



Oklahoma Toolkit v3.1 Training

Oklahoma State Training



The next
generation
is **NOW!**

Introductions

- DATAMARK Technologies
- Oklahoma GIS Committee Members
- Class Attendees

Agenda

- Introduction to NG9-1-1 and OK NG9-1- GIS Data Standards
- Toolkit Exercises
- Best Practices and Recommendations



Introduction to NG9-1-1 and OK NG9-1-1 GIS Data Standards

What is the NG9-1-1 GIS Toolkit?

- State-provided tool to prepare GIS data for NG9-1-1 standards and submit to the State repository
- Transforms your GIS data to conform to the OK Standard compliant schema
- Functionality:
 - Create a new geodatabase
 - Create new data
 - Field map your data into the schema
 - Populates some required fields
 - Topology and validation tools for QA/QC

Discussion

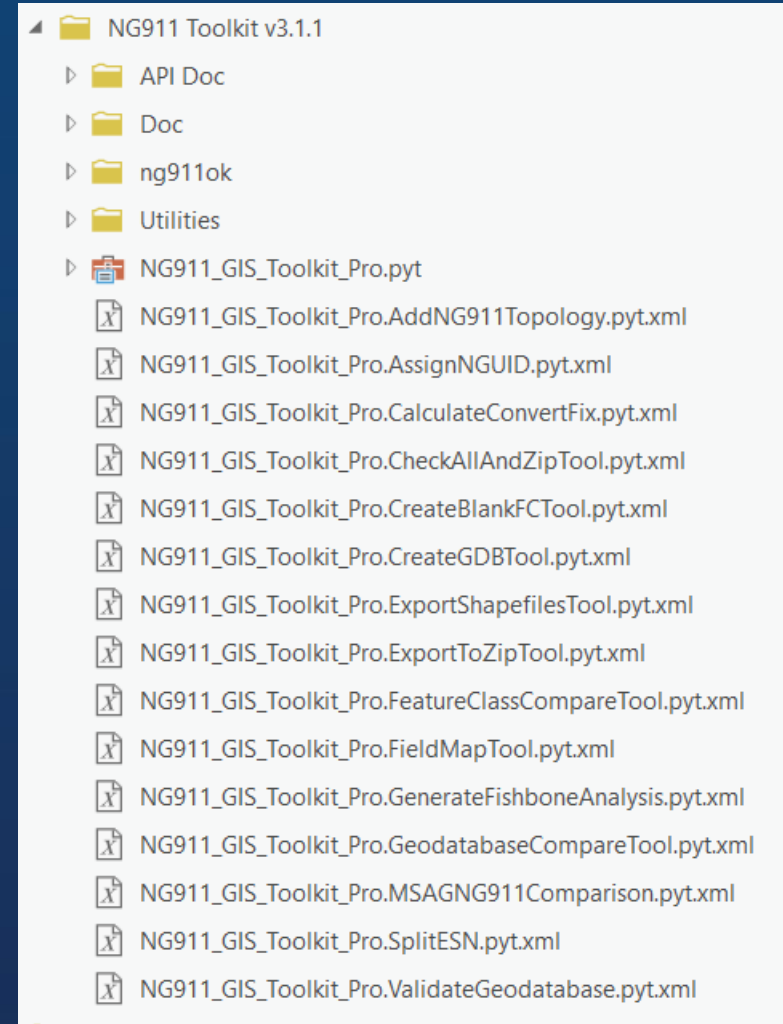
- Have you previously uploaded data into the Repository?
- Do you know ArcGIS Pro?

Standards Overview

- [https://www.okmaps.onenet.net/documents/OK ADDRESS STANDARDS 3 APPROVED 05-02-2024.pdf](https://www.okmaps.onenet.net/documents/OK_ADDRESS_STANDARDS_3_APPROVED_05-02-2024.pdf)

