

## 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

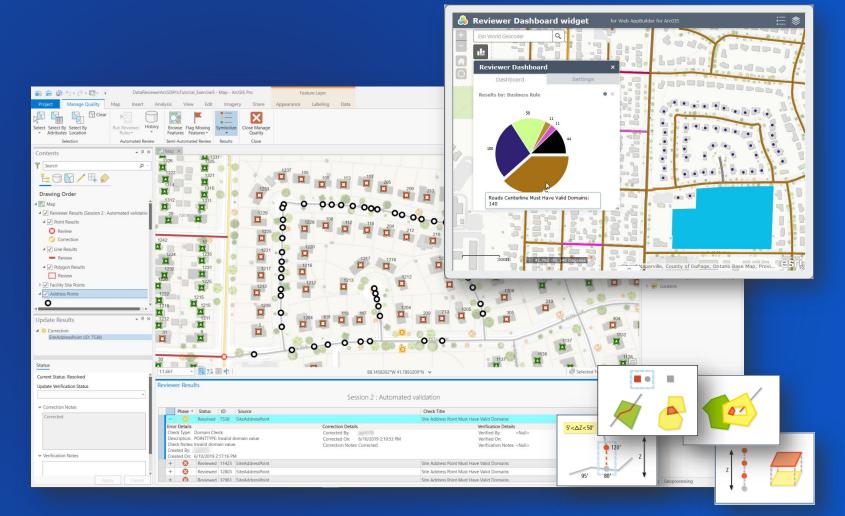
Reduce risk in decision-making

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** 



#### Requirements

**Quality Assurance Plan - Cyclic** 









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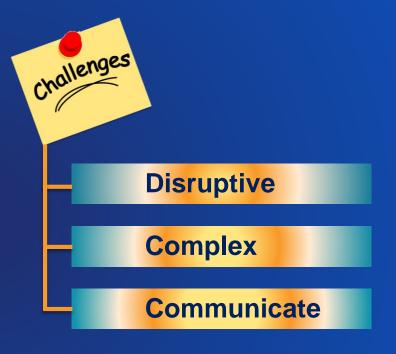
#### Requirements

