



# ArcGIS Data Reviewer : Leveraging Geoprocessing For Data Validation

Mohamed Albashir

An abstract graphic on the right side of the slide features various geometric shapes and patterns. It includes a topographic map with contour lines, a grid of orange dots, and several overlapping rectangular blocks in shades of blue, orange, and green. The overall style is modern and technical.

**GIS  
INSPIRING  
WHAT'S  
NEXT**

# Demo Theater Overview

Extending the Validation Framework

- What is Data Reviewer?
- Automated Validation
- Data Reviewer Components
- Demo: Leverage Data Reviewer Geoprocessing Tools
- Demo: Leverage ArcGIS Geoprocessing tools

# What is ArcGIS Data Reviewer?

Data Quality Management for ArcGIS

- **Provides**

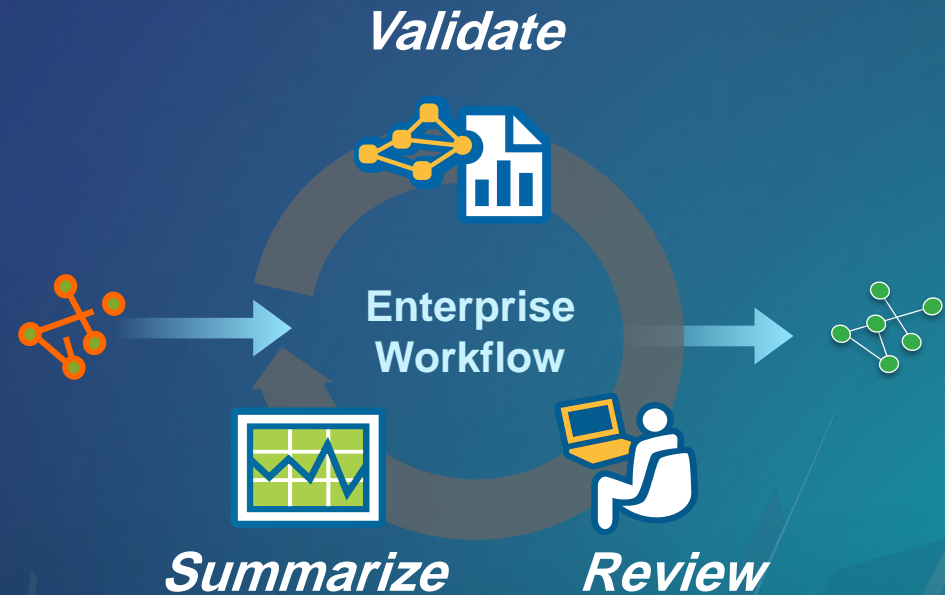
- Rule-based validation
- Interactive tools
- Track errors