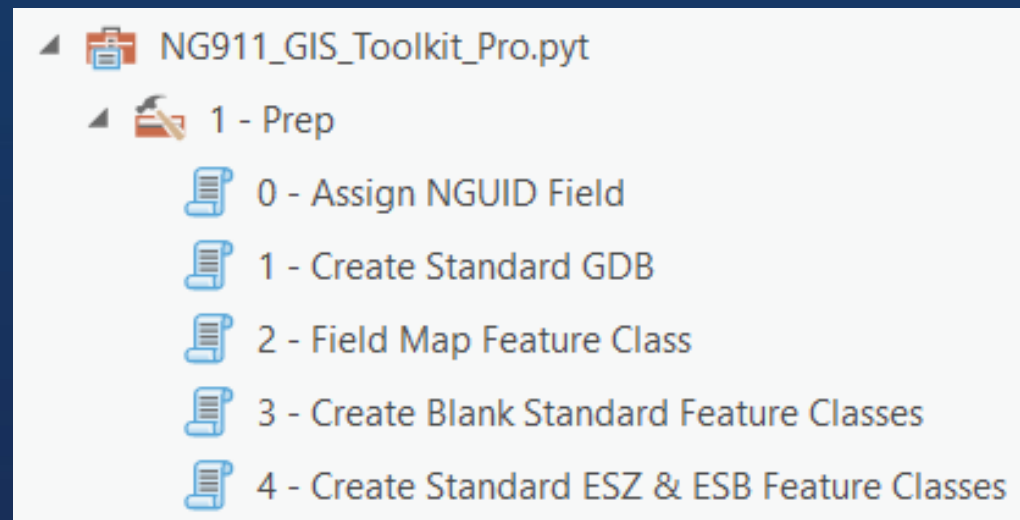
Toolkit Overview

- https://www.okmaps.onenet.net/address_standards.htm
- Toolkit Version 3.1.1
- Software requirements:
 - ArcGIS Pro version 3.3
 - Standard or Advanced license level



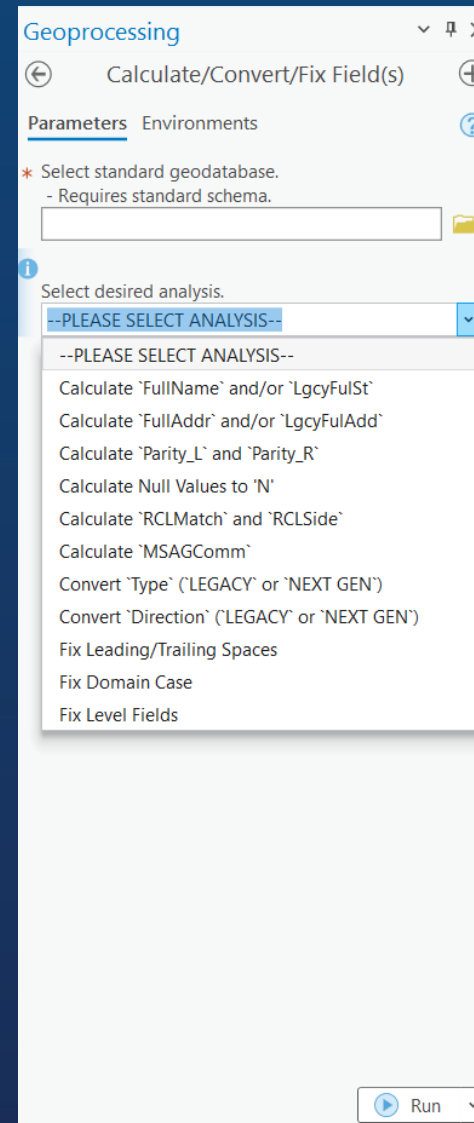
Creating New GIS Data with Prep Tools

- Assign NGUID
- Create Standard GDB
- Field Map Feature Class
- Create Blank Standard Feature Classes
- Create Standard ESZ & ESB Feature Classes



Enhancement Tools

- Add Topology
- Calculate/Convert/Fix Fields
 - Nested tools



NG9-1-1 GIS Toolkit Technical Requirements

- Software
 - ArcGIS Pro 3.3
 - Basic license required
 - Standard License required for Topology
 - Advanced License required for Check Road ESN
 - Python 3.1.1
 - Leave folders in native structure
- GIS Skills
- 1 year of GIS experience to include:
 - Basic navigation of ArcPro
 - Database and attribute editing and management
 - Critical thinking skills in a GIS environment

NG9-1-1 GIS Toolkit Technical Support

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Toolkit Exercise

Scenario

- We have GIS data which has been managed in OK NG9-1-1 Standards Version 2.2 which is our native schema. We need to transition this data to OK NG9-1-1 Standards Version 3. All required data layers are in a geodatabase. Source gdb:

OK_OldStandards_Initial.gdb

- Road Centerlines (Centerlines)
- Address Points (SSAP)
- Emergency Service Zones (ESZ)
- Discrepancy Agency Boundary (DISCREPANCYAGENCY_BOUNDARY)*
- PSAP Boundary (PSAP_BOUNDARY)*



Best Practices and Recommendations

Best Practices for Data Management

- Know your data!
 - Data authority
 - Business needs
 - Educate stakeholders
- Data quality
 - Availability
 - Completeness
 - Accuracy
 - Timeliness
 - Consistency

Data Maintenance

- Follow attribution standards
 - Parse
 - Standardize street types
 - True nulls
 - House number
 - Integer value
- Manage sub-addressing in separate field
- Standardize address point and road centerline street types
- Ensure fields are consistent across data sets:
 - ESN
 - Postal codes
 - Community fields

Legacy/Existing Fields

- Pre-assessment is important!
- What fields do you need for existing business needs?

Boundaries

- GIS and PSAP should work together
 - Call routing boundaries are PSAP decisions!
- Engage State for PSAP and Discrepancy Agency boundary adjustments

The Path Forward

- Strategic planning
- Data maintenance plan
- Ongoing QA/QC

Questions?