**Quality Assurance Plan – Change Management** 



New Business Requirements

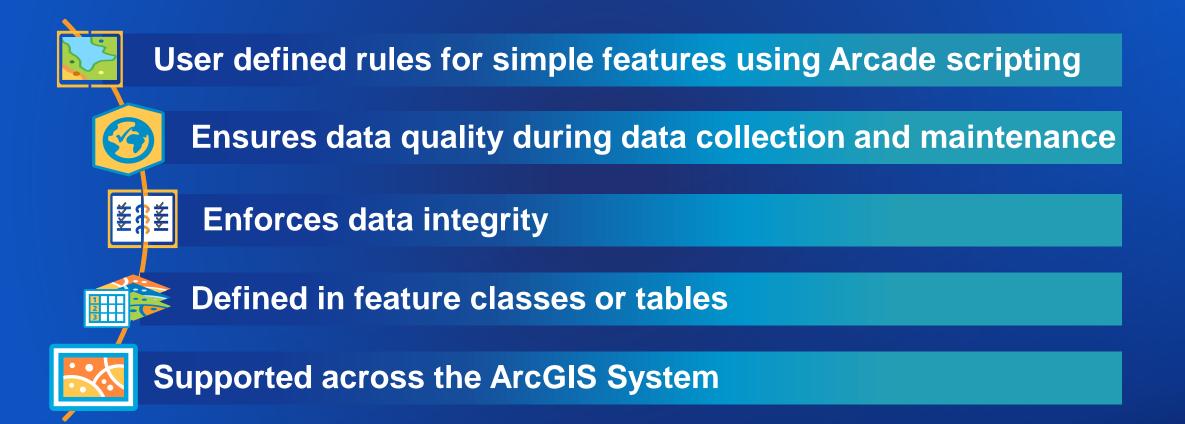




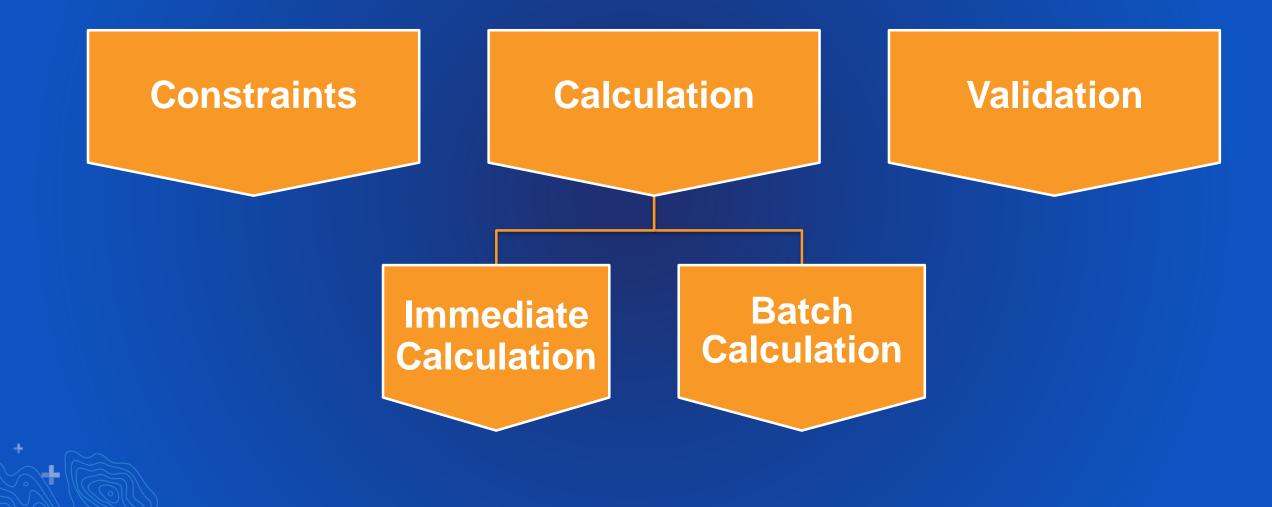
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#### **Attribute Rules - Overview**

