ArcGIS Data Reviewer
Advanced Data Validation
Shankar Chandrasekaran & Francisco Perez
Workshop Agenda

- What is ArcGIS Data Reviewer?
- Quality Assurance – A seamless experience
- Streamline Data Collection & Maintenance
- Data Quality tools for Automated Review
- Summary
- Resources
ArcGIS Data Reviewer

- Reduce risk in decision-making
- Lower data management costs
- Streamline quality control workflows
- Implement repeatable processes
- Increase transparency

Automate, simplify, standardize and unify workflows to improve data quality
Data quality management
Capabilities of ArcGIS

Geodatabase integrity
- Schema constraints
- Attribute rules
- Versioning

Advanced data types
- Topologies
- Parcel fabric
- Utility network

ArcGIS Data Reviewer
- Automated review
- Semi-automated review
- Error management
- Quality reporting
Quality Assurance

- A Seamless Experience
Requirements

Quality Assurance Plan - Cyclic
Requirements
Quality Assurance Plan – Change Management

- New Business Requirements
- Internal Process Improvements
- Triggers Change
- Challenges
  - Disruptive
  - Complex
  - Communicate
User defined rules for simple features using Arcade scripting

Ensures data quality during data collection and maintenance

Enforces data integrity

Defined in feature classes or tables

Supported across the ArcGIS System
Attribute Rules - Types

Constraints

Calculation

- Immediate Calculation
- Batch Calculation

Validation
Ready To Use Rules - Overview

Attribute Constraint Rules

- Easily Configurable Attribute Rules (no scripting required)
- Templated Arcade scripts with parameters
- Assess feature’s Integrity and geometric properties
- Evaluate Spatial relationship across feature classes
Quality Assurance - Demo
Shankar Chandrasekaran
Key Components

Quality Assurance Plan – ArcGIS System tools

- Configuration Add Ins
- Configure Rules
- Rich Editing Experience
- Role- Based Focused Start Pages
- Share rules with Project templates
Questions ?
Streamlining Data Collection and Maintenance

Francisco Perez
Streamline Data Collection

Challenges

- Poor Data Quality
- Understanding data quality can be difficult
- Data Validation is time consuming

Solution

- Define workflow standards
- Identify patterns in the data
- Outline an automated process for data validation

Platform

- ArcGIS Pro
- ArcGIS Pro/Data Reviewer
- ArcGIS Data Reviewer
Streamline Data Maintenance

**Challenges**

- Knowing if deadlines will be met
- No consistency in how work is done
- Takes too long for staff to become effective

**Solution**

- Define a data maintenance process
- Define standard workflows
- Define processes to validate & fix data

**Technology**

- ArcGIS Pro
- ArcGIS Workflow Manager
- Data Reviewer & ArcGIS Pro Tasks
QC Framework Demo – Key Setups

1. WMX-Reviewer Integration (Map Level)

2. WMX-Reviewer Integration (Workflow Level)

3. ArcGIS Pro Tasks (Map Level)
Questions ?
Data Quality Tools for Automated Review

Quality Requirements

Identify Check Type
- Documentation
- Checks Poster

Authoring Workflow
- Reviewer
  - Map Rules & Attribute Rules
- Reviewer
  - Batch Jobs

Data Source(s) Used in Validation
- Shapefiles
- Feature Service
- EGDB
- FGDB

Versioning Type
- Traditional
- Branch

Future release

*Created using ArcMap
Summary

- Manage Changes to Quality Assurance plan seamlessly
- Streamline data collection and data maintenance process
- Data Quality tools for Automated Review
See Us Here
Want to learn more?

• Product page

www.esri.com/datareviewer
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- Desktop
desktop.arcgis.com
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  - Desktop
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enterprise.arcgis.com
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- Training

http://esriurl.com/15503
Want to learn more?

- Documentation
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- Training

- GeoNet Community

http://esriurl.com/15504
Food for thought as we conclude..

As “GIS - The Science of Where” becomes an integral part of decision making

The accuracy of “WHERE” will foster better decisions in the ever changing world....

More to come .... Adios
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