



1. Solicitation #: 24-PROC-0007

2. Solicitation Issue Date: 11/16/2023

3. Brief Description of Requirement:

Purpose: Request for Information (RFI) for Transportation Related Digital Delivery Services.

Questions regarding this RFI are to be submitted via the Smartsheet located at the address listed on Page 14, Section 6.a no later than December 8<sup>th</sup>, 2023 at 3:00pm CST. Answers will be posted to the Smartsheet no later than December 15<sup>th</sup>, 2023.

**This is not a solicitation and will not result in an award of contract.**

4. Response Due Date<sup>1</sup>: January 12, 2024

Time: 3:00 PM CST/CDT

5. Issued By and **RETURN SEALED BID TO**<sup>2</sup>:

Electronic Submission Address: \_\_\_\_\_

6. Solicitation Type (type "X" at one below):

- ☐ Invitation to Bid
- ☒ Request for Information
- ☐ Request for Quote

7. Contracting Officer:

Name: Laura Bybee, CPOII

Phone: (405) 628-4034

Email: laura.bybee@odot.ok.gov

<sup>1</sup> Amendments to solicitation may change the Response Due Date (read GENERAL PROVISIONS, section 3, "Solicitation Amendments").

<sup>2</sup> If "U.S. Postal Delivery" differs from "Carrier Delivery", use "Carrier Delivery" for courier or personal deliveries.

---

*"Certification for Competitive Bid and Contract" **MUST** be submitted along with the response to the Solicitation.*

1. **RE: Solicitation #** 24-PROC-0007

2. **Bidder General Information:**

FEI / SSN: Not Needed Supplier ID: Not Needed

Company Name: \_\_\_\_\_

3. **Bidder Contact Information:**

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Contact Name: \_\_\_\_\_

Contact Title: \_\_\_\_\_

Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

Website: \_\_\_\_\_

Email: \_\_\_\_\_

## Response Instructions

**This is not a solicitation and will not result in an award of contract.**

The State of Oklahoma invites all interested parties to submit a written response to this Request for Information (RFI). This RFI is being sought strictly for the purpose of gaining knowledge of services and applications available with an estimate of their corresponding costs and should not be construed as an intent, commitment, or promise to acquire services, supplies, or solutions being offered nor does this RFI guarantee the issuance of such solicitations in the future.

Information submitted in response to this RFI will become the property of the State of Oklahoma and will not be returned.

The State of Oklahoma will not pay for any information herein requested nor is it liable for any cost incurred by the Supplier in response to this RFI.

## 1. 1. Statement of Need

The Oklahoma Office of Management and Enterprise Services (OMES), on behalf of the Oklahoma Department of Transportation (“ODOT” or “Oklahoma Transportation”), is requesting written information from qualified suppliers for a statewide, transportation-related collaboration, design, data management, and model authoring solutions. ODOT is seeking information on existing applications and systems that are currently in use and fully operational. ODOT understands not all suppliers can provide the full breadth and scope of this RFI. However, the supplier is required to clearly indicate the sections or topics they are not responding to within the required structured format detailed in Section 6(d) “Preparation of Response”.

## 2. Organization Information

ODOT is an agency of the government of Oklahoma. ODOT is responsible for the construction and maintenance of the state’s transportation infrastructure. Oklahoma’s transportation system has many needs with nearly 30,500 lane miles of the transportation infrastructure system.

Oklahoma Transportation includes the Office of Mobility and Transit. The state’s first public transit plan, themed “Oklahoma Mobility”, is being developed in partnership between ODOT and Oklahoma Transit Association and includes input from rural and urban transit providers and stakeholders. Partnering with the Oklahoma Turnpike Authority, ODOT provides customers with a choice of safe, convenient, efficient, user-funded transportation networks focusing on fiscal responsibility and promoting economic development.

Identifying and prioritizing stakeholder needs is a continuous process of evaluating state and regional transportation system requirements at the broadest level. This process includes the progression of planning activities which help establish a context for sound policy decisions and is an avenue for involving public transportation planning to support the state and regional vision for the future. Together ODOT staff and a network of more than 140 Consultant firms is relied upon to deliver ODOT’s mission. This industry alliance delivers, on average, \$1.2 billion of capital improvements each year.

