,741% (\$45M) more than ODOT in outsourced work Process - The 2019 Specs book (specific to ODOT/OTA) and construction control directives provide a comprehensive policy and partial procedural framework, however, none of the Agencies have formal internally focused inspection procedures guidebook or project management framework for construction inspection activities (E.g., Resident Engineer manual, Project Management toolset, etc) Process - All three Agencies track several performance measures, however none of them have specific KPIs or regular reporting dashboards. Nonetheless ODOT's and OTA's project completion progress is quite high. The majority of ODOT's projects are also under-budget. Infrastructure - ODOT has an "industry standard" application ASW SiteManager to support workflow management. Both OTA and OAC utilize user-developed tools to manage workflow, and both rely on consultants to provide Project/Program management

Key

Platform could be leveraged "as is", Some best practices

Platform functional; Upgrades driven by overall Modernization strategic prioritization

Platform in need of significant upgrade and/or support

1 Sub-Functions

- **Sub-Function**
 - A breakdown of the Focus Areas into their respective Sub-Functions with the associated key responsibilities

2 Maturity Model

- **Agency Maturity Assessment**
 - Provides a qualitative assessment of each Agency's platform in that Sub-Function across three dimensions: People & Organization, Process & Performance, and Infrastructure. This assessment lays surface areas of strengths and potential gaps and lays the groundwork to identify modernization opportunities

3 Observations

- **Observations**
 - Articulates observations that support the Agency Maturity Assessment in the 3 identified dimensions: People & Organization, Process & Performance, and Infrastructure

Portfolio Planning: Focus Area Overview

Sub-Functions and Agency Breakdown

Sub-Functions	Key Responsibilities	ODOT Divisions	OTA Divisions	OAC Divisions
System Condition Data Collection and Management	<ul style="list-style-type: none"> Collection of critical transportation data Maintenance of systems and data warehouses Data and quality management 	SAPM (GIS, Inventory, Pvmt, Traffic) Bridge (Maintenance, Geo Info Sys) Maintenance (ITS - Fiber and Ops) Rail (OK Rail Program)	Engineering Maintenance IT (Fiber & Telecommunications)	Airports Division (Aviation Program Managers)
Data analytics, modeling, and reporting	<ul style="list-style-type: none"> Model and forecast system conditions Portfolio Planning decision-enabling reporting Federal and State Performance reporting Federally required research project investment and execution 	SAPM (Pavement, Planning, Traffic) Bridge (Maintenance, Geo Info Sys) Maintenance Office of Research and Implementation Traffic Engineering Rail (130 Program/HSIP Fund)	Maintenance Finance	Airports Division
Portfolio Planning	<ul style="list-style-type: none"> Capital programs planning – State and Local levels Multi-modal transportation planning 	SAPM (Planning) Project Management Local Government District Office OMPT	Engineering Maintenance Finance	Airport Division
Program/Project Management	<ul style="list-style-type: none"> Project/Program Management of Capital projects and multi-modal projects Grants Management 	Project Management Local Government Rail OMPT ROW/Utilities (Project Management) Environmental (Project Development)	Engineering	Airports Division

Sub-Functions Footnotes

ODOT		OTA	<ul style="list-style-type: none"> Multi-modal Transportation Planning Grants Management 	OAC	<ul style="list-style-type: none"> Multi-modal Transportation Planning
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Portfolio Planning: ODOT Profile (1 of 2)

Dedicated Personnel and Budget

Sub-Function	Divisions	FTE / % Class*	Personnel Cost*	Consultant Cost**
System Condition Data Collection and Management	SAPM Bridge Maintenance Rail	46.53 / 100%	\$5,133,361	Not Available
Data analytics, modeling, and reporting	SAPM Bridge Maintenance Office of Research Rail	32.34 / 98%	\$3,947,038	\$2,672,697
Portfolio Planning	SAPM – Planning Project Management Local Government District Office OMPT	29.47 / 79%	\$4,062,667	\$2,528,477
Program/Project Management	Project Management Local Government Rail OMPT ROW/Utilities Environmental Maintenance	47.33 / 79%	\$6,293,924	Not Available
Administrative	All	7.34 / 100%	\$966,391	N/A
Vacancies	All	0	N/A	N/A
Total		163	\$ 20,403,381	\$ 5,201,173

Volume of Work

Measure	Value
8-year Work Plan Projects Let in FY19	251 / \$ 788 M
CIRB Projects Let in FY19	69 / \$112.5 M
Number of Bridges Inspected – FY19	11,971
Number of Miles of Pavement Inspected – FY19	14,345 miles
Number of Manual Traffic Count Measurements – FY19	10,866
Transit Program Grant Volume (5311, 5339a/b, Revolving) – FY19	72 recipients / \$28 M

Performance

KPI	Definition	Measure
CWP Design Plans Completed On-Time	Percent of Engineering Plans completed per the Project Baseline Schedule between 2017-2020	33%
Percent of Original CWP Delivered	Percentage of the 251 projects in FY2019 which were delivered	64%
Percentage of Projected Budget Utilized	Percent of the utilization rate of the projects budgeted funds	109%
30-60-90 Milestones	30-60-90 Milestones Reached On-Time	41%/38%/35%
Average Design Time	Avg number of design days from Initial Preliminary Meeting to Final Plans	2080 Days

Portfolio Planning: ODOT Profile (2 of 2)

IT Capabilities

Key Applications	Function	Annual Cost*
Decision Lens	Data Management and Analytics – Project Prioritization	\$805 K
Bentley Open Roads	Core Function - Civil Design software	\$750 K
ESRI Stack	Data Management and Analytics – Geospatial	\$385 K
What-ifs Database	Data Management and Analytics – Project Prioritization	\$ -

30

Number of Applications

36%

% Tailored/User-Developed

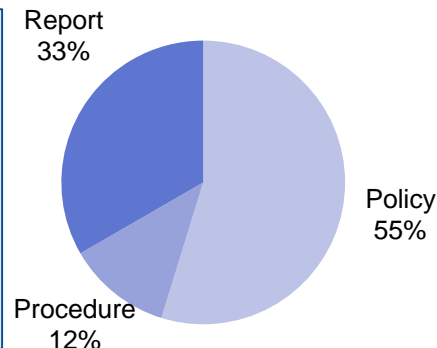
\$4M

Total Annualized Cost

Policies and Procedures Documents

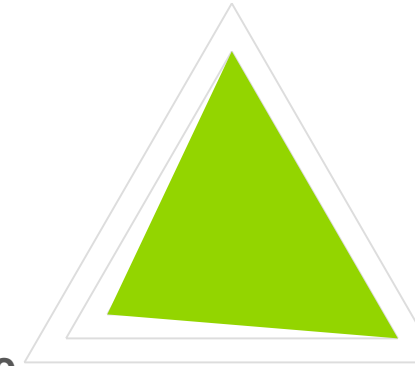
Key Policies and Procedures

- [ODOT PMD Project Management Development Process](#)
- [CIRB Project Management Process Flow](#)
- [8-year Construction Work Plan](#)
- [5 Year CIRB](#)
- [TPD Internal Policies & Procedures 2020](#)
- [Division Notebooks](#)



Pain Points

People



Infrastructure

Process

People

- The role of the Project Management Division is not clearly understood, nor does it have the authority to drive project management related decisions
- Insufficient staff to handle the current Project Management workload
- Professional development occurs through on the job training and informal mentorship rather than a formalized training program

Process

- Plan Reviews are not being checked at all currently even though a great number are being utilized; The quality and content is lacking
- Lack of visibility into design timeframes once a project is handed over to a functional division
- Lack of SLAs in place and poor communication has resulted in extreme resistance within the District Level Residence Engineers as it relates to Utility Relocation
- Local Government plan design review is focused on “readiness for project letting” rather than engineering accuracy potentially leading to greater change orders

Infrastructure

- Lack of a robust project management software tool to oversee CIRB and 8 Year Work Plan projects
- Data systems that span Project Planning to Design through end of Construction are very siloed and the data cannot be visualized, presented, or relayed
- Each Division uses own independent database and considerable time is wasted transferring information between these disparate independent systems

Portfolio Planning: OTA Profile (1 of 2)

Dedicated Personnel and Budget

Sub-Function	Divisions	FTE / % Class*	Personnel Cost*	Consultant Cost**
System Condition Data Collection and Management	Engineering Maintenance IT	Indeterminate		\$375,000
Data analytics, modeling, and reporting	Maintenance Finance	Indeterminate		
Portfolio Planning	Engineering Maintenance Finance	1 / 50%	Hidden	\$132,380
Program/Project Management	Engineering	1.32 / 50%	Hidden	\$223,000
Administrative	All	1.83 / 73%	Hidden	N/A
Vacancies	All	0	N/A	N/A
Total		4.15	Hidden	\$ 730,380

Volume of Work

Measure	Value
Number of Miles of Pavement Inspected – FY19	850 miles
Number of Bridges Inspected (NBIS rating) – FY19	411
Number of Bridges Inspected (Walk Around) – FY19	388
Number of Projects Entering Design – FY19	8 / \$12 M
Number of Projects with Finalized Design and ready for Project Letting - FY19	15 / \$177 M

Performance

KPI	Definition	Measure
Percent of Projects Let FY19	Percent of projects that are let in their respective program year	64.3%
Average Design Time	Average number of design days from Notice to Proceed to Final Plans	202 Days

Portfolio Planning: OTA Profile (2 of 2)

IT Capabilities

Key Applications	Function	Annual Cost*
Bentley MicroStation	Core Function - Civil Design software	\$2 K
Bid Express	Bidding software	\$ -
F Drive	Data Management, Analytics, and Reporting	\$ -
Quickbase	Documenting site inspection data	\$ -



Number of Applications



% Tailored/User-Developed

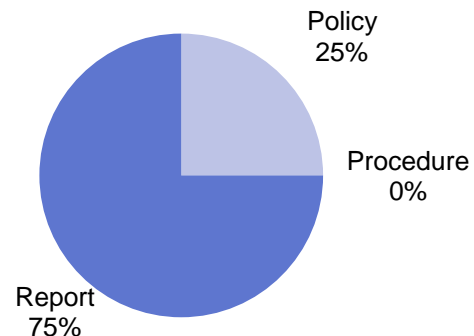


Total Annualized Cost

Policies and Procedures Documents

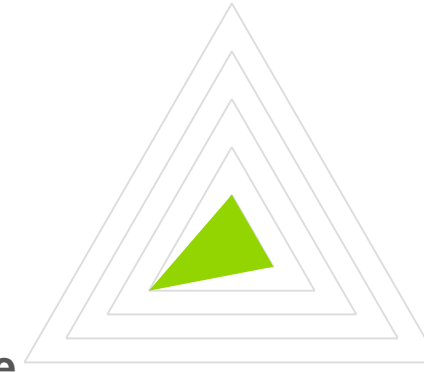
Key Policies and Procedures

- [5 Year Capital Plan Program](#)
- [Project Status Report Spreadsheet](#)
- [2019 Annual Report – Summary](#)
- [Engineering Project Status Report](#)
- [Annual Olsson Reports](#)



Pain Points

People



Infrastructure

Process

People	<ul style="list-style-type: none"> • Not enough resources to document/track key data
Process	<ul style="list-style-type: none"> • Unsure on whether shift towards more outsourcing will be beneficial when some projects could be done in-house
Infrastructure	<ul style="list-style-type: none"> • Data Sharing between divisions is severely lacking • Lack of true technology platform makes it difficult to find document/status updates

Critical Pain Point

Portfolio Planning: OAC Profile (1 of 2)

Dedicated Personnel and Budget

Sub-Function	Divisions	FTE / % Class*	Personnel Cost*	Consultant Cost**
System Condition Data Collection and Management	Airports Division	1.33 / 0%	Hidden	N/A
Data analytics, modeling, and reporting	Airports Division	0.68 / 0%	Hidden	N/A
Portfolio Planning	Airport Division	0.66 / 0%	Hidden	\$425 K
Program/Project Management	Airports Division	0	N/A	N/A
Administrative	All	1	Hidden	N/A
Vacancies	All	0	N/A	N/A
Total		3.67	Hidden	\$ 425 K

Volume of Work

Measure	Value
Number of Airport Projects Programmed - FY19	21 / \$30 M
Payments/Grant Distributions Processed - FY19	131 / \$5 M

Performance

KPI	Definition	Measure
Airport Inspections	Airport Inspections Conducted - FY19	44

Portfolio Planning: OAC Profile (2 of 2)

IT Capabilities

Key Applications	Function	Annual Cost*
ESRI	Geospatial data management, analysis and reporting	\$5 K
AutoCAD	Civil Design software	\$2 K
Paver	Pavement Condition data management	\$800
MS Suite	Bundle of productivity software	\$ -



Number of Applications



% Tailored/User-Developed

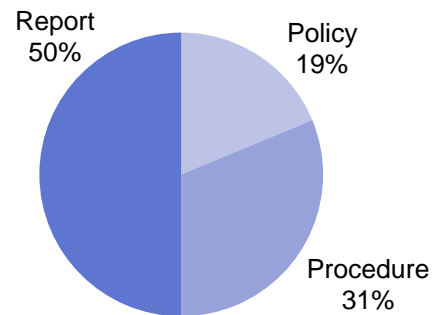


Total Annualized Cost

Policies and Procedures Documents

Key Policies and Procedures

- [FAA Order 5090 Airport Construction Plan Policy](#)
- [Oklahoma Airport System Plan](#)
- [Final FAA Master NPIAS Needs](#)
- [Approved Airports Construction Plan FY2021](#)
- [OAC Capital Projects Tracker/Worksheet](#)
- [Airport Inspection Packet](#)



Pain Points

People



Infrastructure

Process

People	<ul style="list-style-type: none"> • N/A
Process	<ul style="list-style-type: none"> • Since OK is considered a "Channeling" State OAC is constrained to disbursing funds at the individual airport/project level, thus limiting the ability of OAC to optimize funds per statewide airport needs • Required to use OMES procurement platform to secure key professional engineering services that involve a service fee ranging from 3% to 7% • Not able to utilize ODOT procurement system for project letting and preconstruction services • Airport system condition modeling is based on historical institutional knowledge and/or FAA guidance (e.g. average lifespan milestones)
Infrastructure	<ul style="list-style-type: none"> • Lack of software application to help with project prioritization or manage grants/grant applications - Currently everything is managed through user developed MS suite applications (e.g. Excel, Word, etc...)

Critical Pain Point

Portfolio Planning: Inter-Agency Comparison (1 of 3)

Dedicated Personnel and Budget

	FTE	Classified	Personnel – Costs*	Consultant – Cost**
ODOT	163	90%	\$20 M	\$5 M
OTA	4.2	58%	Hidden	\$730 K
OAC	3.7	0%	Hidden	\$425 K
Total	170.9	87%	\$20.8 M	\$6 M

Key Common IT Applications

Function	ODOT	OTA	OAC
Project Management	JPinfo	Quickbase	MS Suite
Workflow Management	ProjectWise Mylonet	N/A	MS Suite
Data Management	ESRI Decision Lens	F Drive	ESRI Paver
Core Function	MicroStation	MicroStation	AutoCAD

IT Spend

\$4.1M ODOT

\$1.8K OTA

\$7.8K OAC

Volume and Performance

Agency	Volume	Performance
ODOT	<ul style="list-style-type: none"> FY19 # 8YWP Projects Let – 251 / \$788 M FY19 # CIRB Projects - 110 / \$121M FY19 # of Bridges Inspected - 11,971 FY19 # of Miles of Pavement Inspected - 14,345 miles FY19 # Manual Traffic Count - 10,866 FY19 / Value Transit Program Grant Volume - 72 recipients / \$27.8 M 	<ul style="list-style-type: none"> FY19 % CWP Design Plan Completed On-Time - 33% FY19 % of Original CWP Delivered – 64% FY19 % Percentage of Projected Budget Utilized - 109% FY19 % 30-60-90 Milestones - 41%/38%/35%
OTA	<ul style="list-style-type: none"> FY19 # Miles of Pavement Inspected - 850 miles FY19 # Bridges Inspected (NBIS rating) - 411 FY19 # Bridges Inspected (Walk Around) - 388 FY19 # Projects Entering Design - 8 / \$12.8 M FY19 # Projects with Finalized Design and ready for Project Letting – 15 / \$177 M 	<ul style="list-style-type: none"> FY19 % of Projects Let – 64.3% FY19 Avg Length for Design - 7-10 months
OAC	<ul style="list-style-type: none"> FY19 # / Value of Airport Projects Programmed - 21 / \$30.1 M FY19 # / Value Payments/Grant Distributions Processed - 131 / \$5.2 M 	<ul style="list-style-type: none"> FY19 # Airport Inspections Conducted - 44

Portfolio Planning: Inter-Agency Comparison (2 of 3)

Sub-Function	Agency Maturity Assessment			Observations
	People & Organization	Process & Performance	Infrastructure	
System Condition Data Collection and Management <ul style="list-style-type: none"> Collection of critical transportation data Maintenance of systems and data warehouses Data and quality management 	<div style="background-color: yellow; border: 1px solid black; padding: 2px; text-align: center;">ODOT</div> <div style="background-color: yellow; border: 1px solid black; padding: 2px; text-align: center;">OTA</div> <div style="background-color: yellow; border: 1px solid black; padding: 2px; text-align: center;">OAC</div>	<div style="background-color: yellow; border: 1px solid black; padding: 2px; text-align: center;">ODOT</div> <div style="background-color: yellow; border: 1px solid black; padding: 2px; text-align: center;">OTA</div> <div style="background-color: yellow; border: 1px solid black; padding: 2px; text-align: center;">OAC</div>	<div style="background-color: yellow; border: 1px solid black; padding: 2px; text-align: center;">ODOT</div> <div style="background-color: yellow; border: 1px solid black; padding: 2px; text-align: center;">OTA</div> <div style="background-color: yellow; border: 1px solid black; padding: 2px; text-align: center;">OAC</div>	<ul style="list-style-type: none"> People - ODOT has significant resources dedicated to data collection and management, however these resources are not unified across the Agency. Both OTA and OAC use a combination of in-house staff and consultants to collect and warehouse system condition data Process - Federal requirements inform system condition measurement policies, however, underlying procedural documents for internal staff are minimal across all Agencies. KPIs do not formally exist within this Sub-Function across all 3 Agencies Infrastructure – All 3 Agencies have many tools and software applications dedicated to data collection; however these resources are not unified across the Agency
Data analytics, modeling, and reporting <ul style="list-style-type: none"> Model and forecast system conditions Portfolio Planning decision-enabling reporting Federal and State Performance reporting 	<div style="background-color: green; border: 1px solid black; padding: 2px; text-align: center;">ODOT</div> <div style="background-color: yellow; border: 1px solid black; padding: 2px; text-align: center;">OTA</div> <div style="background-color: yellow; border: 1px solid black; padding: 2px; text-align: center;">OAC</div>	<div style="background-color: yellow; border: 1px solid black; padding: 2px; text-align: center;">ODOT</div> <div style="background-color: yellow; border: 1px solid black; padding: 2px; text-align: center;">OTA</div> <div style="background-color: yellow; border: 1px solid black; padding: 2px; text-align: center;">OAC</div>	<div style="background-color: yellow; border: 1px solid black; padding: 2px; text-align: center;">ODOT</div> <div style="background-color: yellow; border: 1px solid black; padding: 2px; text-align: center;">OTA</div> <div style="background-color: yellow; border: 1px solid black; padding: 2px; text-align: center;">OAC</div>	<ul style="list-style-type: none"> People – ODOT and OTA have dedicated significant resources for data analytics and reporting across different divisions within their respective organizations. Nevertheless, efforts are not unified across the Agency and gaps exist. ODOT also has a dedicated branch to meet federal reporting requirements related to pavement condition, safety, congestion, etc.. Process - OTA and OACs in-house analytics and modeling capabilities are informal and are based on institutional knowledge of typical asset lifecycles and/or staff experience. With OTA, modeling quality assurance is provided in-part by an independent review (by Olsson), and OAC contracts out pavement modeling. Federal policy guides ODOT federal reporting Infrastructure – ODOT has several tools that they utilize (ESRI Stack, ASW BrM, dTIMS) for the organization’s analytics and modeling needs as it relates to the 8 year CWP. Outside of the CWP projects, the platforms are less mature. Both OTA and OAC utilize user-developed tools to manage any required reporting and/or rely on consultant provided tools

Portfolio Planning: Inter-Agency Comparison (3 of 3)

Sub-Function	Agency Maturity Assessment			Observations
	People & Organization	Process & Performance	Infrastructure	
Portfolio Planning <ul style="list-style-type: none"> Capital programs planning – State and Local levels Multi-modal transportation planning 	<div style="background-color: yellow; border: 1px solid black; padding: 2px; text-align: center;">ODOT</div> <div style="background-color: yellow; border: 1px solid black; padding: 2px; text-align: center;">OTA</div> <div style="background-color: yellow; border: 1px solid black; padding: 2px; text-align: center;">OAC</div>	<div style="background-color: yellow; border: 1px solid black; padding: 2px; text-align: center;">ODOT</div> <div style="background-color: yellow; border: 1px solid black; padding: 2px; text-align: center;">OTA</div> <div style="background-color: yellow; border: 1px solid black; padding: 2px; text-align: center;">OAC</div>	<div style="background-color: yellow; border: 1px solid black; padding: 2px; text-align: center;">ODOT</div> <div style="background-color: yellow; border: 1px solid black; padding: 2px; text-align: center;">OTA</div> <div style="background-color: yellow; border: 1px solid black; padding: 2px; text-align: center;">OAC</div>	<ul style="list-style-type: none"> People – ODOT has a dedicated branch to provide the analytics and data to facilitate the creation of the 8 Year Work Plan. However, numerous plans are created, and actual portfolio planning is distributed across multiple Divisions. OTA and OAC are centralized within one resource Process – Federal and state regulations guide policy for 8 Year Work Plan, CIRB and others however, there are limited internal procedures to govern the underlying process. This issue is similar with OTA and OAC. In all three cases it is not clear that the portfolio of projects will yield long term system condition goals. ODOT has demonstrated that it can structure its portfolio to meet strategic system condition goals (e.g. Pavement; Bridge etc..) Infrastructure – ODOT utilizes Decision Lens to help with portfolio planning however it does not appear to be integrated with maintenance, pavement, or bridge forecasting systems. OTA and OAC use Microsoft Suite applications for their portfolio planning needs
Program/Project Management <ul style="list-style-type: none"> Project/Program Management of Capital projects and multi-modal projects Grants Management 	<div style="background-color: orange; border: 1px solid black; padding: 2px; text-align: center;">ODOT</div> <div style="background-color: yellow; border: 1px solid black; padding: 2px; text-align: center;">OTA</div> <div style="background-color: yellow; border: 1px solid black; padding: 2px; text-align: center;">OAC</div>	<div style="background-color: orange; border: 1px solid black; padding: 2px; text-align: center;">ODOT</div> <div style="background-color: orange; border: 1px solid black; padding: 2px; text-align: center;">OTA</div> <div style="background-color: yellow; border: 1px solid black; padding: 2px; text-align: center;">OAC</div>	<div style="background-color: orange; border: 1px solid black; padding: 2px; text-align: center;">ODOT</div> <div style="background-color: orange; border: 1px solid black; padding: 2px; text-align: center;">OTA</div> <div style="background-color: orange; border: 1px solid black; padding: 2px; text-align: center;">OAC</div>	<ul style="list-style-type: none"> People – ODOT manages numerous projects and programs (e.g. Design / Pre-construction, Local Government, Rail, Public Transit, District Offices etc...). However, these activities are siloed, and decision rights are not calibrated to optimize project delivery. OTA largely outsources project management and controls to consultants, whereas OAC serves more in an oversight capacity and does not have PM obligations Process - ODOT has formal project management frameworks and toolkits, but it is not clear that OTA has the same. Internal KPIs are inconsistently tracked at ODOT because while some may have formal tracking the majority do not formally track performance measures. OTA delegates project control to consultants, however it is not clear whether KPIs are being internally tracked Infrastructure – None of the Agencies have a mature project management IT tools; ODOT largely relies on a JPinfo system which presents many challenges; OTA outsources project/program management to their design and construction inspection consultants

Design & Pre-Construction: Focus Area Overview

Sub-Functions and Agency Breakdown

Sub-Functions	Key Responsibilities	ODOT Divisions	OTA Divisions	OAC Divisions
Surveys	<ul style="list-style-type: none"> Perform surveying to establish land boundaries Produce aerial LiDAR scans to create 3D views Collect survey data 	Survey	Engineering <i>(Consultants)</i>	N/A
Geometrics & Structural Design	<ul style="list-style-type: none"> Provide structural and geometric analysis and design Apply limited traffic engineering elements Perform value engineering studies 	Roadway Bridge	Engineering <i>(Consultants)</i>	N/A
Environmental Review/ Compliance	<ul style="list-style-type: none"> Create NEPA documents/Secure environmental permits Identify, asses, manage and mitigate environmental risk Complete environmental studies and reviews 	Environmental	Engineering <i>(Consultants)</i>	N/A
Utility Relocation	<ul style="list-style-type: none"> Provide Utility Owners with Plan of Relocation designs “Manage” Utility Owners throughout the relocation design and construction Issue, monitor, and process work orders and claims 	Right of Way <i>(Utilities)</i> Districts	Engineering <i>(Consultants)</i>	N/A
Quality Assurance and Control (QA/QC)	<ul style="list-style-type: none"> Review all design plans Develop design policies, standards and manuals 	Roadway; Survey; Traffic; Rail; Local Government <i>(Consultants)</i>	Engineering <i>(Consultants)</i>	N/A

Sub-Function Footnotes

ODOT		OTA		OAC	Airports complete their own design work
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Design & Pre-Construction: ODOT Profile (1 of 2)

Dedicated Personnel and Budget

Sub-Function	Divisions	FTE / % Class*	Personnel Cost*	Consultant Cost**
Surveys	Survey	59 / 100%	\$5,963,055	\$2,882,287
Geometrics & Structural Design	Roadway Bridge	143.5 / 99%	\$15,688,969	\$52,603,120
Environmental Review/ Compliance	Environmental	10 / 100%	\$1,185,000	\$4,166,027
Utility Relocation	Right of Way & Utilities; Districts	17.33 / 100%	\$1,940,288	\$762,595
Quality Assurance and Control (QA/QC)	Roadway; Survey; Traffic; Rail; Local Government (Consultants)	17.16 / 100%	\$2,069,329	\$163,181
Leadership and Administrative	All	27.5 / 100%	\$3,679,991	N/A
At Large Vacancies	All	12 / 100%	\$875,109	N/A
Total		286.5	\$31,401,742	\$60,577,210

Volume of Work

Measure	Value
Number of CIRB Projects with Finalized Design and ready for Project Letting - FY19	69/\$112.5M
Number of 8-year Construction Work Plan (CWP) Projects Entering Design - FY19	60
Number of CWP Projects Entering Design done by in-house resources - FY19	15 (25%)
Number of CWP Projects with Finalized Design - FY19	64
Number of CWP Projects Ready for Letting - FY19	50

Performance

KPI	Definition	Measure
Design Plans Completed On-Time	Percent of CWP Engineering Plans completed On-Time between 2017-20	33%
Utilities Removed On-Time	Percent of Utilities Removed On-Time between 2017-20	47%
NEPA Approval On-Time	Percent of projects receiving NEPA Approval On-Time between 2017-20	29%
Average Design Time	Avg number of design days from Initial Preliminary Meeting to Final Plans	2080 days

Design & Pre-Construction: ODOT Profile (2 of 2)

IT Capabilities

Key Applications	Function	Annual Cost*
RTK Network & Terrasolid	Survey Core Function Delivery	\$1.7M
Bentley CADD MicroStation /In Roads/Open Roads	Design Core Function Delivery	\$749K
AASHTOWare Bridge & Pavement ME	Data Management, Analytics, and Reporting	\$254K
Bentley ProjectWise	Document Management	\$228K



Number of Applications



% Tailored/User-Developed

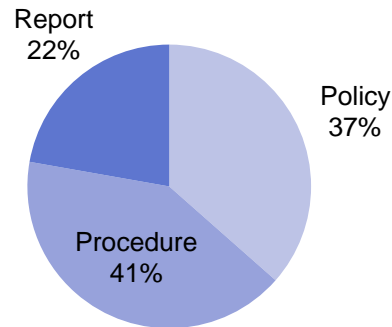


Total Annualized Cost

Policies and Procedures Documents

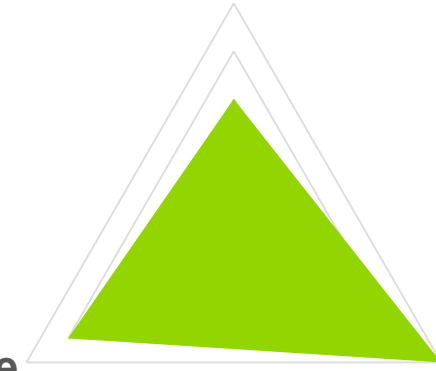
Key Policies and Procedures

- [ODOT Roadway Design Manual](#)
- [ODOT Geotechnical Specifications for Roadway Design](#)
- [Project Development Process](#)
- [ODOT Bridge Plan Directives](#)
- [Utilities Procedures Index](#)
- [Errors and Omissions Guidelines](#)



Pain Points

People



Infrastructure

Process

People	<ul style="list-style-type: none"> • Not enough resources within key areas, which also face hiring challenges • Difficulty identifying and utilizing the expertise of other divisions • Silos within and between divisions sometimes resulting in project delays • Communication between field districts and central office divisions is a challenge
Process	<ul style="list-style-type: none"> • QA/QC on outsourced projects is not performed consistently • Project Management is siloed from the pre-construction and design divisions • Traffic design is included late in the design process • Conservative posture towards environmental risk management leads to additional process delays • Lack of consistency in tracking KPIs across divisions • No accountability in meeting project baseline deadlines and milestones • Project Management is siloed from the pre-construction and design divisions
Infrastructure	<ul style="list-style-type: none"> • Projects outside of the 8-year Construction Work Plan are not always tracked within the Oracle database • Project data and management IT systems are antiquated, and maintenance is a challenge

Critical Pain Point

Design & Pre-Construction: OTA Profile (1 of 2)

Dedicated Personnel and Budget

Sub-Function	Divisions	FTE / % Class*	Personnel Cost*	Consultant Cost**
Surveys	Engineering (Consultants)	0	N/A	\$119,981
Geometrics & Structural Design	Engineering (Consultants)	0	N/A	\$2,186,536
Environmental Review/ Compliance	Engineering (Consultants)	0	N/A	
Utility Relocation	Engineering (Consultants)	0	N/A	
Quality Assurance and Control (QA/QC)	Engineering (Consultants)	1.5 / 22%	Hidden	\$132,380
Administrative	Engineering	1 / 100%	Hidden	\$ -
Vacancies at Large	All	0	N/A	\$ -
Total		2	Hidden	\$2,438,897

Volume of Work

Measure	Value
Number of Projects Entering Design - FY19	12
Number of Projects Entering and Finalizing Design - FY19	6
Number of Projects with Finalized Design and ready for Project Letting - FY19	28

Performance

KPI	Definition	Measure
Design Plans Completed On-Time	Percent of Engineering Plans completed per the Project Baseline Schedule	Not Available
Design Plans Completed On-Budget	Percent of Engineering Plans completed within budget	Not Available
Average Design Time	Average number of design days from Notice to Proceed to Final Plans	202 Days

Design & Pre-Construction: OTA Profile (2 of 2)

IT Capabilities

Key Applications	Function	Annual Cost*
GIS	Geospatial data management, analysis and reporting	\$13K
AutoCAD	Design Core Function Delivery	\$1.8K



