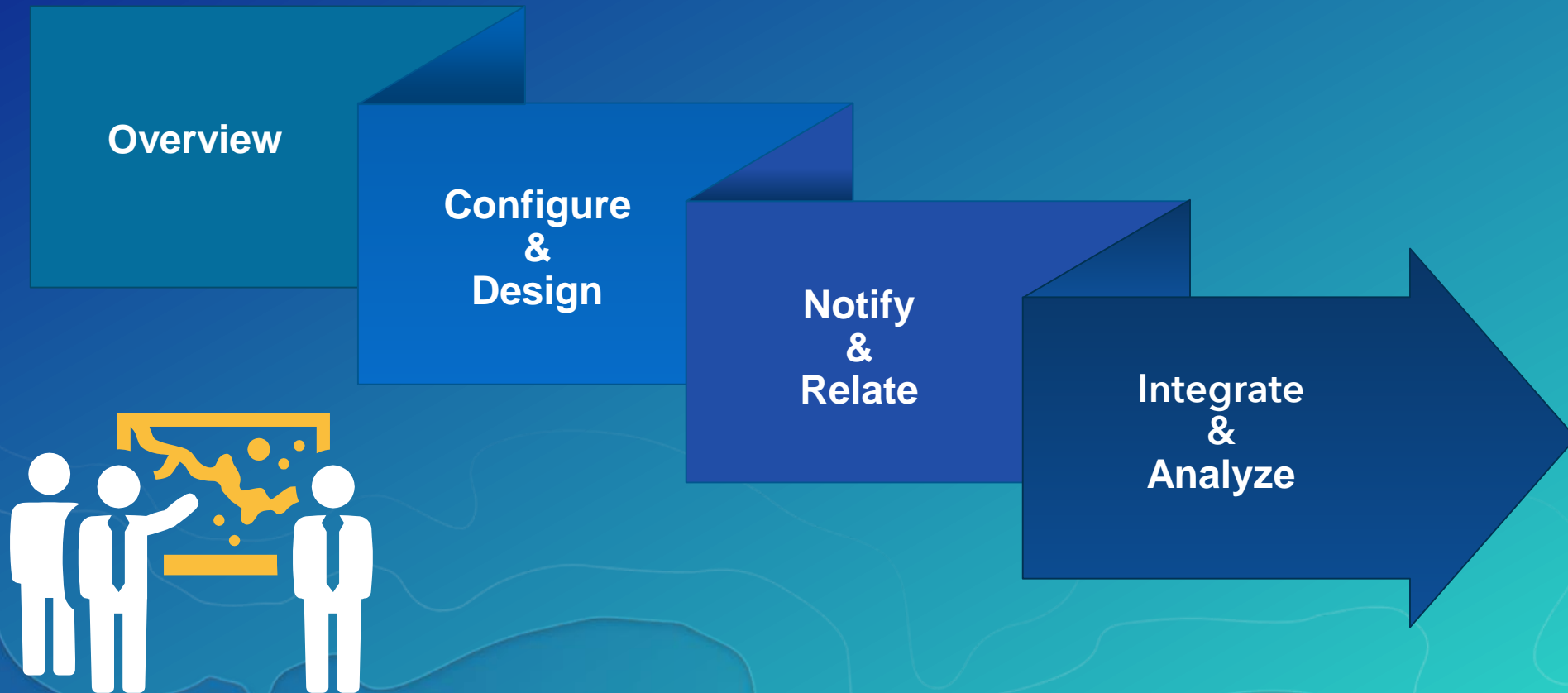


ArcGIS Workflow Manager: Advanced Topics

Kevin Bedel & Nishi Mishra

Session Topics

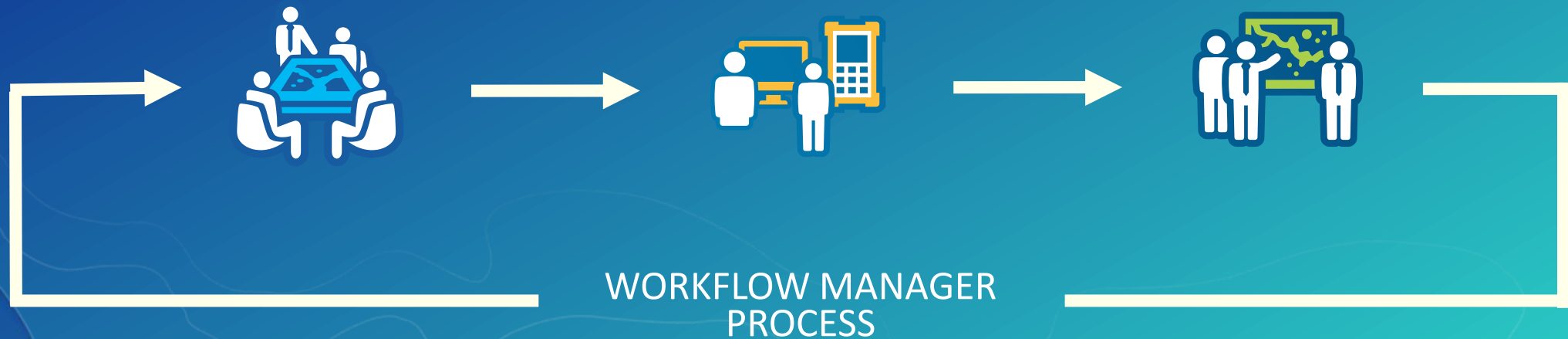


Overview



What is ArcGIS Workflow Manager?

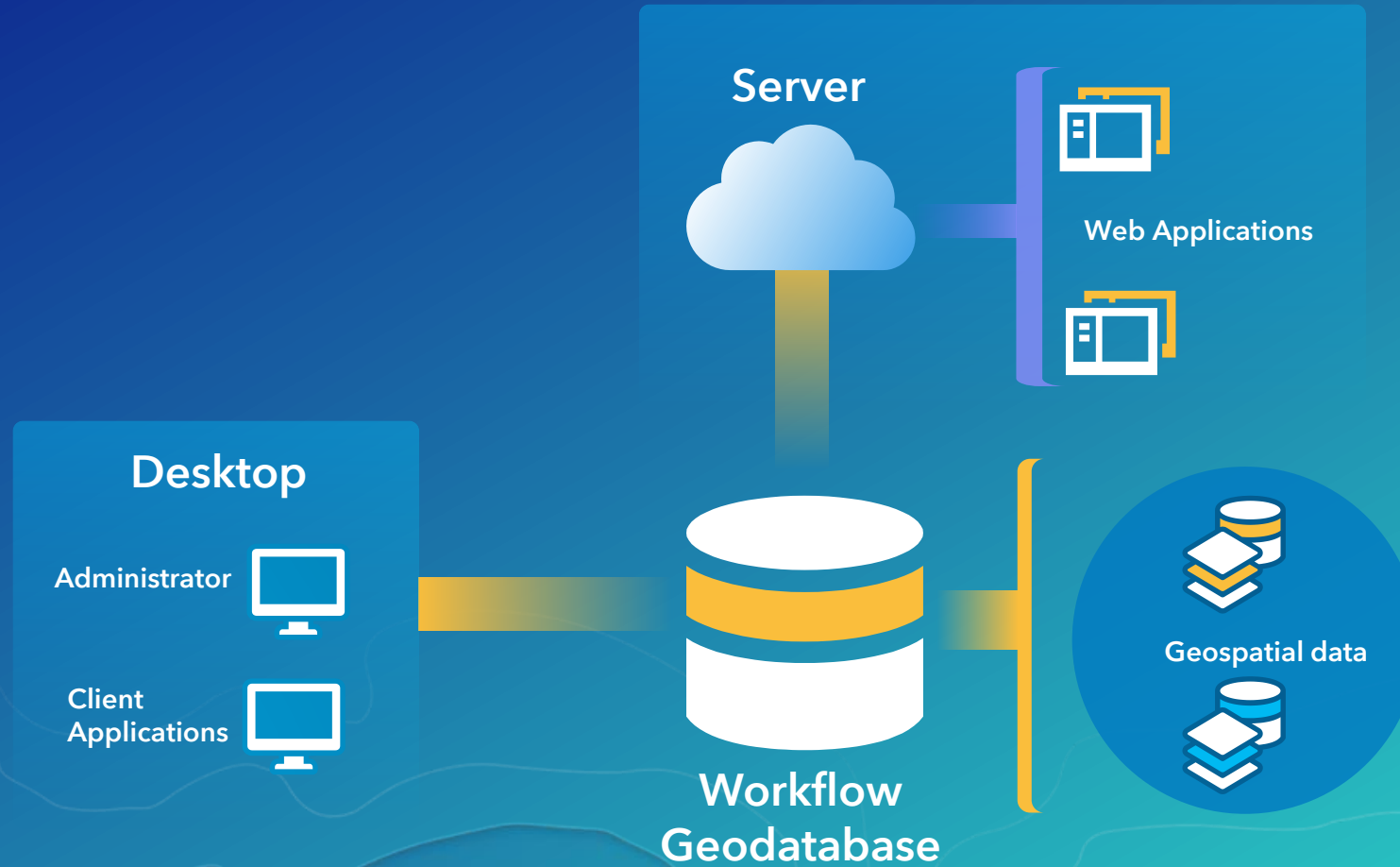
— Configure & Create — | — Execute & Manage — | — Evaluate & Improve — |