- **For individuals and enterprise**

- Saves time/money
- Less rework

- **For multiple domains**

- Configurable
- Extendable



# What is ArcGIS Data Reviewer?

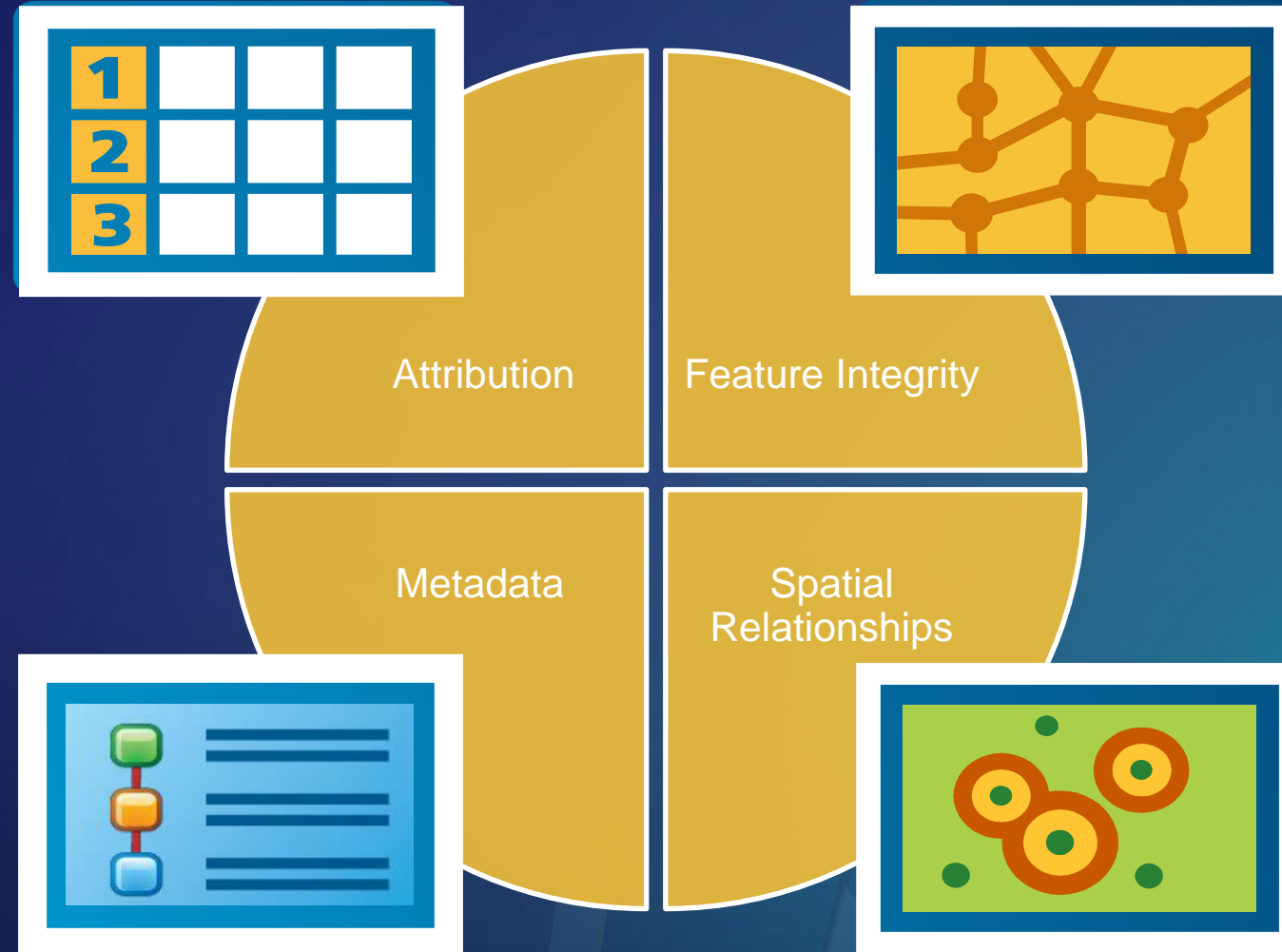
Data quality management in the ArcGIS platform

- **Data Reviewer for Desktop**
  - ArcGIS Pro
  - ArcMap
- **Data Reviewer for Server**
  - ArcGIS Server (standard or higher)
- **Data Reviewer API**
  - JavaScript
  - ArcGIS Pro SDK for Microsoft .NET
- **Web AppBuilder for ArcGIS**