Number of Applications



% Tailored/User-Developed

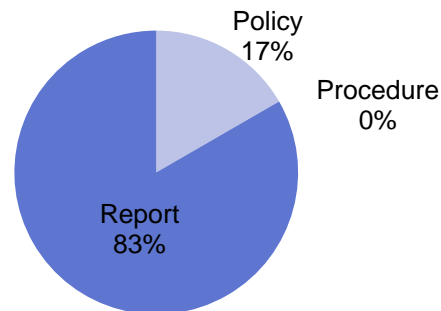


Total Annualized Cost

Policies and Procedures Documents

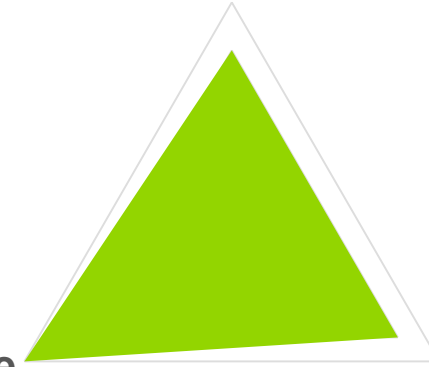
Key Policies and Procedures

- [2010 OTA Standard Specifications](#)
- [Project Status Report](#)



Pain Points

People



Infrastructure

Process

People	<ul style="list-style-type: none"> • Staff expertise is more specific to design oversight and QA/QC than with the technical aspects of conducting project design work • Utility relocations could be handled better by a dedicated employee instead of a consultant; however, staff lacks specialized expertise in certain areas like utilities
Process	<ul style="list-style-type: none"> • No formal policies or process documents that guides OTA's approach to Design and Pre-Construction or oversight of consultants
Infrastructure	<ul style="list-style-type: none"> • Each division uses their own tracking tools, so sharing data across divisions is a challenge and the data is siloed • Lack of a GIS based system to visualize old plans, ROW documents and others design documents

Critical Pain Point

Design & Pre-Construction: Inter-Agency Comparison (1 of 4)

Dedicated Personnel and Budget

	FTE	Classified	Personnel – Costs*	Consultant – Cost**
ODOT	286.5	100%	\$31.4M	\$60.6M
OTA	2	42%	Hidden	\$2.4M
OAC	0	N/A	N/A	N/A
Total	288.5	99%	\$31.6M	\$63.0M

Key Common IT Applications

Function	ODOT	OTA	OAC
CAD/Design Program	Bentley MicroStation	AutoCAD	N/A
Surveys	RTK Network & Terrasolid	N/A	N/A
Design Document Sharing	Bentley ProjectWise	N/A	N/A
Mapping	ArcGIS	ArcGIS	N/A

IT Spend

\$4.8M ODOT

\$14.9K OTA

N/A OAC

Volume and Performance



Agency	Volume	Performance
ODOT	<ul style="list-style-type: none"> CIRB Projects with Finalized Design and ready for Project Letting: 69/\$112.5M 8-year Work Plan Projects Entering Design: 60 8-year Work Plan with Finalized Design: 64 8-year Work Plan Ready for Letting: 50 	<ul style="list-style-type: none"> Design Plans Completed On-Time: 33% Utilities Removed On-Time: 47% NEPA Approval On-Time: 29% Average Design Time: 2080 days
OTA	<ul style="list-style-type: none"> Projects Entering Design: 12 Projects Entering and Finalizing Design: 6 Projects with Finalized Design and ready for Project Letting: 28 	<ul style="list-style-type: none"> Design Plans Completed On-Time: Not Available Design Plans Completed On-Budget: Not Available Average Design Time: 202 days
OAC	N/A	N/A

Design & Pre-Construction: Inter-Agency Comparison (2 of 4)

Sub-Function	Agency Maturity Assessment			Observations
	People & Organization	Process & Performance	Infrastructure	
<p>Surveys</p> <ul style="list-style-type: none"> Perform surveying to establish land boundaries Produce aerial LiDAR scans to create 3D views Collect survey data 	<p>ODOT</p> <p>OTA</p>	<p>ODOT</p> <p>OTA</p>	<p>ODOT</p> <p>OTA</p>	<ul style="list-style-type: none"> People – Approximately 25-35% of all survey work is done in-house at ODOT and each of the 11 office area branches manage that work. All survey work is outsourced at OTA. ODOT may have a better grasp on negotiating consultant hours, price and special provisions because of their strong technical expertise People – ODOT is at some risk of losing some core competencies as 25% of survey staff are nearing retirement. Additionally, licensed surveyors are not paid the same amount as engineers, but go through similar training and education, which makes it difficult to attract new talent Process – ODOT is not tracking all projects done outside of the 8-year work plan, making it difficult to measure the real output and ensure workload balance. OTA lack procedure documents Infrastructure – ODOT is using Bentley products, whereas OTA is using AutoCAD
<p>Geometrics & Structural Design</p> <ul style="list-style-type: none"> Provide structural and geometric analysis and design Apply limited traffic engineering elements Perform value engineering studies 	<p>ODOT</p> <p>OTA</p>	<p>ODOT</p> <p>OTA</p>	<p>ODOT</p> <p>OTA</p>	<ul style="list-style-type: none"> People – Approximately 40% of geometric and structural design work is done in-house at ODOT; all design work is outsourced at OTA. ODOT has a lot of CAD techs that could be utilized and allocated more efficiently across the divisions to work on various parts of the design plans People – ODOT's Roadway division has a branch devoted for training employees Process – Traffic design is included late in the design process at ODOT Process – ODOT is not tracking all projects done outside of the 8-year work plan, making it difficult to measure the real output and ensure workload balance. OTA lacks procedure documents Process – ODOT performs a few (4-5) Value Engineering studies a year that are federally required, however there's not a process to incorporate VE practices into other projects. OTA does not have a process around VE studies Infrastructure – ODOT is using Bentley products, whereas OTA is using AutoCAD

Note: OAC does not conduct Pre-Construction & Design work. That resides within each individual Airport

Note: OAC does not conduct Pre-Construction & Design work. That resides within each individual Airport

Key

Platform could be leveraged "as is"; Some strong practices

Platform functional; Upgrades driven by overall Modernization strategic prioritization

Platform in need of significant upgrade and/or support

Design & Pre-Construction: Inter-Agency Comparison (3 of 4)

Sub-Function	Agency Maturity Assessment			Observations
	People & Organization	Process & Performance	Infrastructure	
<p>Environmental Review/ Compliance</p> <ul style="list-style-type: none"> • Create NEPA documents/Secure environmental permits • Identify, asses, manage and mitigate environmental risk • Complete environmental studies and reviews <p>Note: OAC does not conduct Pre-Construction & Design work. That resides within each individual Airport</p>	<p>ODOT</p> <p>OTA</p>	<p>ODOT</p> <p>OTA</p>	<p>ODOT</p> <p>OTA</p>	<ul style="list-style-type: none"> • People – While ODOT’s Environmental Division includes staff members with the necessary technical subject matter expertise, OTA’s Engineering Division, by design, does not • People – Communication and collaboration with the Districts is a challenge, as the pressures of project delivery leads to a perception that Environmental requirements are a burden. This sometimes result in compliance issues and higher costs • Process – Environmental review involves a lot of subjectivity and ODOT applies a standard approach (regardless of project type), rather than a risk-based and tailored approach to project reviews. Most of OTA projects do not receive federal funds so they don’t need to meet the same federal environmental requirements as does ODOT • Infrastructure – ODOT environmental consultants do not have access to ProjectWise. Environmental Division has yet to set up reports from the Oracle database system, as there are some reporting glitches
<p>Utility Relocation</p> <ul style="list-style-type: none"> • Provide Utility Owners with Plan of Relocation designs • “Manage” Utility Owners throughout the relocation design and construction • Issue, monitor, and process work orders and claims <p>Note: OAC does not conduct Pre-Construction & Design work. That resides within each individual Airport</p>	<p>ODOT</p> <p>OTA</p>	<p>ODOT</p> <p>OTA</p>	<p>ODOT</p> <p>OTA</p>	<ul style="list-style-type: none"> • People – About 90% of the work is done in-house at ODOT, however the Utilities division appears understaffed. OTA outsources management of utility relocations, but the volume is lower compared to ODOT. Regardless, both Agencies report that consultants may not always have the proper expertise to manage the work • Process – There appears to be a critical breakdown in process and role assignments at ODOT: Utility Relocation work should be managed at the District level once a NTP is issued to the contractor, however, this rarely happens • Process – ODOT’s Utilities branch has comprehensive policies and procedures to govern and guide the work, and clear KPIs to measure performance. OTA does not have either • Infrastructure – ODOT’s utilities database is outdated, and storage/maintenance of the system has become an issue

Design & Pre-Construction: Inter-Agency Comparison (4 of 4)

Sub-Function	Agency Maturity Assessment			Observations
	People & Organization	Process & Performance	Infrastructure	

Quality Assurance and Control (QA/QC)

- Review all design plans
- Develop design policies, standards and manuals

ODOT	ODOT	ODOT
OTA	OTA	OTA

Note: OAC does not conduct Pre-Construction & Design work. That resides within each individual Airport

- **People** – QA/QC is distributed across several divisions at ODOT, including Roadway, Local Government, Rail, and the level of resources, nor the SME, meet the workload demand
- **Process** – A standard QA/QC across all projects does not seem to exist. Inconsistent QA/QC occurs throughout the various divisions at ODOT: QA/QC mainly occurs on the projects done in-house and not projects that are outsourced. At OTA, QA/QC is contracted out on the Driving Forward program but done in-house on the Capital Plan projects
- **Process** – At ODOT, QA/QC is just designed to catch errors and the overall quality or impact of design is not considered
- **Process** – ODOT has technical design guidelines/manuals, but they are out of date, some going back to 1992. No set design policy exists across the different districts at ODOT. OTA does not seem to have design manuals and is utilizing ODOT's
- **Process** – Neither ODOT nor OTA appear to have policies or procedures to conduct QA/QC on project plans
- **Infrastructure** – ODOT is not tracking all projects done outside of the 8-year work plan and project management IT systems are antiquated, making QA/QC more difficult to manage within the current infrastructure

Project Letting & Consultant Contracts: Focus Area Overview

Sub-Functions and Agency Breakdown

Sub-Functions	Key Responsibilities	ODOT Divisions	OTA Divisions	OAC Divisions
Professional Engineering Contract Management	<ul style="list-style-type: none"> Consultant Solicitation, review, scoring, short-listing, and final selection Contract development & fee hour negotiation Contract Administration, including task order changes, invoices, supplementals, and consultant evaluations 	Procurement	Engineering	N/A
Construction Project Letting	<ul style="list-style-type: none"> Set bid opening schedule and project letting dates Review PS&E and engineering estimates Advertise projects, evaluate contractor bids, and check project quantities and unit avg prices Provide contract award recommendation and execute contracts 	Office Engineer Construction	Engineering	N/A
Prequalification & Performance Review	<ul style="list-style-type: none"> Process Contractor's Prequalification Application Review Contractor's Audited Financial Statement Manage contractor renewal process Maintain prequalification list and performance review data 	Office Engineer	Engineering Construction	N/A
Spec Book	<ul style="list-style-type: none"> Maintain and update the spec book Maintain a running log of all the spec changes 	Office Engineer Materials	Engineering	N/A

Sub-Functions Footnotes

ODOT		OTA	OTA relies on ODOT's prequalification list and does not conduct Performance Reviews	OAC	OAC does not execute any Sub-Functions in this Focus Area
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Project Letting & Consultant Contracts: ODOT Profile (1 of 2)

Dedicated Personnel and Budget

Sub-Function	Divisions	FTE / % Class*	Personnel Cost*	Consultant Cost**
Professional Engineering Contract Management	Procurement	7 / 100%	\$859,744	\$ -
Construction Project Letting	Office Engineer Construction	11.5 / 100%	\$1,255,507	\$ -
Prequalification & Performance Review	Office Engineer	1 / 100%	Hidden	\$ -
Spec Book	Office Engineer Materials	2 / 100%	Hidden	\$40,000
Administrative	Procurement Office Engineer	1.5 / 100%	Hidden	N/A
Total		23	\$2,771,264	\$40,000

Volume of Work

Measure	Value
# of Engineering contracts vendors and projects in 2019	117/762
Value of Engineering contracts in 2019	\$78,196,917
# of Construction Contract Awards in 2019	275
Value of Construction Contracts Awarded in 2019	\$885,044,697
Number of CIRB Projects with Finalized Design and ready for Project Letting in 2019	69/\$112.5M
# of Pre-Qualifications processed in 2019	157 (29 New/128 Renewals)
# of Contractor Performance Reviews conducted in 2019	291 (6% Negative Reviews)

Performance

KPI	Definition	Measure
Engineer's Estimate vs Awarded	The percentage of construction contracts awarded that are within 10% of engineering estimates	49.8%
Construction Contract Growth	The percentage growth in construction project costs	-0.78%
Projects Let On-Time	Percentage of CWP projects let within the intended program year between 2018-2019	73.0%

Project Letting & Consultant Contracts: ODOT Profile (2 of 2)

IT Capabilities

Key Applications	Function	Annual Cost*
AASHTOWare Pre-Construction & Project Bids	Construction Project Letting Management Platform	\$254K
DocExpress	Electronic contracts management	\$3K
BidX	Platform for encrypted Project Bids	\$0
Transportation Online Professional Services (TOPS)	Engineering Consultant Solicitation and response submission	\$ -



Number of Applications



% Tailored/User-Developed



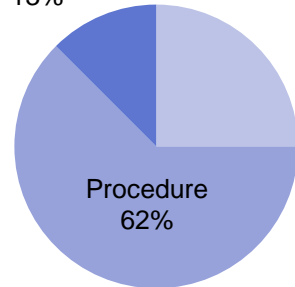
Total Annualized Cost

Policies and Procedures Documents

Key Policies and Procedures

- [Guidelines for the Administration of Consultant Contracts](#)
- [2020 ODOT Standards Specifications](#)
- [Spec Year Pay Item List](#)
- [Consultant Interview Evaluation](#)
- [Oklahoma Administrative Code – Highway Contractors](#)
- [Oklahoma Statutes Title 69](#)

Report
13%



Policy
25%

Procedure
62%

Pain Points

People

Infrastructure

Process

People	<ul style="list-style-type: none"> • Insufficient staff to provide IT support on project letting activities: Only one person knows the Project Letting Application systems, and as a result the institutional knowledge is at risk
Process	<ul style="list-style-type: none"> • Each of the engineering design divisions independently engage with the consultant on scope of work and level of effort for each project, that potentially leads to unnecessary time investment and more importantly lack of control on Total Design/Pre-Construction Costs • Lack of transparency related to professional engineering consultant selection • Not consistently tracking key KPIs, including resolution of contractor inquiries on time and number of days to pre-qualify a contractor
Infrastructure	<ul style="list-style-type: none"> • Insufficient training/change management as it relates to implementation of new IT project letting applications for internal and external users • AASHTOWare Pre-construction software only allows for internal users and as a result, ODOT staff input consultant deliverables that inform project letting bid packets • Multiple systems to check the status of engineering projects, which makes reporting an issue

Critical Pain Point

Project Letting & Consultant Contracts: OTA Profile (1 of 2)

Dedicated Personnel and Budget

Sub-Function	Divisions	FTE / % Class*	Personnel Cost*	Consultant Cost**
Professional Engineering Contract Management	Engineering	2.17 / 69%	Hidden	\$ -
Construction Project Letting	Engineering	2.77 / 55%	Hidden	\$ -
Prequalification & Performance Review	Engineering Construction	0 / 0%	\$ -	\$ -
Spec Book	Engineering	0 / 0%	\$ -	\$ -
Total		4.94	\$538,402	\$-

Volume of Work

Measure	Value
# of Consultant contracts in 2019	12
# of Construction Contract Awarded in 2019	16 Contracts / 23 Projects
Value of Construction Contracts Awarded in 2019	\$246,677,634
# of Pre-Qualifications processed	0 (Rely on ODOT's list)
# of Contractor Performance Reviews conducted	0

Performance

KPI	Definition	Measure
Engineer's Estimate vs Awarded	Percentage of Contract Awards within 10% of Engineer's Estimate in 2019	42.9%
Construction Contract Growth	The percentage growth in construction project costs in 2019	2.0%
Projects Let On-Time	Percentage of projects let within the intended program year between 2018-2019	72.7%

Project Letting & Consultant Contracts: OTA Profile (2 of 2)

IT Capabilities

Key Applications	Function	Annual Cost*
SignNow	Used for Electronic Signatures	\$-
Box	Used to send electronic documents between consultants/contractors/staff	\$-
Bid Express	Electronic bidding system	\$ -
Quickbase/Excel	Used to data and tracking purposes	\$ -



Number of Applications



% Tailored/User-Developed

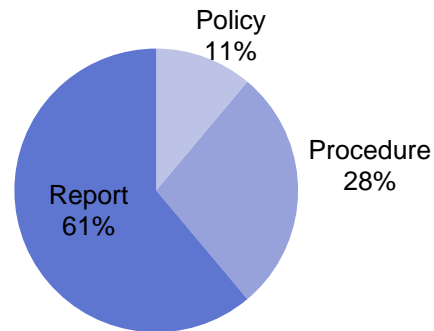


Total Annualized Cost

Policies and Procedures Documents

Key Policies and Procedures

- [2010 OTA Standard Specifications](#)
- [Final/Progressive Prime/Sub Contractor Performance Evaluation](#)
- [Construction Bidding Schedule](#)
- [Oklahoma Statutes Title 69](#)



Pain Points

People



Infrastructure

Process

People	
Process	<ul style="list-style-type: none"> • No official consultant evaluation process • Don't have formal process documents • Lack of transparency related to professional engineering consultant selection • Not consistently tracking key KPIs, including resolution of contractor inquiries on time • Not much demand for specific timeline KPIs • No official formal review/evaluation process in place
Infrastructure	<ul style="list-style-type: none"> • Each division uses their own tracking tools, so sharing data across divisions is a challenge and the data is siloed

Critical Pain Point

Project Letting & Consultant Contracts: Inter-Agency Comparison (1 of 3)

Dedicated Personnel and Budget

	FTE	Classified	Personnel – Costs*	Consultant – Cost**
ODOT	23	100%	\$2.8M	\$40K
OTA	4.9	61%	\$538K	\$ -
OAC	0	N/A	N/A	N/A
Total	27.9	94%	\$3.3M	\$40K

Key Common IT Applications

Function	ODOT	OTA	OAC
Engineering Contract Mgmt.	TOPS	Quickbase/ Excel	N/A
Construction Project Letting	AASHTOWare BidX	Bid Express	N/A
Electronic Signature	Adobe Sign	SignNow	N/A

IT Spend

\$257K ODOT

\$- OTA

N/A OAC

Volume and Performance

Agency	Volume	Performance
ODOT	<ul style="list-style-type: none"> FY19 # of Engineering vendors/projects: 117/762 FY19 Value of Engineering contracts: \$78.2M FY19 # / Value of Construction Contract Awards: 275 / \$885M FY19 # of Pre-Qualifications processed: 157 FY19 # of Contractor Performance Reviews conducted: 291 	<ul style="list-style-type: none"> FY19 % of construction contracts awarded that are within 10% of engineering estimates: 49.8% FY19 percentage growth in construction project costs: -0.78% FY19 Project Let On-Time: 73.0%
OTA	<ul style="list-style-type: none"> FY19 # of consultant contracts established: 12 FY19 # / Value of Construction Contract Awards: 23 / \$247M FY19 # of Pre-Qualifications processed: 0 FY19 # of Contractor Performance Reviews conducted: 0 	<ul style="list-style-type: none"> FY19 % of construction contracts awarded that are within 10% of engineering estimates: 42.9% FY19 percentage growth in construction project costs: 2.0% FY19 Project Let On-Time: 72.7%

Project Letting & Consultant Contracts: Inter-Agency Comparison (2 of 3)

Sub-Function	Agency Maturity Assessment			Observations
	People & Organization	Process & Performance	Infrastructure	
<p>Professional Engineering Contract Management</p> <ul style="list-style-type: none"> Consultant Solicitation, review, scoring, short-listing, and final selection Contract development & fee hour negotiation Contract Administration, including task order changes, invoices, supplementals, and consultant evaluations 	<p>ODOT</p> <p>OTA</p>	<p>ODOT</p> <p>OTA</p>	<p>ODOT</p> <p>OTA</p>	<ul style="list-style-type: none"> People – ODOT’s procurement of PE services is distributed across the Agency with each Engineering division determining scope, make/buy decisions, budget, negotiations, and award; while the procurement division (8 FTE) manages the process itself. This is often cumbersome and increases solicitation duration. OTA manages procurement through its Engineering division where scope, budget, and need are centrally determined Process – OTA does not have formal policies or procedures for consultant selection; ODOT has comprehensive procurement policies and procedures that are rooted in State and Federal regulations. Nevertheless, the current process does not place make/buy and scope decisions with Project Management division where total project budget and scope controls are managed Process – Neither Agency consistently tracks KPIs related to procurement (e.g. Average time to procure; consultant contract growth); and transparency related to award decisions are limited Infrastructure – ODOT utilizes a custom-built solution (TOPS) to manage procurement workflow. OTA manages it through user-developed spreadsheets
<p>Construction Project Letting</p> <ul style="list-style-type: none"> Set bid opening schedule and project letting dates Review PS&E and engineering estimates Advertise projects, evaluate contractor bids, and check project quantities and unit avg prices Provide contract award recommendation and execute contracts 	<p>ODOT</p> <p>OTA</p>	<p>ODOT</p> <p>OTA</p>	<p>ODOT</p> <p>OTA</p>	<ul style="list-style-type: none"> People – ODOT’s Office Engineer Division is split into Proposals and Contracts, and the Construction division manages all the technology. There’s often a perception issue that people aren’t doing nearly as much work as the other branch because the work ebbs and flows Process – ODOT/OTA have different project letting schedules. While both ODOT and OTA have a low-bid policy, they have different ways to evaluate their bids and OTA may have more ability to select contractors that are not the lowest bid. OTA may pay contractors more for speed and is able to complete the projects faster because of this Infrastructure – ODOT’s lack of robust unified project management system does not allow Office Engineer to accurately forecast when projects will be ready to let. ODOT uses AASHTOWare Project Bids to build proposals and generate pay items; the process at OTA is more manual

Note: OAC conducts limited professional engineering contract management (through OMES) but it is not a primary function as most of this is managed at the airport level

Note: OAC does not conduct project letting. That function resides with each individual Airport

Key	Platform could be leveraged “as is”; Some strong practices	Platform functional; Upgrades driven by overall Modernization strategic prioritization	Platform in need of significant upgrade and/or support
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Project Letting & Consultant Contracts: Inter-Agency Comparison (3 of 3)

Sub-Function	Agency Maturity Assessment			Observations
	People & Organization	Process & Performance	Infrastructure	
<p>Prequalification & Performance Review</p> <ul style="list-style-type: none"> Process Contractor's Prequalification Application Review Contractor's Audited Financial Statement Manage contractor renewal process Maintain prequalification list and performance review data 	<p>ODOT</p> <p>OTA</p>	<p>ODOT</p> <p>OTA</p>	<p>ODOT</p> <p>OTA</p>	<ul style="list-style-type: none"> People – Neither Agency dedicates significant people resources to contractor pre-qualifications or performance evaluations and OTA's resource is spread amongst several other Sub-Functions. Only one individual at ODOT is responsible for pre-qualifications, which poses a potential risk Process – ODOT has mature processes to conduct pre-qualifications and performance reviews; OTA does not and relies on ODOT's pre-qualification list Process – While ODOT has a formal policy to suspend or debar contractors for receiving negative performance evaluations, there seems to be a lack of reaction to receiving a negative review, and poor performers are still selected for future work. 18 projects received a negative review, and 16 contractors were removed from the 260-contractor prequalification list, but due to expiration. OTA does not formally complete performance reviews Process – Neither Agency consistently tracks KPIs (such as Avg. duration of pre-qualification evaluation; performance distribution of contractors) Infrastructure – ODOT uses its TOPS system for workflow management related contractor pre-qualification. OTA uses excel spreadsheets to manage this process
<p>Spec Book</p> <ul style="list-style-type: none"> Maintain and update the spec book Maintain a running log of all the spec changes 	<p>ODOT</p> <p>OTA</p>	<p>ODOT</p> <p>OTA</p>	<p>ODOT</p> <p>OTA</p>	<ul style="list-style-type: none"> People – ODOT Office Engineers has a dedicated resource who brings together all the expertise of the different divisions, other external contractors, or specialists and keeps a running log of all the spec changes Process – ODOT publishes a new spec book about every 10 years, which then OTA would adopt a similar version. OTA already works with ODOT's Office Engineers for the Spec Book and Special Provisions and they will be using the same spec book in the future Infrastructure – ODOT maintains spec changes by hand/manually and captures spec book differences in a published document on the website

Note: OAC is not obligated and does not formally conduct prequalification or performance reviews of contractors. That function resides with each individual Airport

Note: OAC does not create a specification book. That function resides with each individual Airport

Construction Monitoring: Focus Area Overview

Sub-Functions and Agency Breakdown

Sub-Functions	Key Responsibilities	ODOT Divisions	OTA Divisions	OAC Divisions
Project Setup and Application/Data Management	<ul style="list-style-type: none"> Project Setup in applicable systems (Site Manager Construction, Excel, etc..) Project Data Migration or Population Application Support (where applicable) 	Construction (Construction Programs)	Construction (Administration)	Airport Division (Grants Administration)
Construction Inspection	<ul style="list-style-type: none"> Conduct daily inspections of Work-Sites Selecting and scheduling Construction Management consultants Contractor Dispute resolution Change Order initiation Liaison to various external stakeholders 	District Offices (Construction Residency Staff)	Construction (Field Office)	Airport Division (Airport Engineer)
Materials Quality Testing	<ul style="list-style-type: none"> Verifying the quality of materials for use in highway construction Technician evaluation and certification verification Mediator to settle Construction vs Contractor disputes Calibrating Agency Lab equipment 	Materials	Construction (Field Office)	Airport Division (Airport Engineer)
Vendor Payments and Contract Administration	<ul style="list-style-type: none"> Issue (monthly/bi-monthly) and final estimate payments Maintain contracts and process any changes and update applicable applications Process Change Orders Conduct Final construction project Audits 	Construction (Contracts and Estimates) Comptroller District Offices (Construction Auditors)	Construction (Administration) Controller Consultants (Construction Auditors)	Airport Division (Grants Administration)

Sub-Functions Footnotes

ODOT		OTA		OAC	OAC does not conduct any of the Sub-Functions withing Construction Inspection except inspections
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Construction Monitoring: ODOT Profile (1 of 2)

Dedicated Personnel and Budget

Sub-Function	Divisions	FTE / % Class*	Personnel Cost*	Consultant Cost**
Project Setup and Application/Data Management	Construction Division	2 / 100%	Hidden	\$ -
Construction Inspection	District Offices	395.14 / 98%	\$36,752,382	\$16,688,249
Materials Quality Testing	Materials Division	61 / 97%	\$6,156,631	\$2,934,132
Vendor Payments and Contract Administration	Construction Division	36.33 / 100%	\$3,768,853	\$ -
Administrative	All	42.27 / 91%	\$5,477,853	N/A
Vacancies	All	0	N/A	N/A
Total		536.74	\$ 52,349,219	\$ 19,622,381

Volume of Work

Measure	Value
Projects Transitioned to Construction FY19	254 / \$896 M
Number of Vendor Payments FY19	4,670 / \$901 M
Number of Change Orders FY19	1,090 / \$16 M
Number and Value of Final Estimate Paid – FY19	331/ \$3 M
Active Technicians IA Evaluated – FY19	267
Number of Labs Certified – FY19	30 of 33
Asphalt Plants Certified – FY19	66 of 71

Performance

KPI	Definition	Performance Measurement
Projects On-Time/Under-Budget	Percent of projects delivered on time and under budget – FY19	54% on-time / 62% under-budget
Techs Complete/Labs Certified	Percent of technician evaluation and lab certifications completed – FY19	100%
Vendor Payments	Percent of vendor payments made within 15 days – FY19	97%
Inspection Spend Comparison	Consultant inspection spend vs in-house spend – FY19	6.68% / 12.72%
6 Month List	Number of projects that have not been closed out in 6 months or more	189
Contract Growth	The percentage growth in construction project costs – FY19	-0.78%

Construction Monitoring: ODOT Profile (2 of 2)

IT Capabilities

Key Applications	Function	Annual Cost*
AASHTOWare SiteManager	Construction Progress / Vendor Payments	\$722 K
Bentley ProjectWise	Document Management	\$228 K
Headlight	Photo/video monitoring of construction items under inspection	\$122 K
TOPS	Tracking Utility Relocation Activities	\$ -



Number of Applications



% Tailored/User-Developed

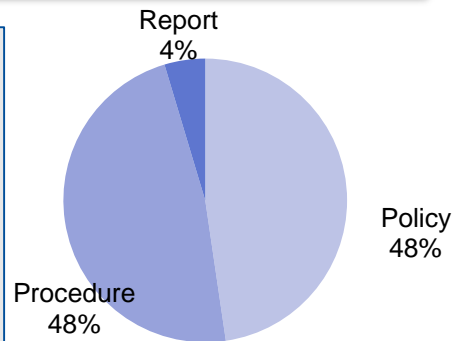


Total Annualized Cost

Policies and Procedures Documents

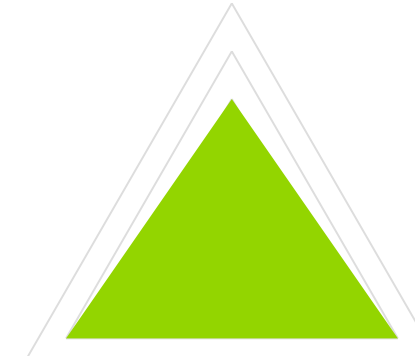
Key Policies and Procedures

- [2019 ODOT Spec Book](#)
- [ODOT Construction Contract Administration-SiteManager](#)
- [ODOT Construction Management Task Order Process](#)
- [Charging Time Policy and Procedures Document](#)
- [Construction Control Directives](#)
- [Materials Testing Directives](#)



Pain Points

People



Infrastructure

Process

People	<ul style="list-style-type: none"> • Limited number of staff to manage work of entire state as it relates to construction project setup within AASHTOWare SiteManager and related support • Lack of formal training and development program for Construction Resident Engineers
Process	<ul style="list-style-type: none"> • Lack of formal Project Management structure and platform for Construction Inspection activities and resource management • Some critical processes not currently being documented (i.e. Materials Manual does not exist) • Too much emphasis on documentation at the expense of actual field work inspection and preventing risks before they become issues • Lack of standardized construction audit process and adequate training results in delays in final estimate issuance
Infrastructure	<ul style="list-style-type: none"> • Technological capabilities of inspection tools lag those of contractors, impacting ability to verify contractor work • Lack of true technological support/partner • Only internal users allowed on Pre-construction software therefore contractors must keep their files on separate platform file to then import • Difficult at the District level navigating numerous data sources to find data efficiently

Critical Pain Point

Construction Monitoring: OTA Profile (1 of 2)

Dedicated Personnel and Budget

Sub-Function	Divisions	FTE / % Class*	Personnel Cost*	Consultant Cost**
Project Setup and Application/Data Management	Construction Division	0.33 / 100%	Hidden	\$ -
Construction Inspection	Construction Division	1.75 / 57%	Hidden	\$46,145,051
Materials Quality Testing	N/A	N/A	Hidden	\$7,306,845
Vendor Payments and Contract Administration	Construction Division	0.33 / 100%	Hidden	\$ -
Administrative	All	1	Hidden	N/A
Vacancies	All	0	N/A	N/A
Total		3.42	Hidden	\$ 53,451,896

Volume of Work

Measure	Value
Projects Transitioned to Construction - FY19	57 / \$134 M
Number of Vendor Payments - FY19	376 / \$333 M
Number of Change Orders - FY19	126 / \$11 M
Number and Value of Final Estimate Paid – FY19	20 / \$129 M

Performance

KPI	Definition	Measure
Projects Under-Budget	Percent of projects delivered under budget – FY19	35%
Project Closeout	Avg length of time between last estimate signed and final payment	64 days
Contract Growth	Percent of projects over the original contract amount	65%
Vendor Payments	Percent of vendor payments made within 30 days	87%
Contract Growth	The percentage growth in construction project costs – FY19	2%