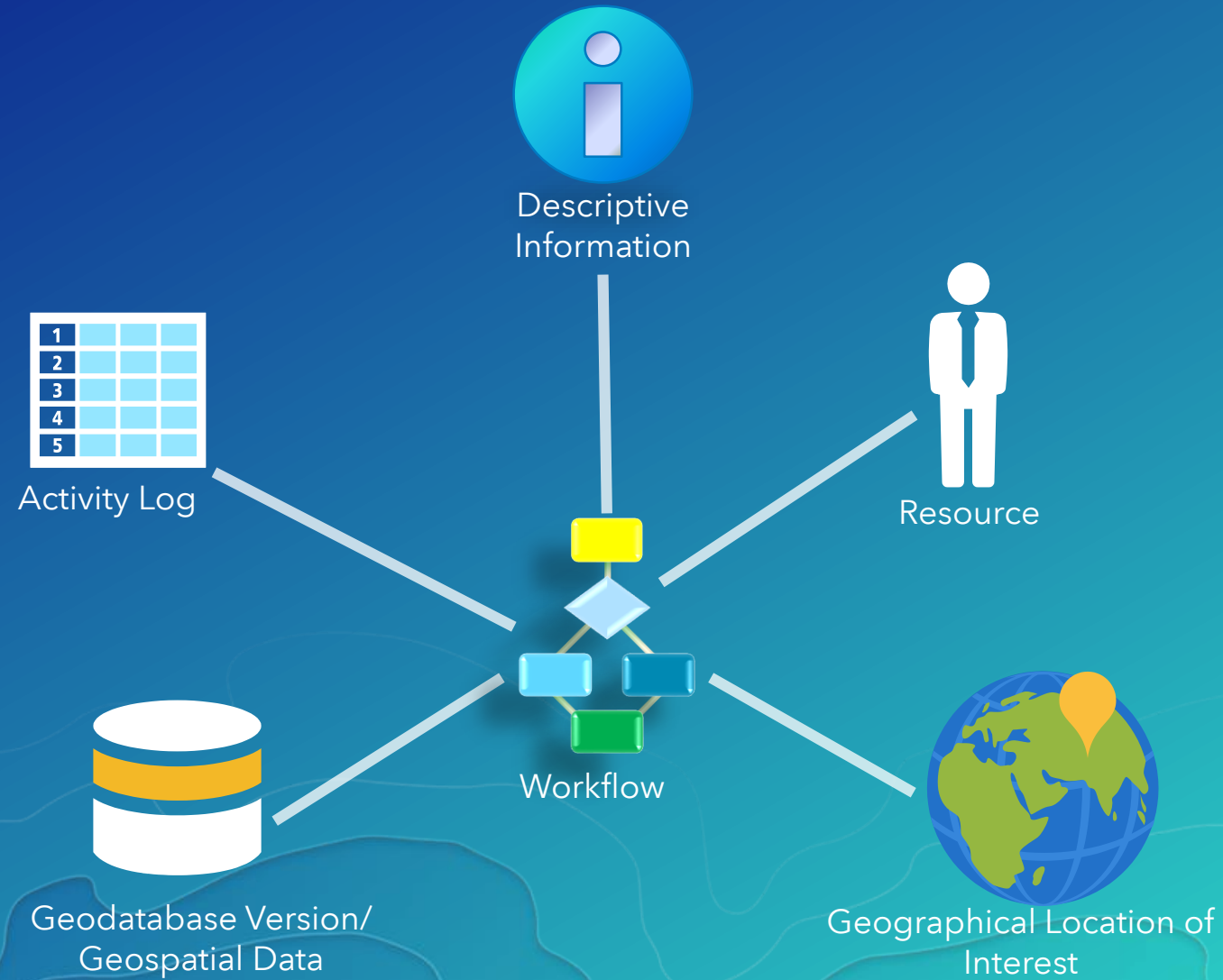
A framework for operational efficiency

ArcGIS Workflow Manager: Advanced Workflows and Concepts

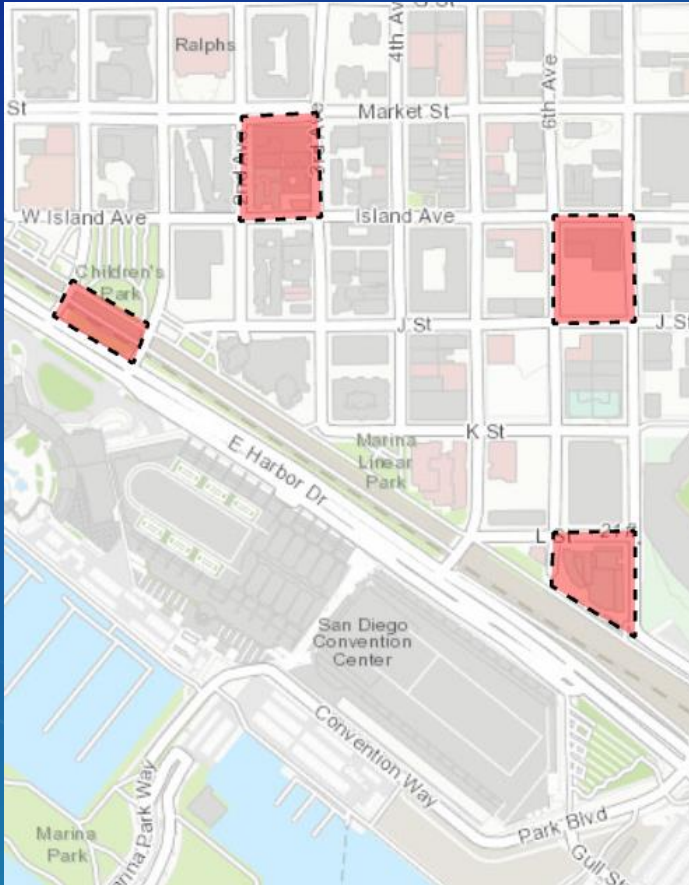
Workflow Manager System Framework



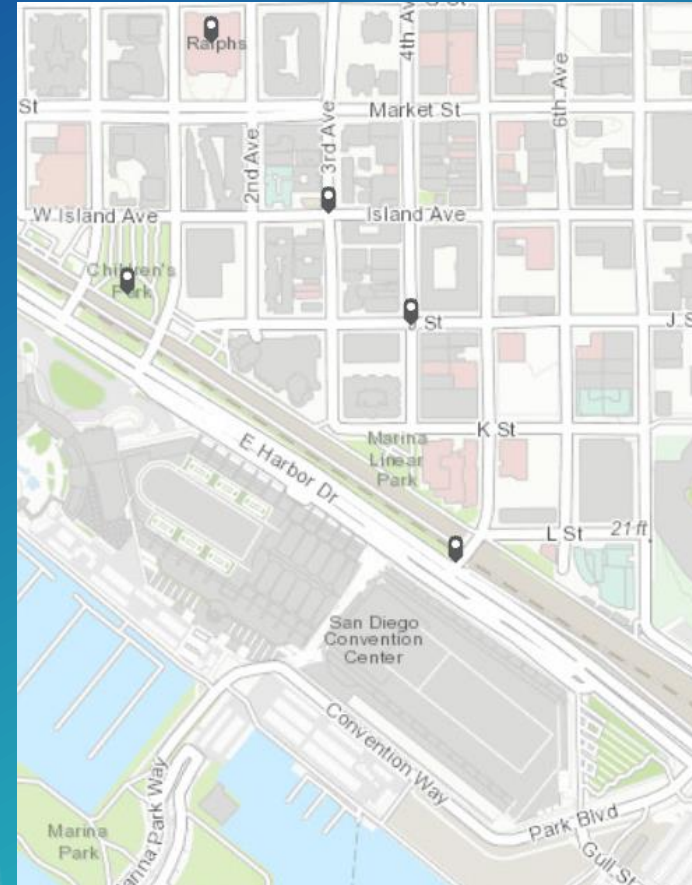
Anatomy of a job



Location of Interest (LOI)