# Automated Review Methods

Different Type of Issues in GIS Data

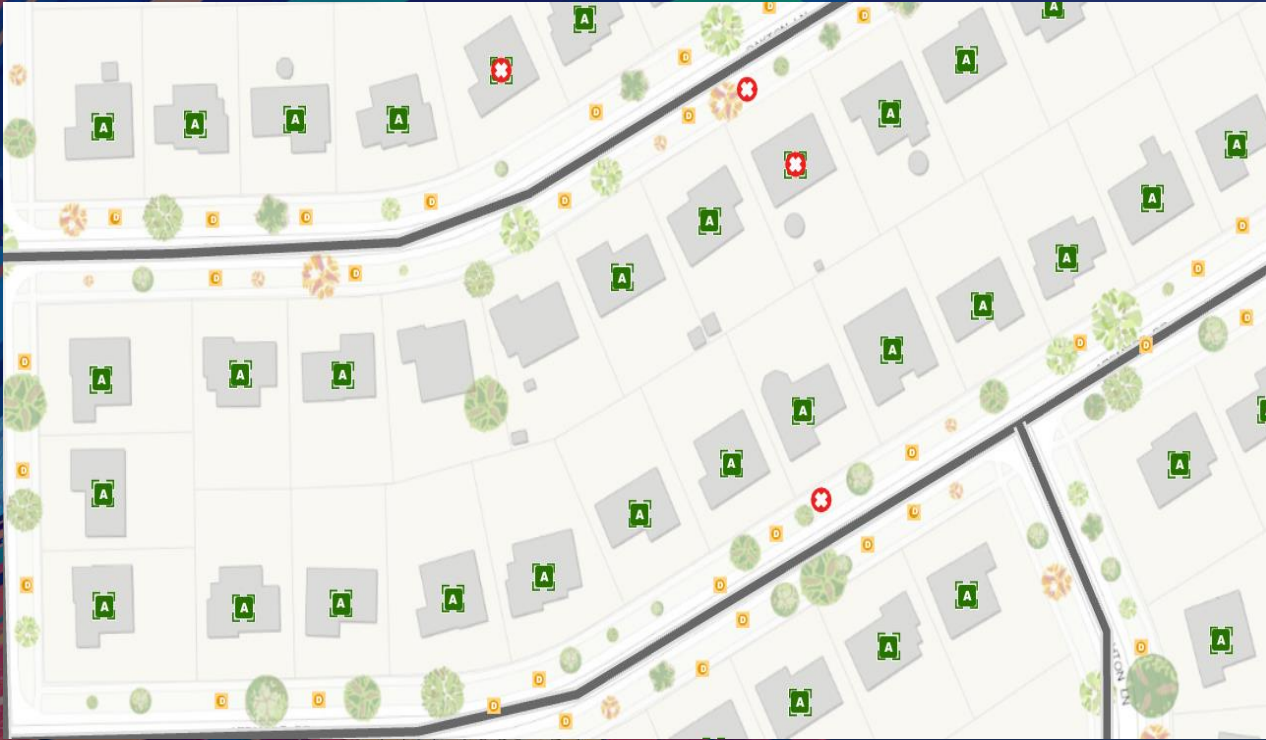


# Data Reviewer Components

- Reviewer Results
- Reviewer Sessions
- Reviewer Batch jobs

The screenshot displays the ArcGIS Pro interface for 'AddressManagement - Map'. The main map area shows a residential street layout with various address points marked. The 'Contents' pane on the left lists layers including 'Address Entrance Points', 'Site Address Points', 'World Topographic Map', and 'Standalone Tables'. The 'Catalog' pane on the right shows a project structure with folders for 'AddressManagement', 'Reviewer Results', and 'Reviewer Batch Jobs'. The 'Reviewer Results' folder is expanded, showing 'Session Results' and 'Reviewer Batch Jobs'. The 'Reviewer Batch Jobs' folder is highlighted with a red box, containing three sub-items: 'Batchjob1.rbj', 'Batchjob2.rbj', and 'Batchjob3.rbj'. Below the map, the 'Reviewer Results' table is displayed for 'Session 1:1'. The table has columns for Phase, Status, ID, Source, Check Title, and Severity. The table contains 10 rows of data, all with a 'Reviewed' status and a severity of 2.

Phase	Status	ID	Source	Check Title	Severity
+	Reviewed	1	SiteAddressPoint	Site Address Point must have a related Address Entrance Point	2
+	Reviewed	2	SiteAddressPoint	Site Address Point must have a related Address Entrance Point	2
+	Reviewed	3	SiteAddressPoint	Site Address Point must have a related Address Entrance Point	2
+	Reviewed	4	SiteAddressPoint	Site Address Point must have a related Address Entrance Point	2
+	Reviewed	5	SiteAddressPoint	Site Address Point must have a related Address Entrance Point	2
+	Reviewed	6	SiteAddressPoint	Site Address Point must have a related Address Entrance Point	2
+	Reviewed	7	SiteAddressPoint	Site Address Point must have a related Address Entrance Point	2
+	Reviewed	8	SiteAddressPoint	Site Address Point must have a related Address Entrance Point	2
+	Reviewed	9	SiteAddressPoint	Site Address Point must have a related Address Entrance Point	2
+	Reviewed	10	SiteAddressPoint	Site Address Point must have a related Address Entrance Point	2