Construction Monitoring: OTA Profile (2 of 2)

IT Capabilities

Key Applications	Function	Annual Cost*
EPPS	Payment Processing System	\$9,571
OnX Hunt	GPS mapping	\$860
Google Earth	Mapping	\$ 0
Google Maps	GPS Mapping	\$ 0



Number of Applications



% Tailored/User-Developed

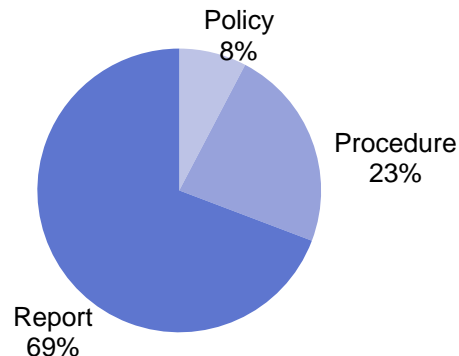


Total Annualized Cost

Policies and Procedures Documents

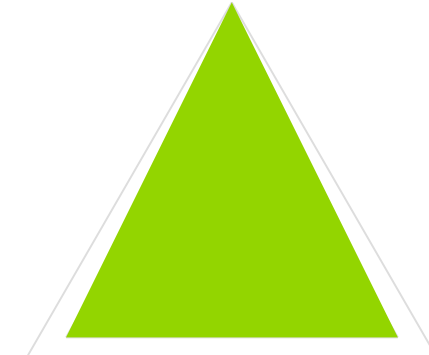
Key Policies and Procedures:

- [OTA 2010 Std Specs Construction](#)
- [Driving Forward Project Status Report](#)
- [Capital Plan Project Tracking](#)
- [Consultant Selection Criteria](#)
- [Capital Planned Improvements](#)
- [Construction Control and Materials Directives](#)



Pain Points

People



Infrastructure

Process

People	<ul style="list-style-type: none"> • Only <u>1 FTE</u> to manage Project Setup, Vendor Payment/Contract Administration, and Right of Way Acquisitions and Disposal
Process	<ul style="list-style-type: none"> • No formal documented procedures or processes related to inspections, payments, testing, etc.; However, OTA relies on ODOT's existing construction and materials control directives. • Tracking measures exist at the project level (project schedule status, budget status) for Driving Forward Program. However, no KPIs to report on the "baseline" projects performance (% projects on time; % of projects under/at budget) are currently in use • Cumbersome and time-consuming project closeout process that requires intra-Agency cooperation amongst multiple divisions by which time consultants may have moved on to other projects • Construction contractors paid via physical check rather than via electronic deposit • Contractors do not consistently follow OTA traffic safety rules
Infrastructure	<ul style="list-style-type: none"> • Lack of a robust software platform to facilitate project, workflow, and document management related to construction inspection and vendor payments • Difficulty with upgrading IT infrastructure while delivering a major capital program (I.e.. Driving Forward)

Critical Pain Point

Construction Monitoring: OAC Profile (1 of 2)

Dedicated Personnel and Budget

Sub-Function	Divisions	FTE / % Class*	Personnel Cost*	Consultant Cost**
Project Setup and Application/Data Management	Airport Division	0.33 / 0%	Hidden	\$ -
Construction Inspection	Airport Division	1.34 / 0%	Hidden	\$ -
Materials Quality Testing	Airport Division	N/A	Hidden	\$ -
Vendor Payments and Contract Administration	Airport Division	0.33 / 0%	Hidden	\$ -
Administrative	All	N/A	N/A	N/A
Vacancies	All	N/A	Hidden	N/A
Total		2	Hidden	\$ -

Volume of Work

Measure	Value
Projects Programmed - FY19	7 / \$2.3 M
Projects Closed Out - FY19	11 / \$809 K
Vendor payments – FY19	531 / \$5 M
Construction Projects Transitioned – FY19	21 / \$31 M total / OAC portion \$5 M
Dollar value of reimbursement payments – FY19	131 / \$5 M
Number of Change Orders Processed – FY19	6

Performance

KPI	Definition	Measure
KPIs not currently being tracked		

Construction Monitoring: OAC Profile (2 of 2)

IT Capabilities

Key Applications	Function	Annual Cost*
AutoCAD Civil 3D	To review construction plan designs	\$2 K
PAVER	Pavement Condition Management	\$800
Adobe Acrobat	To track and read electronic documents	\$ -
Microsoft Suite	Excel to track grants and help facilitate payments	\$ -



Number of Applications



% Custom Built/User-Developed

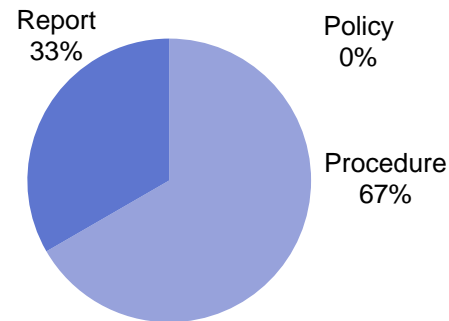


Total Annualized Cost

Policies and Procedures Documents

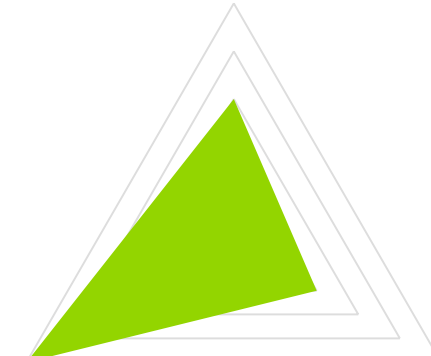
Key Policies and Procedures:

- Capital Projects Operating Manual
- Various Tracking Spreadsheets (to monitor and manage project progress, vendor payments, and grant distribution)
- Financial Review – All Projects
- Preconstruction Operating Protocols



Pain Points

People



Infrastructure

Process

People	<ul style="list-style-type: none"> • Lack of a GIS Subject Matter Expert to provide day-to-day support until a FTE can be hired
Process	<ul style="list-style-type: none"> • KPIs related to whether Airport Construction Projects are completed on time and within budget are not tracked • Project closeout can become cumbersome if FAA doesn't close out the project in a timely fashion • Elevated OMES fee to procure construction inspection services (~7% of contract amount)
Infrastructure	<ul style="list-style-type: none"> • Currently everything is tracked manually through spreadsheets; automation through a grants-management application (e.g. Salesforce) would be very beneficial • Incompatibility with ODOT pavement inspection process and methodology (ODOT focuses on rideability, OTA's focuses on loads)

Critical Pain Point

Construction Monitoring: Inter-Agency Comparison (1 of 3)

Dedicated Personnel and Budget

	FTE	Classified	Personnel – Costs*	Consultant – Cost**
ODOT	536.7	98%	\$52 M	\$19 M
OTA	3.4	49%	Hidden	\$53 M
OAC	2	0%	Hidden	\$ -
Total	542.1	97%	\$53 M	\$73 M

Key Common IT Applications

Function	ODOT	OTA	OAC
Workflow Management	AASHTOWare TOPS - Utilities	Microsoft Suite	Microsoft Suite
Payment Processing	AASHTOWare	EPPS	Microsoft Suite
Document Management	ProjectWise	EPPS	DropBox; AutoCAD
Analytics	Oracle BI	Microsoft Suite	Microsoft Suite

IT Spend

\$1.2M ODOT

\$10K OTA

\$2.8K OAC

Volume and Performance

Agency	Volume	Performance
ODOT	<ul style="list-style-type: none"> FY19 # / Value of Projects Transitioned to Construction - 254 / \$896 M FY19 # / Value of Vendor Payments - 4,670 / \$901 M FY19 # / Value Orders - 1,090 / \$15.8 M FY19 # / Value of Final Estimate Paid - 331 / \$2.93 M 	<ul style="list-style-type: none"> FY19 % of Projects On-Time/Under-Budget - 54% on-time / 62% under-budget FY19 % of Techs Complete/Labs Certified - 100% FY19 % of Vendor Payments - 98% within 15 days FY19 % of Inspection Spend Comparison – 6.68% / 12.72% consultant vs in-house 6 Month List - 189
OTA	<ul style="list-style-type: none"> FY19 # / Value Projects Transitioned to Construction – 57 / \$134 M FY19 # / Value of Vendor Payments – 376 / \$333 M FY19 # / Value of Change Orders – 126 / \$11.3 M FY19 # / Value of Final Estimate Paid – 20 / \$129 M 	<ul style="list-style-type: none"> FY19 Pavement Distress Survey - Avg of 82 (Excellent) FY19 Bridge Conditions Ratings – 8/411 bridges structurally deficient FY19 % of Vendor Payments - 87% paid within 30 days
OAC	<ul style="list-style-type: none"> FY19 Projects Programmed - 7 / \$2.3M FY19 Projects Closed Out - 11 / \$809 K FY19 # / Value of Vendor Payments – 531 / \$5.2 M Construction Projects Transitioned - 21 / \$31 M total / OAC portion \$5.1 M FY19 # / Value of Reimbursements - 131 / \$5.2 M FY19 # of Change Orders - 6 	N/A

Construction Monitoring: Inter-Agency Comparison (2 of 3)

Sub-Function	Agency Maturity Assessment			Observations
	People & Organization	Process & Performance	Infrastructure	
Project Setup and Application/Data Management	ODOT	ODOT	ODOT	<ul style="list-style-type: none"> People - There is a general lack of resources within this Sub-Function across all the Agencies. ODOT has a dedicated branch of only 3 FTE to manage project setup and data migration for the entire state. OTA and OAC have 1 resource each who are spread between several other Sub-Functions. Additionally, OTA relies on consultants to manage components of project setup Process - ODOT has significantly more projects to setup versus OTA and OAC. Nevertheless, None of the Agencies have a Policy or Procedures manual to guide Project Setup Infrastructure - ODOT has "industry-standard" application ASW Site Manager to manage workflow for Construction Inspection, Materials Testing and Vendor Payments. However, OTA and OAC rely on user developed spreadsheets or consultants
	OTA	OTA	OTA	
	OAC	OAC	OAC	
Construction Inspection	ODOT	ODOT	ODOT	<ul style="list-style-type: none"> People - All three Agencies have clear organizational structures to execute on construction inspection. ODOT and OAC handle most responsibilities in house, while OTA largely contracts out this function. OTA has spent approximately 3,741% (\$45M) more than ODOT in outsourced work Process - The 2019 Specs book (specific to ODOT/OTA) and construction control directives provide a comprehensive policy and partial procedural framework, however, none of the Agencies have formal internally focused inspection procedures guidebook or project management framework for construction inspection activities (E.g., Resident Engineer manual, Project Management toolset, etc..) Process - All three Agencies track several performance measures, however none of them have specific KPIs or regular reporting dashboards. Nonetheless ODOT's and OTA's project completion progress is quite high. The majority of ODOT's projects are also under-budget. Infrastructure - ODOT has an "industry standard" application ASW SiteManager to support workflow management. Both OTA and OAC utilize user-developed tools to manage workflow, and both rely on consultants to provide Project/Program management
	OTA	OTA	OTA	
	OAC	OAC	OAC	

Construction Monitoring: Inter-Agency Comparison (3 of 3)

Sub-Function	Agency Maturity Assessment			Observations
	People & Organization	Process & Performance	Infrastructure	
Materials Quality Testing	ODOT	ODOT	ODOT	<ul style="list-style-type: none"> People - ODOT has a dedicated division to manage Materials Quality Testing, whereas OTA and OAC outsource to either ODOT or consultants Process - ODOT's Policies and KPIs related to Materials testing, Quality Assurance, Inspector certification are embedded with federal regulations and contracts, and articulated in their materials testing directives. ODOT consistently meets or exceeds its required performance. OTA and OAC do not have Policies or KPIs Infrastructure - ODOT has dedicated infrastructure (labs, equipment, etc...), however, ODOT's software apparatus is largely custom built, and operates on an antiquated operating software platform and is subject to inoperability risk
	OTA	OTA		
<p>Note: OAC does not perform this function. OTA outsources this function it to consultants or ODOT and so has no infrastructure</p>				
Vendor Payments and Contract Administration	ODOT	ODOT	ODOT	<ul style="list-style-type: none"> People - ODOT has a dedicated branch to manage vendor payments, change orders, and administrative contract management. OTA and OAC have 1 resource each who are spread between several other Sub-Functions Process - ODOT must process significantly more vendor payments/change orders in comparison to OTA and OAC (4,670 ODOT / 376 OTA / 531 OAC) A critical gap is that none of the Agencies have a Procedures manual to guide the underlying processes Process - Only OTA has actively been tracking performance measures such as on on-time payments, although the underlying data exists for ODOT. Nevertheless, ODOT and OTA have a strong track record of issuing payments within 15 days – 97% for ODOT, and within 30 days - 30% for OTA Infrastructure - ODOT has “industry-standard” application ASW Site Manager to manage workflow for Construction Inspection, Materials Testing and Vendor Payments. However, OTA and OAC rely on user developed spreadsheets or consultants
	OTA	OTA	OTA	
	OAC	OAC	OAC	

Maintenance: Focus Area Overview

Sub-Functions and Agency Breakdown

Sub-Functions	Key Responsibilities	ODOT Divisions	OTA Divisions	OAC Divisions
Maintenance Quality Assurance (MQA)	<ul style="list-style-type: none"> Implementation of systems to identify level of service targets and performance for Roadway Assets Alignment of Maintenance Budgets and Project Planning to MQA framework 	N/A	N/A	N/A
Systems and Data Management	<ul style="list-style-type: none"> Capture and warehousing of all data from the field to enable relevant budget and performance monitoring and analysis 	Maintenance (Agile Assets)	Maintenance (Division and Turnpike Crews)	N/A
District Wide Maintenance	<ul style="list-style-type: none"> Oversees the preservation, upkeep, inspection, evaluation and restoration of roadways and structures (includes Special/Heavy Maintenance) 	Districts (District Maint. Crews)	N/A	N/A
County Maintenance		Districts (County Maint. Crews)	Maintenance (Turnpike Crews)	N/A
Bridge Maintenance	<ul style="list-style-type: none"> Oversees the preservation, upkeep, inspection, evaluation and restoration of bridges 	Bridge (Field Services) Districts (Bridge Crews)	Maintenance (Turnpike Crews)	N/A
Equipment Management	<ul style="list-style-type: none"> Purchasing and leasing equipment and vehicles Monitoring and conducting asset preservation efforts on heavy/light equipment and vehicles 	Maintenance (Equipment) Districts (Equipment/Shop Crew)	Maintenance (Vehicle Maintenance and Fleet Specialists)	N/A
Miscellaneous Programs	<ul style="list-style-type: none"> Execution of various programs that do not fit in within the more traditional Sub-Functions (e.g. Beautification, Traffic Sign Shop, Contracts, etc..) 	Maintenance (Overhead/MMS/Equipment)	N/A	N/A

Sub-Functions Footnotes

ODOT	Maintenance Quality Assurance	OTA	Maintenance Quality Assurance	OAC	OAC is not responsible/obligated to conduct maintenance activities for airports
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Maintenance : ODOT Profile (1 of 2)

Dedicated Personnel and Budget

Sub-Function	Divisions	FTE / % Class*	Personnel Cost*	Consultant Cost**
Maintenance Quality Assurance	N/A	N/A	N/A	N/A
Systems and Data Management	Maintenance	2 / 100%	Hidden	\$842,025
District Wide Maintenance	Districts	308.44 / 100%	\$24,284,279	\$5,658,330
County Maintenance	Districts	659 / 100%	\$51,230,401	
Bridge Maintenance	Bridge Districts	50.44 / 100%	\$4,351,296	\$211.437
Equipment Management	Maintenance Districts	85 / 100%	\$7,205,928	Not Available
Misc. Programs	Maintenance	12 / 100%	\$1,051,774	Not Available
Administrative	All	129.27 / 98%	\$12,499,969	N/A
Vacancies	All	0	N/A	N/A
Total		1,246.15	\$100,623,648	\$5,211,565

Volume of Work

Measure	Value
Total District/County Maintenance - FY19	\$131 M
Total Bridge Maintenance - FY19	\$113 M
Total Equipment Costs - FY19	\$9 M
Total Miles of Lane Miles Maintained	120 K miles
Bridge Inspection Count - FY19	12 K

Performance

KPI	Definition	Measure
Limited KPIs for Maintenance Activities		
Cost-Balance Dashboard	Dashboard used in the field to monitor overspending	To be defined KPIs that provide a real-time view of budget capacity of all maintenance activities
Structurally Deficient Bridges – FY19	The percent of structurally deficient bridges that are On-System	1.94% FY19 budgeted

Maintenance : ODOT Profile (2 of 2)

IT Capabilities

Key Applications	Function	Annual Cost*
Agile Assets	Maintenance Management System	\$1 M
AASHTOWare Bridge Mgmt.	Project management of Bridge Maintenance Activities	\$229 K
Hexagon – GeoMedia	GIS Mapping	\$128 K
Equipment Watch	Facilitates heavy equipment lifecycle maintenance data	\$32 K
ShopKey	Manage vehicle maintenance data	\$21 K



Number of Applications



% Tailored/User-Developed

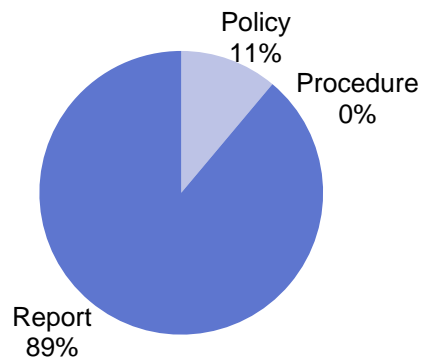


Total Annualized Cost

Policies and Procedures Documents

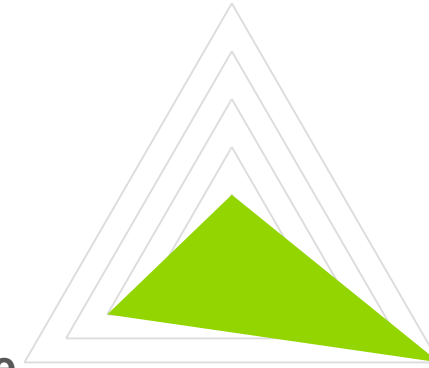
Key Policies and Procedures

- [4-year Equipment Plan 2019](#)
- [ITS Branches Roles and Responsibilities](#)
- [Equipment Usage Report](#)
- [Work Done Summaries](#)
- [Agile Assets Dashboards](#)
- [Maintenance Control Directives](#)
- [Maintenance Manual](#)



Pain Points

People



Infrastructure

Process

People	<ul style="list-style-type: none"> • Increasing percentage of staff has a minimal IT skillset • Maintenance training is targeted towards specialized skills and certification and not tied to career progression
Process	<ul style="list-style-type: none"> • No formal process to determine Maintenance Budgets at the District Level, and the budgets are historically driven • Coordination between Portfolio Planning and Maintenance Planning, as strategic priorities and design standards may increase maintenance burden • No formalized/standardized process for Districts to plan their maintenance "projects" and budgets • Lack of real-time project management system to help manage and monitor maintenance activities • Maintenance budgets are not growing at rate proportional to additional assets generated through capital improvements • No Level of Service or formal MQA system exists to help with planning maintenance activities • Maintenance Manual that is ~40 years old
Infrastructure	<ul style="list-style-type: none"> • Equipment replacement budget is well below the equipment replacement need

Critical Pain Point

Maintenance : OTA Profile (1 of 2)

Dedicated Personnel and Budget

Sub-Function	Divisions	FTE / % Class*	Personnel Cost*	Consultant Cost**
Maintenance Quality Assurance	N/A	N/A	N/A	N/A
Systems and Data Management	Maintenance	2.33 / 57%	Hidden	\$ -
District Wide Maintenance	N/A	N/A	N/A	N/A
County Maintenance	Maintenance	94.5 / 100%	\$5,934,042	\$2,214,804
Bridge Maintenance	Maintenance	94 / 100%	\$5,906,849	\$ -
Equipment Management	Maintenance	10 / 90%	\$726,766	\$204,904
Misc. Programs	N/A	N/A	N/A	N/A
Administrative	All	1.34 / 63%	Hidden	N/A
Vacancies	All	0	N/A	N/A
Total		202.17	\$12,944,231	\$2,419,708

Volume of Work

Measure	Value
Trash Removal – FY19	44,656 hours / \$1 M
Drainage Repairs – FY19	67,221 sq.. yards / \$829 K
Brush and Weed Control – FY19	15,767 hours / \$675 K
Vegetation Management – FY19	34,804 acres / \$650 K
Asphalt Repairs on Travel Surfaces – FY19	2,816 tons / \$300 K
Concrete Repairs on Travel Surfaces – FY19	644 cubic yards / \$1 M
Total Maintenance Spend – FY19	\$19 M
Total Bridge Maintenance Spend – FY19	\$181 K

Performance

KPI	Definition	Measure
Limited KPIs for Maintenance Activities		
Drainage Culvert Inspection – FY19	Summarization of the maintenance needs for each drainage structure	4,000 structures checked
Bridge Inspections – FY19	Summarization of the rehabilitation needs for bridges	99 Bridges Inspected

Maintenance : OTA Profile (2 of 2)

IT Capabilities

Key Applications	Function	Annual Cost*
VUEWorks	Maintenance Management System	\$198 K
OnX Hunt	Identify Adjacent land owners	\$860
Hansen	Maintenance Management System (sunsetting)	\$ -
Hansen Reporter	To view Bridge Condition Data	\$ -
Quickbase	Project Management	\$ -



Number of Applications



% Tailored/User-Developed

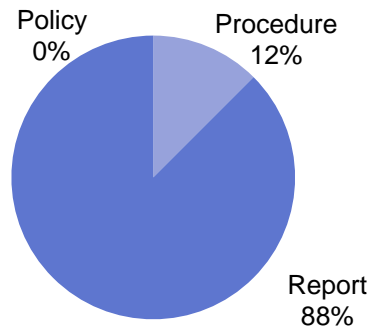


Total Annualized Cost

Policies and Procedures Documents

Key Policies and Procedures

- [Long Term Equipment and Vehicle Purchasing Plan](#)
- [Purchase of Goods and Services Policy](#)
- [December 2017, 2018, 2019 OPs Report](#)
- [Bridge Maintenance Manual](#)
- [Asphalt Repair Manual](#)
- [VoTech Training Manuals](#)



Pain Points

People



Infrastructure

Process

People	<ul style="list-style-type: none"> • Significant challenge recruiting and retaining at the more junior maintenance levels (i.e. TEO 1 - 3 level) – there has been ~50% turnover in the last two years • Compensation for Maintenance staff at a more junior level is not competitive • Maintenance training is targeted towards specialized skills and certification and not tied to career progression
Process	<ul style="list-style-type: none"> • No formalized process for Budget planning at the Turnpike Level and it is historically driven • No formal MQA system exists (beyond Olsson report on Culvert condition) to guide planning maintenance activities or budgets • Level of Service assessment is based on staff experience and institutional knowledge • OTA's turnpikes are starting to age and maintenance and repair needs are potentially going to increase • There is a push for OTA to remain lean and outsource more work however pricing for consultants is trending higher than what OTA can provide in-house • Communication needs to be better at the division and turnpike level in order to aide equipment and resource gaps across the Agencies
Infrastructure	<ul style="list-style-type: none"> • N/A

Critical Pain Point

Maintenance: Inter-Agency Comparison (1 of 4)

Dedicated Personnel and Budget

	FTE	Classified	Personnel – Costs*	Consultant – Cost**
ODOT	1,246.2	99%	\$101 M	\$5 M
OTA	202.2	82%	\$13 M	\$2 M
OAC	N/A	N/A	N/A	N/A
Total	1,448.8	90.5%	\$114 M	\$7 M

Volume and Performance

Agency	Volume	Performance
ODOT	<ul style="list-style-type: none"> FY19 District/County Maint. Spend: \$131 M FY19 Bridge Maint. Spend - \$112.7 M FY19 Equipment Costs - \$8.8 M FY19 Miles of Roadway Maint. - 120 K miles FY19 Bridge Inspection Count - 11.9 K 	<ul style="list-style-type: none"> FY19 % Structurally Deficient Bridges: 1.94%
OTA	<ul style="list-style-type: none"> FY19 Maint. Spend: \$19.3 M FY19 Bridge Maintenance Spend: \$180.6 K FY19 Trash Removal hours / spend: 44,656 hours / \$1.44 M FY19 Drainage Repairs hours / spend: 67,221 sq.. yards / \$829 K FY19 Brush & Weed Control hours / spend: 15,767 hours / \$675 K FY19 Vegetation Mgmt. hours / spend: 34,804 acres / \$650 K FY19 Asphalt Repairs hours / spend: 2,816 tons / \$300 K FY19 Concrete Repairs hours / spend: 644 cubic yards / \$1.04 M 	<ul style="list-style-type: none"> FY19 Drainage Culvert Inspection: 4,000 structures checked FY19 Bridge Inspections: 799 Bridges Inspected
OAC	N/A	N/A

Key Common IT Applications

Function	ODOT	OTA	OAC
Maintenance Management	Agile Assets	Hansen/ Vue Works	N/A
Bridge Maintenance	ASW Bridge Management	Hansen/ Vue Works	N/A
Project Management	N/A	QuickBase	N/A
Equipment Management	Equipment Watch	Hansen	N/A

IT Spend

\$1.9M ODOT

\$199K OTA

N/A OAC

Maintenance : Inter-Agency Comparison (2 of 4)

Sub-Function	Agency Maturity Assessment			Observations
	People & Organization	Process & Performance	Infrastructure	
<p>Maintenance Quality Assurance (MQA)</p> <ul style="list-style-type: none"> Implementation of systems to identify level of service targets and performance for Roadway Assets Alignment of Maintenance Budgets and Project Planning to MQA framework 	<p>ODOT</p> <p>OTA</p>	<p>ODOT</p> <p>OTA</p>	<p>ODOT</p> <p>OTA</p>	<ul style="list-style-type: none"> People - MQA traditionally resides within a centralized Maintenance division, however neither ODOT nor OTA has dedicated resources to a formal MQA System. OTA outsources a portion of an MQA system to the independent consulting engineer, Olsson, that annually evaluates the condition of OTA's culverts Process - No formal MQA framework exists at either ODOT or OTA. Thus, Maintenance budgets are historically based, and there is no consistent Agency wide approach to maintenance planning Process - Neither ODOT nor OTA have a comprehensive level of service targets for roadway and bridge features, and as a result KPIs are not available. OTA measures performance based on maintenance project completion (from annual plans) Infrastructure - ODOT and OTA have "industry standard" maintenance management software applications, AgileAssets and VueWorks. It appears that only VueWorks provides MQA capabilities
<p>Systems and Data Management</p> <ul style="list-style-type: none"> Capture and warehousing of all data from the field to enable relevant budget and performance monitoring and analysis 	<p>ODOT</p> <p>OTA</p>	<p>ODOT</p> <p>OTA</p>	<p>ODOT</p> <p>OTA</p>	<ul style="list-style-type: none"> People - ODOT relies on in-house and outsourced resources to manage Agile Assets. OTA mainly relies on in-house resources to support Hansen and VueWorks soon Process - Neither Agency has a policy or procedural framework to govern data quality, resulting in data integrity concerns. The volume and lack of data integration within ODOT limits the value of the data in driving decision-making. Data systems are in place to enable Districts to make more data informed decisions regarding maintenance projects and budgets, however, it does not appear that this data is being used consistently at the field district level Infrastructure - ODOT and OTA have "industry standard" maintenance management software applications, AgileAssets and VueWorks. AgileAssets is heavily customized and does not have built-in GIS capabilities

Note: OAC does not conduct Airport Maintenance planning or work. That resides with each individual Airports

Note: OAC does not conduct Airport Maintenance planning or work. That resides with each individual Airports

Maintenance : Inter-Agency Comparison (3 of 4)

Sub-Function	Agency Maturity Assessment			Observations
	People & Organization	Process & Performance	Infrastructure	
District & County Maintenance <ul style="list-style-type: none"> Oversees the preservation, upkeep, inspection, evaluation and restoration of roadways and structures 	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="background-color: #f4a460; padding: 5px; margin-bottom: 5px;">ODOT</div> <div style="background-color: #f4a460; padding: 5px;">OTA</div> </div> <p><i>Note: OAC does not conduct Airport Maintenance planning or work. That resides with each individual Airports</i></p>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="background-color: #ffff00; padding: 5px; margin-bottom: 5px;">ODOT</div> <div style="background-color: #ffff00; padding: 5px;">OTA</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="background-color: #4caf50; padding: 5px; margin-bottom: 5px;">ODOT</div> <div style="background-color: #4caf50; padding: 5px;">OTA</div> </div>	<ul style="list-style-type: none"> People – Both Agencies have a lot of turnover and issues with resource retention, especially at the junior staff level. Vacancies lead to back and forth between roles and responsibilities that must now be divided between a smaller pool Process – There is a lack of procedural documentation to guide maintenance work across ODOT and OTA. ODOT also lacks a project management framework to help manage the substantial amount of workload that the Agency is under. There also needs to be better coordination within both ODOT and OTA, so that construction decisions also factor into maintenance implications Infrastructure - ODOT and OTA have “industry standard” maintenance management software applications, AgileAssets and VueWorks
Bridge Maintenance <ul style="list-style-type: none"> Oversees the preservation, upkeep, inspection, evaluation and restoration of bridges 	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="background-color: #ffff00; padding: 5px; margin-bottom: 5px;">ODOT</div> <div style="background-color: #ffff00; padding: 5px;">OTA</div> </div> <p><i>Note: OAC does not conduct Airport Maintenance planning or work. That resides with each individual Airports</i></p>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="background-color: #ffff00; padding: 5px; margin-bottom: 5px;">ODOT</div> <div style="background-color: #ffff00; padding: 5px;">OTA</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="background-color: #4caf50; padding: 5px; margin-bottom: 5px;">ODOT</div> <div style="background-color: #4caf50; padding: 5px;">OTA</div> </div>	<ul style="list-style-type: none"> People – This function is being done at the District level within ODOT, with the Bridge Division providing subject matter expertise when required. OTA has this function mapped at the turnpike level to provide bridge maintenance authority Process – Although bridge condition KPIs have been defined and are tracked, there appears to be a lack of documentation to guide bridge maintenance. In addition, It would be beneficial for ODOT to retain a sub-set of bridge maintenance projects in-house so that the comprehensive expertise stays within the Agency. Within OTA Bridge Maintenance is more reactive than proactive. Actively trying to get back to bringing sufficiency rating up when conditions are deemed as to low Infrastructure - ODOT and OTA have “industry standard” maintenance management software applications, AASHTOWare Bridge Management and VueWorks

Maintenance : Inter-Agency Comparison (4 of 4)

Sub-Function	Agency Maturity Assessment			Observations
	People & Organization	Process & Performance	Infrastructure	
Equipment Management <ul style="list-style-type: none"> Purchasing and leasing equipment and vehicles Monitoring and conducting asset preservation efforts on heavy/light equipment and vehicles 	<div style="border: 1px solid black; background-color: yellow; padding: 5px; text-align: center;">ODOT</div> <div style="border: 1px solid black; background-color: yellow; padding: 5px; text-align: center;">OTA</div>	<div style="border: 1px solid black; background-color: yellow; padding: 5px; text-align: center;">ODOT</div> <div style="border: 1px solid black; background-color: green; padding: 5px; text-align: center;">OTA</div>	<div style="border: 1px solid black; background-color: yellow; padding: 5px; text-align: center;">ODOT</div> <div style="border: 1px solid black; background-color: yellow; padding: 5px; text-align: center;">OTA</div>	<ul style="list-style-type: none"> People – ODOT relies on an in-house team for all equipment management tasks, while OTA has a much smaller resource footprint that is adequate for its equipment management needs Process – OTA has a strong setup in the equipment space and efficient processes that allow for them to actively acquire any piece of equipment that they require in part due to minimal red-tape. They also have a staggered leasing program with guaranteed buybacks that allow for a younger fleet of equipment with potentially less maintenance costs. ODOT however has an equipment replacement budget far below their replacement needs, resulting in much older equipment that is less efficient and requires far more maintenance Infrastructure – ODOT is using an equipment management software application called EquipmentWatch for its equipment management needs. OTA is utilizing Hansen for equipment management and tracking. Apart from trying to maintain aging equipment, there isn't a significant gap in acquiring specific equipment from an ODOT perspective. OTA is lacking some specialized equipment (big milling, laydown machine, etc..) that they could potentially leverage from ODOT if necessary