**Quality Assurance with ArcGIS** 



#### **Attribute Rules - Types**



#### **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

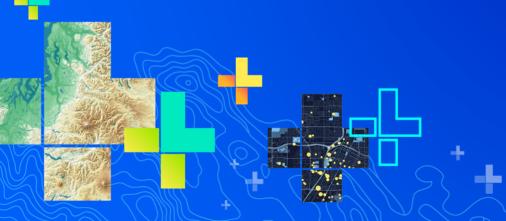


**Evaluate Spatial relationship across feature classes** 



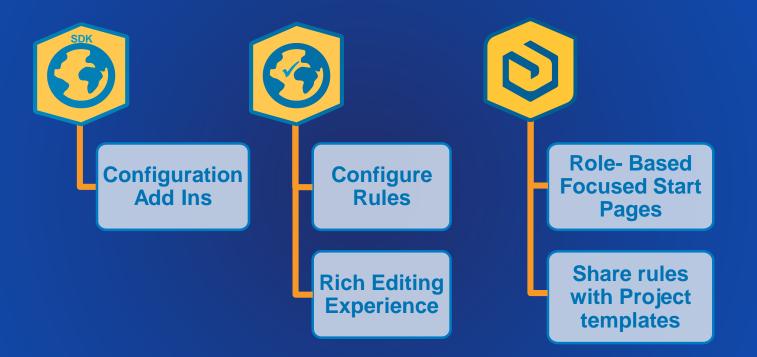
## Quality Assurance - Demo

Shankar Chandrasekaran



#### **Key Components**

**Quality Assurance Plan – ArcGIS System tools** 



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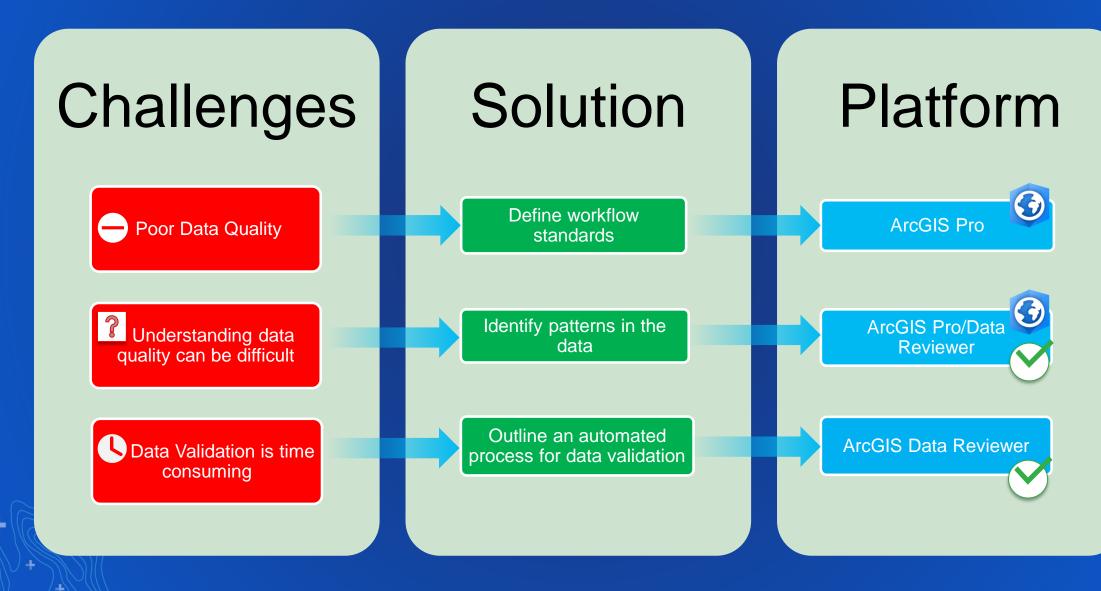
# **Questions**?



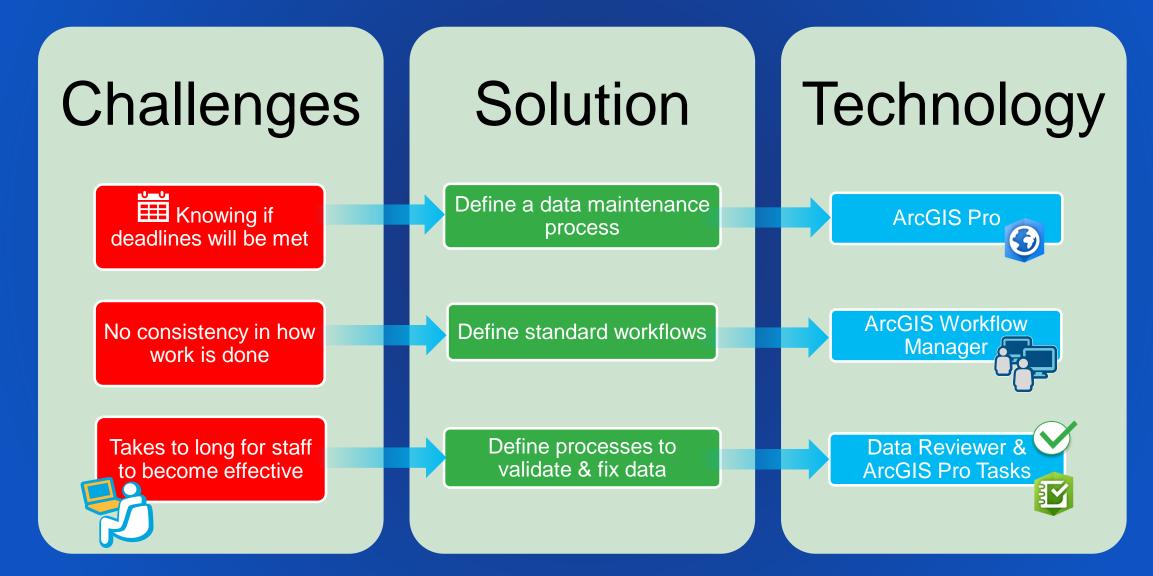
# Streamlining Data Collection and Maintenance

Francisco Perez

#### **Streamline Data Collection**



#### **Streamline Data Maintenance**



# Streamline Data Maintenance Demo-QC Framework

Francisco Perez



#### **QC Framework Demo – Key Setups**

- 1. WMX-Reviewer Integration (Map Level)
- 2. WMX-Reviewer Integration (Workflow Level)