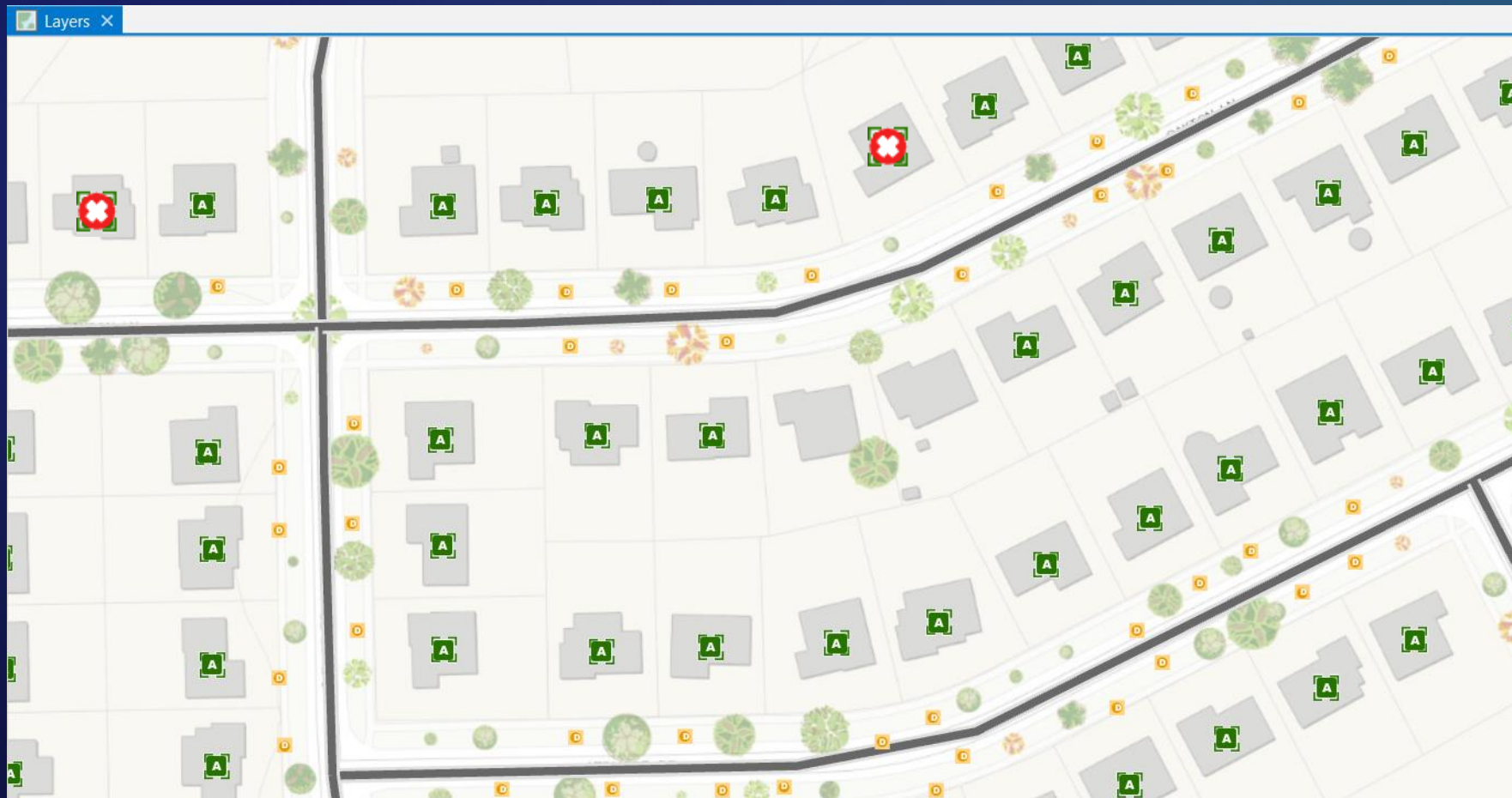


# Demo

Out the box Data Reviewer  
Geoprocessing tools

# Leverage Data Reviewer GP Tool to perform data validation

**Business rule:** Site Address Point must have a related Address Entrance Point

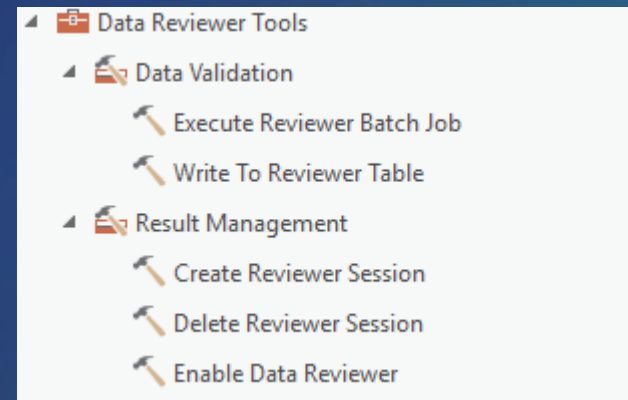




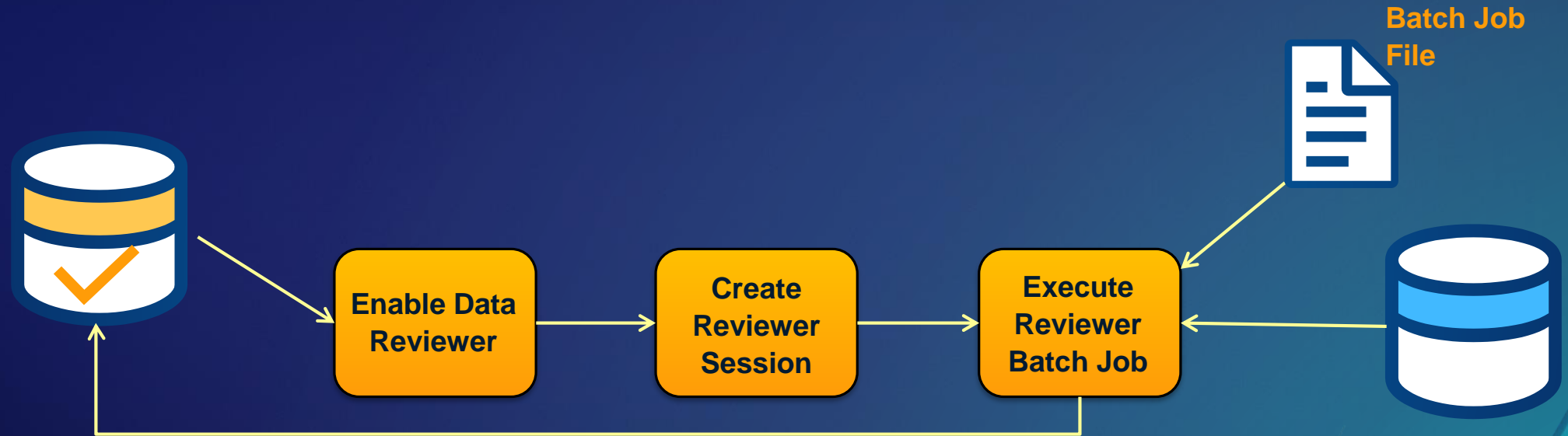