Note: OAC does not conduct Airport Maintenance planning or work. That resides with each individual Airports

Key

Platform could be leveraged "as is"; Some strong practices

Platform functional; Upgrades driven by overall Modernization strategic prioritization

Platform in need of significant upgrade and/or support

TSMO: Focus Area Overview

Sub-Functions and Agency Breakdown

Sub-Functions	Key Responsibilities	ODOT Divisions	OTA Divisions	OAC Divisions
Traffic Data Collection	<ul style="list-style-type: none"> Collect Short term and long-term traffic counts, speed data, probe data, as well as turning movement counts 	SAPM Traffic	Toll Operations <i>(Consultant)</i>	N/A
Traffic/Safety Data Analytics	<ul style="list-style-type: none"> Provide traffic count and travel time reliability analysis and reporting Perform safety studies and work zone analysis 	SAPM Traffic	Finance <i>(Consultant)</i>	N/A
ITS/Real Time Traffic Management	<ul style="list-style-type: none"> Traffic/Safety Design Signal Phase and Timing Incident and emergency response Manage travel times and message boards Traffic safety/mobility elements of: <ul style="list-style-type: none"> - Work zone management - Road weather management 	Maintenance Traffic Districts	Engineering <i>(Consultants)</i> Information Technology	N/A
Operations	<ul style="list-style-type: none"> Fiber Optic expansion and maintenance Maintain ITS Network 	Maintenance	Information Technology	N/A

Sub-Functions Footnotes

ODOT		OTA		OAC	OAC does not execute any Sub-Functions in this Focus Area
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TSMO: ODOT Profile (1 of 2)

Dedicated Personnel and Budget

Sub-Function	Divisions	FTE / % Class*	Personnel Cost*	Consultant Cost**
Traffic Data Collection	SAPM Traffic	5.5 / 91%	\$641,364	\$ -
Traffic/Safety Data Analytics	SAPM Traffic	23.5 / 97%	\$2,559,761	\$ -
ITS/Real Time Traffic Management	Maintenance Traffic Districts	21.12/ 98%	\$2,279,449	\$753,868
Operations	Maintenance	11 / 45%	\$499,800	\$321,891
Leadership & Admin	All	11 / 100%	\$1,471,275	N/A
Total		72.12	\$7,451,649	\$1,075,759

Volume of Work

Measure	Value
# of ITS Network Sites	236
# Permanent Dynamic Message Signs	80
Miles of Fiber inspections/oversight	3100
FY19 Permanent Count Locations	86
FY19 Number of Manual Traffic Count Measurements - Short Term Volume	9,584
FY19 Number of Manual Traffic Count Measurements- Short Term Class	1,302

Performance

KPI	Definition	Measure
Traffic Fatalities	Number of fatalities on all roadways – CY19	414
Fatality Rate	Number of Fatalities per 100 Million Vehicle Miles of Travel – CY19	1.05
Serious Injury Rate	Serious Injury Rate per 100 Million Vehicle Miles of Travel – CY19	3.66
Travel Time Reliability	Percent of reliable person-miles traveled on the Interstate – CY19	93%

TSMO: ODOT Profile (2 of 2)

IT Capabilities

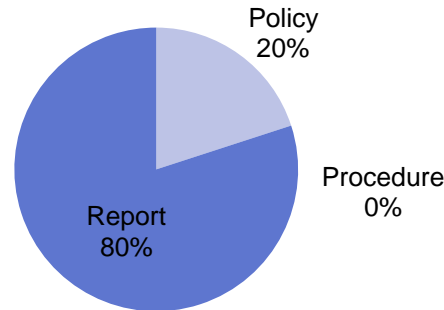
Key Applications	Function	Annual Cost*
EXFO	Used to monitor fiber optic networks	\$21K
Houston Radar Tetryon	Traffic count data management and analytics platform	\$10K
Info Group Data	Used to create shapefiles for Traffic Analysis Zones	\$10K
PTV Vissim Traffic	Traffic simulation and modeling program	\$7K



Policies and Procedures Documents

Key Policies and Procedures

- [Oklahoma Statewide Intelligent Transportation Systems Strategic Plan \(2003\)](#)
- [Oklahoma Strategic Highway Safety Plan](#)



Pain Points

People

Infrastructure

Process

People	<ul style="list-style-type: none"> • Parts of TSMO/ITS span multiple divisions, which causes some silos to exist • Small staff, which makes it difficult to balance the day-to-day operations and innovation • Job classifications for ITS Branch limits job advancement • Lack of dedicated funding to expand and maintain the Department's ITS/Fiber network • Lack of communication around roles and who is responsible for which aspects of the work
Process	<ul style="list-style-type: none"> • Need better analytics to build work zones, rather than basing those decisions on a "best guess" of traffic patterns • Limited access to real time data needed to actively manage the system • TSMO is often an afterthought in the design process, and not strategically implemented • Processing Purchase Orders (POs) related to maintenance and servicing of the department's fiber network
Infrastructure	<ul style="list-style-type: none"> • Getting access to specialized software is not a smooth process since need to work with both OMES and the Office Services division

TSMO: OTA Profile (1 of 2)

Dedicated Personnel and Budget

Sub-Function	Divisions	FTE / % Class*	Personnel Cost*	Consultant Cost**
Traffic Data Collection	Toll Operations (Consultant)	0	N/A	N/A
Traffic/Safety Data Analytics	Finance (Consultant)	0	N/A	\$270,000
ITS/Real Time Traffic Management	Engineering (Consultants)	0	N/A	N/A
Operations	Information Technology	4.25 / 0%	\$482,216	\$180,000
Leadership & Admin	All	0	N/A	N/A
Total		4.25	Hidden	\$450,000

Volume of Work

Measure	Value
# of Tolling Stations – FY19	75
# Permanent Dynamic Message Signs – FY19	2
Miles of Fiber inspections/oversight – FY19	394.6 Total Miles (7 miles added in 2019)

Performance

KPI	Definition	Performance Measurement
Traffic Fatalities	Number of fatalities on all roadways – CY19	19
Fatality Rate	Number of Fatalities per 100 Million Vehicle Miles of Travel - CY19	0.67
Serious Injury Rate	Serious Injury Rate per 100 Million Vehicle Miles of Travel – CY19	1.78

TSMO: OTA Profile (2 of 2)

IT Capabilities

Key Applications	Function	Annual Cost*
WhatsUp Gold/WUG	Fiber Network Monitoring	\$-
Power BI	Shows Traffic Counts by Class and Payment Type	\$ -



Number of Applications



% Tailored/User-Developed

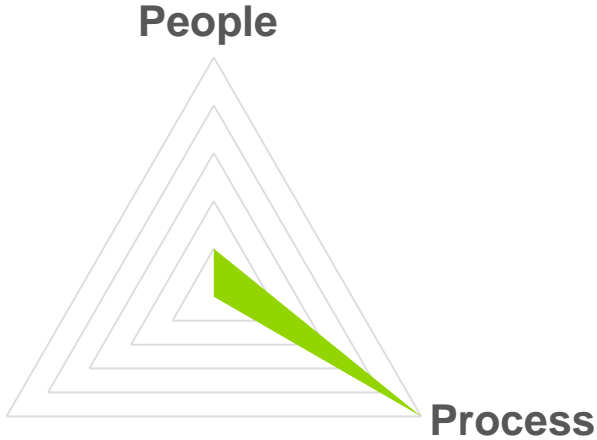


Total Annualized Cost

Policies and Procedures Documents

Key Policies and Procedures
No Policies or Procedures were provided

Pain Points



People	<ul style="list-style-type: none"> Other divisions don't always communicate with IT, which is why networking is often not included in construction projects
Process	<ul style="list-style-type: none"> Networking is always last in construction projects and often forgotten in projects Challenge to get sites ready and ahead for fiber construction TSMO is not considered during the design process due to a lack of communication/processes with IT
Infrastructure	<ul style="list-style-type: none"> OTA has much of the data collection and ITS infrastructure in place to support TSMO activities, but is not currently using this infrastructure for those purposes

Critical Pain Point

TSMO: Inter-Agency Comparison (1 of 3)

Dedicated Personnel and Budget

	FTE	Classified	Personnel – Costs*	Consultant – Cost**
ODOT	72.1	89%	\$7.5M	\$1.1M
OTA	4.2	0%	Hidden	\$450K
OAC	0	N/A	N/A	N/A
Total	76.3	84%	\$7.9M	\$1.5M

Key Common IT Applications

Function	ODOT	OTA	OAC
Traffic Data Management	Houston Radar Tetryon	N/A	N/A
Traffic Forecasting	Vissim Synchro	N/A	N/A
Collision Analytics	SAFE-T	N/A	N/A
Fiber Network Monitoring	EXFO	WUG	N/A

IT Spend

\$51.8K ODOT

\$- OTA

N/A OAC

Volume and Performance

Agency	Volume	Performance
ODOT	<ul style="list-style-type: none"> # of ITS Network Sites: 236 # Permanent Dynamic Message Signs: 80 Miles of Fiber inspections/oversight: 3100 FY19 Permanent Count Locations: 86 FY19 Manual Traffic Count Measurements - Short Term Volume: 9,584 FY19 Manual Traffic Count Measurements- Short Term Class: 1,302 	<ul style="list-style-type: none"> CY19 Traffic Fatalities: 414 CY19 Fatality Rate: 1.05 CY19 Serious Injury Rate: 3.66 CY19 Travel Time Reliability: 93%
OTA	<ul style="list-style-type: none"> # of Tolling Stations : 75 # Permanent Dynamic Message Signs: 2 Miles of Fiber inspections/oversight: 394.6 	<ul style="list-style-type: none"> CY19 Traffic Fatalities: 19 CY19 Fatality Rate: 0.67 CY19 Serious Injury Rate: 1.78
OAC	N/A	N/A

TSMO: Inter-Agency Comparison (2 of 3)

Sub-Function	Agency Maturity Assessment			Observations
	People & Organization	Process & Performance	Infrastructure	
Field Traffic Data Collection <ul style="list-style-type: none"> Collect Short term and long-term traffic counts, speed data, probe data, as well as turning movement counts 	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="background-color: #f4a460; padding: 5px; margin-bottom: 5px;">ODOT</div> <div style="background-color: #ffff00; padding: 5px;">OTA</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="background-color: #f4a460; padding: 5px; margin-bottom: 5px;">ODOT</div> <div style="background-color: #f4a460; padding: 5px;">OTA</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="background-color: #ffff00; padding: 5px; margin-bottom: 5px;">ODOT</div> <div style="background-color: #008000; padding: 5px;">OTA</div> </div>	<ul style="list-style-type: none"> People – ODOT and OTA rely on receiving traffic collision data from OHP/OHSO/DPS and ODOT’s SAPM division collects and manages traffic counts. ODOT’s traffic division also collects speed data, so parts of this function occur in multiple divisions Process – ODOT’s traffic division has limited access to real time/probe data, which is needed for real time traffic management and TSMO purposes. OTA has access to real time traffic volume data, but the data is not being used to actively manage the system, just for finance/revenue purposes. Additionally, data sharing between Finance and Engineering is not streamlined and the data is siloed Infrastructure – ODOT has automatic count stations, as well as manual traffic count equipment to collect data. OTA has the infrastructure and real-time data that can be leveraged for TSMO purposes, including origins/destinations data from PIKEPASS transponders, tag readers and sensors, and CCTV cameras at toll areas, but it is not being used for TSMO purposes Infrastructure – ODOT lacks a centralized and accessible data and storage system needed to easily access real-time data
Traffic/Safety Data Analytics <ul style="list-style-type: none"> Provide traffic count and travel time reliability analysis and reporting Perform safety studies and work zone analysis 	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="background-color: #f4a460; padding: 5px; margin-bottom: 5px;">ODOT</div> <div style="background-color: #f4a460; padding: 5px;">OTA</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="background-color: #f4a460; padding: 5px; margin-bottom: 5px;">ODOT</div> <div style="background-color: #ffff00; padding: 5px;">OTA</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="background-color: #f4a460; padding: 5px; margin-bottom: 5px;">ODOT</div> <div style="background-color: #ffff00; padding: 5px;">OTA</div> </div>	<ul style="list-style-type: none"> People – ODOT’s Safety branch within the Traffic Division code collision data and send the data to OU to perform safety analysis, which is used to make smarter safety design decisions. Additionally, ODOT performs OTA’s safety studies since there are no dedicated resources at OTA to perform analysis Process – ODOT performs OTA’s safety studies, which is then reported to NHTSA by the Traffic Division. Traffic performance metrics are reported to FHWA by SAPM. Need better analytics to build work zones, rather than basing those decisions on a “best guess” of traffic patterns Infrastructure – ODOT’s SAFE-T Program/collision analytics software is outdated

Note: OAC does not conduct Operations/TSMO work

Note: OAC does not conduct Operations/TSMO work

Key

Platform could be leveraged “as is”; Some strong practices

Platform functional; Upgrades driven by overall Modernization strategic prioritization

Platform in need of significant upgrade and/or support

TSMO: Inter-Agency Comparison (3 of 3)

Sub-Function	Agency Maturity Assessment			Observations
	People & Organization	Process & Performance	Infrastructure	
<p>ITS/Real Time Traffic Management</p> <ul style="list-style-type: none"> Traffic/Safety Design Signal Phase and Timing Incident and emergency response Manage travel times and message boards Traffic safety/mobility elements of: <ul style="list-style-type: none"> Work zone management Road weather management 	<p>ODOT</p> <p>OTA</p>	<p>ODOT</p> <p>OTA</p>	<p>ODOT</p> <p>OTA</p>	<ul style="list-style-type: none"> People – ITS functionality is split between ODOT’s Traffic and Maintenance Divisions. Maintenance focuses more on DMS and messaging, weather conditions, travel time. Whereas Traffic Division focuses on safety, smart work zones, and traffic signals People – ODOT doesn’t have the resources to fully execute on <i>Real Time Traffic Management</i>. There are no staff resources devoted to the Virtual TMC. Additionally, Maintenance Division’s in-house forces are primarily dedicated to the Fiber optic expansion and maintenance. OTA does not do any <i>Real Time Traffic Management</i> Process – Processes are not integrated across the two ODOT Divisions, and the Virtual TMC is still immature. While processes are individually functional, they are not integrated / documented Infrastructure – Traffic signals are maintained by municipalities, but ODOT should maintain these because many rural areas don’t have the resources to maintain them/hire engineers
<p>Operations</p> <ul style="list-style-type: none"> Fiber Optic expansion and maintenance Maintain ITS Network 	<p>ODOT</p> <p>OTA</p>	<p>ODOT</p> <p>OTA</p>	<p>ODOT</p> <p>OTA</p>	<ul style="list-style-type: none"> People – Maintenance Division ITS staff are focused more on expansion and maintenance of the infrastructure network (fiber network, etc..). ODOT provides this support to OTA currently, however, the workload requires a dedicated OTA resource People – Job classifications for Maintenance ITS Branch limits job advancement People – When it comes to planning/installing of ITS network, there may be duplication of work with conflicting results because divisions are not communicating frequently Process – Although ODOT has multiyear plans for wireless (4 – year) and ITS fiber (5 – year) projects, it has historically, lacked dedicated funding. As a result, funding is secured on a project basis to expand and maintain the Department’s ITS/Fiber network Infrastructure – ODOT’s Maintenance division outsources to OU, hardware and software support for road and weather conditions, dynamic message boards, MobileApp, and snow-plow tracking. OTA’s IT division outsources all fiber to telecommunications companies

Note: OAC does not conduct Operations/TSMO work

Note: OAC does not conduct Operations/TSMO work

Key

Platform could be leveraged “as is”; Some strong practices

Platform functional; Upgrades driven by overall Modernization strategic prioritization

Platform in need of significant upgrade and/or support

Customer Service: Focus Area Overview

Sub-Functions and Agency Breakdown

Sub-Functions	Key Responsibilities	ODOT Divisions	OTA Divisions	OAC Divisions
Customer Service	<ul style="list-style-type: none"> Respond to general citizen and elected official requests Respond to and manage citizen litter calls Manage Agency social media Manage call center and store services related to PIKEPASS account creation, transponder distribution, payments, toll violation processing and resolution support 	Media & Public Relations Districts	Customer Service	N/A

Sub-Functions Footnotes

ODOT <ul style="list-style-type: none"> ODOT does not have Call Centers or Store Services OTA handles all litter calls 	OTA	OAC
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Customer Service: ODOT Profile (1 of 2)

Dedicated Personnel and Budget

Sub-Function	Divisions	FTE / % Class*	Personnel Cost*	Consultant Cost**
Customer Service	Media & Public Relations; Districts	8.75 / 100%	\$711,432	\$ -
Leadership and Administrative	All	0	N/A	\$ -
At Large Vacancies	All	0	N/A	\$ -
Total		8.75	\$711,432	\$-

Volume of Work

Measure	Value
Number of Twitter Social Media Followers	37,814
Number of Twitter Posts	43,484
Number of emails received in generic email inbox	N/A

Performance

KPI	Definition	Measure
ODOT does not have specific customer service KPIs		

Customer Service: ODOT Profile (2 of 2)

IT Capabilities

Key Applications	Function	Annual Cost*
Hootsuite	Used for managing and monitoring all social media profiles	\$12K



Number of Applications



% Tailored/User-Developed

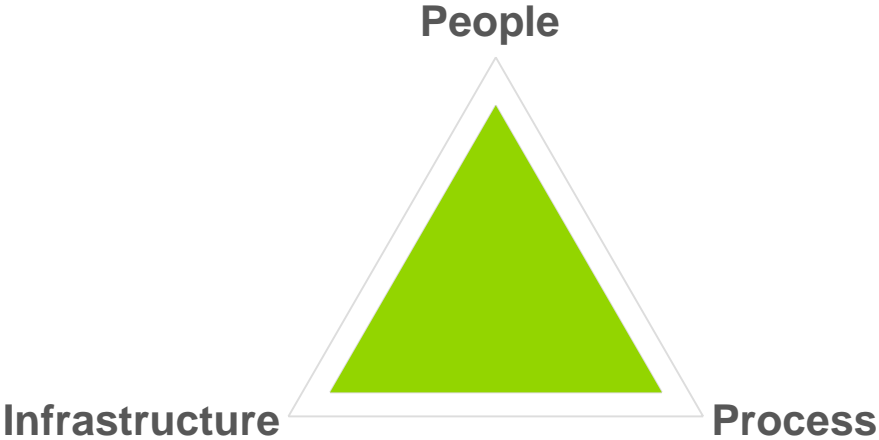


Total Annualized Cost

Policies and Procedures Documents

Key Policies and Procedures
No Policies or Procedures were provided

Pain Points



People	<ul style="list-style-type: none"> Resolving citizen issues takes up a lot of the Field District's Construction/Maintenance Engineers' times, which is not their main role, so more support is needed Social media has grown a lot recently but it's a challenge to stay up to date with the volume and changing technology environment Lack of a dedicated video content development group
Process	<ul style="list-style-type: none"> No guiding customer service strategy No standard processes for managing, tracking, or resolving customer inquiries within Districts, as a result, calls and emails may not get routed to the right people No KPIs to measure customer responsiveness or satisfaction, or ROI of engagement posts
Infrastructure	<ul style="list-style-type: none"> No CRM/system to track and manage customer inquiries from inception to resolution. As a result, it's not clear if, or how quickly, customer calls or emails are resolved

Critical Pain Point

Customer Service: OTA Profile (1 of 2)

Dedicated Personnel and Budget

Sub-Function	Divisions	FTE / % Class*	Personnel Cost*	Consultant Cost**
Customer Service	Customer Service	99 / 82%	\$5,358,148	\$1,245,024
Leadership & Administrative	All	6 / 33%	\$696,615	\$ -
Total		105	\$6,054,763	\$1,245,024

Volume of Work

Measure	Value
Avg number of daily calls handled in 2019	~3,200
Number of Litter Calls Received in 2019	489
Total Number of active PIKEPASS tags	1.9M

Performance

KPI	Definition	Measure
Calls Handled	Percentage of all customer service calls handled	96%
Quality Assurance	Quality Assurance measures the quality of each call, measuring tone, empathy, and correct information	94%
Average Speed of Answer	Average time it takes for a customer to speak with a customer service representative	1:00
Average Handle Time	Average time spent with a customer on a call	5:00 – 6:00
Overall Customer Service Satisfaction	Average customer satisfaction score for overall service	4.91/5.00

Customer Service: OTA Profile (2 of 2)

IT Capabilities

Key Applications	Function	Annual Cost*
inContact	Software used for tracking calls and runs the phone queues for Call Center	\$376K
Power BI	Dashboard reporting	\$ -
MS Excel	Used for scheduling activities	\$ -



Number of Applications



% Tailored/User-Developed

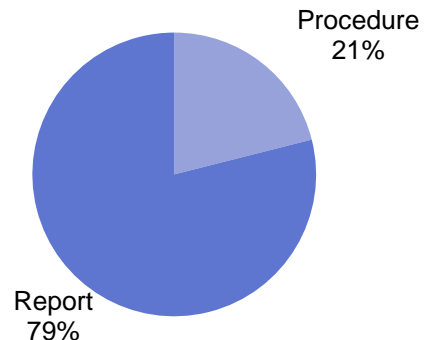


Total Annualized Cost

Policies and Procedures Documents

Key Policies and Procedures

- [PIKEPASS Business Rules & Procedures](#)
- [PIKEPASS Functional Responsibilities](#)



Pain Points

People

Infrastructure

Process

People	<ul style="list-style-type: none"> • Hiring/Retaining Employees is a challenge as Table of Organization cap limits human capital needs to temporary employees. Moreover, it is difficult to fill vacancies or move people because of regulatory obstacle hurdles • Training: Limited ability to control training prioritization which impacts vacancies and retention • Leadership may not recognize the importance of customer service which impacts resource levels and accentuates knowledge gap
Process	
Infrastructure	<ul style="list-style-type: none"> • Difficult to secure IT customer support sufficient to meet business needs • Current customer service technology is tailored for a more mature community, rather than for younger customers that would like more self-service options • Lack of real-time dashboards limits reporting responsiveness or agile project management and coordination. Working to secure PowerBI from IT to improve this capability • Real time access to Accounting Systems is limited, narrowing perspective of budget/accounts/payment/invoices for toll operations

Critical Pain Point

Customer Service : Inter-Agency Comparison (1 of 2)

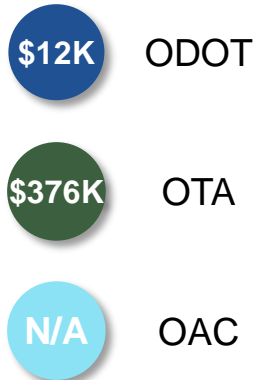
Dedicated Personnel and Budget

	FTE	Classified	Personnel – Costs*	Consultant – Cost**	Facilities
ODOT	8.8	100%	\$711K	\$0	4
OTA	105	79%	\$6.1M	\$1.2M	1
OAC	0	N/A	N/A	N/A	N/A
Total	113.8	80%	\$6.8M	\$1.2M	5

Key Common IT Applications

Function	ODOT	OTA	OAC
Call Center Management	N/A	inContact	N/A
Dashboards	N/A	Power BI	N/A
Social Media Management	Hootsuite	N/A	N/A

IT Spend



Volume and Performance

Agency	Volume	Performance
ODOT	<ul style="list-style-type: none"> Twitter Social Media Followers: 37,814 Twitter Posts: 43,484 Emails received in generic email inbox: N/A 	N/A
OTA	<ul style="list-style-type: none"> Twitter Social Media Followers: 11,900 Twitter Posts: 4,045 Avg number of daily calls handled: ~1,900 Litter Calls Received in 2019: 489 Active PIKEPASS tags: 1.9M 	<ul style="list-style-type: none"> Calls Handled: 96% Quality Assurance: 94% Average Speed of Answer: 1:00 Average Handle Time: 5:00-6:00 Overall Customer Service Satisfaction: 4.91/5.00
OAC	N/A	N/A

* FTE, Classification, and Personnel Costs – Sourced from Agency provided Personnel files as of July 2020

** Consultant Costs – FY19 consultant costs

Customer Service: Inter-Agency Comparison (2 of 2)

Sub-Function	Agency Maturity Assessment			Observations
	People & Organization	Process & Performance	Infrastructure	
<p>Customer Service</p> <ul style="list-style-type: none"> Respond to general citizen and elected official requests Respond to and manage citizen litter calls Manage Agency social media Manage call center and store services related to PIKEPASS account creation, transponder distribution, payments, toll violation processing and resolution support 	<p>ODOT</p> <p>OTA</p>	<p>ODOT</p> <p>OTA</p>	<p>ODOT</p> <p>OTA</p>	<ul style="list-style-type: none"> People – No centralized general customer service at ODOT. Marketing/Communications and Field District staff respond to customers at ODOT. OTA Customer Service Division handles PIKEPASS issues, not general customer service related to roads, which is handled by Communications/Maintenance staff People – OTA’s Customer Service staff are also performing activities that are typically done by back-office support Process – ODOT does not have a strategy, processes, or KPIs related to customer service. OTA customer service does have processes and KPIs in placed related to PIKEPASS, but not necessarily around general roadway customer service. OTA Maintenance leadership report that they receive customer complaints via email, and they are handled within 5 business days. However, it’s not clear the origin of the emails and resolution is not tracked Infrastructure – ODOT has an email account which citizens can respond to but does not track inquiries/resolutions through any tool. OTA tracks all call center PIKEPASS but does not track general customer service from inquiry to resolution. VueWorks may have the capability to track inquiries to resolution Infrastructure – OTA currently utilizes inContact, which is an OMES owned call center software, but are actively looking to move away from the platform. OTA makes it convenient for customers to make payment transactions over the phone or in person, which can also be completed online by the customer. Automation could enable staff to provide more general support to customers
	<p>Note: OAC does not have a dedicated apparatus to manage customer service</p>			

Finance: Focus Area Overview

Sub-Functions and Agency Breakdown

Sub-Functions	Key Responsibilities	ODOT Divisions	OTA Divisions	OAC Divisions
Accounts Payable	<ul style="list-style-type: none"> Manages invoicing and vendor payments Creates journal entries for General Ledger Approves requisition requests for funding 1099 and 1099-S reporting 	Comptroller (Accounting)	Controller (Accounts Payable)	Chief Operating Officer / Deputy Operating Officer
Budget	<ul style="list-style-type: none"> Creates and compiles budget from Agency divisions Tracks annual budget Distribution of reports and expenditure tracking 	Comptroller (Budget and Reporting)	Finance (Budget Analyst) Controller	Chief Operating Officer / Deputy Operating Officer
Payroll	<ul style="list-style-type: none"> Processes payroll for payment Validates employee hours tracking Prepares pension & Other Post-Employment Benefits (OPEB) journal entries (OTA Only) 	Comptroller (Accounting)	Controller	OMES/COO
Project Finance	<ul style="list-style-type: none"> Manages project funding Tracks project financials State and federal project funding (ODOT) 	Comptroller (Project Accounting)	N/A	Chief Operating Officer / Grants Administrator
Project Finance (OTA)	<ul style="list-style-type: none"> Procurement of funding Enterprise management service Legislative requests Management Services Traffic Analytics Strategic planning and forecasting 	N/A	Finance	N/A

Sub-Function Footnotes

ODOT		OTA		OAC	
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Finance: Focus Area Overview

Sub-Functions and Agency Breakdown

Sub-Functions	Key Responsibilities	ODOT Divisions	OTA Divisions	OAC Divisions
Reporting	<ul style="list-style-type: none"> GAAP reporting (CAFR, quarterly bondholders) Monthly trust reporting - OTA Only Additional Financial reporting (CAFR, asset reporting) Creates journal entries for General Ledger 	Comptroller (Budget and Reporting)	Controller	Chief Operating Officer / Deputy Operating Officer
Revenue	<ul style="list-style-type: none"> Customer service manages payment intake (OTA Only) Toll collection proceeds (OTA Only) Accounts receivable (revenue and construction for OTA) Account reconciliations Managing revenue stream (tax revenue, state & federal funds) Acquires funding for projects (state and federal funding, bond proceeds drawdown) 	Comptroller (Budget and Reporting)	Customer Service Toll Division Controller	Chief Operating Officer / Deputy Operating Officer
Revenue Assurance (OTA)	<ul style="list-style-type: none"> Acquires funding for projects Secures revenue stream to pay off debt (Tolls, bonds) Bondholder relationships Trust related activities 	N/A	Finance	N/A
Right of Way (ROW) Accounting	<ul style="list-style-type: none"> Clears ROW prior to construction Sets up and manages ROW projects Accounts for and reports on depreciable and non-depreciable asset 	Comptroller (ROW Accounting)	Controller	N/A

Sub-Function Footnotes

ODOT	• N/A	OTA	• N/A	OAC	• ROW accounting
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Finance: ODOT Profile (1 of 2)

Dedicated Personnel and Budget

Sub-Function	Divisions	FTE / % Class*	Personnel Cost*	Consultant Cost**
Accounts Payable / Payroll	Comptroller	19 / 100%	\$1,931,479	-
Budget & Reporting	Comptroller	8 / 0%	\$760,568	\$66,648
Project Finance	Comptroller	12 / 100%	\$1,130,483	-
Revenue	Comptroller	4 / 100%	\$388,907	-
ROW Accounting	Comptroller	7 / 100%	\$721,127	-
Vacant	Comptroller	15 / 93%	\$1,457,681	-
Total		65	\$6,390,245	\$66,648

Volume of Work

Measure	Value
Zero variance for budget by year end	\$1.2B Total \$1B Capital \$200M Operating
Number of project invoices processed monthly	10-15 invoices
Number of claims processed annually	40.6K claims
GAAP accounting season packets prepared	17-23 packets
Average projects created in system annually	1205 projects

Performance

KPI	Definition	Performance Measurement
Timeliness of reports <ul style="list-style-type: none"> Budget Financial Reporting 	Submitting reports on or before the due date	<ul style="list-style-type: none"> 100% Timeliness
Accuracy of <ul style="list-style-type: none"> Billing Requisitions Journal Entries (JVs) Deferred revenue 	Reports have few errors after submitted for approval	<ul style="list-style-type: none"> FHWA Billing: 96.16-98.08% accuracy Bonds: 92.01-95% accuracy Deferred Revenue: 92.01-95% accuracy
Invoice/claims processing time	Turnaround time	<ul style="list-style-type: none"> 6 days turnaround time for claims Prior JVs submitted in under 10 days
Payroll hours validation	Validating employee hours	<ul style="list-style-type: none"> Monitored until 100% accurate

Finance: ODOT Profile (2 of 2)

IT Capabilities

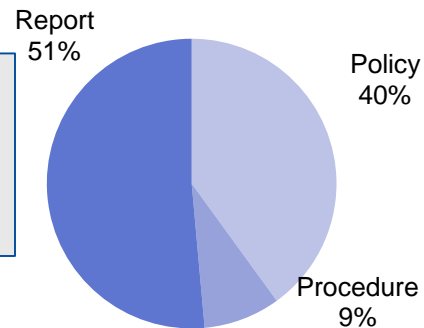
Key Applications	Function	Annual Cost*
ODOT mainframe	Financial tracking system from the 1980s for data entry and storage	\$1.2M
Peoplesoft Financials	State finance tracking system	\$50K
Oracle BI	Report Generation	\$59K
BIS	Document scanning	\$28K
Application Xtender	Document Storage	\$-
Grooper	Document management and automation	\$500K