ODOT recognizes the requirement for Digital Delivery to enhance efficiency across the industry in design, regulatory reviews, and construction processes. The shift is from traditional 2D paper-based deliverables to 3D data-based deliverables. Emerging technologies used to develop these deliverables offer advantages in terms of improved quality and reduced costs. ODOT has created a Strategic Committee, Technical Committee, and Digital Delivery Subject Matter expert team to execute the Oklahoma Transportation digital delivery vision and mission.

### 3. Important Initiative Details

#### a. Goals and Objectives

ODOT is seeking to reduce conflicts/field coordination problems during construction with a reduction of errors and omissions during the design process. ODOT seeks to optimize and streamline multiparty communication from 3D visualization and understands it is a critical contribution tool in project goal setting, production and overall stakeholder understanding. Through leveraging better design tools and workflows, ODOT additionally seeks to improve fair-market cost predictability through consolidation of technology and project costs, amount of rework and other such inefficiencies. Through integrated tools, ODOT seeks to move design, construction, asset data through open data standards and an Application Programming Interface (API) thereby reducing customization and supplier dependency.

#### b. Potential Scope of Work

The State has constitutional and statutory requirements which guide our efforts and in the same instance inhibit flexibility in some areas. ODOT is open to changes in business processes when possible and beneficial to the state, but suppliers must have the flexibility to accommodate business processes and statutory procurement requirements that cannot be changed.

At a minimum, any considered platform with supporting tools should support the following:

##### *1. Interoperability*

1. Leverage open data standards across the project lifecycle,
2. Strategically work with other suppliers to ODOT and be compatible with the current state environment including being directly compatible with industry standard Esri Enterprise systems and REST API/RESTful web services,
3. Cloud-based common data environment (CDE) that will maximize the full value of project data and empower decision making,
4. Connect stakeholders with reliable real-time data to collaborate more effectively throughout the asset lifecycle,
5. Employ Virtual Design and Construction (VDC) and Building Information Modeling (BIM) tools necessary to successfully facilitate design, construction, coordination, scheduling during all phases of work and handover. Provide recommendations on ecosystem architecture and,

6. Support a user interface that is responsive, and that can dynamically adapt to user displays/devices with different form factors in mobile configurations.

## **II. Configuration**

1. Provide recommendations on configuration and setup for implementation of ODOT CADD/BIM/Modeling Standards (e.g., object and content libraries, system's control preferences, feature styles, geospatial standards).

## **III. Risk Management**

1. Not be based on end-of-life, or near end-of-life, technologies and provide documentation how the supplier plans to handle product deprecations when they occur,
2. Provide a risk management strategy for software upgrades, scalability, and compliance with IT policy regarding small systems operation and maintenance that mitigates undue hardship to the state. Operation and maintenance of small systems may include but is not limited to installing and running remote management, antivirus, and OS updates and security patches.,
3. Align with a level of encryption used for data transfers over the network (minimum AES256),
4. All information must be kept safe, meeting industry standards, regardless of the sensitivity of the information,
5. Utilize effective and efficient security and internal controls,
6. All personal information must be protected from being accessed by unauthorized personnel,
7. Align & comply with the current versions of the National Institute of Standards and Technology (NIST) security guidelines and the Federal Information Security Management Act (FISMA) and,
8. Align & comply with State of Oklahoma statutes, policies and standards found at:  
<https://oklahoma.gov/omes/divisions/information-services/about-information-services/policy-and-standards.html>

## ***IV. Digital Delivery Mission and Vision***

Align and support digital delivery strategy and assist in aligning organizational structure and programs directly to the digital delivery mission and vision.

1. Mission Statement: Leading efforts to advance and connect digital resources that facilitate data-driven decision making and maximize the value of the transportation infrastructure lifecycle.
2. Vision Statement: Digital Delivery standards and optimized workflows adopted and implemented, increasing value throughout the transportation infrastructure lifecycle.

## **4. Information Required**

### **a. General**

- I. Describe how your solution fulfills the proposed requirements, and whether your solution fulfills only portions of the requirements or encompasses all aspects of this RFI. Provide recommendations for key technology components that may have been omitted from the proposed requirements but may provide value in meeting the ODOT digital delivery vision and mission. Identify perceived risks and provide mitigation strategies for the State to consider.

### **b. Previous working relationship**

- I. Describe experience and past working relationship the supplier has regarding other governments or the United States by highlighting the country, agency/entity/program and use case.
- II. Provide a description of past experience providing similar services and products to other engineering or construction companies within the United States.