# Overview of the Geoprocessing tools

## Different Geoprocessing tools used in this Demo:

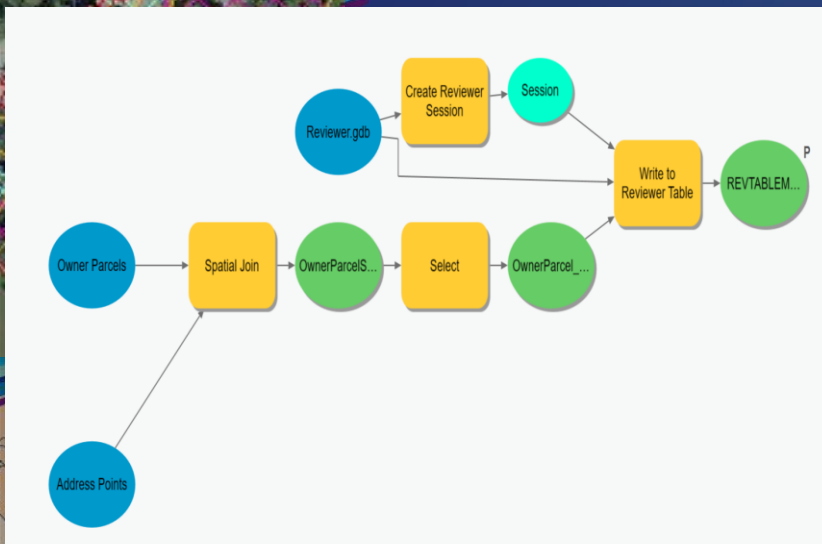
- Enable Data Reviewer
- Create Reviewer Session
- Execute Reviewer Batch Job



# Data Validation Steps



Questions ?

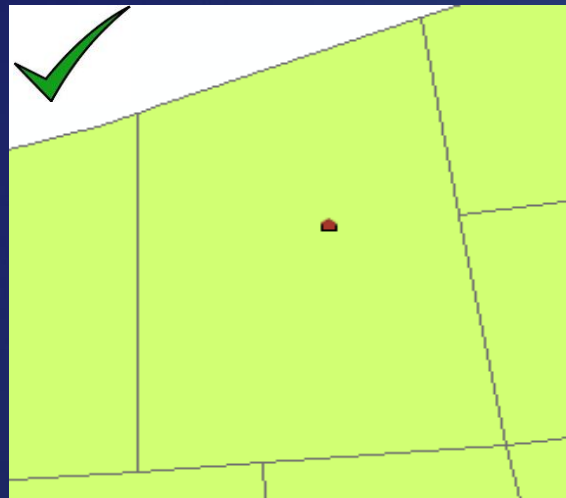


# Demo

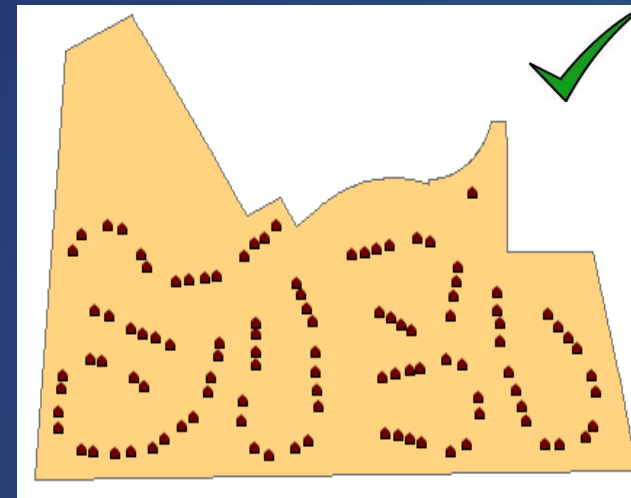
Data Reviewer Geoprocessing tools +  
Platform Geoprocessing tools