Policies and Procedures Documents

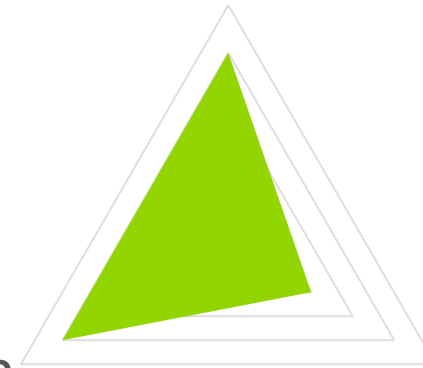
Key Policies and Procedures

- Standardized accounts payable procedures across all Districts
- Standardized accuracy and timeliness measures for reporting
- Strict segregation of duties



Pain Points

People



Infrastructure

Process

People & Organization	<ul style="list-style-type: none"> Difficult to have a career path in an environment where demographics are very tenured, not a lot of movement up Lack of documentation given level of people retiring/leaving the Agency Lack of ability to measure people performance; people's strengths are not fully utilized Division budget request management could be improved
Process & Procedures	<ul style="list-style-type: none"> Inefficiency between Payroll in comptroller and HR No process to capture knowledge and standard work Budget process is inefficient, processes are siloed Lacking organization-wide KPI measures (vs individual PMPs)
Infrastructure	<ul style="list-style-type: none"> Need infrastructure to increase automation, especially to connect the front end (budget, requests, invoice), with the back end (accounts payable) Double entry into ODOT mainframe and OMES Peoplesoft Financials system Significant number of paper and manual processes ODOT relies on OMES for all Application Xtender changes, and they do not have access to make any changes themselves

Critical Pain Point

Finance: OTA Profile (1 of 2)

Dedicated Personnel and Budget

Sub-Function	Divisions	FTE / % Class	Personnel Budget	Consultant Cost**
Accounts Payable	Controller	4 / 100%	Hidden	-
Budget & Reporting	Finance	2 / 0%	Hidden	\$270,000
Payroll	Controller	3 / 33%	Hidden	-
Project Finance	Finance	1 / 0%	Hidden	-
Revenue	Controller Finance	4 / 0%	Hidden	-
Leadership	Controller Finance	3 / 0%	Hidden	\$2,090,000
Vacant	Controller Finance	2 / 0%	Hidden	-
Total		19	\$1,871,479	\$2,360,000

Volume of Work

Measure	Value
Volume of payments	Monthly: 70 checks generated, 300-400 PikePass refund checks, 900-1100 revolving checks, 150 requisitions
Number of payroll payments processed monthly	515-520 payments

Performance

KPI	Definition	Performance Measurement
Bond Rating	Yearly rating from bondholders	<ul style="list-style-type: none"> Highest bond rating
Accuracy of <ul style="list-style-type: none"> Financial Statements CAFR 	Accuracy of reports	<ul style="list-style-type: none"> Has won awards for GFOA annually
Timeliness of reports: <ul style="list-style-type: none"> Payroll Invoices 	Reports submitted on time	<ul style="list-style-type: none"> Payroll: must be submitted to OMES 5 days before payday Invoices: Paid the week after it's received
Payroll hours accuracy	Accuracy of employee hours before entry into Peoplesoft	<ul style="list-style-type: none"> ~100%

Finance: OTA Profile (2 of 2)

IT Capabilities

Key Applications	Function	Annual Cost*
Platinum Epicor (includes Crystal)	Accounting software	\$40K
Spreadsheet Server/Budget Accelerator	Storage of spreadsheets	\$22K

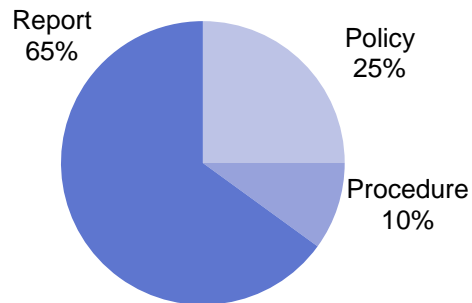
Additional key apps: Insight, Sage (Fixed Asset), Violation Enforcement System, PlatePay system, CE, Kronos, Host (KEY), EPPS, Sign Now, Adobe, Spreadsheet Server



Policies and Procedures Documents

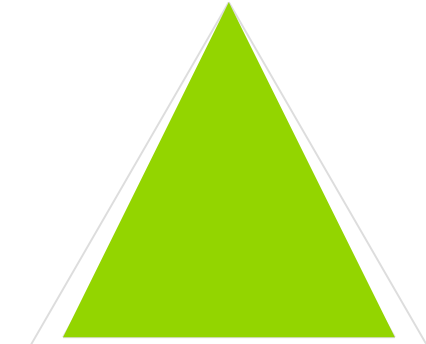
Key Policies and Procedures

- Reports: Budget, CAFR
- Recorded significant Operating Accounting Policies
- Monthly tracking of account balances
- Credit Card transaction summaries



Pain Points

People



Infrastructure

Process

People	<ul style="list-style-type: none"> • Everyone wears many hats; staff is stretched thin, rely on heroics; no ability to take on more initiatives with existing resources • Lack of documentation given people retiring/leaving the Agency, need to capture tribal knowledge • Compensation impacting turnover and skilled hires (Controller and Finance) • People are spread thin; don't have time to document processes or participate in trainings
Process	<ul style="list-style-type: none"> • Standardization for budget practice coaching within different OTA divisions • End-to-end mapping of AP would be beneficial • KPIs not formally tracked in many areas • Revenue calculation is very manual • Workload and expectations • Information is siloed in some areas (e.g. mistakenly turned IVIS on at a Turnpike then it drastically changed the financial reports but no communication with Finance division)
Infrastructure	<ul style="list-style-type: none"> • Need increased level of automation to increase efficiency (Power BI Dashboard for near-real-time budget viewing in TEST mode currently) • IT that supports end-to-end mapping of Accounts Payable process is cumbersome and needs to be automated • 150 people without employee self-service access to earning statements

Critical Pain Point

Finance: OAC Profile (1 of 2)

Dedicated Personnel and Budget

Sub-Function	Divisions	FTE / % Class	Personnel Budget	Consultant Cost**
Accounts Payable	Operations	1 / 0%	Hidden	-
Budget & Reporting	Operations	0.4 / 0%	Hidden	-
Payroll	OMES/Operations	0.1 / 0%	Hidden	-
Project Finance	Operations	0^	Hidden	-
Revenue	Operations	0.5 / 0%	Hidden	-
Total		2	Hidden	-

^OAC Project finance is accounted for in Project Setup in the Construction focus area

Volume of Work

Measure	Value
Revenue from taxes monthly	~\$350K/month
Annual P-card transactions	~170 transactions/year
Annual budget breakdown	83% Airport assistance 11% Admin/operations 5% Aviation education program 1% IT expenses
Number of open projects being managed	~50 projects

Performance

KPI	Definition	Performance Measurement
Timeliness of reports <ul style="list-style-type: none"> Quarterly Budget Financial Reporting 	Submitting reports on or before the due date	<ul style="list-style-type: none"> 100% Timeliness
Invoice Turnaround Time	Vendor payment invoice	<ul style="list-style-type: none"> Processed within 5 days
Travel Expense Turnaround Time	Expense reports related to travel	<ul style="list-style-type: none"> Processed within 2 days

Finance: OAC Profile (2 of 2)

IT Capabilities

Key Applications	Function	Annual Cost*
Peoplesoft Financials	State finance tracking system	\$ -
Microsoft Suite	Excel used to record data and reports	\$ -

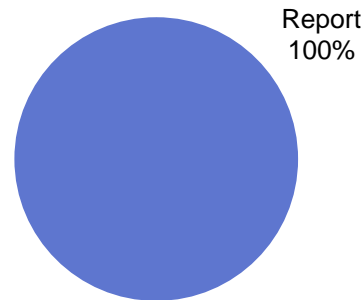
OAC IT costs centralized in IT focus area



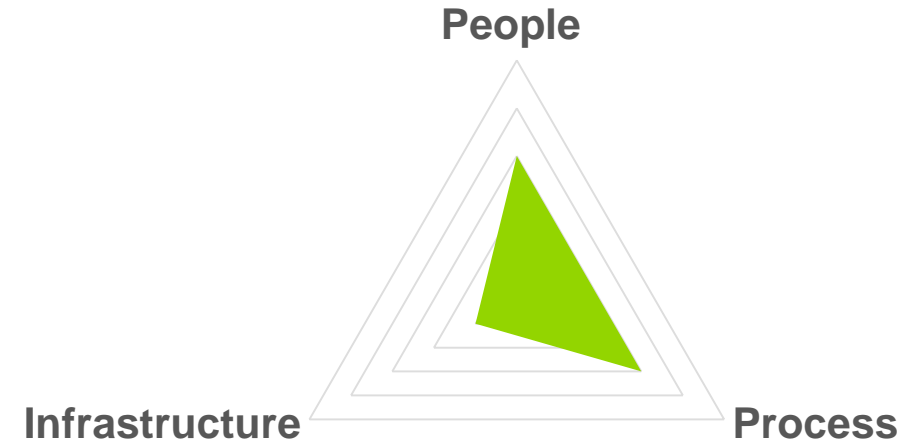
Policies and Procedures Documents

Key Policies and Procedures

- [FY21 Budget Report](#)
- [Quarterly budget reports to state](#)
- [Uses state templates and processes for financial reporting](#)
- [Financial Reporting to Commission](#)



Pain Points



People	<ul style="list-style-type: none"> • Only two people managing all operations, short staffed and everyone wears multiple hats • Need for additional cross-training
Process	<ul style="list-style-type: none"> • Few KPIs • Balancing hitting milestones while achieving the day-to-day
Infrastructure	<ul style="list-style-type: none"> • Financial reporting in Excel could be formalized

Critical Pain Point

Finance: Inter-Agency Comparison (1 of 3)

Dedicated Personnel and Budget

	FTE	Classified	Personnel – Costs*	Consultant – Cost**
ODOT	65	100%	\$6M	\$67K
OTA	19	22%	\$2M	\$2M
OAC	2	0%	Hidden	-
Total	86	80.7%	\$8M	\$2.4M

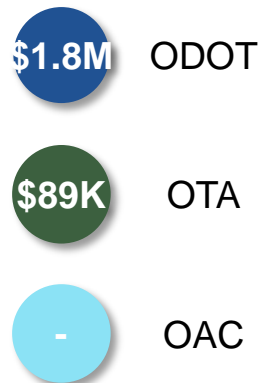
Volume and Performance

Agency	Volume	Performance
ODOT	<ul style="list-style-type: none"> # of Annual Claims: 40.6K # of Annual GAAP accounting season packets prepared: ~20k # of monthly project invoices processed: 10-15 	<ul style="list-style-type: none"> Turnaround time for processing claims: 6-day Payroll hours validation accuracy: 100% Billing, requisitions, Journal entry accuracy rate: 92-98%
OTA	<ul style="list-style-type: none"> # of monthly checks generated: ~70 # of monthly PikePass refund checks : 300-400 # of monthly revolving checks monthly: 300-400 # of monthly requisitions: ~150 	<ul style="list-style-type: none"> Payroll hours validation accuracy: 100% High accuracy of financial statements Accounting awards annually
OAC	<ul style="list-style-type: none"> # of annual P-card transactions: ~170 # of concurrent open projects being managed: ~50 	<ul style="list-style-type: none"> Timeliness on quarterly budget and financial reporting: 100% Turnaround time for invoices: 5 days Processing time for travel expense reports: 2 days

Key Common IT Applications

Functionality	ODOT	OTA	OAC
Financial Reporting/ payroll	Peoplesoft Financials/ TSO (ODOT Mainframe)	Peoplesoft Financials	Peoplesoft Financials
Financial Tracking/ Accounting	TSO (ODOT Mainframe)	Platinum Epicor	Peoplesoft Financials
Report generation	Oracle BI	Power BI, Spreadsheet Server, Crystal, SSRS	Excel
Budgeting software	Equipment Watch	Budget Accelerator	Peoplesoft Financials

IT Spend



Finance: Inter-Agency Comparison (2 of 3)

Sub-Function	Agency Maturity Assessment			Supporting Observations
	People & Organization	Process & Performance	Infrastructure	
Revenue <ul style="list-style-type: none"> Accounts receivable Acquires funding for projects Account reconciliations Managing revenue stream (Tolls, bonds, tax revenue) 	<div style="background-color: yellow; border: 1px solid black; padding: 2px; text-align: center;">ODOT</div> <div style="background-color: orange; border: 1px solid black; padding: 2px; text-align: center;">OTA</div> <div style="background-color: yellow; border: 1px solid black; padding: 2px; text-align: center;">OAC</div>	<div style="background-color: green; border: 1px solid black; padding: 2px; text-align: center;">ODOT</div> <div style="background-color: yellow; border: 1px solid black; padding: 2px; text-align: center;">OTA</div> <div style="background-color: yellow; border: 1px solid black; padding: 2px; text-align: center;">OAC</div>	<div style="background-color: orange; border: 1px solid black; padding: 2px; text-align: center;">ODOT</div> <div style="background-color: orange; border: 1px solid black; padding: 2px; text-align: center;">OTA</div> <div style="background-color: yellow; border: 1px solid black; padding: 2px; text-align: center;">OAC</div>	<ul style="list-style-type: none"> People - OTA stretched and firefighting to achieve goals; OAC historical know how/leverage skills elsewhere; ODOT has strong PMPs, yet leadership and management feels some people are underutilized People - All Agencies risk impact of knowledge exit with retirements and all need better documentation Process - ODOT has rigorous individual KPIs, and policies and procedures are rooted in well defined state, federal requirements; OAC, OTA procedures lack documentation and reside with actual staff members Process - All Agencies manage to timeliness and accuracy KPIs; OTA prioritizes intact revenue stream Infrastructure - OTA process execution is manual and needs automation
Budget <ul style="list-style-type: none"> Creating and tracks annual budget 	<div style="background-color: orange; border: 1px solid black; padding: 2px; text-align: center;">ODOT</div> <div style="background-color: green; border: 1px solid black; padding: 2px; text-align: center;">OTA</div> <div style="background-color: yellow; border: 1px solid black; padding: 2px; text-align: center;">OAC</div>	<div style="background-color: orange; border: 1px solid black; padding: 2px; text-align: center;">ODOT</div> <div style="background-color: green; border: 1px solid black; padding: 2px; text-align: center;">OTA</div> <div style="background-color: green; border: 1px solid black; padding: 2px; text-align: center;">OAC</div>	<div style="background-color: yellow; border: 1px solid black; padding: 2px; text-align: center;">ODOT</div> <div style="background-color: orange; border: 1px solid black; padding: 2px; text-align: center;">OTA</div> <div style="background-color: yellow; border: 1px solid black; padding: 2px; text-align: center;">OAC</div>	<ul style="list-style-type: none"> People - OTA connects and coaches every area on prep and iterations; ODOT does not train, and has limited standard work, and operates within silos. In addition, ODOT/OTA/OAC - need career path plans for tenured resources where mobility is limited Process- ODOT is more siloed with budget mgmt.. at divisions and could benefit from connecting front end budget w/backend A/P Process - OTA provides good budget coaching for timeliness and quality and has strong KPIs; OAC's internal budgeting process is efficient Infrastructure - ODOT has multiple systems and could reduce manual steps; OTA uses budget accelerator that breaks down frequently; OAC submits budget in accordance with state requirements (through Excel)
Accounts Payable / Purchasing <ul style="list-style-type: none"> Manages invoicing and vendor payments Creates journal entries for General Ledger Approves requisition requests for funding 	<div style="background-color: yellow; border: 1px solid black; padding: 2px; text-align: center;">ODOT</div> <div style="background-color: orange; border: 1px solid black; padding: 2px; text-align: center;">OTA</div> <div style="background-color: yellow; border: 1px solid black; padding: 2px; text-align: center;">OAC</div>	<div style="background-color: green; border: 1px solid black; padding: 2px; text-align: center;">ODOT</div> <div style="background-color: yellow; border: 1px solid black; padding: 2px; text-align: center;">OTA</div> <div style="background-color: yellow; border: 1px solid black; padding: 2px; text-align: center;">OAC</div>	<div style="background-color: yellow; border: 1px solid black; padding: 2px; text-align: center;">ODOT</div> <div style="background-color: orange; border: 1px solid black; padding: 2px; text-align: center;">OTA</div> <div style="background-color: green; border: 1px solid black; padding: 2px; text-align: center;">OAC</div>	<ul style="list-style-type: none"> People – There are concerns with ODOT's knowledge capture; OTA is starting to store knowledge on shared drives, especially since new employees require extensive on-the-job training People – ODOT is headed in the right direction, new supervisor increased communication Process - OTA and ODOT have solid KPIs e.g. Invoices paid, timeliness, claims/turnaround, training Process – There are several efficiency opportunities at ODOT and OTA: ODOT can reduce process steps / handoffs between depts; OTA can eliminate steps/manual moves; connect front end budget to backend AP Infrastructure - OTA – involves Heavy manual inputs and Custom Software; ODOT – has 2 systems, and Peoplesoft services failed twice before; OAC uses single system (Peoplesoft Financials)

Key

Platform could be leveraged "as is"; Some strong practices

Platform functional; Upgrades driven by overall Modernization strategic prioritization

Platform in need of significant upgrade and/or support

Finance: Inter-Agency Comparison (3 of 3)

Sub-Function	Agency Maturity Assessment			Supporting Observations
	People & Organization	Process & Performance	Infrastructure	
Project Finance <ul style="list-style-type: none"> Manages project funding Tracks project financials 	ODOT	ODOT	ODOT	<ul style="list-style-type: none"> People - OTA is stretched thin with few resources, and training is provided by division head; Leadership is concerned with resources to digitize collections; ODOT trains resources to be utility players, and training is led by leader Process - ODOT has strong KPIs, and procedures are rooted in rigorous state and federal requirements; KPIs at OTA are not formally tracked, though staff work closely with divisions to manage projects internally to hit end dates; OTA has signified great concern with lacking process infrastructure for AET Infrastructure - ODOT needs to transition away from mainframe from 1985; OTA utilizes various spreadsheets and manual systems for tracking spending and project costs; There exists automation priorities across Agencies
	OTA	OTA	OTA	
	OAC	OAC	OAC	
Reporting/Asset Tracking <ul style="list-style-type: none"> GAAP reporting Additional Financial reporting (CAFR, asset reporting) 	ODOT	ODOT	ODOT	<ul style="list-style-type: none"> People – ODOT lacks ability to measure roles and personnel constrained in work Process – OTA has won accounting awards; ODOT has clear reporting KPIs Infrastructure - Automation priorities at ODOT need to be defined and linked to other processes e.g. AP; OTA is moving away from manual paper processes, some new dashboards created for metrics; OAC does all reporting in Excel which is very manual
	OTA	OTA	OTA	
	OAC	OAC	OAC	
Payroll <ul style="list-style-type: none"> Processes payroll for payment Validates employee hours tracking 	ODOT	ODOT	ODOT	<ul style="list-style-type: none"> People - OTA is “downloading” institutional knowledge to the shared drives and provides extensive on the job training; ODOT provides training as alternate to limited mobility upward Process - ODOT includes multiple depts (HR/Payroll) in validating to avoid fraud; OTA has clear reporting KPIs Process - Common issue across Agencies is knowledge capture for standard work, knowledge management systems Infrastructure - ODOT has an opportunity to reduce 2 systems to one; OTA could automate and take advantage of self services opportunities
	OTA	OTA	OTA	
	OAC	OAC	OAC	
Right of Way (ROW) <ul style="list-style-type: none"> Clears ROW prior to construction Sets up and manages ROW projects 	ODOT	ODOT	ODOT	<ul style="list-style-type: none"> People - Building out PMPs for individuals; coaching day to day; meet biannually Process – Process efficiency and effectiveness: ODOT - solid KPIs and wants to be more streamlined Infrastructure – Reduction of level of paper in processes
	OTA	OTA	OTA	
	OAC	OAC	OAC	

Note: OTA and OAC does not include ROW in Finance

Key

Platform could be leveraged “as is”; Some strong practices

Platform functional; Upgrades driven by overall Modernization strategic prioritization

Platform in need of significant upgrade and/or support

Human Resources: Focus Area Overview

Sub-Functions and Agency Breakdown

Sub-Functions	Key Responsibilities	ODOT Divisions	OTA Divisions	OAC Divisions
Payroll	<ul style="list-style-type: none"> Ensures employees are paid accurately and on time by producing accurate time reporting Makes changes/promotions in employee file Manages federal and labor law compliance Manages OTA leave system and matches it to Peoplesoft (OTA only) 	Human Resources	Controller Division Administrative Services (Human Resources)	OMES
Operations	<ul style="list-style-type: none"> Manages benefits, recruiting, unemployment claims, supervisory workshop enrollment, security awareness training, onboarding, FMLA, employee badge security access, and changes to employee file Works with OMES for retirement and insurance 	Human Resources	Administrative Services (Human Resources)	Operations
Printing	<ul style="list-style-type: none"> Handles printing files and documentation needed Carrier services, mailroom, bank runs for all OTA divisions (OTA only) 	Office Services	Administrative Services (Procurement)	N/A
Safety	<ul style="list-style-type: none"> Keeps employees safe and reduces risk, mainly for maintenance and toll divisions Drug screening Manages worker compensation, accident investigations, oversees CDL requirements, evaluates all physicals from employees 	Human Resources	Administrative Services (Safety)	Airport Division
Training	<ul style="list-style-type: none"> Develops specific training for organization, customer service Manages all HR, SPOT trainings, and safety training Runs the customer service new hire program (OTA) Uses Learn system through OMES 	Human Resources	Administrative Services (Training)	Position-specific
Leadership & Support	<ul style="list-style-type: none"> Compensation, budget management, policy/procedure compliance, grievance management Centralized controls over employee management to mitigate risk of litigation Manages and oversees Human Resources, Procurement Ensures all disciplinary actions are consistent Case management, liaisons with HR attorney on any litigation (OTA) Complies with all Federal & State Regulations including Title VII (OTA) 	Human Resources	Administrative Services	Chief Operations Officer

Sub-Function Footnotes

ODOT	<ul style="list-style-type: none"> Printing ODOT recruitment occurs in Training & Development 	OTA	<ul style="list-style-type: none"> Knowledge Management Committee 	OAC	<ul style="list-style-type: none"> No in-house training
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Human Resources: ODOT Profile (1 of 2)

Dedicated Personnel and Budget

Sub-Function	Divisions	FTE / % Class*	Personnel Cost*	Consultant Cost**
Payroll	HR	3 / 100%	Hidden	-
Operations	HR, Districts 1-8	10 / 90%	\$1,045,354	-
Printing	N/A	0	-	-
Safety	HR, Districts 1-8	17 / 100%	\$2,032,551	-
Training	HR	5 / 100%	\$562,643	\$178,642
Leadership & Support	HR	2 / 50%	Hidden	\$6,075
Vacant	HR	1 / 100%	Hidden	-
Total		38	\$4,447,853	\$184,717

Volume of Work

Measure	Value
Turnover Rate	~10% turnover
HR transactions per month	~200 transactions before COVID
Number of people trained per year	~2400 employees, mostly supervisory level and above

Performance

KPI	Definition	Performance Measurement
Payroll-Timeliness of reports	Timeliness to pay employees, time recording, and division audit deadlines	<ul style="list-style-type: none"> Goal 100% on-time
Operations-transactional KPI focus	More interested in volume vs customer experience/turnover	<ul style="list-style-type: none"> Turnover rate
Safety-trending indicators	Near misses reported, worker's comp indicators, incident reports	<ul style="list-style-type: none"> Lacking performance indicators
Training-lacking measurable goals	Everyone has a mental checklist	<ul style="list-style-type: none"> No system to check performance evaluations

Human Resources: ODOT Profile (2 of 2)

IT Capabilities

Key Applications	Function	Annual Cost*
CORE Employee Management	HCM system for HR	\$170K
ODOT Mainframe/TSO	Data entry and storage	\$1.2M
LinkedIn Learning	HR Trainings	\$13K
Grooper (annual renewal)	Electronification of employee information	\$500K



Number of Applications



% Tailored/User-Developed

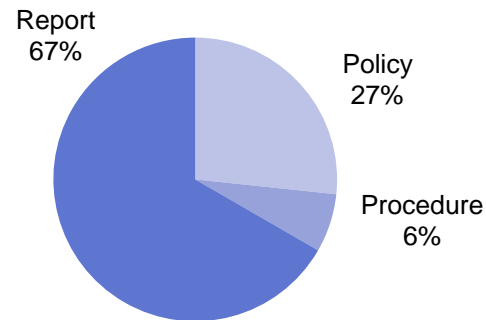


Total Annualized Cost

Policies and Procedures Documents

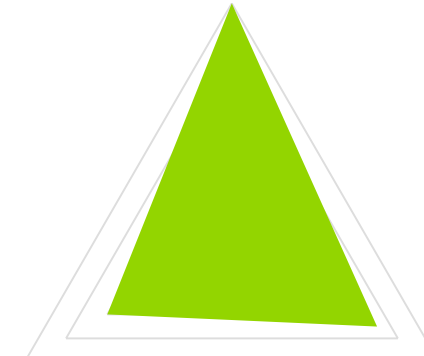
Key Policies and Procedures

- Strict deadlines for payroll and works with OMES human capital management division
- Online training through OMES, uses facility for in-person training
- Safety procedures and policies governed by Public Employee Safety Occupation Program



Pain Points

People



Infrastructure

Process

People	<ul style="list-style-type: none"> • Cultural misalignment: No incentive for employees to attend training • Identified need for emphasis on people and additional career development • Large percentage of staff retiring with no documentation of roles & responsibilities • HR liaison and safety staff reporting structure drives local needs vs system focus • Employees need more technology training, slow to embrace new technology
Process	<ul style="list-style-type: none"> • Limited KPIs, and they are not integrated into PMPs • Many manual processes, still using paper and physically sending around copies • Distractions when running payroll makes process more difficult to complete • Internal communication could be improved
Infrastructure	<ul style="list-style-type: none"> • TSO outputs a lot of paper waste • Many HR system used, workday may reduce number of HR systems used • Lack safety tracking systems

Critical Pain Point

Human Resources: OTA Profile (1 of 2)

Dedicated Personnel and Budget

Sub-Function	Divisions	FTE / % Class*	Personnel Cost*	Consultant Cost**
Payroll	Administrative Services	1 / 100%	Hidden	-
Operations	Administrative Services	1 / 100%	Hidden	-
Printing	Administrative Services	1 / 100%	Hidden	-
Safety	Administrative Services	1 / 0%	Hidden	-
Training	Administrative Services	3 / 0%	Hidden	-
Leadership & Support	Administrative Services	2 / 50%	Hidden	-
Vacant	Administrative Services	1 / 100%	Hidden	-
Total		10	\$960,455	-

*One additional Administrative services staff in the Procurement focus area

Volume of Work

Measure	Value
Number of individual turnpike trainings annually	40 in-person facilitated trainings/year
Number of HR transactions per month	Business driven (higher in months with more new hires)

Performance

KPI	Definition	Performance Measurement
Complaints received	Number of complaints received	<ul style="list-style-type: none"> Minimized as close to 0 as possible
Payroll accuracy and timeliness	Payroll information submitted accurately and on time	<ul style="list-style-type: none"> No payroll errors Payroll deadlines are mid-month and end of month
Turnover rate	Percent of employees leaving/number of employees	<ul style="list-style-type: none"> 12-14% annually <ul style="list-style-type: none"> Equipment operators Toll collectors Market-driven
Incident rate	Incident rate is number of incidents per hour of work	<ul style="list-style-type: none"> Below 1 injury/hour worked (currently at 0.7)

Human Resources: OTA Profile (2 of 2)

IT Capabilities

Key Applications	Function	Annual Cost*
OTA Leave System	Legacy system to record leave time	In-house
CORE Employee Management System	HCM system	\$42K
Zoom Conferencing	Virtual meeting software	\$-
Adobe Creative Cloud	Document and content creation software services	\$15K
Benefit Administrative System	Employee benefits system	Through OMES



Number of Applications



% Tailored/User-Developed

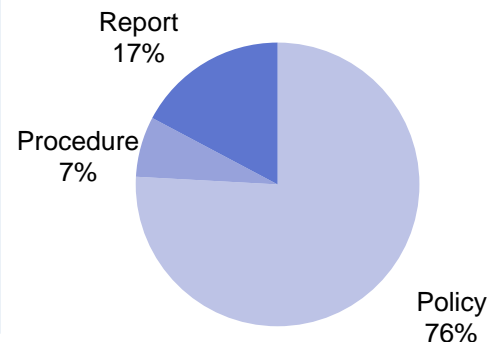


Total Annualized Cost

Policies and Procedures Documents

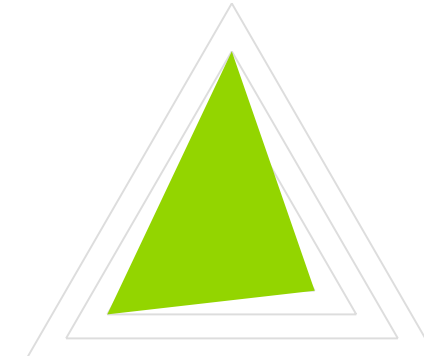
Key Policies and Procedures

- Procedure: Works with OMES benefits group and OMES insurance group
- Procedure: Sends complete payroll information to payroll group in Controller
- Uses OMES for Learning Management System (LMS) for employee training and training tracking, as well as in-house OTA core training and materials
- Federal and State laws, and OTA policy compliance



Pain Points

People



Infrastructure

Process

People	<ul style="list-style-type: none"> • It takes a long time to develop trainers to conduct training for the customer service <u>new hire program</u> • <u>Compensation and redundancy of staffing levels</u> • <u>Documentation and cross-training amidst people retiring/leaving the Agency</u> • Communication for interdependent/interdepartmental impacts
Process	<ul style="list-style-type: none"> • Onboarding could be moved to online system, currently in process of developing process • COVID has greatly impacted hiring, employees, and resources
Infrastructure	<ul style="list-style-type: none"> • Learning Management System (LMS) is not customizable, managers cannot track their employee trainings directly • Limited hardware dedicated to training (only one per plaza) • Homemade leave system is very taxing and manual • Need to digitize files • OTA Leave system; at times can be difficult for HR to make corrections and adjustments

Critical Pain Point

Human Resources: OAC Profile (1 of 2)

Dedicated Personnel and Budget

Sub-Function	Divisions	FTE / % Class*	Personnel Cost*	Consultant Cost**
Payroll	N/A-OMES	0	N/A	-
Operations	Operations	0.25 / 0%	Hidden	-
Printing	N/A	N/A	N/A	-
Safety	Airport Division	0	N/A	-
Training	Division-specific	0	N/A	-
Total		0.25	Hidden	-

Volume of Work

Measure	Value
HR-related questions per month	~10 questions
Training hours per year	16 hours target
Annual turnover rate	40% annually
Payroll information sent to OMES per month	All 10-11 employee hours and time-cards

Performance

KPI	Definition	Performance Measurement
Increased staff morale	Streamlining and clarifying HR operations to improve staff longevity and morale	<ul style="list-style-type: none"> Decreased turnover rate (40% currently)

Human Resources: OAC Profile (2 of 2)

IT Capabilities

Key Applications	Function	Annual Cost*
CORE Employee Management System	HCM for OAC	\$780