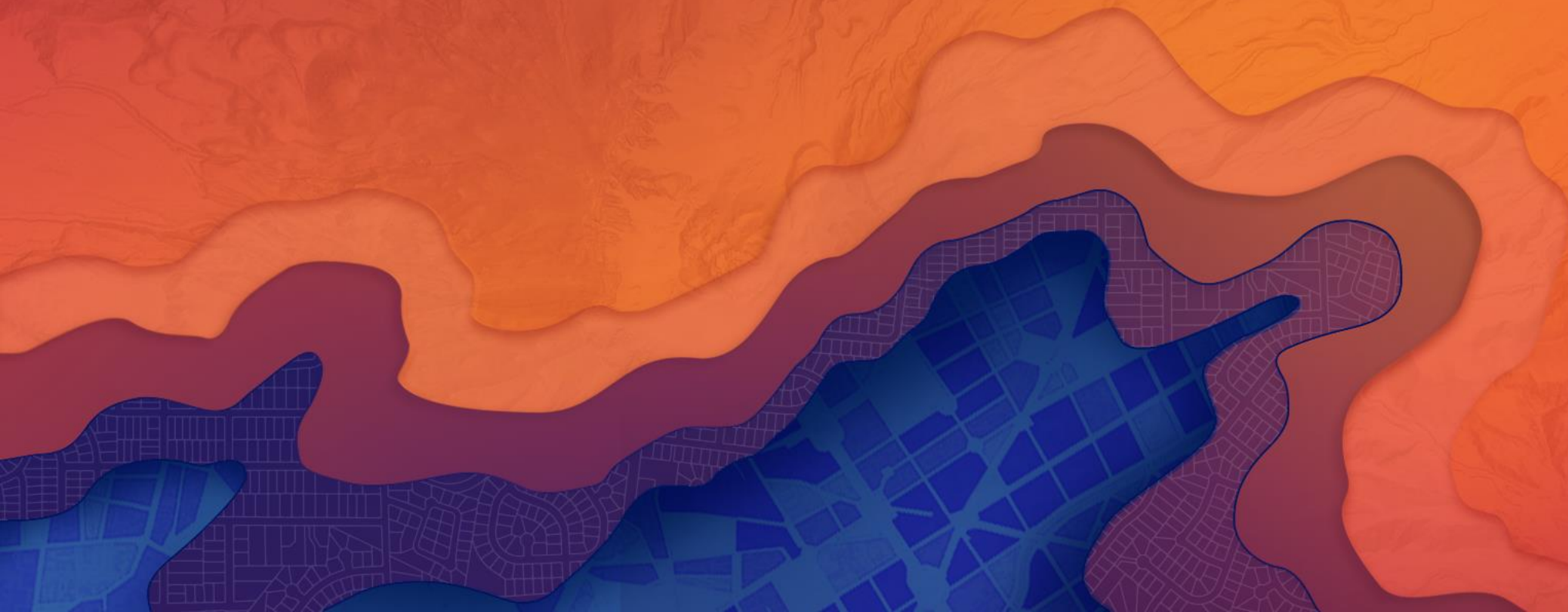
Area of Interest (AOI)



Point of Interest (POI)

Demo

Introduction



Software Demonstration

Vegetation Growth Encroaching Rail Line?



Survey Manager

Create a Workflow and Job

- Workflow to update a vegetation boundary
- Assign the job to the GIS Specialist



GIS Specialist

Edit the Data and Notify Field

- Update the vegetation boundary
- Notify Field Crews of pending work
- Send data to field to assist



Field Crew

Perform Field Work and Mark Job as Complete



Business Manager

View Job Progress, History and Reporting

Software Demonstration

Vegetation Growth Encroaching Rail Line?



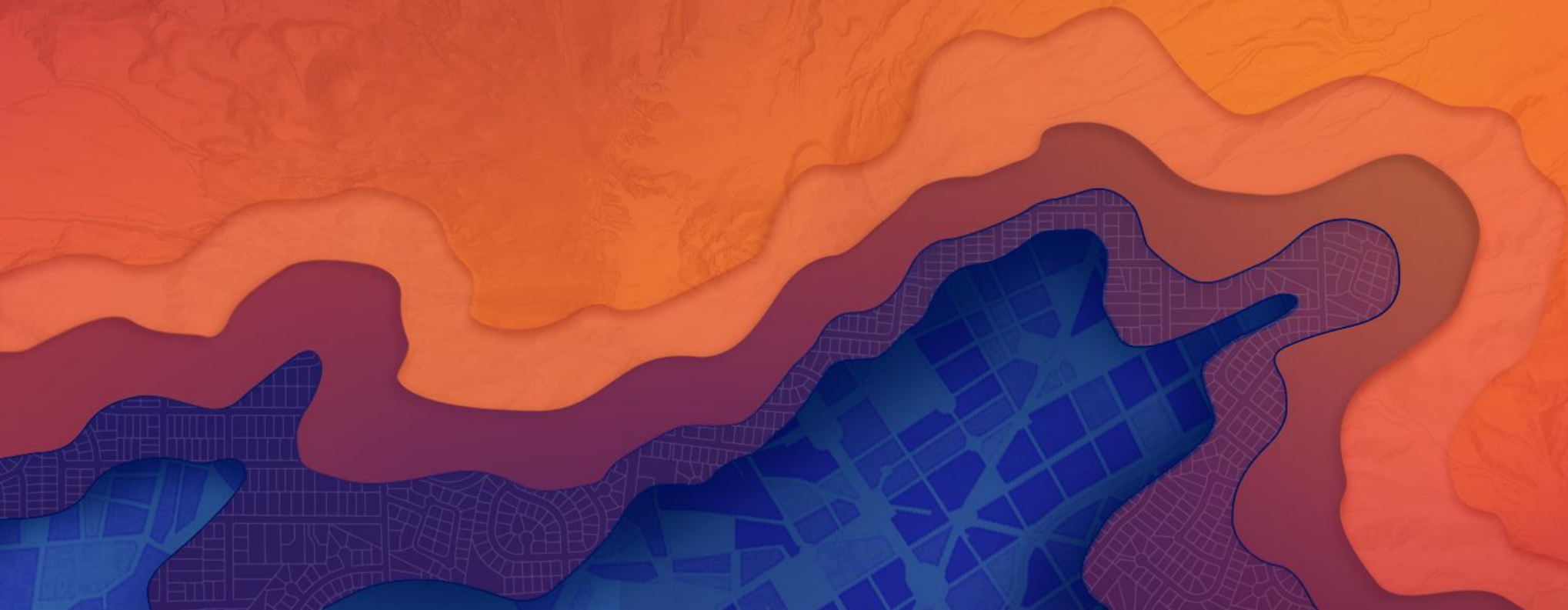
Survey Manager

Create a Workflow and Job

- Workflow to update a vegetation boundary
- Assign the job to the GIS Specialist

- Identify issues in the current workflow
- Add new steps
- Reconfigure existing steps and paths
- Configure notification and extended property
- Use geoprocessing script to automatically make decisions
- Update and simplify workflow
- Updating job type