# Leverage platform GP tools to perform data validation

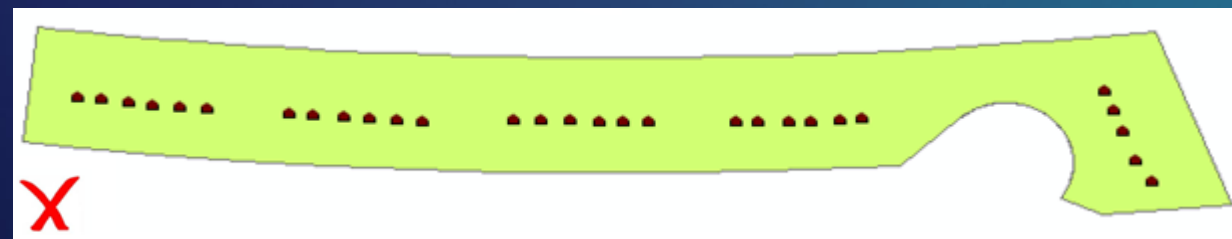
Business rule: Single family parcels must not contain more than one address



Single Family Home

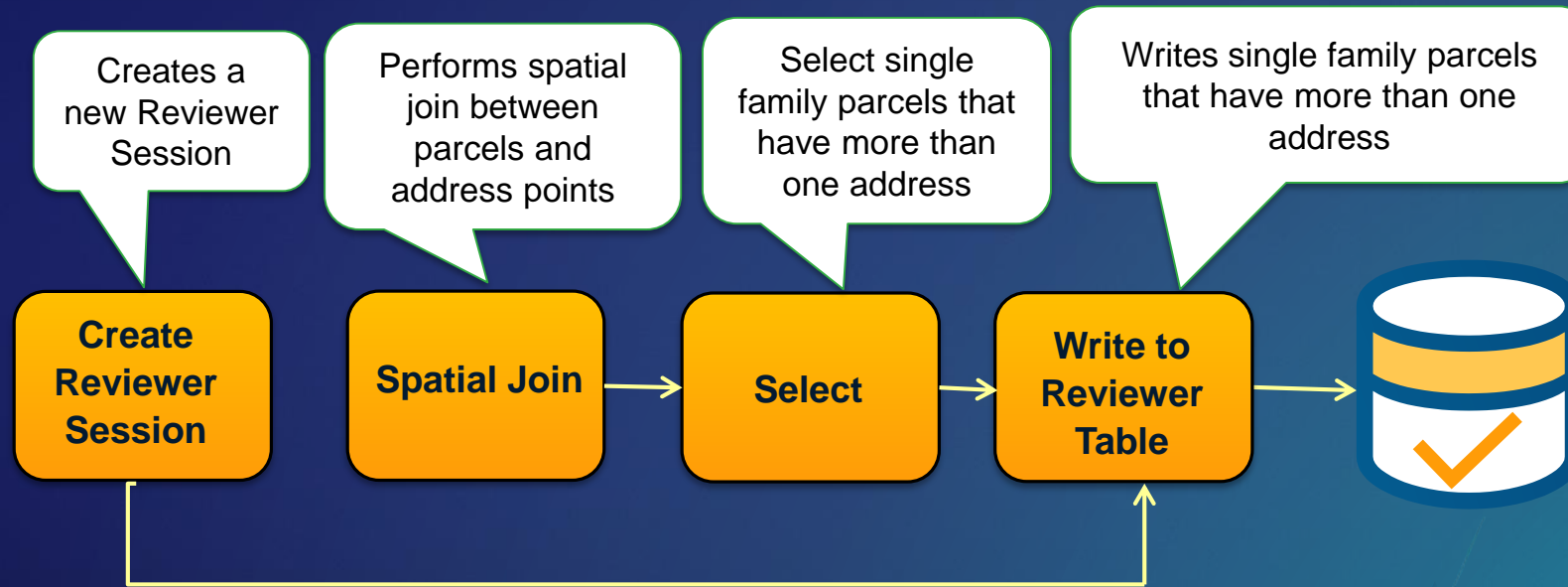


Apartment Complex