Browse for Custom Steps		×
Registered Steps		Procedural Step
Registered Custom Steps:		To Reviewer
ArcGISProSteps JTXDesktopSteps		Job Closed
		Address Management
RunReviewerBatchat	5	Create Job Version
		Reviewer
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	Re-Assign Job	
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	Submit results	Yes
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			Feature on Feature				New Feature on Feature Rule			3
_			Domain				Nev	v Domain R	ule	3
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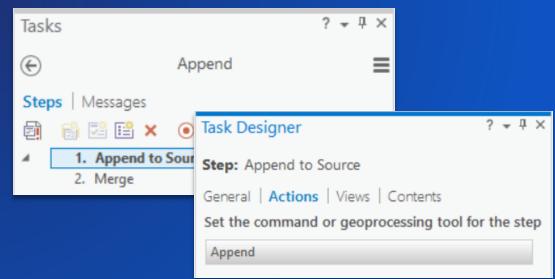
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Project

Map

Export

#### 3. ArcGIS Pro Tasks (Map Level)

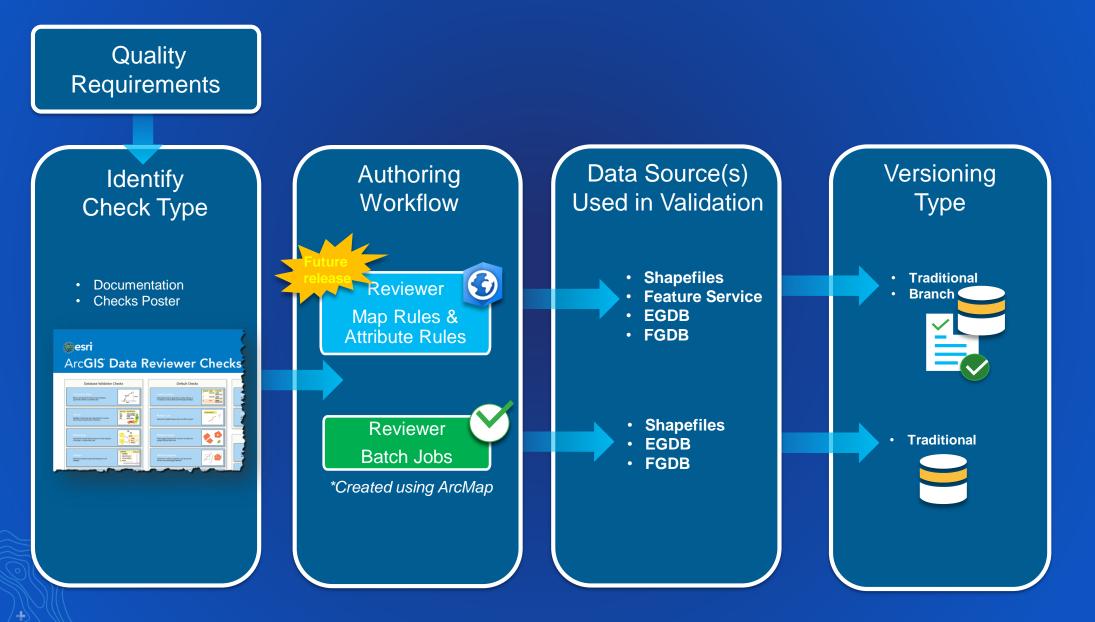




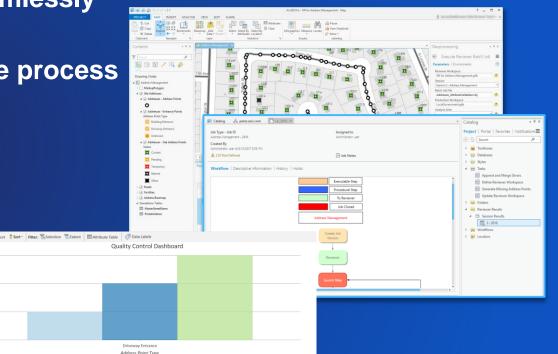
# **Questions**?