### **c. Financial Considerations**

This RFI is being requested as a planning exercise to assist the state in the preparation of the Digital Delivery Strategic Plan, which will include considerations for financial and non-financial resources. Thus, the supplier's response must consider the implementation and scalability of the program from a technology perspective. See further information within the "Financial Considerations" section and respond to the questions or statements therein. Responses to the questions and statements shall be found within the supplier's response under the "Financial Considerations" section title.

## **d. Learning**

Describe your company approach and vision for learning pathways. Provide information on the following:

- I. Product Accreditation or certification
- II. Training and Continuing Education
- III. Current or planned Oklahoma Educational Programs curriculums and partnerships
- IV. User Conferences, events, and peer exchanges

## **e. Development and Support**

Provide information regarding the following support topics.

- I. Service Level Agreements
- II. Issue Resolution
- III. Productivity SLAs
- IV. Deliverables Communication and Timelines
- V. Ad-Hoc Requests including external and internal users
- VI. Business System Enhancements
- VII. User Acceptance Testing (UAT)
- VIII. Resource allocation, availability of resources, including on-site support and transition planning
- IX. Change Requests
- X. Escalation
- XI. Deprecated technology
- XII. Early Access Programs or Beta Testing
- XIII. Staff augmentation

## **f. Inclusive Digital Delivery Tools**

- I. Design Authoring Tools
  1. Geotechnical Tools
  2. Pavement Design Tools
  3. Traffic Design Tools
  4. Bridge Design Tools
  5. Roadway Design Tools
  6. Design Review and Quality Analytics Tools
- II. Construction Management Tools
- III. Collaboration Tools
- IV. Asset Management Tools
- V. Document Management



## **g. Data Transfer**

Oklahoma Transportation is an “Application Programming Interface First” agency. Data exchange(s) should be completed without a custom-built connector. Provide information on the following topics.

- I. Describe your company’s approach and vision in open data standards and
  1. How it is currently used within your platform or tools,
  2. What version(s) of IFC are your solutions currently supporting,
  3. What are the current limitations in IFC functionality,
  4. What is the upgrade path from existing or older software versions to IFC functionality and,
  5. What is your roadmap to advance IFC functionality?
6. What is your organization’s participation and commitment to the following programs? Include any efforts or projects currently underway to support integration of these organizations' products into your technology portfolio.
  - a. AASHTOWare Data Alliance
  - b. AASHTOWare Product Alliance
  - c. AASHTOWare Strategic Alliance
  - d. buildingSmart International (bSI)/USA Chapter
- II. If your organization is participating in the programs listed in 4.g.I.6 provide details as follows:
  1. Which AASHTOWare solution will be involved and which of your solutions will be integrated,
  2. What is your committed timeline to deliver an integrated solution,
  3. Describe the proposed integration (i.e., bidirectional, etc.)
  4. Define anticipated costs to be incurred by ODOT,
  5. Describe your company’s approach to professional services, including how the supplier defines the difference between solution, configuration, and customization and,
  6. Describe your company approach to the implementation of the tools outlined.

## **h. Project Scope**

For each subsection found in the “Potential Scope of Work” section, indicate whether your solution will accommodate the current platform and describe any change in business process that would be necessary or that may be a better process.

## i. Cyber Security

The Office of Management and Enterprise Services Oklahoma Cyber Command supports an extensive third-party risk management program to meet the needs of the State of Oklahoma's diverse supply chain and ensures the protection of data and systems.

- I. Access is available to the following reports or certifications, when requested.
  1. SOC 2 and SOC 3
  2. ISO 27001, 27017, 27018
- II. Provide information if your company has acquired any or all the industry standard assessments and certifications below.
  1. SIG Lite
  2. SIG Core
  3. CSA CAIQ v3.1
  4. CSA CCM/CAIQ
  5. FedRAMP
  6. StateRAMP

## j. Terminology

### I. **Digital Delivery**

An approach to the project delivery process that utilizes digital data to design, construct, inspect, and maintain physical transportation assets. This approach facilitates the use of new workflows and processes that apply technology, software, and hardware to deliver infrastructure. Digital delivery implements a model-based approach where Enhanced Digital Plans and Advanced 3D models are developed.

### II. **openBIM**

Extends the benefits of BIM (Building Information Modeling) by improving the accessibility, usability, management, and sustainability of digital data in the built asset industry.