Number of Applications



% Tailored/User-Developed

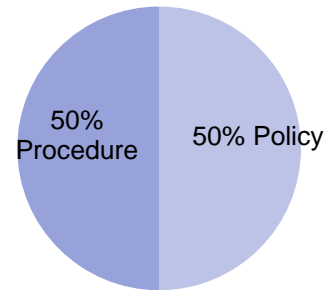


Total Annualized Cost

Policies and Procedures Documents

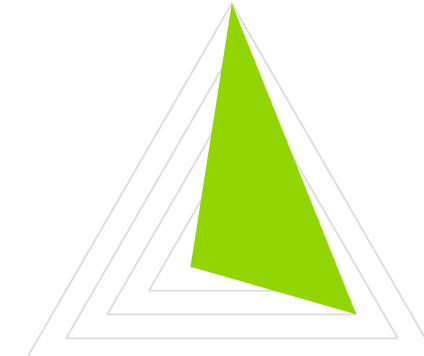
Key Policies and Procedures

- Employee handbook (in need of updates)
- Internal accounting procedures



Pain Points

People



Infrastructure

Process

People	<ul style="list-style-type: none"> • Turnover rate is high • Staff is stretched thin and wear multiple hats • HR process solidification would improve staff longevity and morale • No formalized training program (Some coordination for 16 hours on PMP)
Process	<ul style="list-style-type: none"> • Weaker organizationally with KPIs • Hiring process needs refining
Infrastructure	<ul style="list-style-type: none"> • Could use Peoplesoft system like ODOT instead of outsourcing to OMES • No system to track training across Agency

Critical Pain Point

Human Resources: Inter-Agency Comparison (1 of 3)

Dedicated Personnel and Budget

	FTE	Classified	Personnel – Costs*	Consultant – Cost**
ODOT	38	94.7%	\$5M	\$185K
OTA	10	40%	\$960K	-
OAC	0.25	0%	-	-
Total	53.25	85%	\$6M	\$185K

Volume and Performance

Agency	Volume	Performance
ODOT	<ul style="list-style-type: none"> Annual turnover rate: ~10% # of monthly HR transactions (pre-COVID): ~200 # of employees trained annually: ~2,400 	<ul style="list-style-type: none"> % Payroll reports timeliness: Goal of 100% OMES Employee engagement 2019
OTA	<ul style="list-style-type: none"> Annual # of individual turnpike trainings: 40 Annual turnover rate: 12-14% 	<ul style="list-style-type: none"> Reduction in # of complaints received % Payroll reports timeliness Reduction in # of payroll errors Staff injury rate/hour worked: 0.7 OMES Employee engagement 2020
OAC	<ul style="list-style-type: none"> # of monthly HR transactions (pre-COVID): 10 # of projected training hours per year: ~16 Annual turnover rate: ~40% Employee payroll information sent to OMES monthly: ~10 – 11 	<ul style="list-style-type: none"> Staff morale by clarifying HR operations OMES Employee engagement 2020

Key Common IT Applications

Function	ODOT	OTA	OAC
HCM system	CORE Emp. Mgmt.	CORE Emp. Mgmt.	CORE Emp. Mgmt.
HR Training	OMES, other online training sites, ODOT tracks in Excel	OMES, other online training sites, Custom TEDM (track trainings) In-house training	OMES, other position-specific tools
Payroll System <small>*Moving to WD 2022</small>	TSO (Cobalt), CORE Emp. Mgmt.	CORE Emp. Mgmt.	N/A
Employee data storage	TSO (Cobalt), CORE, Grooper/AX	Access Database, OTA Leave System, CORE, Grooper/AX	CORE, Shared drive

IT Spend

\$1.9M ODOT

\$64K OTA

0.8K OAC

Human Resources: Inter-Agency Comparison (2 of 3)

Sub-Function	Agency Maturity Assessment			Supporting Observations
	People & Organization	Process & Performance	Infrastructure	
Operations <ul style="list-style-type: none"> Manages benefits, recruiting, unemployment claims, supervisory workshop enrollment, security awareness training, password resets, onboarding, career/promotion, grievances, changes to employee files, HR Policy Works with OMES for retirement and insurance 	<div style="background-color: #f4a460; padding: 5px; text-align: center;">ODOT</div> <div style="background-color: #f4a460; padding: 5px; text-align: center;">OTA</div> <div style="background-color: #f4a460; padding: 5px; text-align: center;">OAC</div>	<div style="background-color: #ffff00; padding: 5px; text-align: center;">ODOT</div> <div style="background-color: #ffff00; padding: 5px; text-align: center;">OTA</div> <div style="background-color: #f4a460; padding: 5px; text-align: center;">OAC</div>	<div style="background-color: #f4a460; padding: 5px; text-align: center;">ODOT</div> <div style="background-color: #ffff00; padding: 5px; text-align: center;">OTA</div> <div style="background-color: #ffff00; padding: 5px; text-align: center;">OAC</div>	<ul style="list-style-type: none"> People - ODOT has a great culture; Emphasis needs to be more people vs. product; Career development exists but not career planning; desire to build better internal development programs e.g. leadership academy and developing leaders to be supervisors and managers. OTA has lots of retirement ready FTE and has concerns re: knowledge transfer; OAC – Need a focus on morale across most functions; everyone wears 4-6 hats; 40% high turnover rate People – ODOT’s structure includes HR liaisons reporting to District resources and measures tied to local needs of 8 Districts’ needs vs. overall system; training to use technology is a challenge Process – ODOT has limited KPIs with more volume measures, e.g. # reports vs. useful data; underlying data and processes are clean, but paper-based; and people doing too much busy work; OTA –Internal OTA-wide communication; OAC – weaker organizational KPIs and overall people focus is critical Infrastructure - ODOT has to Double enter transactions due to two systems: TSO and Peoplesoft for Federal; In addition, there is fragmented HR systems at the State and same info entered over and over (name, SS, address, dependents). e.g. HR payroll, separate system for benefits info; another for retirement. OAC – all transactions go through OMES and 3rd party consultant NTT can often make responsiveness a challenge Infrastructure - OTA: is moving files to electronic, onboarding, etc.
Payroll <ul style="list-style-type: none"> Ensures employees paid accurately and on time Makes changes/promotions in employee file Manages federal and labor law compliance Manages OTA leave system and matches it to Peoplesoft 	<div style="background-color: #f4a460; padding: 5px; text-align: center;">ODOT</div> <div style="background-color: #ffff00; padding: 5px; text-align: center;">OTA</div> <div style="background-color: #ffff00; padding: 5px; text-align: center;">OAC</div>	<div style="background-color: #f4a460; padding: 5px; text-align: center;">ODOT</div> <div style="background-color: #ffff00; padding: 5px; text-align: center;">OTA</div> <div style="background-color: #ffff00; padding: 5px; text-align: center;">OAC</div>	<div style="background-color: #f4a460; padding: 5px; text-align: center;">ODOT</div> <div style="background-color: #f4a460; padding: 5px; text-align: center;">OTA</div> <div style="background-color: #ffff00; padding: 5px; text-align: center;">OAC</div>	<ul style="list-style-type: none"> People – ODOT faces impending retirement of critical staff, and more broadly faces a significant % of eligible retirements leading to knowledge loss risk, demonstrating a need to document or shadow replacements Process - ODOT has limited KPIs; heroics to address gaps before payroll run; clerks enter time into oracle sent to Peoplesoft, audits to ensure accuracy, after finished run process routes through TSO again; inefficient for HR Operations, yet TSO needed for payroll (Federal fund financials). OAC leader has shared service process with OMES partner Infrastructure – With ODOT, TSO accurate yet produces lot of paper and excel spreadsheets are a new adoption, yet each staff member does things their own way. OTA has a homegrown leave system and also uses word, excel, Visio, and old personnel database. OAC could possibly leverage Peoplesoft vs. OMES for Payroll

Key

Platform could be leveraged “as is”; Some strong practices

Platform functional; Upgrades driven by overall Modernization strategic prioritization

Platform in need of significant upgrade and/or support

Human Resources: Inter-Agency Comparison (3 of 3)

Sub-Function	Agency Maturity Assessment			Supporting Observations
	People & Organization	Process & Performance	Infrastructure	
Training / Development <ul style="list-style-type: none"> Manages all HR, SPOT trainings, and safety training Runs the customer service new hire program Uses Learn system through OMES 	<div style="background-color: #FF8C00; padding: 5px; text-align: center;">ODOT</div> <div style="background-color: #FFD700; padding: 5px; text-align: center;">OTA</div> <div style="background-color: #FF8C00; padding: 5px; text-align: center;">OAC</div>	<div style="background-color: #FF8C00; padding: 5px; text-align: center;">ODOT</div> <div style="background-color: #008000; padding: 5px; text-align: center;">OTA</div> <div style="background-color: #FF8C00; padding: 5px; text-align: center;">OAC</div>	<div style="background-color: #FFD700; padding: 5px; text-align: center;">ODOT</div> <div style="background-color: #FFD700; padding: 5px; text-align: center;">OTA</div> <div style="background-color: #FF8C00; padding: 5px; text-align: center;">OAC</div>	<ul style="list-style-type: none"> People - ODOT generally has cultural misalignment. Also, there is alack of support for staff training as the results are not clearly articulated. Staff are not rewarded to exceed expectation. There is an opportunity for employees to contribute more but skills gap are an obstacle as is the classification system that limits staff movement. ODOT has clear knowledge capture needs. OAC has no formal training program; and no way of tracking PMPs Process - ODOT does not have strong measurable goals nor the culture/framework to set them; Also, Agency and Division goals are misaligned and performance review and action plans are lacking. Not a lot of standard procedures or policies, or training or procedure policies in general; leverage film crew Process - OTA conducts lot of SPOT trainings (Specific Point of Training); Training Diversity e.g. OMES leadership, e-learning - toll; OTA tracks employees training; works closely w/leadership re: custom work materials; robust Maintenance, safety, and teamwork. OTA provides both technical and soft skills training. OTA could benefit from ODOT's film crew Infrastructure - ODOT – Pending Workday will be important to help performance management going forward; OAC no systems for tracking
Safety <ul style="list-style-type: none"> Keeps employees safe and reduces risk, mainly for maintenance and toll divisions (99%) Drug screening <p>Note: OAC Does not conduct safety; airport divisions conduct safety inspections</p>	<div style="background-color: #FFD700; padding: 5px; text-align: center;">ODOT</div> <div style="background-color: #FF8C00; padding: 5px; text-align: center;">OTA</div>	<div style="background-color: #FFD700; padding: 5px; text-align: center;">ODOT</div> <div style="background-color: #008000; padding: 5px; text-align: center;">OTA</div>	<div style="background-color: #FFD700; padding: 5px; text-align: center;">ODOT</div> <div style="background-color: #FF8C00; padding: 5px; text-align: center;">OTA</div>	<ul style="list-style-type: none"> People - ODOT focused on maintenance and process is run by a skilled group, however, there is a concern with knowledge loss and documentation needs; there exists increased pay with apparatus certifications. OTA believes bringing culture of "why" is important and focuses on KPIs and education to regulations for improvement; However, there is only one person for 600 employees and the old safety specialty position was previously open for 2 yrs, OTA has a single point of failure as well People - OTA safety staff consists of 1 leader with an open position; ODOT could benefit from direct reporting from District safety managers and safety staff to influence focus, work completion, and outcomes Process – ODOT has ongoing training program development, and work zone training in the field; OTA has clear KPIs (e.g. incident rates, trained leaders, risk assessments), has updated 400-page safety manual and secures real time updates; In addition, OTA educates on regs vs. being safety police, and has a need for better and more virtual training in Maintenance Equip. / Tolls Infrastructure - OTA – uses excel to track training/locations; need more than 1 plaza computer; and has Virtual needs, will be implementing safety module and SharePoint intranet site dedicated to safety

Information Technology: Focus Area Overview

Sub-Functions and Agency Breakdown

Sub-Functions	Key Responsibilities	ODOT Divisions	OTA Divisions	OAC Divisions
Document Imaging	<ul style="list-style-type: none"> Scans and documents physical copies used in each division Digitizes historical Agency documents 	Office Services	Information Technology	N/A
Asset Management	<ul style="list-style-type: none"> Manages IT purchases Tracks and monitors end-of-life measures 	N/A	Information Technology	N/A
Data Services	<ul style="list-style-type: none"> Provides database architecture and data management, maintains all SQL backups Creates and maintains reports for software produced, updates, server migrations, and repositories Manages analytics and dashboards for OTA divisions Creates third party integrations to reduce dual-entries 	OMES	Information Technology	OMES
Business Analysis (Enterprise analysts and IT coordinators)	<ul style="list-style-type: none"> Works with internal IT development team and divisions to plan project schedule Liaise with other divisions to determine business need Serves as the Agile project manager for IT projects 	N/A	Information Technology	N/A
Network & System Administration	<ul style="list-style-type: none"> Maintains servers and backups Manages data center switches, fiber work, OHP, and tourism networks, telecommunications Maintains infrastructure for exchange and VMWare environment, all storage and backups, and cameras New server set-up, new and upgraded OS, and vulnerability management program Maintain IT security infrastructure for Paul Caesar's security team 	OMES, ITS (fiber/network-related)	Information Technology	OMES
Contracts/Acquisitions	<ul style="list-style-type: none"> Purchases technology services and products needed within IT and across the agencies 	Office Services	Information Technology	N/A
Software Development	<ul style="list-style-type: none"> Develops custom applications for use Agency-wide Maintains 3rd-party applications Creates and maintains the OTA websites and expanding services to ODOT/OAC 	OMES	Information Technology	OMES
Content Management	<ul style="list-style-type: none"> Manages all content generated by OTA (Application Xtender/WebXtender for document storage) Saves and stores necessary documentation Utilizes SharePoint for document and access standardization 	Office Services	Information Technology	N/A
Helpdesk	<ul style="list-style-type: none"> Provides technical support to all Agency employees Mobility management and asset management inventory 	OMES (NTT Data)	Information Technology	OMES (NTT Data)
Leadership & Support	<ul style="list-style-type: none"> Sets strategy for IT division Working with the Agency to define Agency-specific strategy 	OMES CTO to ODOT	Information Technology	OMES CTO to ODOT

Sub-Function Footnotes

Information Technology: ODOT Profile (1 of 2)

Dedicated Personnel and Budget

Sub-Function	Divisions	FTE / % Class*	Personnel Cost*	Consultant Cost**
Document Imaging	Office Services	4 / 100%	Hidden	\$ -
Asset Management	N/A	0	N/A	\$ -
Data Services	N/A	0	N/A	\$ -
Business Analysis	N/A	0	N/A	\$ -
Systems & Network	N/A	0	N/A	\$ -
Contracts/Acquisitions	Office Services	7 / 100%	\$757,786	\$ -
Software Development	N/A	0	N/A	\$ -
Content Management	Office Services	1 / 100%	Hidden	\$ -
Helpdesk	N/A	0	N/A	\$ -
Leadership	Office Services	1 / 100%	Hidden	\$7,019,818
Vacant	Office Services	1 / 100%	Hidden	\$ -
Total		14	\$1,312,973	\$7,019,818

Volume of Work

Measure	Value
Average monthly service requests	490 requests
Man-days dedicated to digitizing ODOT's historical data	192 days
Number of FTEs supporting per application -Mainframe -Contract	OMES/Office Services not necessarily dedicated to IT

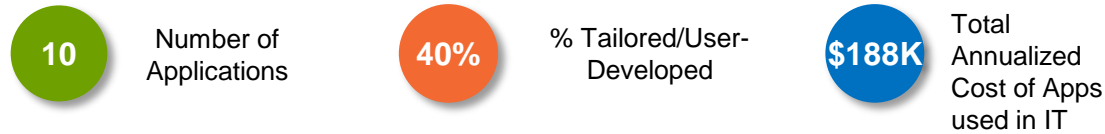
Performance

KPI	Definition	Performance Measurement
Service Request Tracking	Tracking the progress of service requests	<ul style="list-style-type: none"> Not started, In progress, or standby
Video division metrics	In the process of creating KPIs for the video division	<ul style="list-style-type: none"> Currently not tracked, want to track in the future
Service Level Agreements for IT support	<ul style="list-style-type: none"> -Helpdesk response time -New Computer setup -Mainframe modification 	<ul style="list-style-type: none"> SLAs with OMES

Information Technology: ODOT Profile (2 of 2)

IT Capabilities

Key Applications	Function	Annual Cost*
Oracle BI fees	Annual Oracle BI usage fees	\$59K
Production software/services	Stock images, stock library, Toad software, Ustream, Video 3D Modeling, Video Blocks, Vimeo	\$18K
SmartSheet	Content management PM software	\$25K
BIS	Document Imaging contract	\$86K

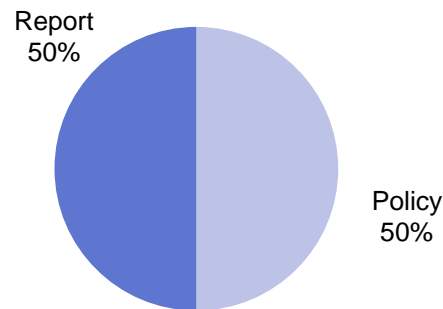


Total (OMES) FY19 Annual MSA Hardware, Desktop, Network Support, Shared Services Support costs: ~ \$4.6M

Policies and Procedures Documents

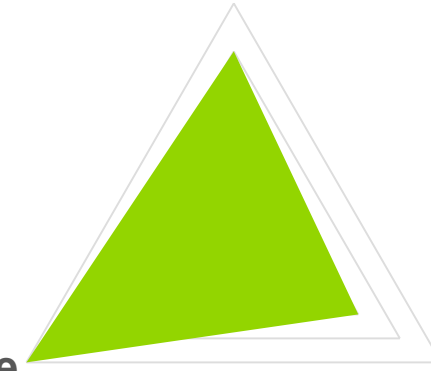
Key Policies and Procedures

- Most of IT outsourced to OMES, ODOT pays 3 NTT employees dedicated to ODOT helpdesk support
- ODOT handles some content management and document imaging capabilities in house in their Office Services Division
- Certain ODOT construction plans and documents must be provided to the public when requested
- SLAs with NTT Data and OMES for technology needs



Pain Points

People



Infrastructure

Process

People	<ul style="list-style-type: none"> • OMES subcontractor NTT's helpdesk takes a long time to process tickets • NTT Data was not positioned well for success, ODOT wasn't well informed of NTT capabilities • ODOT assumes OMES has full responsibility for Agency IT, may not be the case entirely
Process	<ul style="list-style-type: none"> • Security and organization around plans and document management is unclear • Siloed documentation by division
Infrastructure	<ul style="list-style-type: none"> • No organization of ODOT technologies and IT services Agency-wide • Critical document imaging needs: pallets of paper need to be digitized • Sunsetting legacy systems • ODOT needs ability to scale over time

Critical Pain Point

Information Technology: OTA Profile (1 of 2)

Dedicated Personnel and Budget

Sub-Function	Divisions	FTE / % Class*	Contractors	Personnel Budget
Document Imaging	Information Technology	2 / 100%	0	Hidden
Asset Management	Information Technology	0 / 0%	1	Hidden
Data Services	Information Technology	4 / 0%	7	\$1,347,291
Business Analysis	Information Technology	1 / 0%	8.25	\$889,563.33
System & Network	Information Technology	5.8 / 40%	2.5	\$836,245
Contracts/ Acquisitions	Information Technology	0 / 0%	2	Hidden
Software Development	Information Technology	1 / 0%	8.5	\$1,167,705
Content Management	Information Technology	0 / 0%	0.5	Hidden
Helpdesk	Information Technology	3 / 0%	0	Hidden
Leadership	Information Technology	5 / 0%	0	\$746,419
Vacant	Information Technology	7 / 0%	0	\$750,069
Total		28.8	29.75	\$6,237,745

Volume of Work

Measure	Value
Number of support calls	4,495 calls, Jan-Nov 2020
Average number of devices	458 Login Users 518 Workstations
Total number of strategic IT objectives and initiatives	511 initiatives
Total OTA IT created applications	65 apps
Total 3 rd -party applications	126 apps

Performance

KPI	Definition	Performance Measurement
Customer satisfaction	Surveys go out every 10 tickets	<ul style="list-style-type: none"> 98% customer satisfaction

Note: Dashboards and metrics are currently being built out for IT, as well as other functions at OTA.

Information Technology: OTA Profile (2 of 2)

IT Capabilities

Key Applications	Function	Annual Cost
Application Xtender/Grooper	OTA primary document repository, document imaging	\$48K
Atlassian JIRA/Confluence	Ticket tracking for Agile, Managing information/documentation	\$10K
Lansweeper	IT asset management software	\$8K
Slack	Internal communication software	\$12K
Zoom	Video conferencing software	\$22K
Manage Engine	Patching, self service, Service Desk, etc.	\$53K

135*

Number of Applications

16%

% Tailored/User-Developed

\$1.9M

Annualized Cost of all OTA Apps

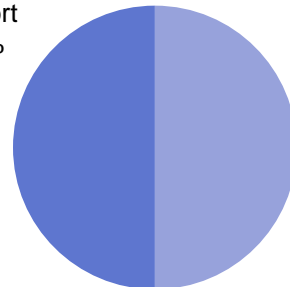
Total (OMES) FY19 Annual MSA Hardware, Desktop, Network Support, Shared Services Support costs: : ~ \$595K

Policies and Procedures Documents

Key Policies and Procedures

- New paperless automation procedure for cash receipts from controller—utilizes Grooper to automate entire process from Bank to Controller and bypass content management/document imaging intermediate steps
- Strong Cross-training (primary, secondary, tertiary points-of-contact)
- All IT purchases must go through OMES for approval (IT handles this along with all IT Procurement for OTA)

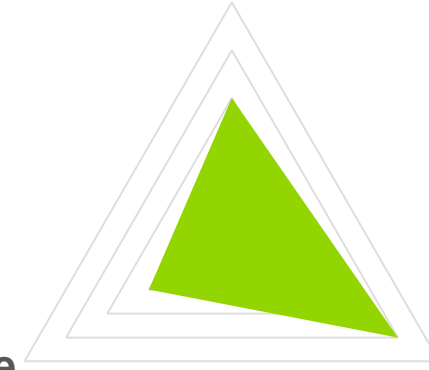
Report
50%



Procedure
50%

Pain Points

People



Infrastructure

Process

People	<ul style="list-style-type: none"> • Difficult to attract and retain talent due to pay competitiveness • Better communications between divisions • Cross-system pathways are still developing
Process	<ul style="list-style-type: none"> • Lacking governance around content management • Need to reinforce enterprise-wide strategy for IT project prioritization • Inconsistent KPIs • Must have approval from OMES before hiring IT personnel
Infrastructure	<ul style="list-style-type: none"> • N/A

Critical Pain Point

Information Technology: OAC Profile (1 of 2)

Dedicated Personnel and Budget

Sub-Function	Divisions	FTE / % Class*	Personnel Cost*	Consultant Cost**
Document Imaging	N/A	0	N/A	\$ -
Asset Management	N/A	0	N/A	\$ -
Data Services	OMES	0	N/A	\$ -
Business Analysis	N/A	0	N/A	\$ -
Systems & Network	OMES	0	N/A	\$ -
Contracts/ Acquisitions	N/A	0^	N/A	\$ -
Software Development	OMES	0	N/A	\$ -
Content Management	Operations	0	N/A	\$ -
Helpdesk	OMES	0	N/A	\$ -
Leadership	N/A	0	N/A	\$ -
Total		0^	N/A	\$ -

Volume of Work

Measure	Value
Average # days for each OMES helpdesk ticket to completion	16 days
Average number of OMES helpdesk tickets submitted monthly	17 requests

Performance

KPI	Definition	Performance Measurement
No KPI Data		

Information Technology: OAC Profile (2 of 2)

IT Capabilities

Key Applications	Function	Annual Cost*
Adobe	Content development	\$ -
Dropbox	Document Management	\$ -
Microsoft Suite	For user-built Excel reports	\$ -



Number of Applications



% Tailored/User-Developed

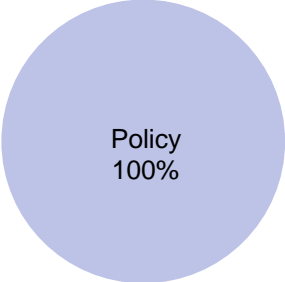


Total Annualized Cost

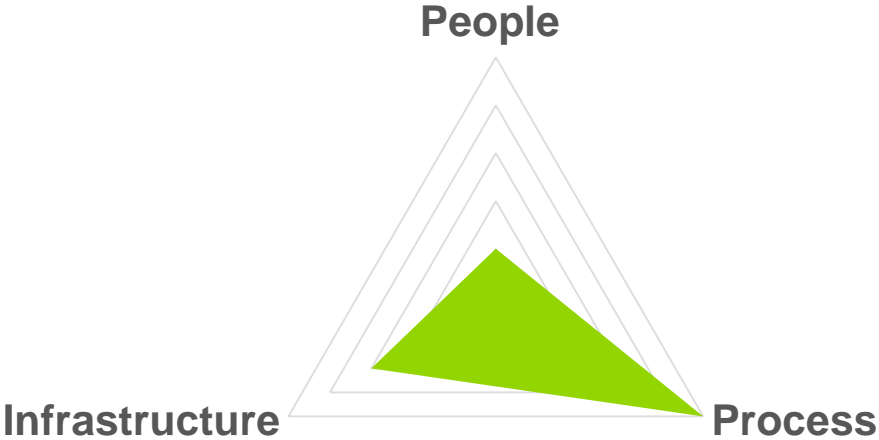
Total (OMES) FY19 Annual MSA Hardware, Desktop, Network Support, Shared Services Support costs: ~ \$31k

Policies and Procedures Documents

- Key Policies and Procedures**
- No OAC employees dedicated to IT, contacts OMES for technology needs
 - Annual statement of work (Appendix C) detailing cost of OMES IT services
 - Most reports generated on-site are created in Excel



Pain Points



People	<ul style="list-style-type: none"> N/A-OAC does not have any dedicated IT staff NTT Data was not positioned well for success
Process	<ul style="list-style-type: none"> NTT Data a large roadblock for helpdesk support, ticket completion time is slow
Infrastructure	<ul style="list-style-type: none"> Most reports are manual and completed through Excel

Critical Pain Point

Information Technology: Inter-Agency Comparison (1 of 3)

Dedicated Personnel and Budget

	FTE	Classified	Personnel – Costs*	Consultant – Cost**
ODOT	14	100%	\$1.3M	\$7.0M
OTA	59	7.5%	\$6.2M	\$0
OAC	0	-	-	-
Total	72	23%	\$7.5M	\$6.7M

Volume and Performance

Agency	Volume	Performance
ODOT	<ul style="list-style-type: none"> Average monthly # of service requests: 490 Labor investment dedicated to digitizing ODOT historical: 192 days 	<ul style="list-style-type: none"> Service request status tracking Video division metrics/KPIs
OTA	<ul style="list-style-type: none"> Jan - Nov 2020 Total # of service calls: 4,495 FY2020 IT objectives and initiatives: 511 Total OTA IT created apps: 65 Total 3rd party applications: 126 Average number of workstations supported by IT: 518 Workstations 	<ul style="list-style-type: none"> Ticket uptime and response time IT customer satisfaction: 95% % of PCI transactions automated
OAC	<ul style="list-style-type: none"> Average monthly # of service requests: 17 	<ul style="list-style-type: none"> Average completion time per ticket: 16 days

Key Common IT Applications

Function	ODOT	OTA	OAC
Content Management	SmartSheet	Application Xtender	Shared Drive
Ticket Tracking	(OMES)	JIRA, Service Desk	(OMES)
Asset management software	(OMES)	Lansweeper, RF Track	Excel/OMES
Meeting software	Zoom/Teams	Zoom	Zoom/Teams

IT Spend

\$188K ODOT

\$1.9M OTA

\$- OAC

OMES service overlap is not identified here

Information Technology: Inter-Agency Comparison (2 of 3)

Sub-Function	Agency Maturity Assessment			Supporting Observations	
	People & Organization	Process & Performance	Infrastructure		
System & Network Administration <ul style="list-style-type: none"> Maintains servers and backups Manages data center switches, fiber work, OHP, and tourism networks Maintains infrastructure for exchange and VMWare environment New server set-up, new OS, and vulnerability scanning tasks 	ODOT-OMES OTA OAC-OMES	ODOT-OMES OTA OAC-OMES	ODOT-OMES OTA OAC-OMES	<ul style="list-style-type: none"> People - OTA has a need for better communication between divisions with project implementation; currently, cross training exists within the Network Administration Sub-Function Process - OTA is working to create dashboards; Unclear resource cost per ticket; Networking is last in consideration for construction projects/need to improve Division communications with IT Infrastructure - OTA prioritizes network resiliency and does a good job on patch mgmt.. Infrastructure - OTA has automation opportunities for desktop builds and other hot spot areas Infrastructure - ODOT/OAC network administration is managed through OMES 	
Help Desk <ul style="list-style-type: none"> Provides technical support to all OTA employees 	ODOT-OMES OTA OAC-OMES	ODOT-OMES OTA OAC-OMES	ODOT-OMES OTA OAC-OMES	<ul style="list-style-type: none"> People - OTA has a training program; currently building help desk lab to advance skills; staff is easy to flip/no contractors with lower salaries, has upskilling and career path opportunity to move up Process - OTA is challenged to stay ahead of the tickets (manage service desk plus); working to create dashboards, skills, continue to seek self-service solutions to decrease burden on helpdesk Infrastructure - ODOT/OAC – NTT Data is the provider of help desk and desktop services; is less than favorable – inherited 5,000 ODOT tickets 	
Content Management / Document Imaging <ul style="list-style-type: none"> Manages all content generated by Agency Saves and stores necessary documentation Scans and documents physical copies used in each division Electronifies historical Agency documents 	ODOT OTA OAC	ODOT OTA OAC	ODOT-OMES OTA OAC	<ul style="list-style-type: none"> People - OTA/ODOT are unclear on responsibilities, for whom, and alignment of work/structure e.g. If communication/messaging, should be in marketing. If managing and storing, should be in IT Process - ODOT plans library is a research house that keeps all accurate metadata; OTA has no formalized KPIs, 3 FTEs w/no governance body or policy to vet documents sent for scanning Process - ODOT is currently working to digitize warehouse full of documents, both OTA/ODOT have contracts with BIS vendor and use the same software (Application Xtender AX. Grooper) Process - OAC has no process in place for content management, stores all documents on a shared drive Infrastructure - ODOT does not have content mgt tool/leverage project wise and OMES maintains and serves as administrators for AX/Grooper; OTA uses intranet SharePoint site build/content hub for each division; application extender to track documents/purging some required; pursuing automation with Grooper Infrastructure - ODOT is lacking robust document security controls for public-facing documents Infrastructure – ODOT/OAC SLA development needed with OMES 	
	Key	Platform could be leveraged “as is”; Some strong practices	Platform functional; Upgrades driven by overall Modernization strategic prioritization	Platform in need of significant upgrade and/or support	Beyond Scope of Review

Information Technology: Inter-Agency Comparison (3 of 3)

Sub-Function	Agency Maturity Assessment			Supporting Observations
	People & Organization	Process & Performance	Infrastructure	
Application Software Development <ul style="list-style-type: none"> Develops applications for use Agency-wide 	ODOT-OMES OTA OAC-OMES	ODOT-OMES OTA OAC-OMES	ODOT OTA OAC-OMES	<ul style="list-style-type: none"> People - OTA developers are mostly contractors and trained on the job/developed by management Process - OTA has many custom built/developed applications for internal OTA customers, currently building out dashboards and metrics Infrastructure - ODOT has been using the same software from 1981 with limited institutional knowledge for maintaining and supporting legacy applications Infrastructure - OTA has a roadmap to sunset or bring legacy apps up to code
Data Services <ul style="list-style-type: none"> Provides database architecture and data management Generates reports for software produced, updates, server migrations, and repositories Supports 3rd party integrations 	ODOT-OMES OTA OAC-OMES	ODOT-OMES OTA OAC-OMES	ODOT-OMES OTA OAC-OMES	<ul style="list-style-type: none"> People - OTA has a great training program (cross training, person who's learning creates documentation), multiple points of contact for software and programs People: ODOT/OAC utilize OMES for Data Services Process - OTA could work more closely with ODOT/OMES, currently lacking SLAs Process – OTA is starting to build Power BI dashboards for ODOT Process/Infrastructure - : OTA has inconsistent KPIs, shares equipment and processes with ODOT
IT / Business Analyst <ul style="list-style-type: none"> Works with internal IT development team and divisions to plan project schedule 	ODOT-OMES OTA OAC-OMES	ODOT-OMES OTA OAC-OMES	ODOT-OMES OTA OAC-OMES	<ul style="list-style-type: none"> People - OTA need to develop clear enterprise-wide strategy for project prioritization People – OTA inter-department project management / Analyst roles and responsibilities can be unclear or mis-interpreted, especially in an agile framework environment Process - OTA reporting is time consuming and across many systems, informal and inconsistent KPIs Infrastructure - OTA IT can be reactive at times, is moving towards a proactive model