Single Family Home

# Model



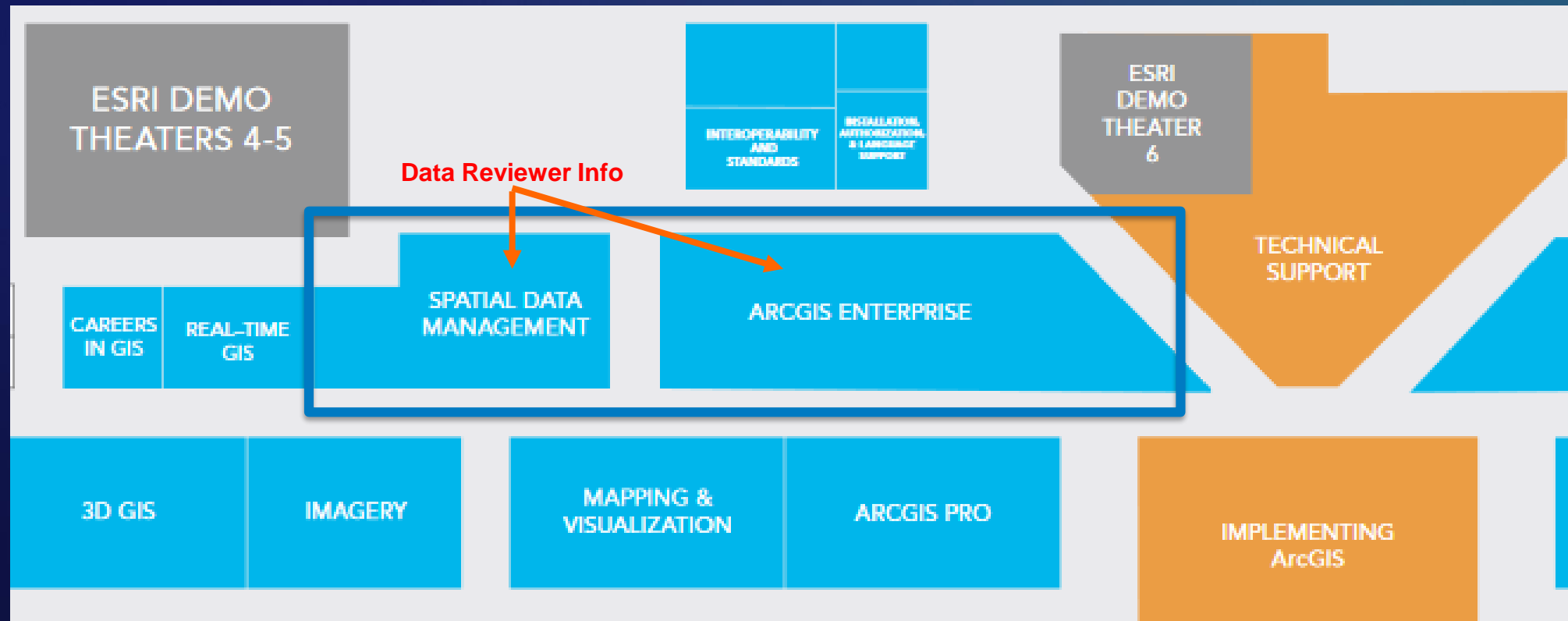
# Summary

- **Data Reviewer extension**
- **Automated validation**
- **ArcGIS Data Reviewer GP tools**
- **Using Data Reviewer and Platform GP tools for Data Validation**

Questions ?