Configure



Workflow Manager Administrator Roles

Basic Administrator



Workflow Author



Workflow Developer



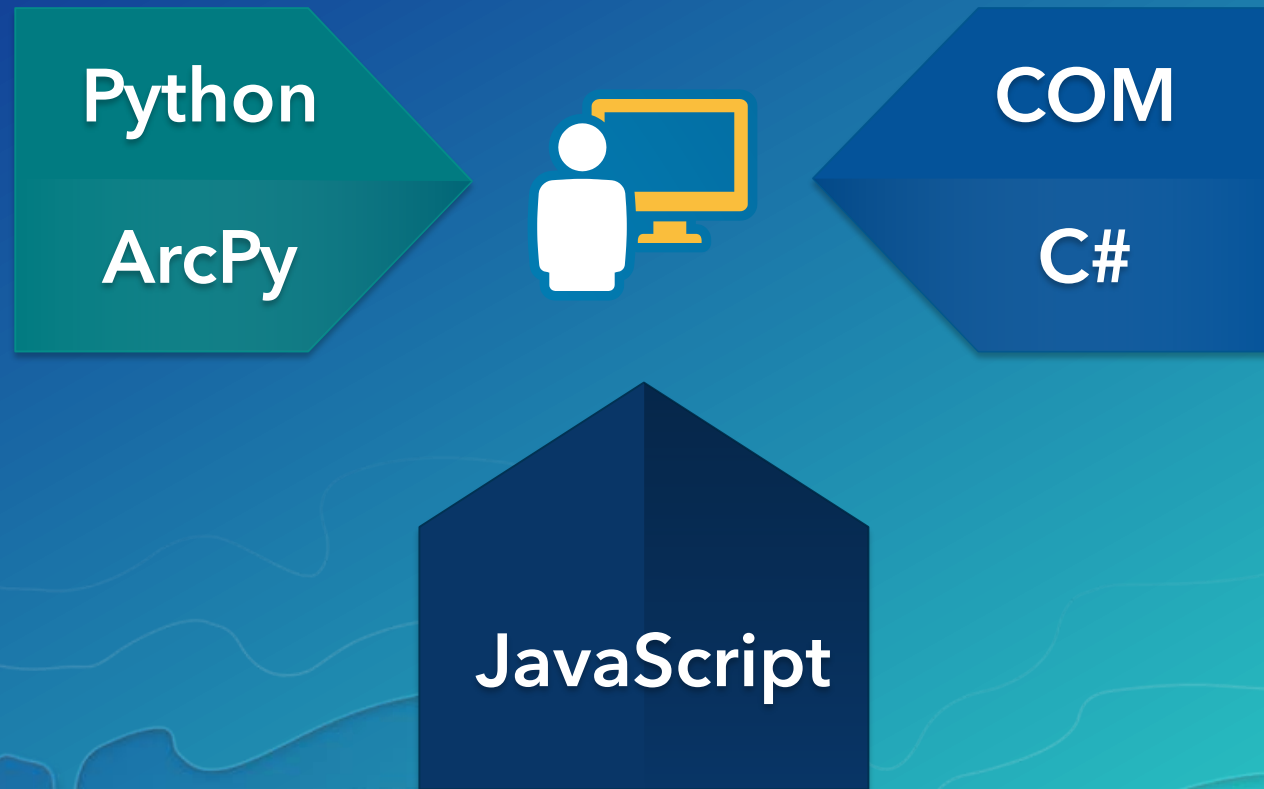
Basic Administrator



Workflow Author

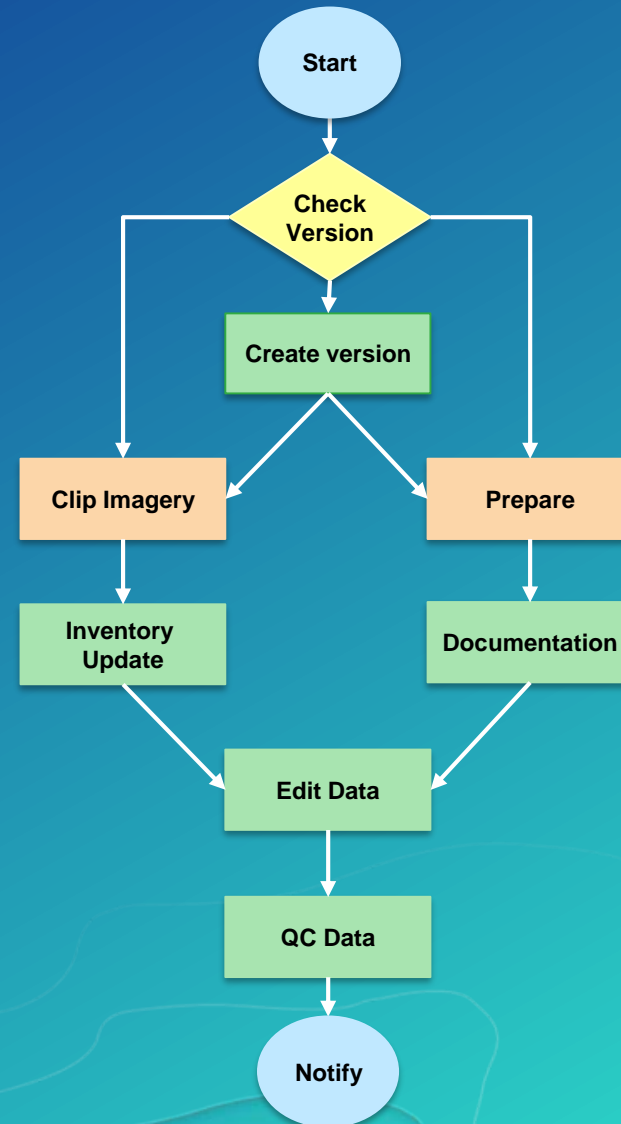


Workflow Developer



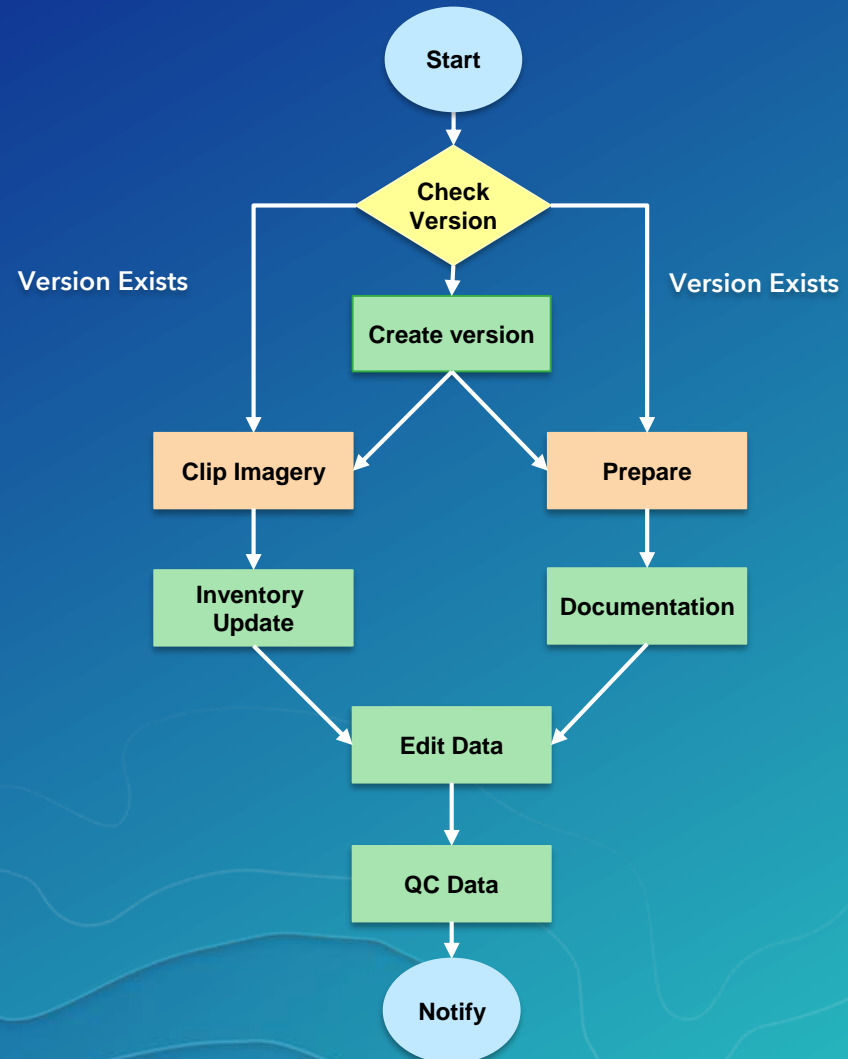
Designing Workflows

- Step type library
 - Procedural (Manual)
 - Ask question
 - Run executable
 - Open file
 - Launch URL
 - Custom
- Execution paths