Key

Platform could be leveraged "as is"; Some strong practices

Platform functional; Upgrades driven by overall Modernization strategic prioritization

Platform in need of significant upgrade and/or support

Procurement: Focus Area Overview

Sub-Functions and Agency Breakdown

Sub-Functions	Key Responsibilities	ODOT Divisions	OTA Divisions	OAC Divisions
Contracts & Acquisitions	<ul style="list-style-type: none"> Manages contracting and procurement Creates task orders Utilizes statewide contracts 	Procurement	All OTA divisions	Grants Administrator & Operations
Purchase Orders	<ul style="list-style-type: none"> Creates purchase orders (POs) Districts create requisition requests (ODOT) Creates change orders Matches invoice and PO to send to AP (OTA only) 	Procurement & Districts 1-8	Administrative Services (Procurement)	Grants Administrator & Operations
Purchasing cards (P-card)	<ul style="list-style-type: none"> Manages P-card purchasing, approvals, training, and credit limit process New staff training and continuing education 	Procurement	N/A	Operations

*For ODOT, there is an additional construction bidding process with similar legal needs included in the construction focus area

Sub-Function Footnotes

ODOT		OTA	OTA does not use P-cards	OAC	
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Procurement: ODOT Profile (1 of 2)

Dedicated Personnel and Budget

Sub-Function	Divisions	FTE / % Class*	Personnel Cost*	Consultant Cost**
Contracts & Acquisitions	Procurement, Districts 1-8	27.5 / 100%	\$2,154,147	-
Leadership & Support	Procurement	3 / 100%	Hidden	\$4,682
Total		30.5	\$2,495,187	\$4,682

Volume of Work

Measure	Value
PO annual volume	~\$1.6B per year
P-card annual volume	~\$16.5M per year

Performance

KPI	Definition	Performance Measurement
Accuracy and Timeliness	POs are processed accurately and in a timely manner	<ul style="list-style-type: none"> Minimize POs with errors, minimize processing time
Request response time	Time to respond to requisition request	<ul style="list-style-type: none"> Minimize number of complaints received
Time to complete contracts	Time needed to complete contracts that are submitted for approval	<ul style="list-style-type: none"> 24-48 hours
Time spent training	Need to figure out how much time is spent	<ul style="list-style-type: none"> For P-cards, there's an annual requirement (12 annually for CPO certificate) Need something in claims area

Procurement: ODOT Profile (2 of 2)

IT Capabilities		
Key Applications	Function	Annual Cost*
ePRO	Cloud-based procurement system	Embedded in OMES MSA
DocuSign	Used for document signing	\$96K
PeopleSoft Financials	Receiving requisition requests from other divisions	\$0
SmartSheet	Dashboards, metrics	\$0.5K
Zoom	Video conferencing software	\$20K



Number of Applications



% Tailored/User-Developed

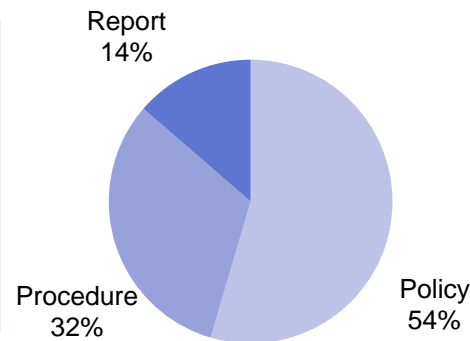


Total Annualized Cost

Policies and Procedures Documents

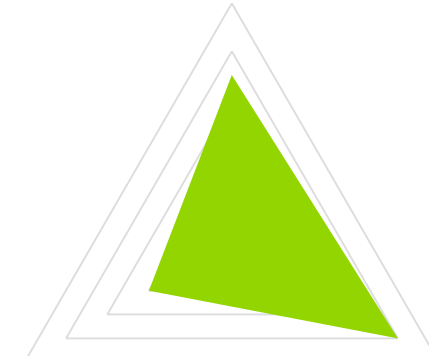
Key Policies and Procedures

- Procedure: Goods and services contracts are managed separately from the engineering and construction contracts
- Must follow the Brooks Act and state procurement policies
- All ODOT contracts are offered to OTA and OAC
- Separate Pcard process



Pain Points

People



Infrastructure

Process

People	<ul style="list-style-type: none"> • People are customizing systems for own purposes, which makes it difficult to share • Guarded environment, lots of opportunity to create culture of collaboration • Inadequate training (tracking IT contract cycle time)
Process	<ul style="list-style-type: none"> • It would be more efficient to have one central system • Lack of robust reporting • OMES contracts sometimes have high admin fees • Process to track expiring contracts is highly manual • No clear culture of KPIs, but have ability to do so • OMES processes change and is not clearly cascaded down into ODOT divisions
Infrastructure	<ul style="list-style-type: none"> • Peoplesoft does not have all modules needed • People using different systems (Oracle Apex customized locally)

Critical Pain Point

Procurement: OTA Profile (1 of 2)

Dedicated Personnel and Budget

Sub-Function	Divisions	FTE / % Class*	Personnel Cost*	Consultant Cost**
Contracts & Acquisitions	All	-	-	-
Purchase Orders	Administrative Services	1 / 0%	Hidden	-
P-cards	N/A	0	-	-
Leadership & Support	N/A	0	-	-
Total		1	*	-

This FTE's tasks also include damaged assets and risk management

Volume of Work

Measure	Value
Number of POs processed annually	~750 POs
Monetary volume of POs annually	\$51M dollars
Volume of requisition requests	40% from Maintenance Division 40% from IT 20% from Toll
Contracts shared with ODOT	20 contracts shared, 1 actively utilized
POs from Statewide (SW) contracts annually	~260 POs
Submitted invitations to bid	13 in 2020, 20 in 2019

Performance

KPI	Definition	Performance Measurement
Purchase order turnaround time	Time to process a PO request	<ul style="list-style-type: none"> Around 1 hour after receiving
Timeliness and quality of service	Response time & accurate processing	<ul style="list-style-type: none"> Goal for low response time and minimal customer complaints
Deadlines met for invitations to bid	Response time after bid has been sent out	<ul style="list-style-type: none"> Varies

Procurement: OTA Profile (2 of 2)

IT Capabilities

Key Applications	Function	Annual Cost*
Adobe Formfill	Document viewing and signing	\$1K
Microsoft Suite	Excel used to track all PO requests	\$ -
ApplicationXtender/Grooper/Scanner	Stores all POs and documents needed	\$ -
SignNow	For document signatures	\$ -



Number of Applications



% Tailored/User-Developed

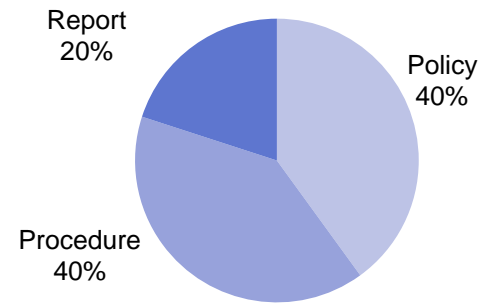


Total Annualized Cost

Policies and Procedures Documents

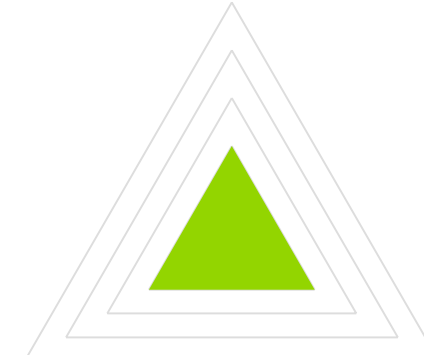
Key Policies and Procedures

- Largely follows the Oklahoma Purchasing Act
- OTA does not use P-cards
- Procedure: procurement also oversees risk management and damaged assets (Insurance for OTA and damage claims against OTA), damaged assets, and demolition for properties as part of any major construction program



Pain Points

People



Infrastructure

Process

People	<ul style="list-style-type: none"> • 1 staff responsible for all POs • 2 staff backups are cross trained / Burnout for existing employee
Process	<ul style="list-style-type: none"> • Requisitions are dispersed around OTA • Processes are manual, opportunity for automation (Power BI dashboard currently in TEST mode and data is currently being transferred)
Infrastructure	<ul style="list-style-type: none"> • Other divisions are able to request authorization to have access to Application Extender, which documents all contracts

Critical Pain Point

Procurement: OAC Profile (1 of 2)

Dedicated Personnel and Budget

Sub-Function	Divisions	FTE / % Class*	Personnel Cost*	Consultant Cost**
Contracts & Acquisitions	Operations, Airport Division	0.58 / 0%	Hidden	-
Leadership & Support	Operations	0	-	-
Total		0.58	^	-

Volume of Work

Measure	Value
Number of POs processed annually	~130 POs
Number of P-card transactions annually	~170 P-card transactions
Number of Change orders annually	~20 change orders
Number of invoices issued annually	~10-15 invoices

Performance

KPI	Definition	Performance Measurement
No Formalized KPIs currently		

Procurement: OAC Profile (2 of 2)

IT Capabilities

Key Applications	Function	Annual Cost*
Peoplesoft Financials	Used to track and enter POs	\$ -
Delphi	US DOT invoicing system	\$399



Number of Applications



% Tailored/User-Developed

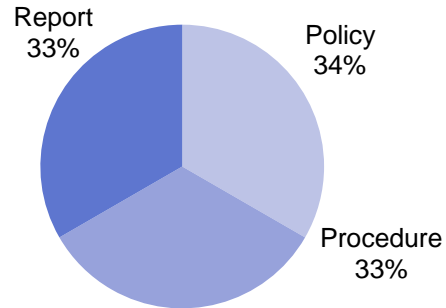


Total Annualized Cost

Policies and Procedures Documents

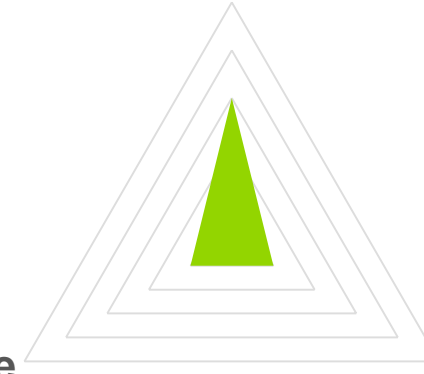
Key Policies and Procedures

- Procedure: PO creation is split between operations, airport projects, and change orders. POs over a certain amount must go through OMES
- Policy: Uses state's credit card for P-cards and OAC receives a rebate annually



Pain Points

People



Infrastructure

Process

People	<ul style="list-style-type: none"> • Short staffed-everyone wearing multiple hats
Process	<ul style="list-style-type: none"> • Leverages OMES statewide contracts more than they leverage ODOT/OTA shared contracts, Construction & Properties for construction projects requires more cycle time
Infrastructure	<ul style="list-style-type: none"> • Hard copies of contracts are kept in office

Critical Pain Point

Procurement: Inter-Agency Comparison (1 of 2)

Dedicated Personnel and Budget

	FTE	Classified	Personnel – Costs*	Consultant – Cost**
ODOT	30.5	100%	\$2.4M	\$5K
OTA	1	0%	\$117K	\$0
OAC	0.6	0%	Hidden	\$ -
Total	32.1	88%	\$2.5M	\$5K

Key Common IT Applications

Functionality	ODOT	OTA	OAC
Procurement system	Peoplesoft Financials (ePro)	Excel	Peoplesoft Financials
Purchase tracking	Peoplesoft Financials	Excel Power BI dashboard in testing	Peoplesoft Financials
Document Signing	DocuSign	Adobe Formfill, Grooper, SignNow	Adobe Sign
Document storage	ODOT shared drive	Application Xtender	Shared Drive

IT Spend

\$97K ODOT

\$1K OTA

\$0.4K OAC

Volume and Performance

Agency	Volume	Performance
ODOT	<ul style="list-style-type: none"> Annual PO volume: \$1.6B Annual P-card volume: \$16.7M 	<ul style="list-style-type: none"> Reduction in POs with errors PO turnaround time: ~48 hours Reduction in requisition response time Contract completion turnaround time
OTA	<ul style="list-style-type: none"> # / Value of POs processed annually: ~750 / ~51M Volume of requisition requests from each division 	<ul style="list-style-type: none"> Average PO turnaround time: 1 hour Rush vs Standard processing times
OAC	<ul style="list-style-type: none"> # of POs processed annually: ~130 # of annual P-card transactions: ~170 # of invoices issued annually: 10-15 	<ul style="list-style-type: none"> N/A

Procurement: Inter-Agency Comparison (2 of 2)

Sub-Function	Agency Maturity Assessment			Supporting Observations
	People & Organization	Process & Performance	Infrastructure	
Contracting / Acquisitions <ul style="list-style-type: none"> Manages contracting and procurement Utilizes statewide contracts Works with other divisions for requisition requests/needs 	<div style="background-color: #28a745; color: white; padding: 5px; text-align: center;">ODOT</div> <div style="background-color: #ffc107; color: black; padding: 5px; text-align: center;">OTA</div> <div style="background-color: #ffc107; color: black; padding: 5px; text-align: center;">OAC</div>	<div style="background-color: #ffc107; color: black; padding: 5px; text-align: center;">ODOT</div> <div style="background-color: #ffc107; color: black; padding: 5px; text-align: center;">OTA</div> <div style="background-color: #ffc107; color: black; padding: 5px; text-align: center;">OAC</div>	<div style="background-color: #dc3545; color: white; padding: 5px; text-align: center;">ODOT</div> <div style="background-color: #dc3545; color: white; padding: 5px; text-align: center;">OTA</div> <div style="background-color: #ffc107; color: black; padding: 5px; text-align: center;">OAC</div>	<ul style="list-style-type: none"> People - ODOT is well staffed and leverage statewide and local contracts. OTA/OAC contracting is not centralized under procurement Process - ODOT leverages existing contracts but responsibilities are split between two teams. OTA is decentralized contracting spread throughout Agency (IT, Maintenance, etc.). OAC, ODOT, & OTA IT utilizes statewide OMES central purchasing contracts, however, District offices report challenges with statewide contracting not yielding the best price or most effective method to deliver goods/services Infrastructure - ODOT/OTA have highly manual processes and need end-to-end automation and reporting capabilities Infrastructure – ODOT Engineering infrastructure is effective, however good & services needs new/better infrastructure
Purchase Orders <ul style="list-style-type: none"> Creates purchase orders (POs) Creates change orders and task orders 	<div style="background-color: #28a745; color: white; padding: 5px; text-align: center;">ODOT</div> <div style="background-color: #dc3545; color: white; padding: 5px; text-align: center;">OTA</div> <div style="background-color: #ffc107; color: black; padding: 5px; text-align: center;">OAC</div>	<div style="background-color: #ffc107; color: black; padding: 5px; text-align: center;">ODOT</div> <div style="background-color: #ffc107; color: black; padding: 5px; text-align: center;">OTA</div> <div style="background-color: #ffc107; color: black; padding: 5px; text-align: center;">OAC</div>	<div style="background-color: #dc3545; color: white; padding: 5px; text-align: center;">ODOT</div> <div style="background-color: #dc3545; color: white; padding: 5px; text-align: center;">OTA</div> <div style="background-color: #ffc107; color: black; padding: 5px; text-align: center;">OAC</div>	<ul style="list-style-type: none"> People - ODOT has a dedicated team for creating POs. OTA only has one staff with two cross-trained backups. OAC has adequate staffing for its small volume Process - ODOT/OTA have manual but structured processes for receiving, tracking, and sending out purchase orders Infrastructure - ODOT/OTA need to utilize technology to streamline the requisition to PO-creation process. Before COVID, paper processes were abundant. Power BI tracking tool is currently in TEST mode to be used
P-Cards <ul style="list-style-type: none"> Manages P-card purchasing, approvals, training, and credit limit process 	<div style="background-color: #28a745; color: white; padding: 5px; text-align: center;">ODOT</div> <div style="background-color: #28a745; color: white; padding: 5px; text-align: center;">OAC</div>	<div style="background-color: #ffc107; color: black; padding: 5px; text-align: center;">ODOT</div> <div style="background-color: #ffc107; color: black; padding: 5px; text-align: center;">OAC</div>	<div style="background-color: #ffc107; color: black; padding: 5px; text-align: center;">ODOT</div> <div style="background-color: #ffc107; color: black; padding: 5px; text-align: center;">OAC</div>	<ul style="list-style-type: none"> People - ODOT/OAC have adequate staff to address P-card volume Process - ODOT/OAC perform P-card approval, onboarding, training, and credit limit processes Infrastructure - ODOT/OAC processes are manual and mainly through email

Note: OTA does not utilize p-cards for purchases

Communications, Media, and PR: Focus Area Overview

Sub-Functions and Agency Breakdown

Sub-Functions	Key Responsibilities	ODOT Divisions	OTA Divisions	OAC Divisions
Comms/Media/PR	<ul style="list-style-type: none"> Daily communications with public about accidents and road closures Works with OK Highway patrol to get messages out via social media Manages public switchboard and manages public perception Provides PR counsel to other divisions and Agencies 	Media & Public Relations Division	Communications Director	Operations
Marketing	<ul style="list-style-type: none"> Buys TV station advertisements Utilizes social media and other platforms to increase PikePass usership/responsible for all social media Strategize and oversee Agency marketing campaigns for OTA and ODOT Coordinates with divisions on PikePass mobile store locations/setup and event marketing Responsible for graphic design of marketing materials In coordination with IT, website design and upkeep 	N/A (relies on OTA)	Marketing Specialist	N/A (relies on OTA)
Production/Content Creation	<ul style="list-style-type: none"> Produces videos and content for trainings, public announcements, internal Agency announcements, and other communication-related outputs 	Office Services Division Media & Public Relations Division	Marketing Specialist (Also relies on ODOT)	N/A (relies on ODOT)

Sub-Function Footnotes

ODOT	Marketing	OTA	Production	OAC	<ul style="list-style-type: none"> Marketing Production
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Communications, Media, and PR: ODOT Profile (1 of 2)

Dedicated Personnel and Budget

Sub-Function	Divisions	FTE / % Class*	Personnel Cost*	Consultant Cost**
Media/PR	Media & Public Relations	12 (4 vacant) / 90%	\$1,095,974	\$60,962
Marketing	N/A	0	N/A	\$ -
Production/ Content Creation/ Messaging	Office Services	13 (2 vacant) / 100%	\$1,198,395	\$ -
Total		25	\$2,294,369	\$60,962

Volume of Work

Measure	Value
Number of Likes on Facebook page	20,813 likes
Number of Followers on Twitter	37,800 followers
Facebook & Twitter engagement	-142K page impressions on Facebook -Increase in new net monthly followers on Twitter
Email communications to public	Email subscribers: 226K
Number of main switchboard phone line calls	400-500 calls per month

Performance

KPI	Definition	Performance Measurement
Positive to negative comment ratio	Percent of positive/negative comments	<ul style="list-style-type: none"> 90% positive now
ROI for posts	Engagement per post or public initiative	<ul style="list-style-type: none"> Currently not tracked, want to track in the future

Communications, Media, and PR: ODOT Profile (2 of 2)

IT Capabilities

Key Applications	Function	Annual Cost*
HootSuite	Social media tracking	\$11K
WordPress	Content creation	\$1K
Facebook, Twitter	Social Media	\$0
Intranet and ODOT website		\$ -
Merlin	Photo content storage application	\$ -



Number of Applications



% Tailored/User-Developed

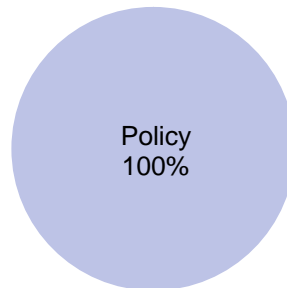


Total Annualized Cost

Policies and Procedures Documents

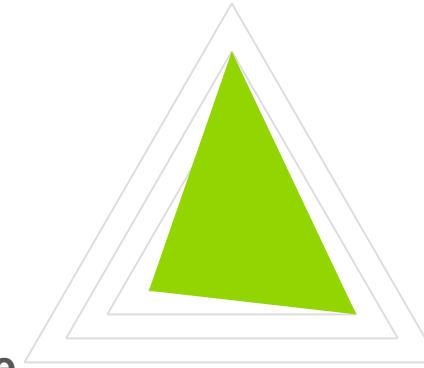
Key Policies and Procedures

- Procedure: Provides PR counsel for other divisions within ODOT
- Procedure: Leverages OTA when necessary for marketing capabilities



Pain Points

People



Infrastructure

Process

People	<ul style="list-style-type: none"> • Works closely with Office Services Division but sometimes conflicting deadlines and priorities arise • Desire to blend and share resources and staff with OTA/OAC beyond the informal • Resources feel limited against goals • Needs clarity around ownership, priorities, and roles, who is accountable for work with limited resources • Need a deeper understanding of how shared services operate (can report to one person but support multiple areas)
Process	<ul style="list-style-type: none"> • External customer sometimes is confused where to go between ODOT and OTA • Challenges with trying to reach new drivers vs not abandoning older demographic
Infrastructure	<ul style="list-style-type: none"> • No CRM tools or database, hard to keep track of all data and public communications • Need more IT support for teleworking, need a performance measurement system

Critical Pain Point

Communications, Media, and PR: OTA Profile (1 of 2)

Dedicated Personnel and Budget

Sub-Function	Divisions	FTE / % Class*	Personnel Cost*	Consultant Cost**
Media/PR	Director of Communication	0.5 / 0%	Hidden	\$ -
Marketing	Marketing Specialist	0.5 / 0%	Hidden	\$ -
Production / Content Creation	N/A	0.5 / 0%	Hidden	\$100,000
Vacant	N/A	0	N/A	\$ -
Total		1.5	\$196,949	\$100,000

Additional staff member from MPR team are included in the Facilities focus area, and is responsible for the service plaza management and building management

Volume of Work

Measure	Value
Number of Facebook likes on OTA page	16,804 likes
Number of Followers on Twitter	11,900 followers
Average website clicks per month	Driving Forward – 1,430 clicks PlatePay - 1,000 clicks
Average monthly impressions from TV advertisements (November 2020)	~200K impressions from KOCO 5 news station
Average annual earned media impressions (2020)	\$801,930
Contest entrance for new PikePass accounts	14,355 new accounts in 4 months

Performance

KPI	Definition	Performance Measurement
Public perception of OTA	Score of how the public perceives OTA	<ul style="list-style-type: none"> New PikePass accounts/passes issued (e.g. how many new passes after a big sports game)
Media impressions/earned media	Mentions in newspapers, media, etc..	<ul style="list-style-type: none"> After event, tracks how many impressions from the public
Public engagement analytics	Social media analytics, Pikepass.com website metrics	<ul style="list-style-type: none"> Pikepass.com clicks: Who's clicking, what are they clicking?

Communications, Media, and PR: OTA Profile (2 of 2)

IT Capabilities

Key Applications	Function	Annual Cost*
Facebook, Twitter	Social Media	\$0
Problem Reporter	Reports problems to public	In-house



Number of Applications



% Tailored/User-Developed

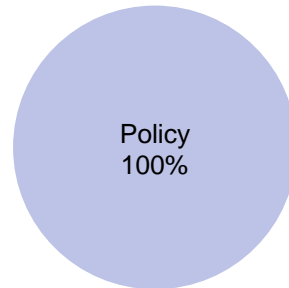


Total Annualized Cost

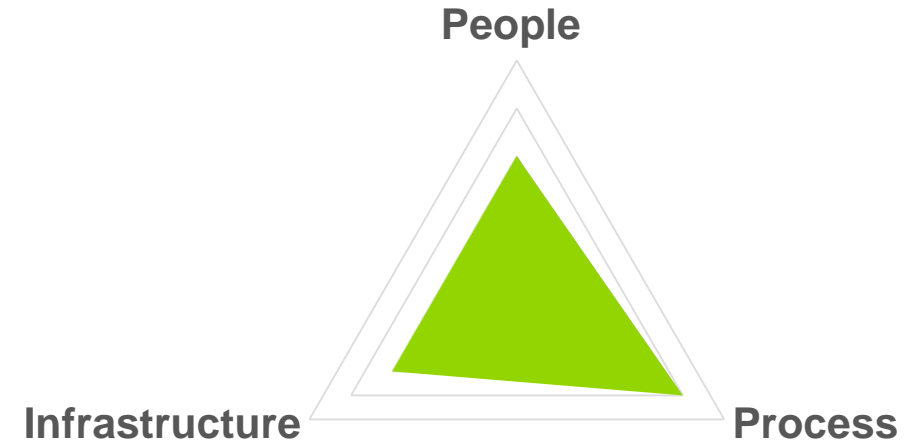
Policies and Procedures Documents

Key Policies and Procedures

- Publishes monthly accident report
- Procedure: shares PR graphics with ODOT
- Procedure: assists OAC with PR and press releases



Pain Points



People	<ul style="list-style-type: none"> • Difficult to attract talent due to salary constraints • Very short staffed in PR, uses graphics contractor • Relies on tribal knowledge
Process	<ul style="list-style-type: none"> • Marketing has historically not been a priority, slowly improving the image of OTA • Does not have a formal process to track metrics • Myths about PikePass • Ability to convert cash customer to a PikePass account is difficult (public mistrust or low usage)
Infrastructure	<ul style="list-style-type: none"> • Customers do not all have bank accounts so conversion to all-electronic tolling is difficult • Lack of PikePass mobile app

Critical Pain Point

Communications, Media, and PR: OAC Profile (1 of 2)

Dedicated Personnel and Budget

Sub-Function	Divisions	FTE / % Class*	Personnel Cost*	Consultant Cost**
Media/PR	Public Information & Government Affairs	0.25 / 0%	Hidden	-
Marketing	N/A	0	0	-
Production / Content Creation	N/A	0.25 / 0%	Hidden	-
Vacant	N/A	0	0	-
Total		0.5	Hidden	-

Volume of Work

Measure	Value
Number of Likes on Facebook page	2,895 likes 5,000 avg impressions/month
Number of Follows on Twitter	522 followers
Weekly "Flight Bytes" email newsletter	6,500 recipients, 95% success rate
Facebook engagement from different countries	Likes and follows from 54 countries

Performance

KPI	Definition	Performance Measurement
None tracked formally, tracking performed on an ad hoc basis		

Communications, Media, and PR: OAC Profile (2 of 2)

IT Capabilities

Key Applications	Function	Annual Cost*
Microsoft Suite	Word, Excel for creating PR materials	\$ -
Adobe InDesign	Creation of graphics and external materials	\$755
Facebook, Twitter	Communication with the general public	\$0



Number of Applications



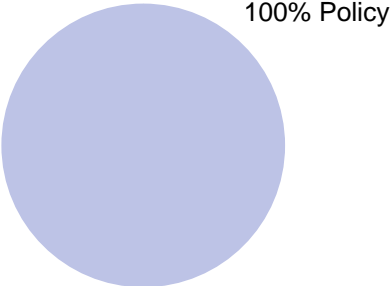
% Tailored/User-Developed



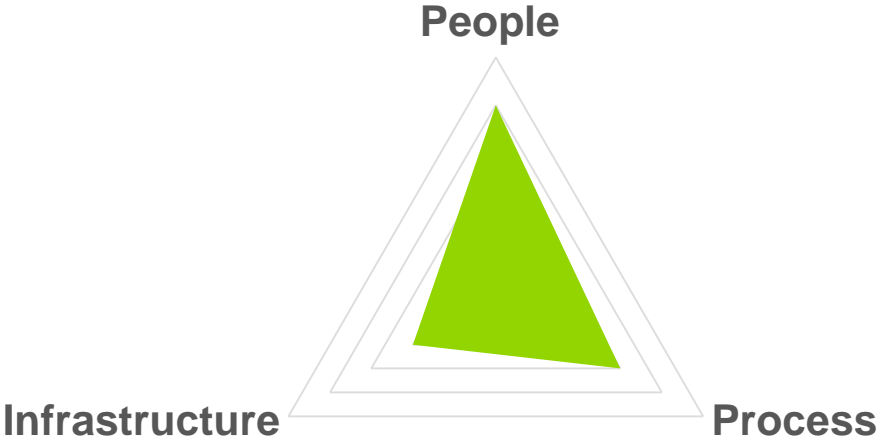
Total Annualized Cost

Policies and Procedures Documents

Key Policies and Procedures
<ul style="list-style-type: none"> Facebook and Twitter Guidelines



Pain Points



People	<ul style="list-style-type: none"> Short staffed, one part-time person oversees all Communications/PR No formalized collaboration structure with OTA/ODOT
Process	<ul style="list-style-type: none"> No formal metrics/KPIs tracked
Infrastructure	<ul style="list-style-type: none"> Does not have access to the same IT platforms as ODOT/OTA

Critical Pain Point

Communications, Media & PR: Inter-Agency Comparison (1 of 2)

Dedicated Personnel and Budget

	FTE	Classified	Personnel – Costs*	Contracted Labor/ Consultant – Cost**
ODOT	25	96%	\$2.3M	\$61K
OTA	1.5	0%	\$197K	\$100K
OAC	0.5	0%	Hidden	\$ -
Total	27	86%	\$2.5M	\$161K

Volume and Performance

Agency	Volume	Performance
ODOT	<ul style="list-style-type: none"> Current Facebook page likes: 20,813 Current Twitter followers: 37,800 HootSuite metrics for social media page logs 	<ul style="list-style-type: none"> % conversation negative to positive comments: 90% ROI/engagement per public post Public knowledge base—social media engagement Customer surveys (e.g. social media)
OTA	<ul style="list-style-type: none"> Current Facebook page likes: 16,804 Current Twitter followers: 11,900 Website clicks and TV advertisement viewership Clipping service/number of media hits 	<ul style="list-style-type: none"> OTA public perception score Customer surveys (e.g. social media)
OAC	<ul style="list-style-type: none"> Current Facebook page likes: 2,876 Current Twitter followers: 517 Average # of Facebook page impressions/month: 5,000 Weekly # of email newsletter recipients: 6,500 	<ul style="list-style-type: none"> N/A

Key Common IT Applications

Functionality	ODOT	OTA	OAC
Social Media metrics	HootSuite	-	-
Content Creation	WordPress	External Consultant	Adobe InDesign
Social Media	Facebook, Twitter	Facebook, Twitter	Facebook, Twitter
Problem Reporter	-	Problem Reporter	-
Web Pages	OMES is building a combined site for all three orgs & subscription services		
Digital applications	Drive Oklahoma application—for ODOT/OTA customers to check road conditions etc.. OTA IT builds & maintains OTA apps		

IT Spend

13K ODOT

\$- OTA

\$0.8K OAC

Communications, Media & PR: Inter-Agency Comparison (2 of 2)