### III. **Industry Foundation Classes (IFC)**

Standardized, digital description of the built environment, including buildings and civil infrastructure. It is an open, international standard (ISO 16739-1:2018), meant to be vendor-neutral, or agnostic, and usable across a wide range of hardware devices, software platforms, and interfaces for many different use cases.

## IV. **Digital Twin**

A virtual representation of real-world entities and processes, synchronized at a specified frequency and fidelity.

- a. Digital Twin systems transform business by accelerating holistic understanding, optimal decision-making, and effective action.
- b. Digital Twins use real-time and historical data to represent the past and present and present and simulate predicted futures.
- c. Digital Twins are motivated by outcomes, tailored to use cases, powered by integration, built on data, guided by domain knowledge, and implemented in IT/OT systems.

## k. **Confidential Terms, Non-Disclosure Agreement (NDA)**

It is not ODOT's intent to require confidential or proprietary information or trade secrets be submitted in response to this RFI; however, respondents are hereby notified that all information submitted is subject to the Oklahoma Open Records Act, 51 O.S. §24A.1 et seq. and will be handled in accordance with applicable laws, regulations, and policies of the Authority. Should your response contain confidential information, such information should be clearly marked as confidential as well as your asserted basis for the claim of confidence. ODOT will make the final determination as to whether information is indeed confidential. Marking an entire response as confidential does not exempt it from the Oklahoma Open Records Act.

ODOT shall consider all submitted response materials as ODOT property. ODOT shall have the right to use all ideas, concepts, or know-how that any response presents, unless a respondent claims confidentiality, as described above, or otherwise affirmatively notes an objection as part of its response.

Notwithstanding copyright designations contained within responses, ODOT shall have the right to reproduce and distribute responses internally and to ODOT consultants for further consideration and potential development of a future solicitation for statewide transportation-related collaboration, design, data management, and model authoring solutions.

## 5. Financial Considerations

This Request for Information (“RFI”) is being issued to obtain information only and does not constitute a Request for Proposal (“RFP”) or any other type of solicitation. No formal price quote is requested as part of this RFI; however, the supplier’s response may be used to develop a budget estimate. Importantly, we are requesting Suppliers provide information and details that will allow ODOT understand the pricing approach and available commercial models your company will take to respond to our needs in possible future solicitations.. There is no guarantee the issuance of such solicitations will occur in the future.

For scaling and pricing purposes use the following user base figures in your response.

### a. Estimate of Oklahoma Transportation Users

Pre-Construction CADD/BIM Users	100
Pre-Construction Engineering Users	50
Pre-Construction Quality Control/Assurance	20
Total	170

Field District Inspector Users (As-Built)	50
Field District Engineering/CADD/BIM Users	300
Total	350

Asset/GIS Specialist (Administrators)	60
ODOT Users of Asset/GIS Information	1000
Asset/GIS District Maintenance Users	40
Total	1100

## Request for Information

---

- b. The State will consider RFI responses which comprehensively and completely address the below points. ODOT requests answers with as much detail and insight as possible (enter 'N/A' if a question is not applicable to your solution or organization). Each response should correspond to the point being addressed.
- I. Describe your currently available pricing model(s) and indicate how each scale with an organization's changing needs.
  - II. For each available commercial model, describe how year-one pricing is calculated.
  - III. Define "active user" and how use is calculated for each product related to this RFI.
  - IV. Describe how administrators can control, limit and monitor use for each product related to this RFI.
  - V. If the supplier will offer a professional services solution, define the parameters and general costs associated with this as well as your non-professional services general costs for comparison purposes.
  - VI. What, if any, costs are associated with maintenance and support of the software the supplier will provide?
  - VII. What length contract terms are available for each of your commercial models?
  - VIII. For the past seven (7) years, detail the percentage price increase or decrease impacting each of your products related to this RFI, including maintenance and support increases.
  - IX. Articulate the supplier's philosophy and formula for calculating future price increases impacting each of your products related to this RFI.
  - X. Document all available purchasing vehicles (i.e. Channel Partners, Resellers, Subsidiaries or contract vehicles such as GSA, NASPO, etc.)
  - XI. Does your company offer any non-profit or government agency discounts, and if so, what percentage of reduction does this represent?
  - XII. Does your company offer a "competitive buy-back" discount in exchange for the State ceasing use of a product under current use related to this RFI?