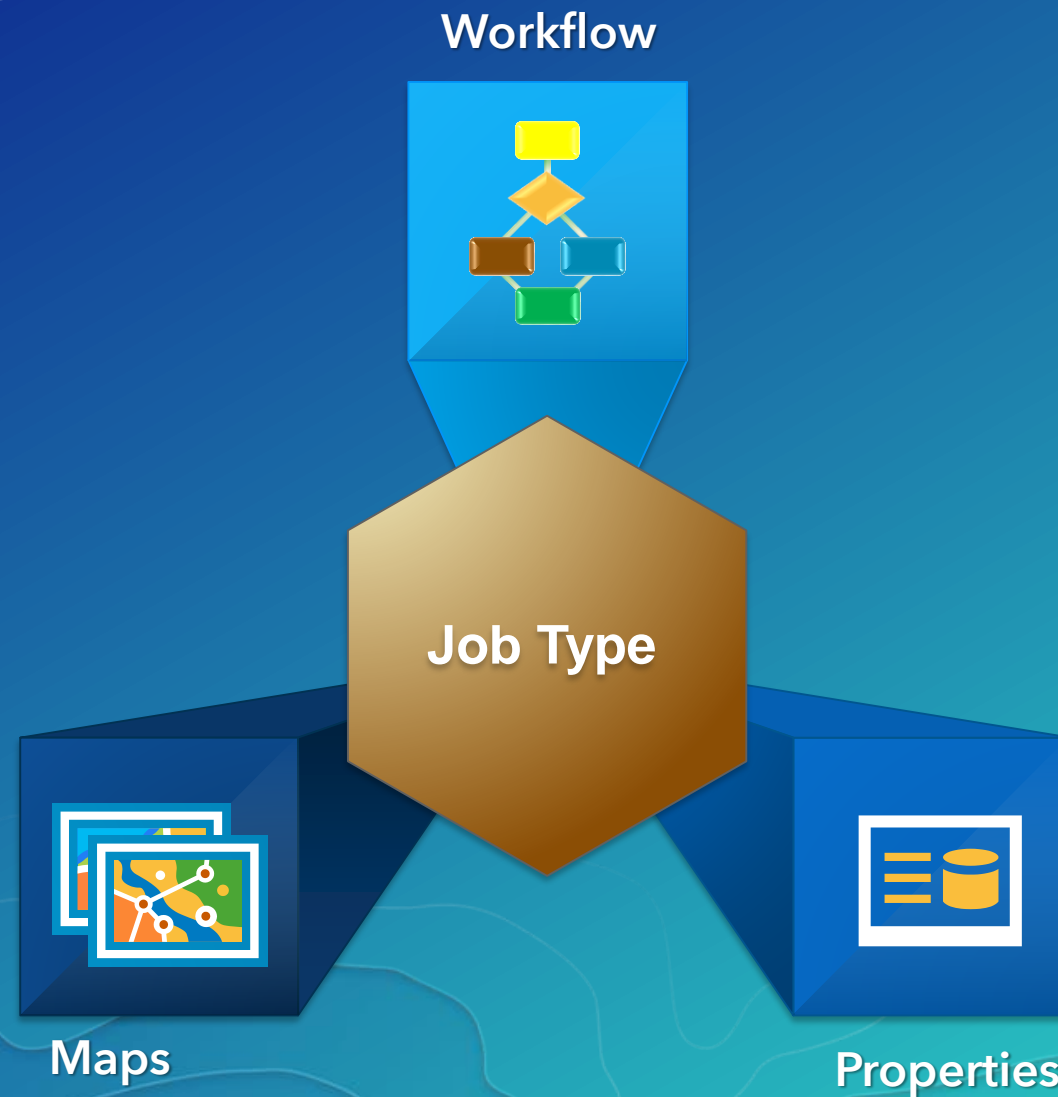
Designing Workflows

Create Workflow

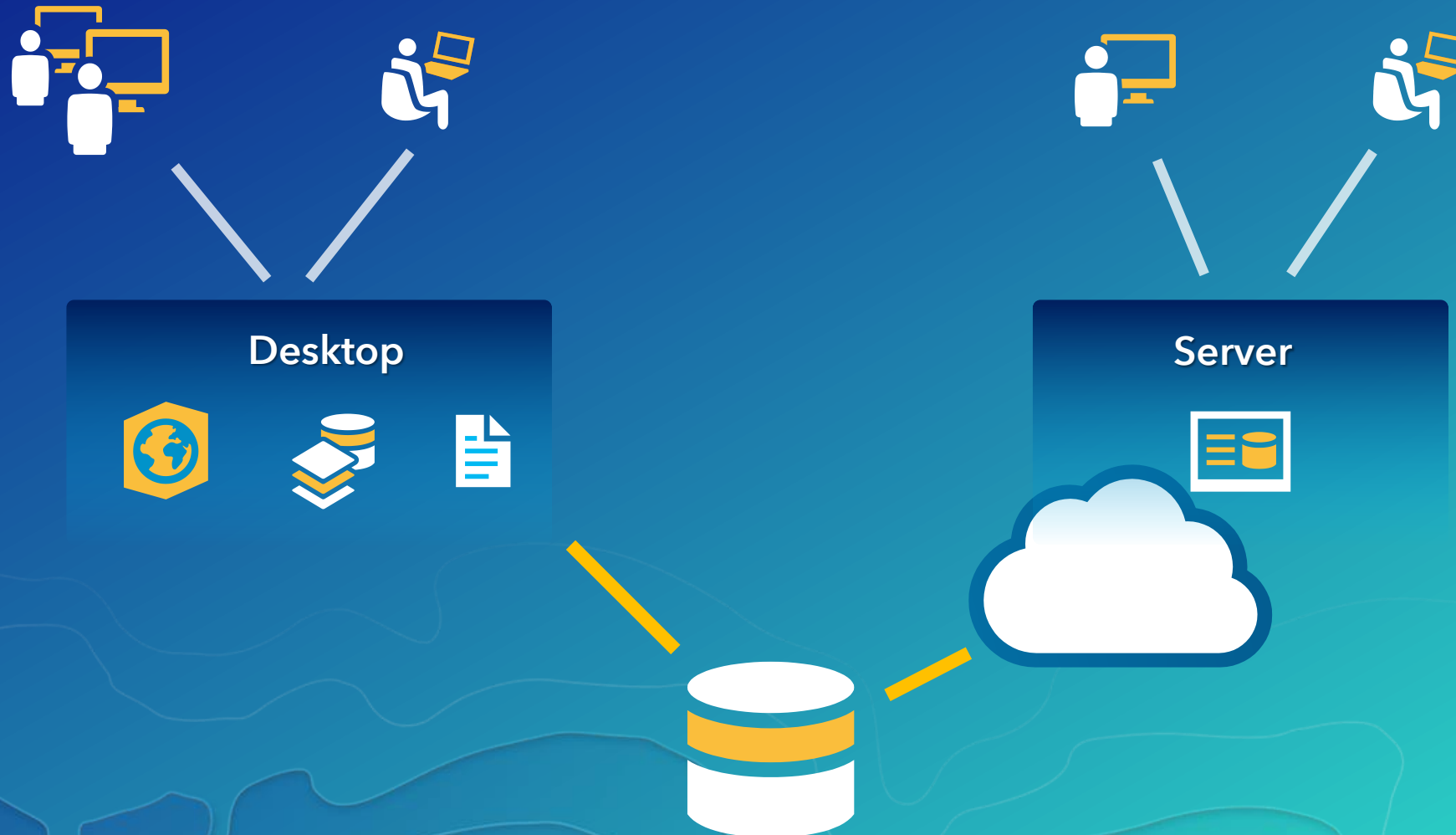


Designing Workflows

Configuring Job Types



Sharing Workflow Manager