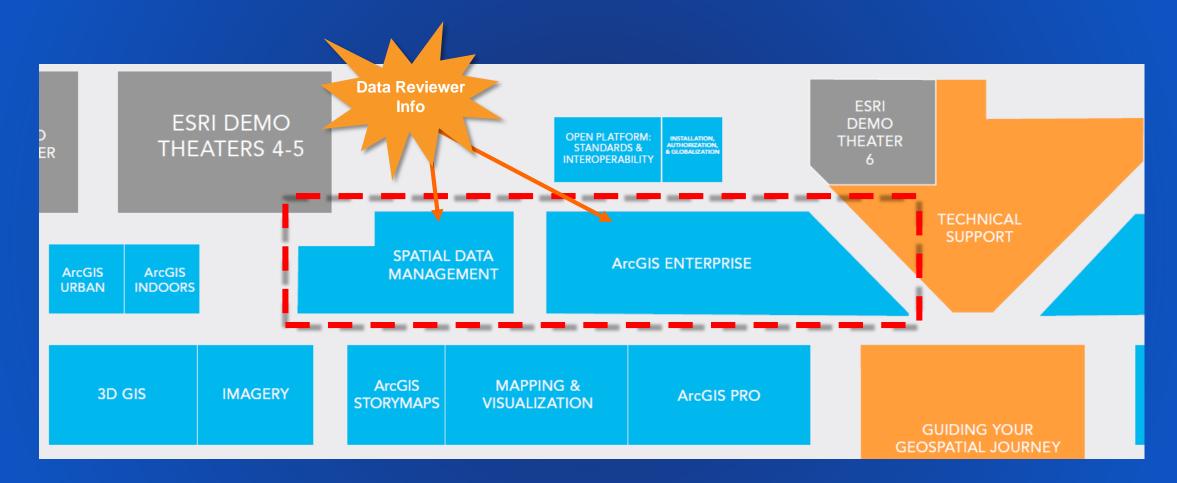
#### **Data Quality Tools for Automated Review**



- Manage Changes to Quality Assurance plan seamlessly
- Streamline data collection and data maintenance process
- Data Quality tools for Automated Review



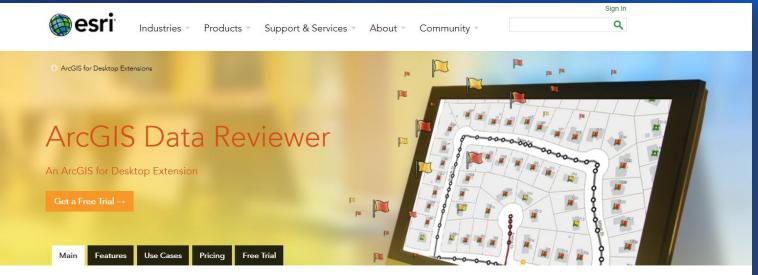
#### See Us Here



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#### Product page





#### Ensure the Quality of Your Data

Whether managing resources for a nation or facility assets for a local community, you want to make sure that your data is free of errors. With ArcGIS Data Reviewer, you can make data quality a component of your overall data management strategy.

*"We can now perform consistent QA/QC tasks and keep our data in top shape after we have done the initial time investment."* 

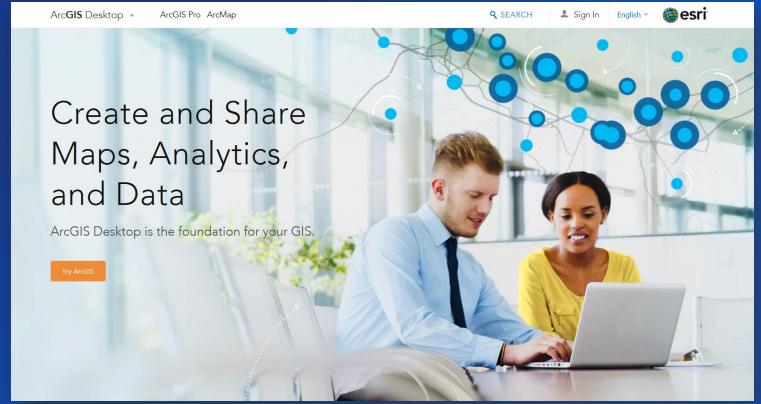
Daniel Hewitt—GIS Specialist, City of Woodland