# See Us Here



# See Us Here

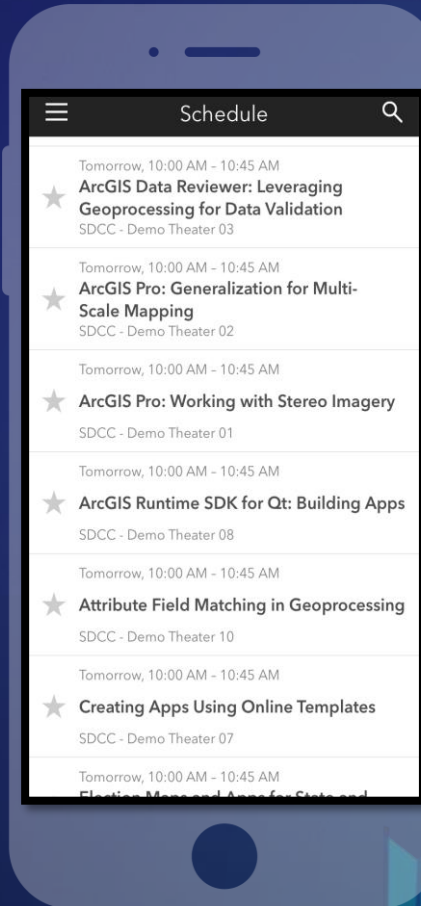
WORKSHOP	LOCATION	TIME FRAME
<ul style="list-style-type: none"><li>• ArcGIS Data Reviewer: An Introduction</li></ul>	<ul style="list-style-type: none"><li>• Room 31A</li></ul>	<ul style="list-style-type: none"><li>• Tuesday 8:30 – 9:30</li></ul>
<ul style="list-style-type: none"><li>• ArcGIS Data Reviewer: Deploying Data Quality Web Services</li></ul>	<ul style="list-style-type: none"><li>• Demo Theater 5</li></ul>	<ul style="list-style-type: none"><li>• Tuesday 11:15 – 12:00</li></ul>
<ul style="list-style-type: none"><li>• ArcGIS Data Reviewer: An Introduction (Offering #2)</li></ul>	<ul style="list-style-type: none"><li>• Room 31A</li></ul>	<ul style="list-style-type: none"><li>• Tuesday 4:00 – 5:00</li></ul>
<ul style="list-style-type: none"><li>• ArcGIS Data Reviewer: Leveraging Geoprocessing for data validation</li></ul>	<ul style="list-style-type: none"><li>• Demo Theater 3</li></ul>	<ul style="list-style-type: none"><li>• Wednesday 10:00 – 10:45</li></ul>
<ul style="list-style-type: none"><li>• ArcGIS Data Reviewer: Advanced Data Validation</li></ul>	<ul style="list-style-type: none"><li>• Room 30E</li></ul>	<ul style="list-style-type: none"><li>• Wednesday 2:30 – 3:30</li></ul>

# Please Take Our Survey on the App

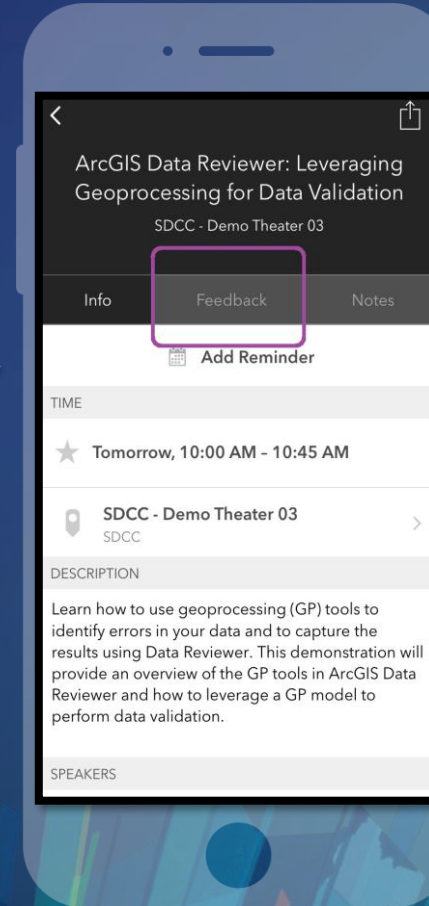
Download the Esri Events app and find your event



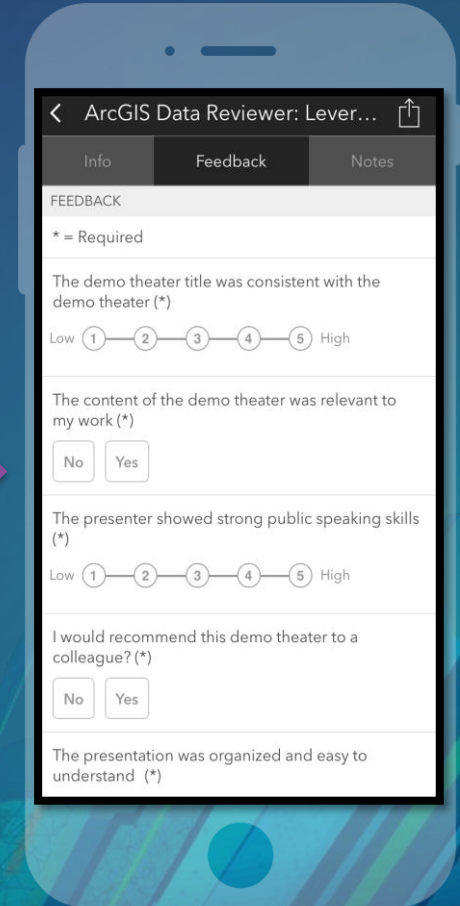
Select the session you attended



Scroll down to find the feedback section



Complete answers and select "Submit"





**esri**

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