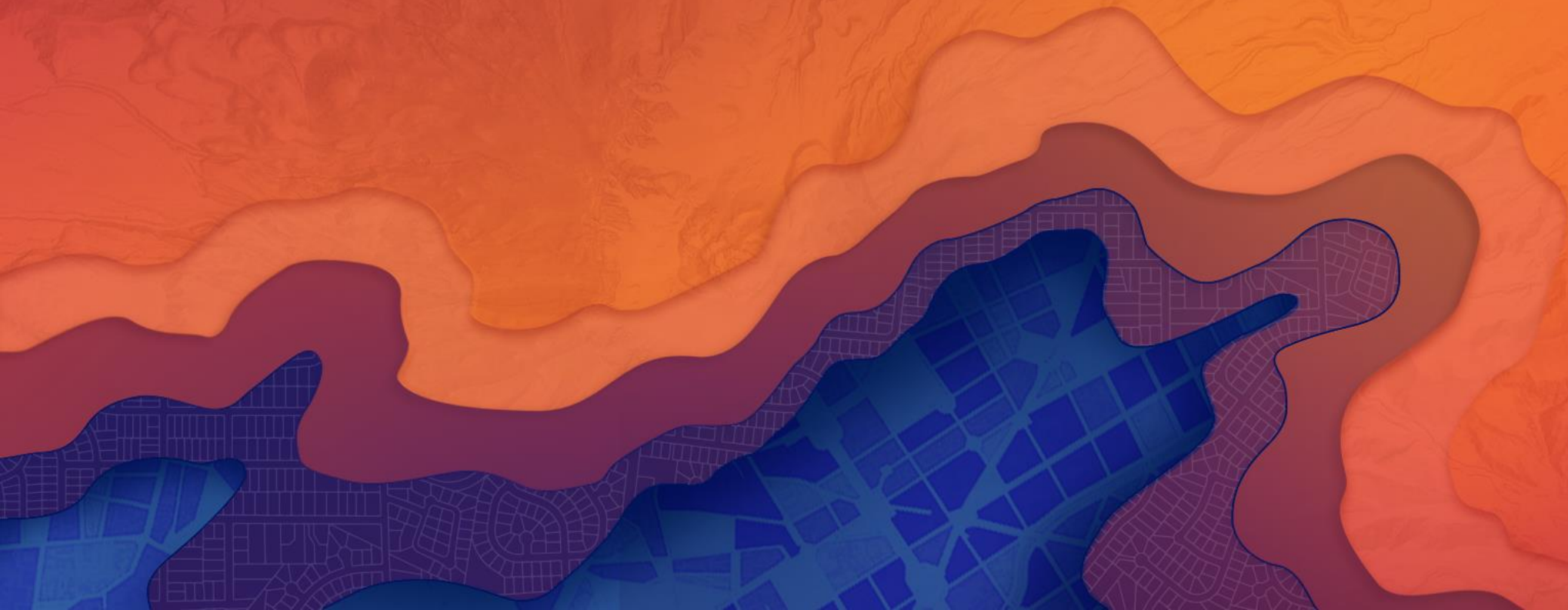


Demo

Designing Workflows



Notify and Relate



Notifications



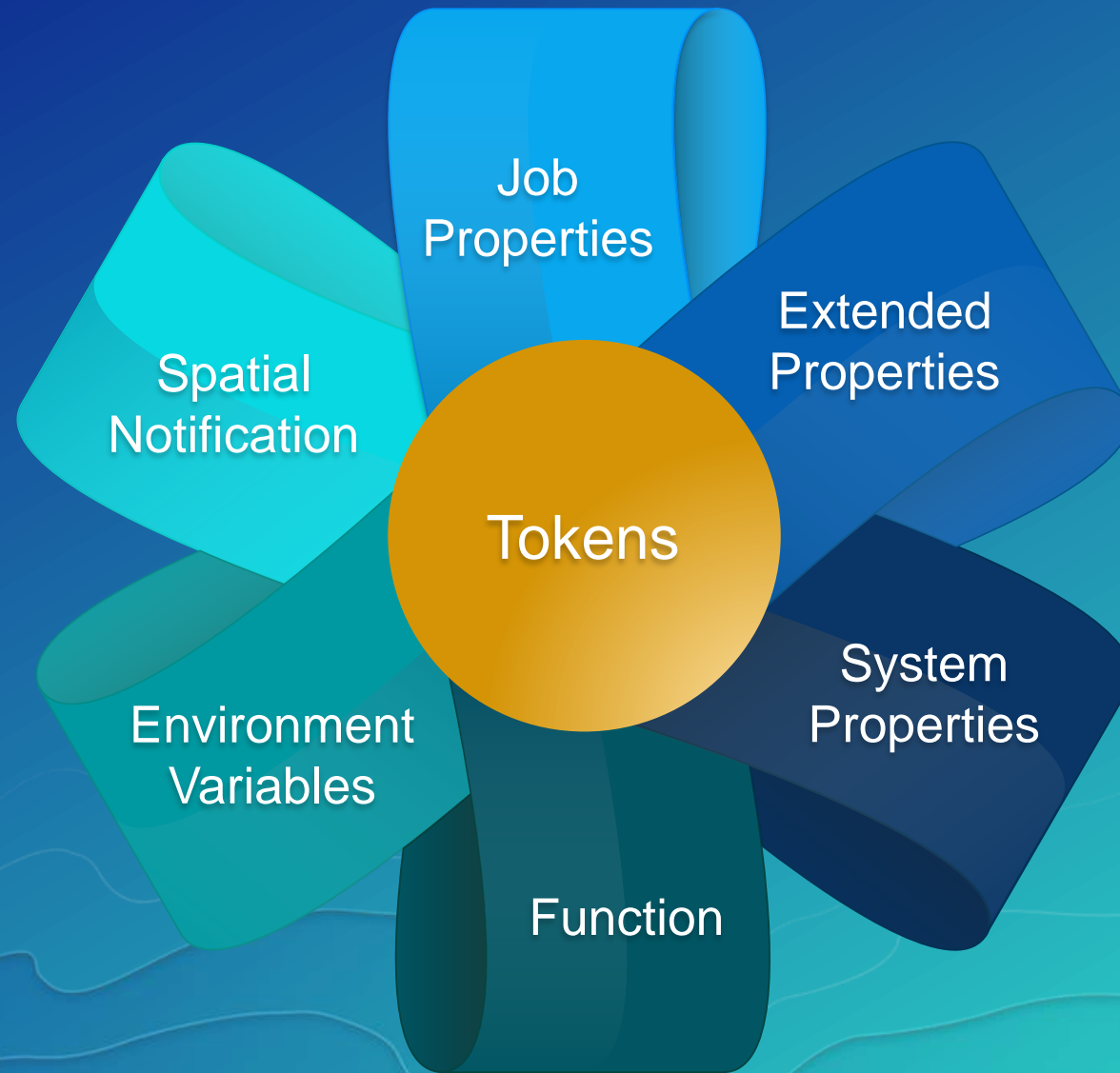
Utilizing Tokens

[EMAILOF([JOB:ASSIGNED_TO])]