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#### Documentation

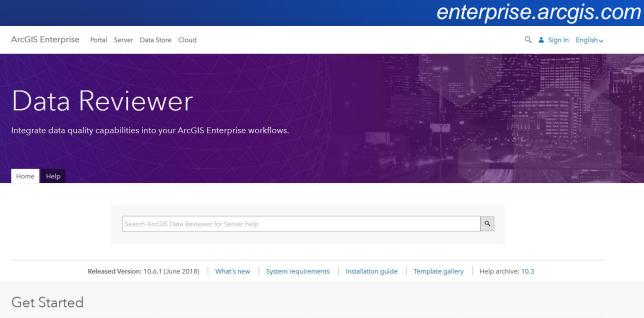
- Desktop

#### desktop.arcgis.com



#### Documentation

- Desktop
- Server





Automatically detect errors in your data

ising out-of-the-box validation check



Supplement out-of-the-box validation

checks with simple-to-use visual review



Monitor data health and identify error

trends in quality dashboards. Reduce risk

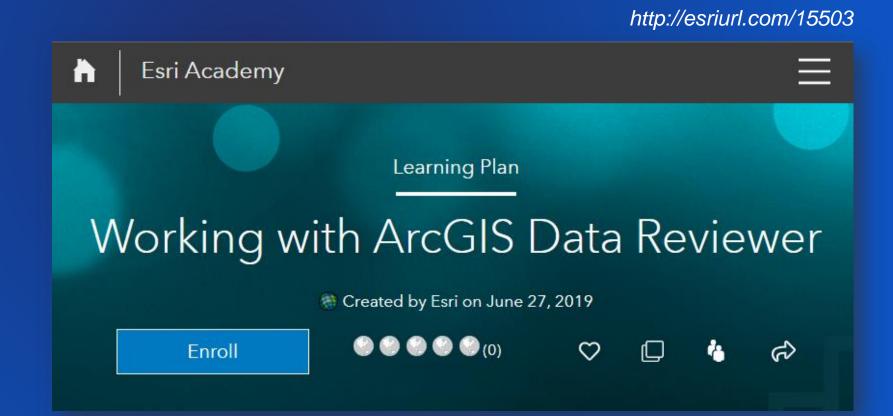




Interact with ArcGIS Data Reviewer for

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- Documentation
  - Desktop
  - Server
- Training



- Documentation
  - Desktop
  - Server
- Training
- GeoNet Community



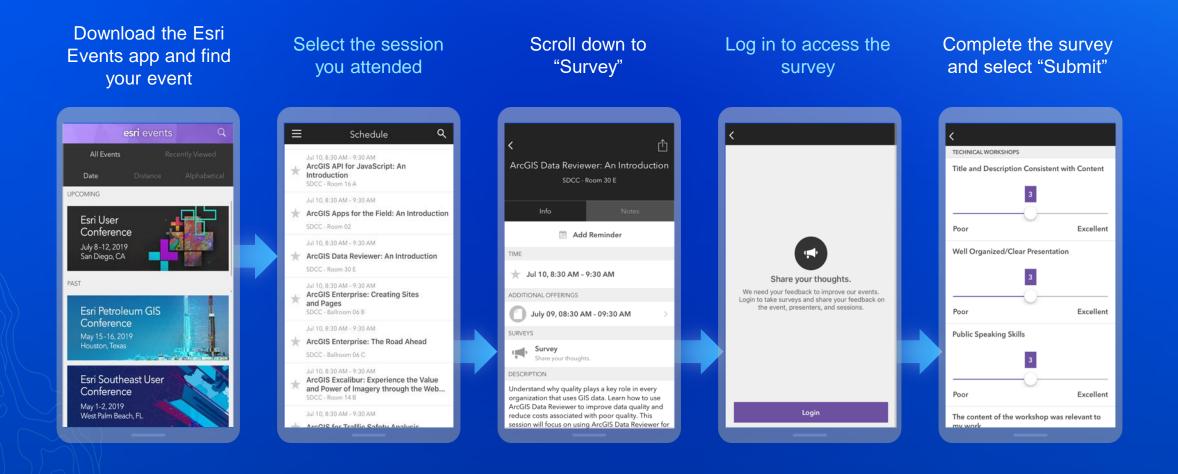
Food for thought as we conclude..

## 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

## Please Share Your Feedback in the App





# **Questions**?