- XIII. Do you have any information on the usage acceptance rate since implementing solution(s) for clients? If so, provide examples and any use cases where applicable
- XIV. To increase user acceptance and adoption rate of suppliers' solution(s), what features or innovations should ODOT consider? Provide examples and any use cases where applicable.

## **6. Demonstrations, Questions, Timeline, and Supplier Response**

If desired by ODOT, select Respondents may be asked to provide demonstrations of services. Each respondent should be prepared to participate in oral presentations and demonstrations to define the response, to introduce the Respondent's team, and to respond to any and all questions regarding its response to this RFI. Presentation format, time limits, materials requested, etc., will be sent to all respondents with whom interviews are deemed appropriate. Respondents willing to participate in an interview are responsible for all costs associated with attendance. Submitting a response to this RFI does not guarantee contact or a request of a demonstration. ODOT reserves the right to interview any, all, or no respondents. Demonstrations are by request of ODOT only.

- a. RFI Portal:  
<https://app.smartsheet.com/b/publish?EQBCT=91c0543e9fa7418198ee2a9437873ea8>
- b. Clarifying requests and questions from Supplier  
ODOT reserves the right, at its sole discretion, to respond to supplier questions. Suppliers may submit clarification requests and questions through the RFI Portal as referenced within Section 6(a) of "Demonstrations, Questions, Timeline, and Supplier Response". Supplier questions will only be accepted until 3:00 pm CST, December 8<sup>th</sup>, 2023. Answers will be posted on the RFI portal no later than 5:00 pm CST, December 15<sup>th</sup>, 2023.
- c. Clarification requests from ODOT  
ODOT reserves the right, at its sole discretion, to request clarifications of response information or to conduct discussions for the purpose of clarification with any or all Respondents. The purpose of any such discussion shall be to ensure full understanding of the response. If clarifications are made because of such discussion, the Respondent shall put such clarifications in writing.
- d. Response Submittal  
Provide one (1) electronic copy of your response no later than 3:00 pm (CST) on January 12<sup>th</sup>, 2024. The electronic copy shall be in searchable PDF, in the structured format as detailed within Section 6(e) "Preparation of Response" and officially submitted via the RFI Portal as referenced within Section 6(a) of "Demonstrations, Questions, Timeline, and Supplier Response". In the event you claim and have

marked any portion of your response as “confidential” please provide one (1) additional electronic copy with the information claimed as confidential redacted therefrom along with your unredacted copy.

e. Preparation of Response

In order to streamline the review process, Suppliers are required to submit their responses in a structured format as identified below. Ensure that all responses are submitted in a searchable PDF format, no less than 0.50” margins and 12-point Arial font.

- I. Cover Sheet and/or Executive Summary
  - a. Not to exceed two pages.
  - b. Include contact information
- II. Table of Contents, List of Figures, List of Tables, List of Appendices
  - a. Not to exceed three pages.
- III. Response to information required, objectives, and specifications.
  - a. Not to exceed fifteen pages.
  - b. Third party or subcontracted parties must be clearly identified.  
Technical requirements, overall timeline, case studies, and additional supporting documentation should be incorporated into the response with the corresponding materials.
- IV. Financial Considerations
  - a. Not to exceed three pages.
  - b. Fully accounted for pricing breakdowns should be provided, including but not limited to support, maintenance, and licensing fees.
  - c. Responses must include a breakdown of pricing by subscription implementation, training and ongoing support and maintenance.
- V. Company Information
  - a. Not to exceed six pages
  - b. Organization Contact: Provide the name, title, address, telephone number and email address of the person to contact concerning your organizations RFI response.
  - c. Include awards and recognitions, as well as additional products, solutions, and integrations of potential additional value. Suppliers should include details of any technology that would complement ODOT Digital Delivery.
  - d. Describe similar use cases, previous work samples, examples, and associated references. Include solution references for projects similar and scope implemented within the last five years and using the solution for a period exceeding 12 months. References must include

the company/public sector entity's name, the solution or solutions used, the name, email address and phone number of a contact, and the length of time the company/public sector entity has been using the solution.

- VI. Visual charts, diagrams or graphics
  - a. Not to exceed five pages
  - b. Any additional materials the Supplier needs referenced within the response. Any additional information must be clearly marked both on the specific material, and the reference location.
- VII. Appendix
  - a. Not to exceed five pages.

All requested information/sections must be responded to completely, "not applicable/NA" should only be used in instances where a responding supplier does not offer a solution fitting the need.