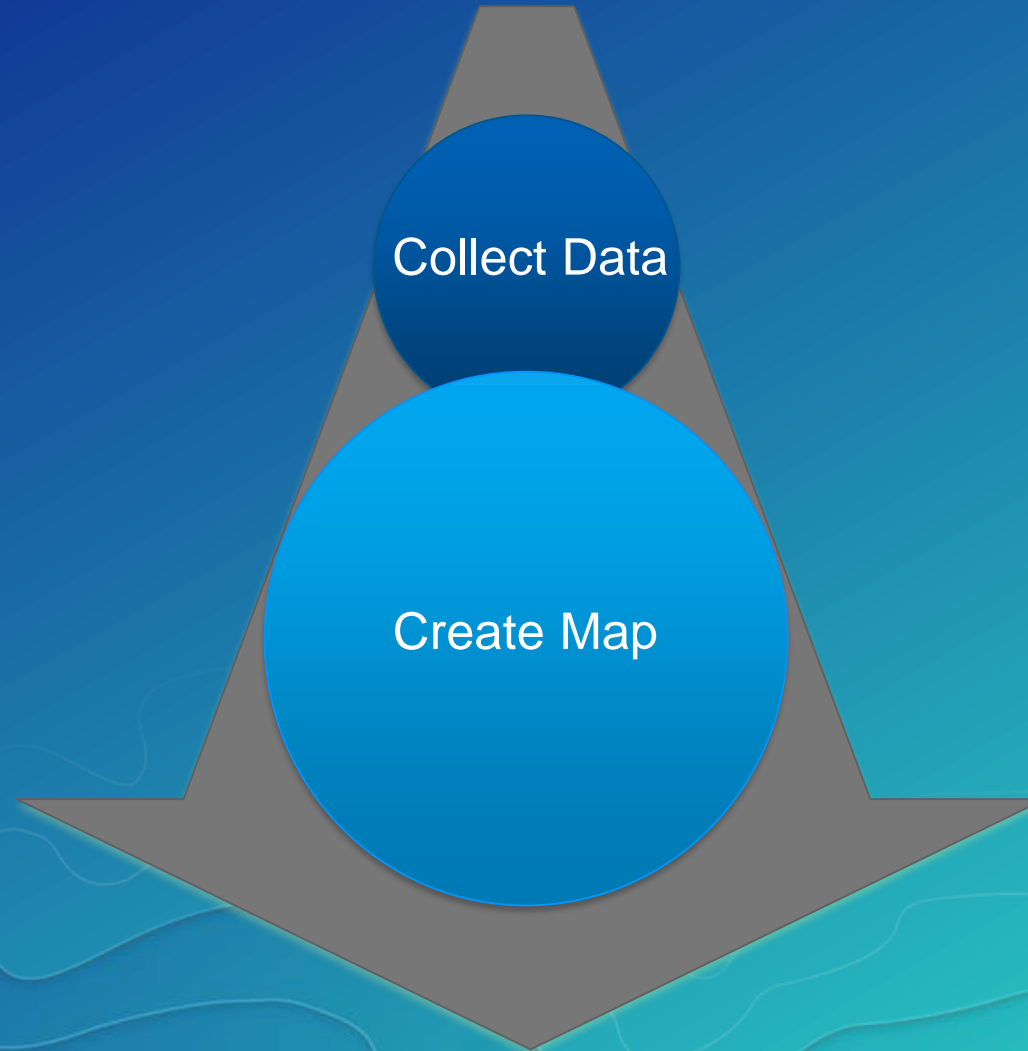
john1234@esri.com

Token Parsers



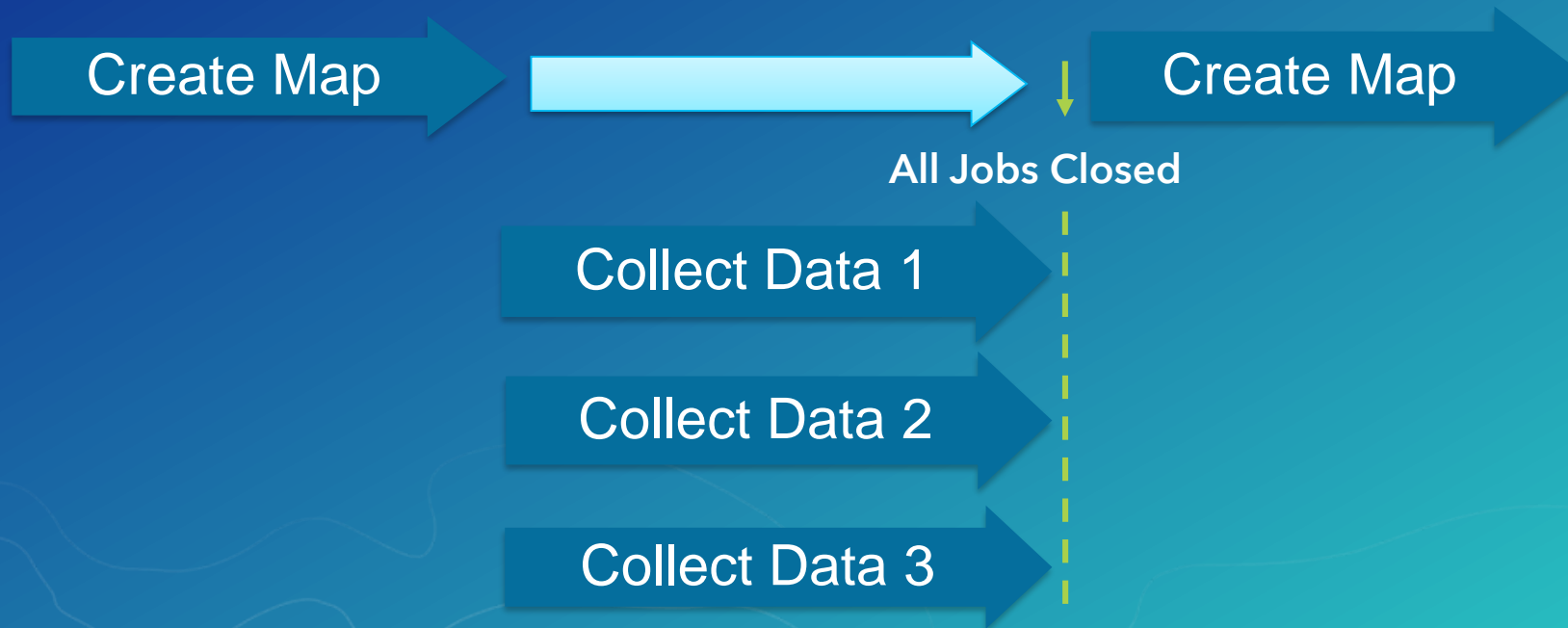
Advanced Workflow Modeling

Child Jobs and Dependencies



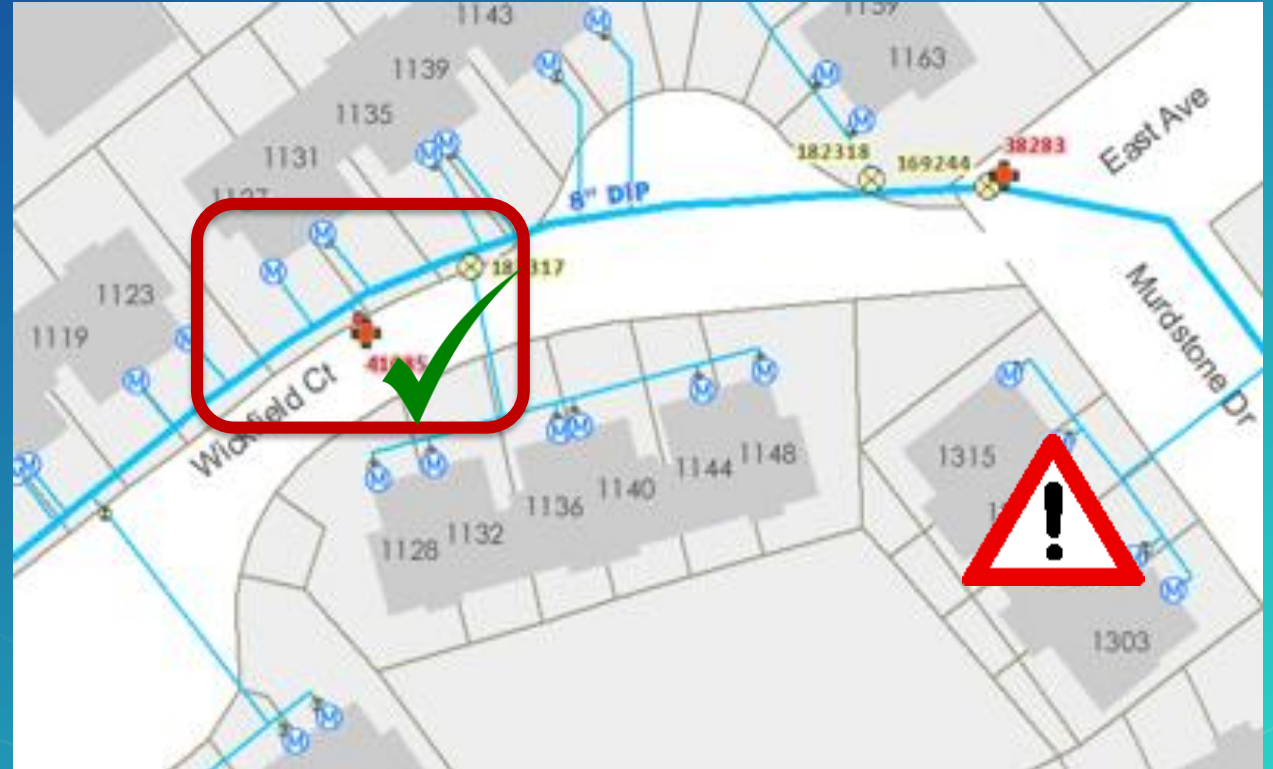
Advanced Workflow Modeling

Child Jobs and Dependencies



Restrict Editing

- Restrict selection or editing of features near or within a job's area of interest