Sub-Function	Agency Maturity Assessment			Supporting Observations
	People & Organization	Process & Performance	Infrastructure	
Communications/PR <ul style="list-style-type: none"> Daily communications with public about accidents and road closures Works with OK Highway patrol to get messages out via social media Manages public switchboard and manages public perception Provides PR counsel to other divisions and Agencies Produces videos and content for trainings, public announcements, internal Agency announcements, and other communication-related outputs 	<div style="background-color: #f4a460; padding: 5px; text-align: center;">ODOT</div> <div style="background-color: #f4a460; padding: 5px; text-align: center;">OTA</div> <div style="background-color: #f4a460; padding: 5px; text-align: center;">OAC</div>	<div style="background-color: #ffff00; padding: 5px; text-align: center;">ODOT</div> <div style="background-color: #ffff00; padding: 5px; text-align: center;">OTA</div> <div style="background-color: #ffff00; padding: 5px; text-align: center;">OAC</div>	<div style="background-color: #f4a460; padding: 5px; text-align: center;">ODOT</div> <div style="background-color: #ffff00; padding: 5px; text-align: center;">OTA</div> <div style="background-color: #ffff00; padding: 5px; text-align: center;">OAC</div>	<ul style="list-style-type: none"> People - ODOT has the opportunity to leverage OTA for marketing campaigns, ODOT PR can support OTA's image and can blend and share resources (willing to pursue this path); OTA has one person managing all Media and Public Relations (MPR) and there's difficulty attracting talent due to salary restrictions; OAC has one person handling all MPR and relies on ODOT/OTA for support People - ODOT/OTA – some people are resistant and nervous of change and collaboration; also need to recalibrate on the mindset of a good image (e.g. Agency image is not 7:30AM-4:30PM, it's 24/7) Process - ODOT customers get confused between ODOT and OTA, they could provide more consistency in messaging to the public; OTA does not have formal process to track metrics; OAC heavily leverages ODOT and OTA for press release revisions Infrastructure - ODOT technology is antiquated, and need technology ability to communicate with public in a timely manner Infrastructure - All Agencies have access to social media metrics in some form
Marketing <ul style="list-style-type: none"> Buys TV station advertisements Utilizes social media and other platforms to increase PikePass usership 	<div style="background-color: #ffff00; padding: 5px; text-align: center;">OTA</div>	<div style="background-color: #00b050; padding: 5px; text-align: center;">OTA</div>	<div style="background-color: #ffff00; padding: 5px; text-align: center;">OTA</div>	<ul style="list-style-type: none"> People - OTA has one dedicated staff to Marketing and social media and hires an external firm for graphics and content creation support Process - OTA assist ODOT/OAC for marketing and PR needs through informal processes, including TV advertisements and press release revisions. They also share PR graphics with ODOT Infrastructure - OTA utilizes social media tracking software to track public sentiment, relies on TV stations for advertising metrics and measures
Production / Content Creation <ul style="list-style-type: none"> Produces videos and content for trainings, public announcements, internal Agency announcements, and other communication-related outputs 	<div style="background-color: #ffff00; padding: 5px; text-align: center;">ODOT</div> <div style="background-color: #ffff00; padding: 5px; text-align: center;">OTA</div> <div style="background-color: #f4a460; padding: 5px; text-align: center;">OAC</div>	<div style="background-color: #f4a460; padding: 5px; text-align: center;">ODOT</div> <div style="background-color: #ffff00; padding: 5px; text-align: center;">OTA</div> <div style="background-color: #ffff00; padding: 5px; text-align: center;">OAC</div>	<div style="background-color: #ffff00; padding: 5px; text-align: center;">ODOT</div> <div style="background-color: #ffff00; padding: 5px; text-align: center;">OTA</div> <div style="background-color: #ffff00; padding: 5px; text-align: center;">OAC</div>	<ul style="list-style-type: none"> People – Highly skilled content creation staff reside in all three Agencies; OTA is aided by an external PR firm for graphics/PR support. OAC staff recently reduced from 1 FTE to 0.5 FTEs, relies heavily on other Agency's support Process - ODOT has very good graphics and video production people but MPR does not have adequate and direct access to these areas and resources Infrastructure - Lack of centralized tool or set of tools between Agencies; technology silos exist

Key

Platform could be leveraged "as is"; Some strong practices

Platform functional; Upgrades driven by overall Modernization strategic prioritization

Platform in need of significant upgrade and/or support

Audit: Focus Area Overview

Sub-Functions and Agency Breakdown

Sub-Functions	Key Responsibilities	ODOT Divisions	OTA Divisions	OAC Divisions
Internal Audit	<ul style="list-style-type: none"> Creates annual internal audit plan to assess risk within different divisions Performs risk assessments of projects Presents recommendations to divisions post-audit Sends reports to leadership and state auditors (ODOT only) 	Districts 1-8, and Operations Review & Evaluation	Internal Audit	N/A
External Audit (ODOT only)	<ul style="list-style-type: none"> Performs audits and releases recommendations and findings Works with state CPAs and ensures projects are compliant with federal and state rules, regulations, and laws Audits utility relocation and railroad projects, as well as materials and labor 	Districts 1-8, and Operations Review & Evaluation	N/A	N/A
External Audit	<p>Government-mandated Audits</p> <p>Bondholder-mandated Audits</p> <ul style="list-style-type: none"> Bondholders require an external CPA audit of financial reports annually 	State Auditor and OMES	Internal Audit & External CPA audit for bondholders	State Auditor and OMES

Sub-Function Footnotes

ODOT		OTA	<ul style="list-style-type: none"> No external audit in-house (utilizes external CPA) 	OAC	<ul style="list-style-type: none"> No internal or external audit in-house
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Audit: ODOT Profile (1 of 2)

Dedicated Personnel and Budget

Sub-Function	Divisions	FTE / % Class*	Personnel Cost*	Consultant Cost**
Internal Audit	Audit	4 / 75%	Hidden	\$ -
External Audit	Audit	5 / 100%	\$541,695	\$ -
Leadership & Support	Audit	2 / 50%	Hidden	\$306,138.57
Vacant	Audit	0	N/A	\$ -
Total		11	\$1,255,748	\$306,138.57

Volume of Work

Measure	Value
External Audit requests per month	70-80 requests
External Audits completed annually	~300 audits
External Audit annual hours	8,840 hours
Internal Audit annual hours	5,530 hours

Performance

KPI	Definition	Performance Measurement
External monthly reports	Monthly reports for committee that shows different types of audits and findings	<ul style="list-style-type: none"> Report accuracy
Audit plan progress reports	Show progress on annual audit plan and status of audits	<ul style="list-style-type: none"> Started, planning, field, reporting phase

Audit: ODOT Profile (2 of 2)

IT Capabilities

Key Applications	Function	Annual Cost*
Engagement Audit Software	Audit software used by state auditors	\$8K
Legacy accounting system	Oracle BI system for data storage	\$ -
Microsoft Suite	Excel used to track audits	\$ -
Convercent	Internet-based, audit hotline software	\$5K



Number of Applications



% Tailored/User-Developed

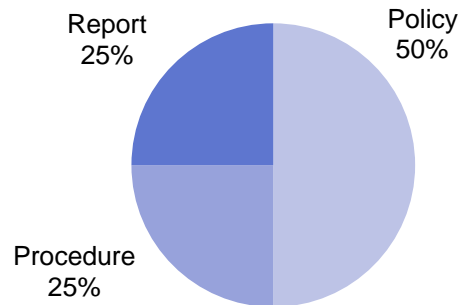


Total Annualized Cost

Policies and Procedures Documents

Key Policies and Procedures

- Internal Audit Policy: Uses Red book (institute of internal auditors)
- External Audit Policy: Uses Yellow book (statewide general practices)
- Procedures: ODOT specific audit manual



Pain Points

People



Infrastructure

Process

People	<ul style="list-style-type: none"> • Need more cross-training, tribal knowledge sometimes lost due to retirements and resignations • Takes a lot of training for new people in specialized roles, many vacant roles in the horizon (as early as 2021)
Process	<ul style="list-style-type: none"> • Processes between internal and external audit differ • Risk assessments may not reflect the highest risk • Need more robust process to follow-up on audit findings
Infrastructure	<ul style="list-style-type: none"> • Currently using legacy accounting system, opportunity to move to more modern software • Overall ODOT infrastructure improvements would enable audit speed and accuracy

Critical Pain Point

Audit: OTA Profile (1 of 2)

Dedicated Personnel and Budget

Sub-Function	Divisions	FTE / % Class*	Personnel Cost*	Consultant Cost**
Internal Audit	Internal Audit	4 / 100%	Hidden	-
External Audit	N/A	0	-	-
Leadership & Support	Internal Audit	1 / 0%	Hidden	-
Vacant	Internal Audit	2 / 50%	Hidden	-
Total		7	\$547,895	-

Volume of Work

Measure	Value
Number of audits performed annually (construction, maintenance, accounting, engineering, miscellaneous)	~60 audits
Audit reports with follow-ups (in constant contact with auditee throughout the audit process, no follow-up needed)	N/A
Quality Assurance and reconciliation accuracy for toll collectors	~400 audits/checks
Transcore coin machine audits	~30 audits
Purchasing/procurement audit	1 annual audit

Performance

KPI	Definition	Performance Measurement
Auditor's time spent	Capturing where each auditor's time is spent	<ul style="list-style-type: none"> N/A currently, looking to build out that capability; working with IT
Toll collection error rates	Errors captured in audit and passed along to Toll division	<ul style="list-style-type: none"> Must have 1% Error rate or less to be considered acceptable
IVIS Equipment accuracy verification	Ensures that vehicles are being identified and upcharged correctly	<ul style="list-style-type: none"> Target 95%+ accuracy rate

Audit: OTA Profile (2 of 2)

IT Capabilities

Key Applications \$	Function	Annual Cost*
EPPS	Used for construction audits	\$10 K
Microsoft Suite	Excel used to create spreadsheets/track audits, Word used to create reports	\$ -
OTA custom audit reports	Data pulled and reports generated by IT for toll reports online (coin and toll collector audits)	\$ -
SSRS Reports	Used to generate reports for audits	\$ -



Number of Applications



% Tailored/User-Developed

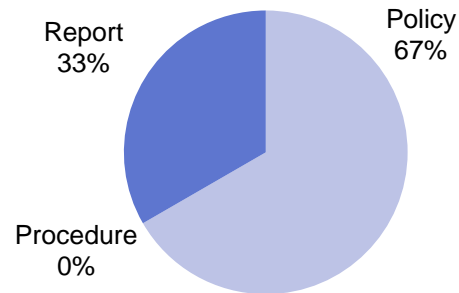


Total Annualized Cost

Policies and Procedures Documents

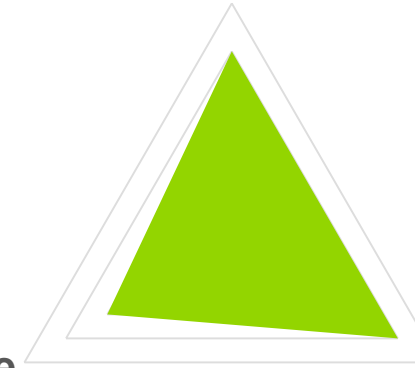
Key Policies and Procedures

- Procedure: Audit programs for most but not all audits (toll collector audits)
- Policies: no regulatory requirements from states, but must adhere to bond covenants



Pain Points

People



Infrastructure

Process

People,

- Very small group with vacancies
- Lack documentation of tribal knowledge and succession planning

Process

- Internal audit process could be supported with additional documentation
- Looking to build up KPIs and capture where audit hours are spent

Infrastructure

- Documents used for audits are paper-based to an extent
- Need a consolidated place for document storage (currently stored locally and scattered)

Critical Pain Point

Audit: Inter-Agency Comparison (1 of 2)

Dedicated Personnel and Budget

	FTE	Classified	Personnel – Costs*	Consultant/ Professional Services – Cost
ODOT	11	80%	\$1.3M	\$306K
OTA	7	71%	\$548K	\$0
OAC	0	-	-	-
Total	18	77%	\$1.8M	\$306K

Key Common IT Applications

Function	ODOT	OTA	OAC
Audit Software	Engagement Audit Software	OTA custom apps	N/A
Audit tracking	Excel	Excel	N/A
Financial systems	Legacy accounting system	-	N/A
Audit reports	Oracle BI	OTA custom apps, SQL	N/A

IT Spend

13K ODOT

\$10K OTA

- OAC

Volume and Performance

Agency	Volume	Performance
ODOT	<ul style="list-style-type: none"> # of Monthly external audit requests: 70-80 # of annual external audits: ~300 Annual external audit hours: 8,840 Annual internal audit hours: 5,530 	<ul style="list-style-type: none"> Report accuracy of monthly external audit reports Regular audit plan progress reports, typical timing for each type of audit
OTA	<ul style="list-style-type: none"> Number of audits performed annually (construction, maintenance, accounting, engineering, miscellaneous): ~60 Quality Assurance and reconciliation accuracy for toll collectors: ~400 # of annual purchasing audits: 1 	<ul style="list-style-type: none"> Toll collection error rate: <1% Target accuracy rate for IVIS vehicle identification: 95%+
OAC	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> N/A

Audit: Inter-Agency Comparison (2 of 2)

Sub-Function	Agency Maturity Assessment			Supporting Observations
	People & Organization	Process & Performance	Infrastructure	
Internal Audit <ul style="list-style-type: none"> Creates annual internal audit plan to assess risk within different districts Evaluates highest risk Presents recommendations to districts post-audit Reports to leadership and state auditors Audits utility relocation and railroad projects, as well as materials and labor 	<div style="background-color: #ff9933; padding: 5px; text-align: center;">ODOT</div> <div style="background-color: #ff9933; padding: 5px; text-align: center;">OTA</div>	<div style="background-color: #ff9933; padding: 5px; text-align: center;">ODOT</div> <div style="background-color: #ffff00; padding: 5px; text-align: center;">OTA</div>	<div style="background-color: #ffff00; padding: 5px; text-align: center;">ODOT</div> <div style="background-color: #ffff00; padding: 5px; text-align: center;">OTA</div>	<ul style="list-style-type: none"> People - ODOT foresees many vacant roles on the horizon (2021) and is concerned with loss of tribal knowledge, providing a lot of training for specialized roles and a need more cross training. OTA lacks documentation of tribal knowledge and succession planning Process - ODOT lacks a robust protocol to follow-up on audit findings; and risk assessments may not reflect the highest risk. OTA would benefit from additional documentation and knowledge management of audit process, however a smaller division and co-location lessens the priority currently Infrastructure – ODOT’s old accounting software is old and all would benefit from improvements within districts; They are moving to Engagement in 2021. OTA’s reports performed in Excel and would benefit from other technologies for reporting, currently in process of being transitioned to Quickbase Dashboards
<p>Note: OAC does not conduct internal audits</p>				
External Audit - Financial Statement <ul style="list-style-type: none"> Performs audits and releases recommendations and findings Works with state CPAs and ensures projects are compliant with federal and state rules, regulations, and laws 	<div style="background-color: #ffff00; padding: 5px; text-align: center;">OTA</div> <div style="background-color: #ffff00; padding: 5px; text-align: center;">OAC</div>	<div style="background-color: #ffff00; padding: 5px; text-align: center;">OTA</div> <div style="background-color: #ffff00; padding: 5px; text-align: center;">OAC</div>	<div style="background-color: #cccccc; padding: 5px; text-align: center;">OTA</div> <div style="background-color: #cccccc; padding: 5px; text-align: center;">OAC</div>	<ul style="list-style-type: none"> People -OTA – internal auditors assist with inputs (e.g. end-of-year inventory counts, construction contract audits) to review financial statements Process - OTA – Leverages 3rd party CPAs; OAC – audits conducted by OMES central purchasing and the state Infrastructure - N/A
<p>Note: ODOT external audit conducted by State Auditor’s Office</p>				
External Audit - Quality Assurance	<div style="background-color: #ffff00; padding: 5px; text-align: center;">ODOT</div>	<div style="background-color: #ffff00; padding: 5px; text-align: center;">ODOT</div>	<div style="background-color: #ffff00; padding: 5px; text-align: center;">ODOT</div>	<ul style="list-style-type: none"> People - ODOT role is more of quality assurance - audit projects and take an external look at select contracts and evaluate reimbursable amounts and agree to monies

Facilities and Land Management: Focus Area Overview

Sub-Functions and Agency Breakdown

Sub-Functions	Key Responsibilities	ODOT Divisions	OTA Divisions	OAC Divisions*
Facilities Construction	<ul style="list-style-type: none"> Assessing facility condition Identifying and planning facility capital improvement projects Building / re-building maintenance yards, residencies, and HQ buildings 	Facilities (Const. Project Mgmt.)	Maintenance Engineering Construction Communications and Facilities	N/A
Facilities Maintenance & Management	<ul style="list-style-type: none"> Maintenance of existing facilities Execution of administrative activities such as vendor payments, lease payments, contract management etc... Managing the Port of Entries 	District Offices (Maint. Techs)	Maintenance (Mech.Techs/Turnpike Crews) Communications and Facilities	Chief Operations Officer
Lease Management	<ul style="list-style-type: none"> Management of all leases for Agency owned property 	Facilities (Lease Manager)	Communications and Facilities	N/A
Right of Way	<ul style="list-style-type: none"> ROW acquisition primarily for Construction Project Activities Surplus property disposal and highway removal 	Facilities (Surplus Property) ROW	Construction (Administration)	N/A

Sub-Functions Footnotes

ODOT		OTA	<ul style="list-style-type: none"> Lease Management Special Programs 	OAC	<ul style="list-style-type: none"> OAC is not responsible for any Sub-Functions within this category except Facilities Management
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Facilities and Land Management : ODOT Profile (1 of 2)

Dedicated Personnel and Budget

Sub-Function	Divisions	FTE / % Class*	Personnel Cost*	Consultant Cost**
Facilities Construction	Facilities	2 / 100%	Hidden	\$655,740
Facilities Maintenance & Management	District Offices	16 / 100%	\$1,242,532	\$655,740
Lease Management	Facilities	1.25 / 100%	Hidden	Not Available
Right of Way	Facilities ROW	57 / 93%	\$5,849,226	\$8,955,365
Administrative	All	5 / 100%	\$706,657	N/A
Vacancies	All	4	Hidden	N/A
Total		85.25	\$ 8,435,124	\$ 10,266,845

Volume of Work

Measure	Value
Annual Number of Facilities Constructed - FY19	2 / \$ 20 M
Number of Appraisals prepared – FY19	509
Appraisals of Surplus Properties Conducted – FY19	29
Number of Land Parcels Secured in FY19/Associated Cost	1,063 / \$41 M
Annual parcels of Surplus Property Sold - FY19	46 / \$2 M

Performance

KPI	Definition	Measure
Percent of Facilities Constructed On-time - FY19	Percent of Facilities Constructed On-time	100%
Percent of Facilities Constructed Under-budget - FY19	Percent of Facilities Constructed Under-budget	0% / +2.7% on average
Total Legal Settlements and Jury Verdicts over ROW offers and % difference – FY19	The difference between the final ROW costs and the original ROW offer for cases that were settled or litigated	\$2.58M / 57%
Number and percentage of projects certified for the scheduled letting – FY19	Number and percentage of projects certified for the scheduled letting (does not include LG projects or project not requiring ROW)	121 / 100%

Facilities and Land Management : ODOT Profile (2 of 2)

IT Capabilities

Key Applications	Function	Annual Cost*
Bentley MicroStation	CAD design and drafting	\$750 K
ESRI Stack	Facility geolocation	\$444 K
Agile Assets	Inventory of all facility assets	\$1 M
C-Cure 9000	Manages badges and badge readers	\$7 K
PV Plus	Identification of adjacent landowners	\$22 K



Number of Applications



% Tailored/User-Developed

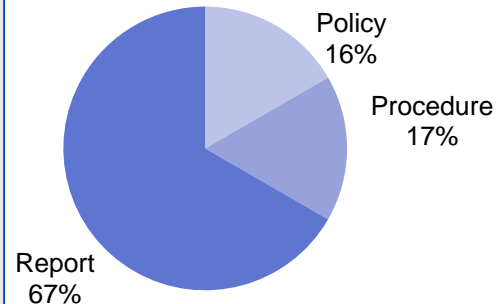


Total Annualized Cost

Policies and Procedures Documents

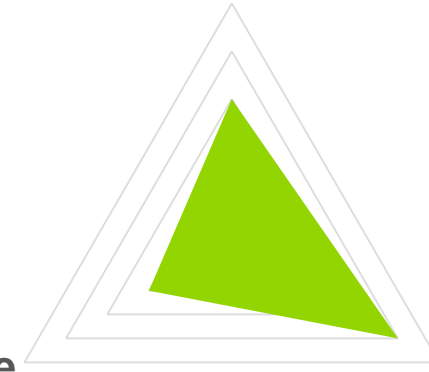
Key Policies and Procedures

- [FMD Asset Management Plan 2020](#)
- [Field Division Preventative Maintenance Checklist](#)
- [Property Management Manual](#)
- [ODOT Facility Locations](#)
- [ODOT/OTA/OAC- 2019 Real Property Asset Data](#)
- [ODOT ROW Manual](#)



Pain Points

People



Infrastructure

Process

People	<ul style="list-style-type: none"> • A lot of experience will be lost soon when Managers begin to retire across the divisions; Relocation will significantly be affected • District techs have varying levels of experience, formal certifications, and experience • Lack of coordination between resources who do buying/selling of land because they are in 2 separate divisions and report to different executives
Process	<ul style="list-style-type: none"> • Centralization will be a difficult process due to field resources tending to listen to field supervisors vs those at Headquarters • There is no broader facilities strategy that also includes the consideration of surplus properties • Working with utility companies and working around the federal regulations causes delays • To receive federal funding for Environmental projects the NEPA process must be completed which causes slow downs
Infrastructure	<ul style="list-style-type: none"> • Facility footprint outweighs Department need resulting in lack of sufficient funding for capital improvements (timeline extended to 2048) and staff (2 centralized PMs) to maintain existing facilities • Lack of a true technological support/partner is hindering the meeting of business needs

Critical Pain Point

Facilities and Land Management : OTA Profile (1 of 2)

Dedicated Personnel and Budget

Sub-Function	Divisions	FTE / % Class*	Personnel Cost*	Consultant Cost**
Facilities Construction	Engineering Maintenance Construction	0.5 / 100%	Hidden	\$905,357
Facilities Maintenance & Management	Maintenance Comms & Facilities	6.25 / 100%	\$ 450,578	\$160,069
Lease Management	Comms & Facilities	0.75 / 0%	Hidden	\$ -
Right of Way	Construction	0.33 / 100%	Hidden	\$1,351,497
Special Programs	N/A	N/A	N/A	N/A
Administrative	All	N/A	N/A	N/A
Vacancies	All	0	N/A	N/A
Total		7.83	\$ 619,001	\$ 2,416,923

Volume of Work

Measure	Value
New facilities being built in 2020-2021	7 facilities / \$ 5 M
Building and Equipment Repairs - FY19	15,492 hours / \$831 K
Annual Number of Land parcels Acquired - FY19	119 parcels
Annual Spend to Secure ROW - FY19	\$18 M
Annual parcels of Surplus Property Sold - FY19	17 parcels surplus / 8 sold for \$311K
Headquarters Maintenance Expenses – FY19	\$78 K
Man Hours for Toll Repairs	3,490 / \$ 296 K

Performance

KPI	Definition	Measure
Capital Improvement	Capital Improvement Plan for Facilities	Completion of all listed projects
ROW Acquisitions and Disposal – FY19	Annual Number, and percentage, of parcel acquisition that was over OTA offer	58 / 49% over
Lease Management	Annual Lease True-ups of lease revenue to OTA	Completion of all lease true ups for timely payments from Lessees

Facilities and Land Management : OTA Profile (2 of 2)

IT Capabilities

Key Applications	Function	Annual Cost*
Parcel Viewer	Used to view ROW parcel documents	\$ -
Alert Media	Mass notifications across existing infrastructure	\$8 K
C-Cure 9000 / Bravo	Manages badges and badge readers at HQ and Customer Service Centers	\$7 K
TeamGo - Visitor Management	Non-employee / Visitor tracking at HQ & Customer Service Centers	\$529



Number of Applications



% Tailored/User-Developed

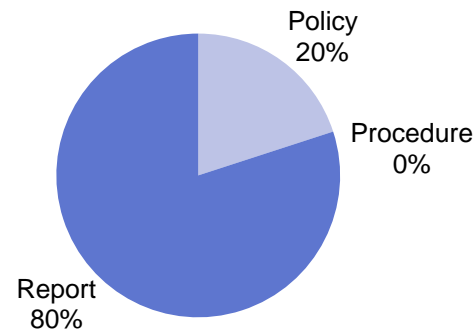


Total Annualized Cost

Policies and Procedures Documents

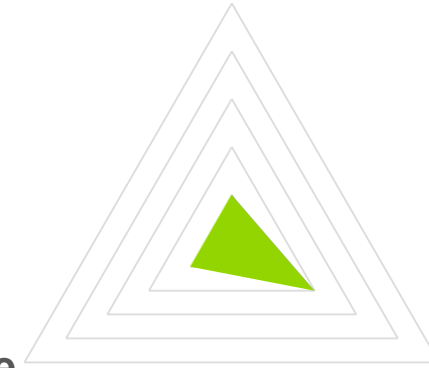
Key Policies and Procedures

- [Quail Brook Plaza Lease Agreement](#)
- [Comprehensive Facilities Catalog](#)
- [OTA Floorplan](#)
- [PikePass Memorial Building Layout](#)



Pain Points

People



Infrastructure

Process

People	<ul style="list-style-type: none"> • Insufficient staff to manage ROW acquisition and disposal and a significant portion of activities needs to be contracted to consultants to meet timelines
Process	<ul style="list-style-type: none"> • ROW processes had to be built from the ground up by ODOT Construction Administration Staff Member • No feedback processes and a lack of transparency makes it hard to stay "in the loop" within Communication and Facilities Management
Infrastructure	<ul style="list-style-type: none"> • Manual paper processes with a lot of redundancies within Communication and Facilities

Critical Pain Point

Facilities: Inter-Agency Comparison (1 of 3)

Dedicated Personnel and Budget

	FTE	Classified	Personnel – Costs*	Consultant – Cost**
ODOT	85.3	95.1%	\$8 M	\$10 M
OTA	7.8	80.8%	\$619 K	\$2 M
OAC	N/A	N/A	N/A	N/A
Total	93.1	88%	\$9 M	\$12 M

Volume and Performance

Agency	Volume	Performance
ODOT	<ul style="list-style-type: none"> FY19 # / cost of Facilities Constructed: 2 / \$ 20.5 M FY19 # of Appraisals prepared: 509 FY19 # of Appraisals of Surplus Properties Conducted: 29 FY19 # of Land Parcels Secured / Associated Cost: 1,063 / \$41.1M FY19 # of parcels of Surplus Property Sold: 46 / \$2.4 M 	<ul style="list-style-type: none"> FY19 % of Facilities Constructed On-time: 100% FY19 % of Facilities Constructed Under-budget: 0% / +2.7% average FY19 value / % of Legal Settlements over ROW offers in FY19: \$2.58M / 57% FY19 # and % of Projects certified for the scheduled letting: 121 / 100%
OTA	<ul style="list-style-type: none"> FY21 New facilities being built: 7 facilities / \$ 5.3 M FY19 # of Land Parcels Secured / Associated Cost: 119 / \$18.4M FY19 # of parcels of Surplus Property Sold: 8 / \$311K FY19 Headquarters Maintenance Expenses - \$78.7 K F19 Building and Equipment Repairs: 15,492 hours / \$831 K Fy19 Man Hours for Toll Repairs - 3,490 / \$ 296,257 	<ul style="list-style-type: none"> FY19 Capital Improvement - Completion of all listed projects FY19 # and % ROW Acquisitions over offer: 58 / 49% over FY19 Lease Management - Completion of all lease true ups for timely payments
OAC	N/A	N/A

Key Common IT Applications

Function	ODOT	OTA	OAC
Project Management	ProCore	MS Suite	N/A
Workflow Management	PowerBI	MS Suite	N/A
Data Management	ESRI	MS Suite	N/A
Core Function	MicroStation	ParcelViewer	N/A

IT Spend

\$2.7M ODOT

\$8K OTA

N/A OAC

Facilities: Inter-Agency Comparison (2 of 3)

Sub-Function	Agency Maturity Assessment			Observations
	People & Organization	Process & Performance	Infrastructure	
<p>Facilities Construction</p> <ul style="list-style-type: none"> Assessing facility condition Identifying and planning facility capital improvement projects Building / re-building maintenance yards, residencies, and HQ buildings 	<p>ODOT</p> <p>OTA</p>	<p>ODOT</p> <p>OTA</p>	<p>ODOT</p> <p>OTA</p>	<ul style="list-style-type: none"> People – ODOT has a team of 2 dedicated resources to manage all aspects of Facilities construction across all the Districts. However, OTA utilizes different resources across different divisions in order to do the Planning (Maintenance), Portfolio Management (Engineering), and Execution (Construction) Process – ODOT has a Facilities Rebuild Plan that spans to 2048. This will result in some structures surpassing 100 years of age and has the potential to be very costly in the near future. OTA lacks formal documented processes Process – ODOT has a disconnect between having excess ROW and facilities construction because there isn't a focus on aligning your divisions goals with the goals of the other divisions Infrastructure - ODOT has an "industry standard" facilities construction project management software applications in ProCore and Bentley MicroStation. OTA currently utilizes Microsoft Suite of products, however VueWorks will be implemented selectively within the next 3 months and rolled out across the Agency within 1-2 years
<p>Facilities Maintenance & Management</p> <ul style="list-style-type: none"> Maintenance of existing facilities Execution of administrative activities such as vendor payments, lease payments, contract management etc... Managing the Port of Entries 	<p>ODOT</p> <p>OTA</p>	<p>ODOT</p> <p>OTA</p>	<p>ODOT</p> <p>OTA</p>	<ul style="list-style-type: none"> People – ODOT has a single centralized resource who is responsible for maintenance and management of facilities across the entire state with the help of maintenance techs from the Districts. However, these District resources are sometimes deployed to highway maintenance activities, diluting their ability to attend to maintenance needs. OTA utilizes their Maintenance Division's Mech.Tech. positions for basic maintenance needs (HVAC, electrical, etc.), and their turnpike crews for more major facilities maintenance functions Process – ODOT and OTA currently utilize a decentralized process to conduct their facilities maintenance activities. This might create siloed data and reporting which could hamper proactive maintenance activities. OTA lacks formal documented processes Infrastructure - ODOT has an "industry standard" facilities maintenance and management software applications in Agile Assets and the ESRI "stack." OTA, on the other hand, utilizes a host of applications from Microsoft Suite of products in order to manage their facilities management

Note: For OAC the only facilities obligation is managing office space; therefore, there is very little to report on volume, performance, IT, and Pain Points

Note: For OAC the only facilities obligation is managing office space; therefore, there is very little to report on volume, performance, IT, and Pain Points

Key	Platform could be leveraged "as is"; Some strong practices	Platform functional; Upgrades driven by overall Modernization strategic prioritization	Platform in need of significant upgrade and/or support
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Facilities: Inter-Agency Comparison (3 of 3)

Sub-Function	Agency Maturity Assessment			Observations
	People & Organization	Process & Performance	Infrastructure	
<p>Right of Way</p> <ul style="list-style-type: none"> ROW acquisition primarily for Construction Project Activities Surplus property disposal and highway removal 	ODOT	ODOT	ODOT	<ul style="list-style-type: none"> People – OTA has a single resource to manage right of way, however a large portion of the work is outsourced to consultants (Driving Forward and Poe) to ensure that recent historical ROW acquisition met pre-construction/design schedules. ODOT has a large pool of dedicated resources who are responsible for all aspects of acquisition. ROW disposal responsibilities lie within Facilities Management that are executed by a smaller pool of resources Process – ODOT has comprehensive formal documentation for its ROW acquisition processes and their efforts yield positive results. ODOT owns a lot of property that is unaccounted for and a tedious process of cataloguing these properties is currently underway. There seems to have been a lack of a concrete methodology/tools in the past to track all these properties, and there still might be a gap in terms of a defined process for the current situation. OTA tries to structure their ROW processes to that of ODOT but can bypass any federal requirements while adding OTA specific customizations Infrastructure – ODOT uses many software tools in order to facilitate right of way management, such as: PVPlus and Net Deed Plotter. OTA, on the other hand, utilizes Microsoft applications along with Parcel Viewer, however
	OTA	OTA	OTA	

Note: For OAC the only facilities obligation is managing office space; therefore, there is very little to report on volume, performance, IT, and Pain Points

Key

Platform could be leveraged "as is"; Some strong practices

Platform functional; Upgrades driven by overall Modernization strategic prioritization

Platform in need of significant upgrade and/or support