Demo

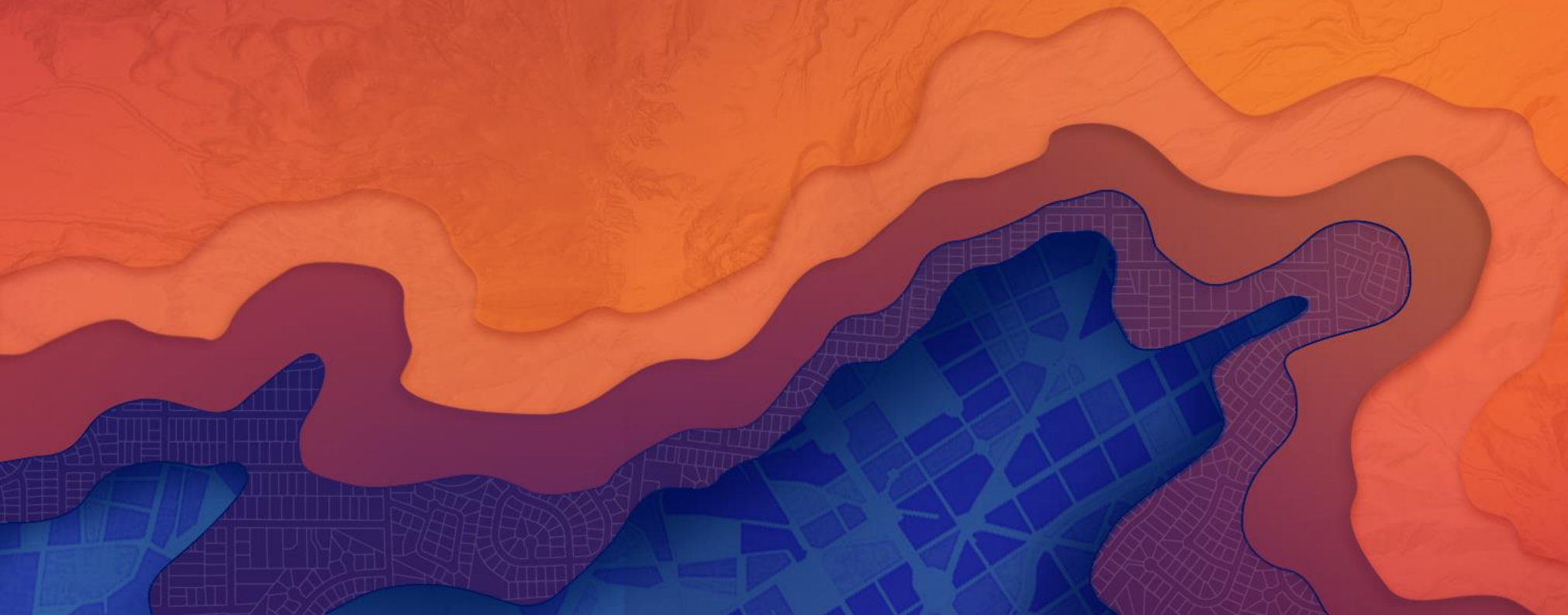
Notifications

Tokens

Job Relationships

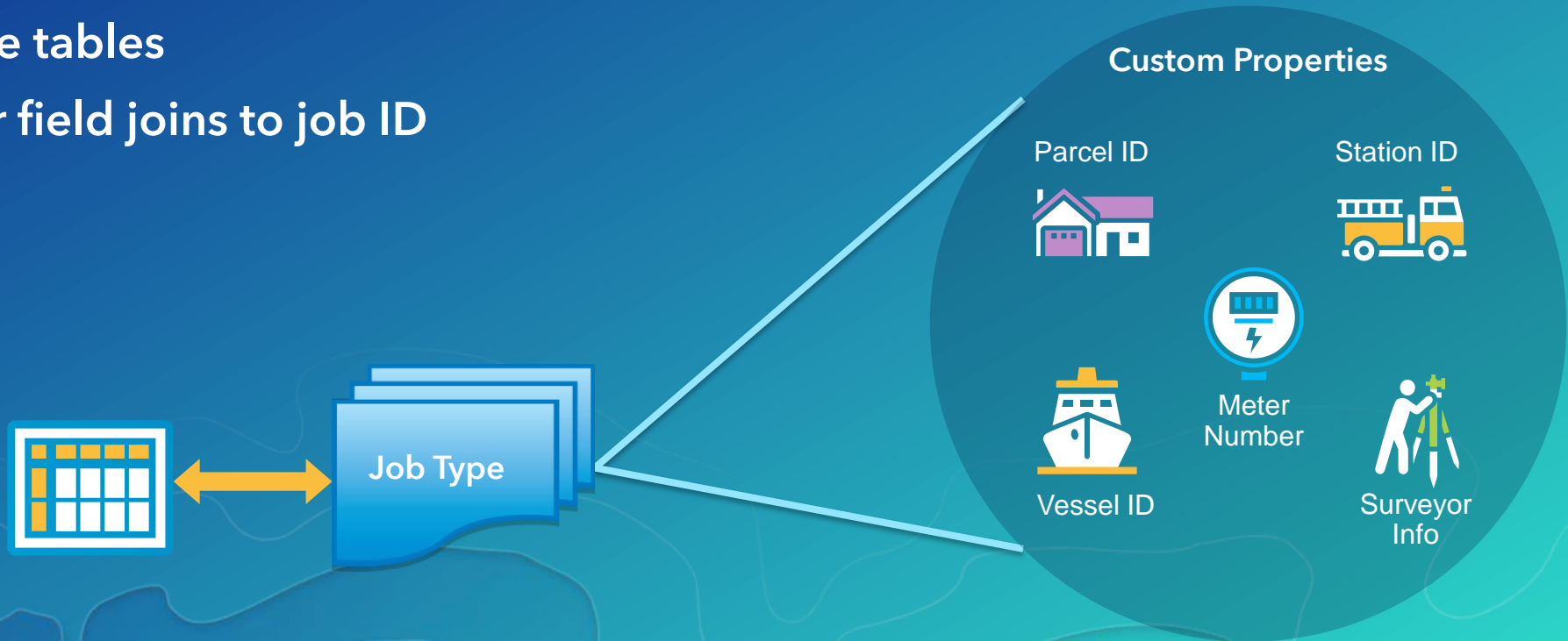


Integrate and Analyze



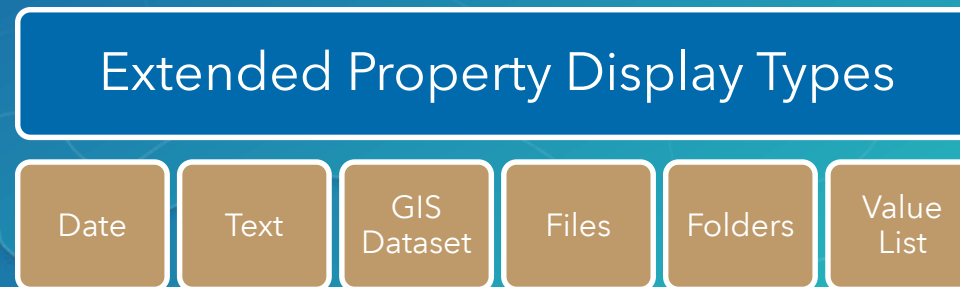
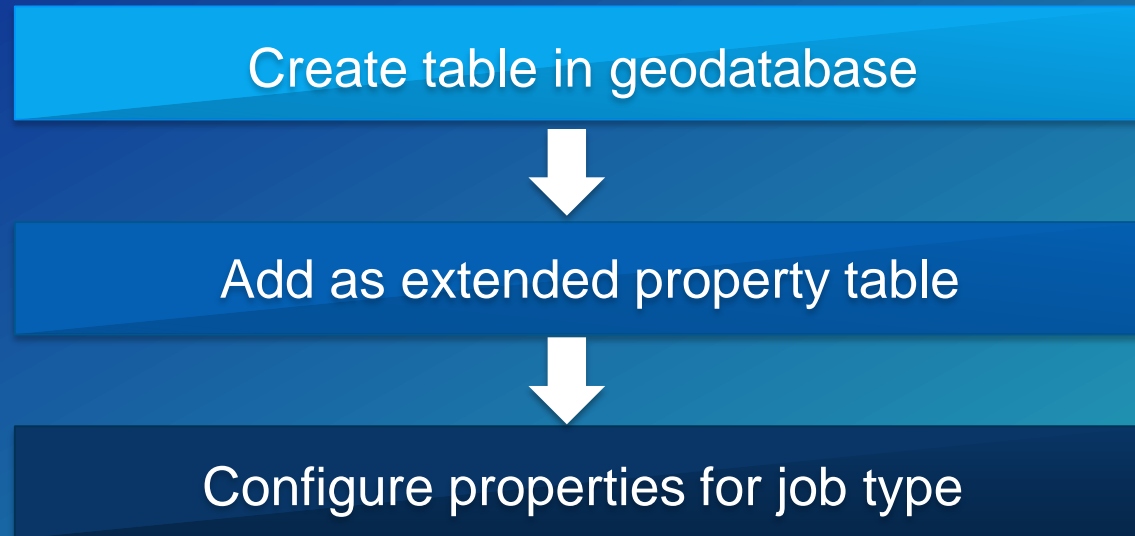
Integrating Business Data

- Business-specific data
- *One-to-One* or *One-to-Many* relationships
- Geodatabase tables
- Long integer field joins to job ID



Integrating Business Data

Configuring Extended Properties



Advanced Workflow Modeling

Geoprocessing Steps & Tools

- Run GP tools from steps
 - Provide parameter at runtime
 - Use pre-defined parameters
 - Output automatically drives workflow
- Invoke GP services
- Workflow Manager Tools



Advanced Workflow Modeling

Python API

Repoint Map Templates

Manage Holds and
Dependencies

Create Customized Jobs

Manage Extended
Properties

Execute Steps

Manage Job Properties

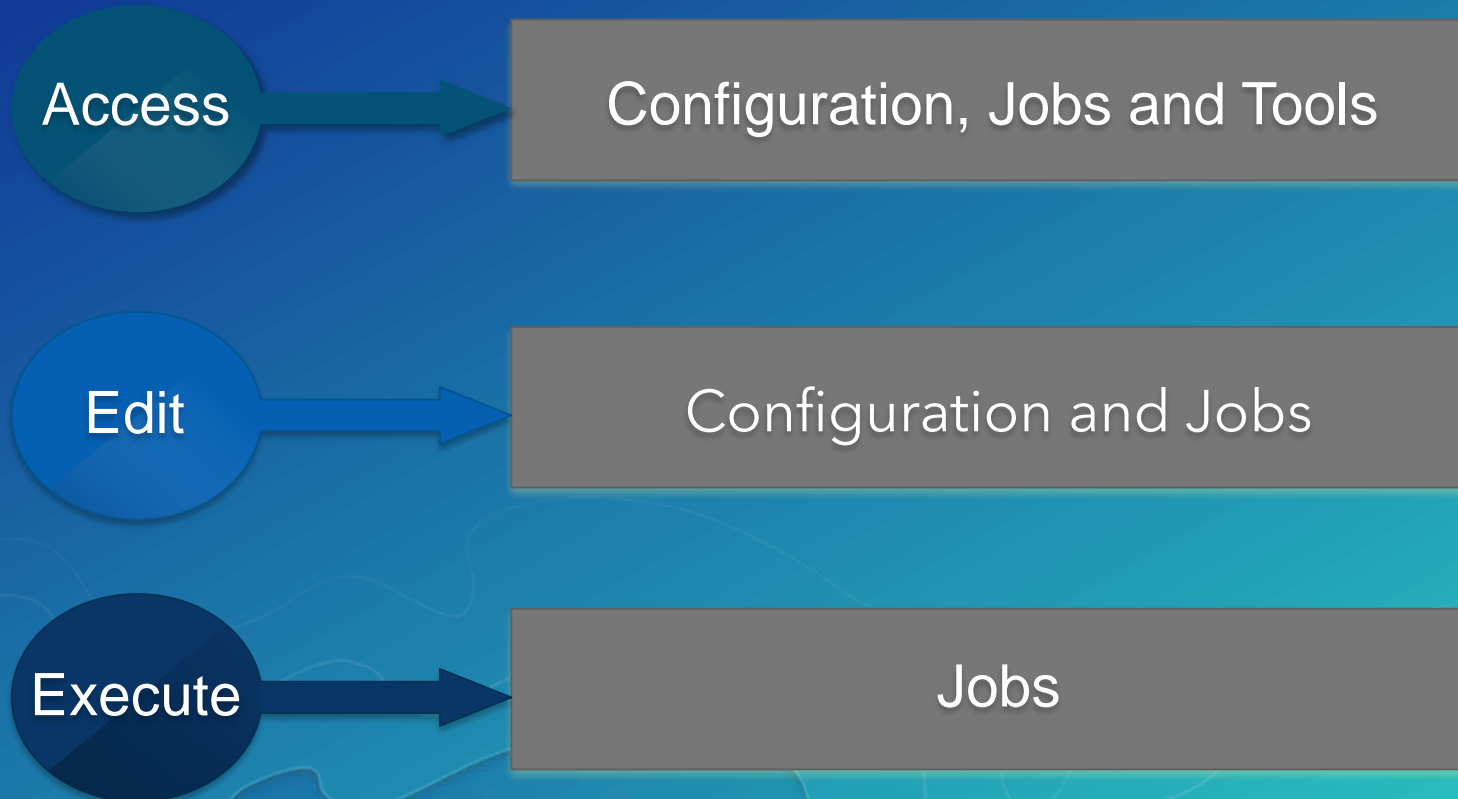
Manage Attachments

Manage Job Maps



Trigger Notifications

Advanced Workflow Modeling

Python API



Compatibility with ESRI Apps

	Workforce	Create Workforce Assignments from Workflow Manager
	Collector	Create Feature Service for collection and distribute the URL using Workflow Manager
	Operations Dashboard Widget	See the Status of Jobs in your Organization
	Web AppBuilder Widget Coming soon	Create Workflow Manager jobs

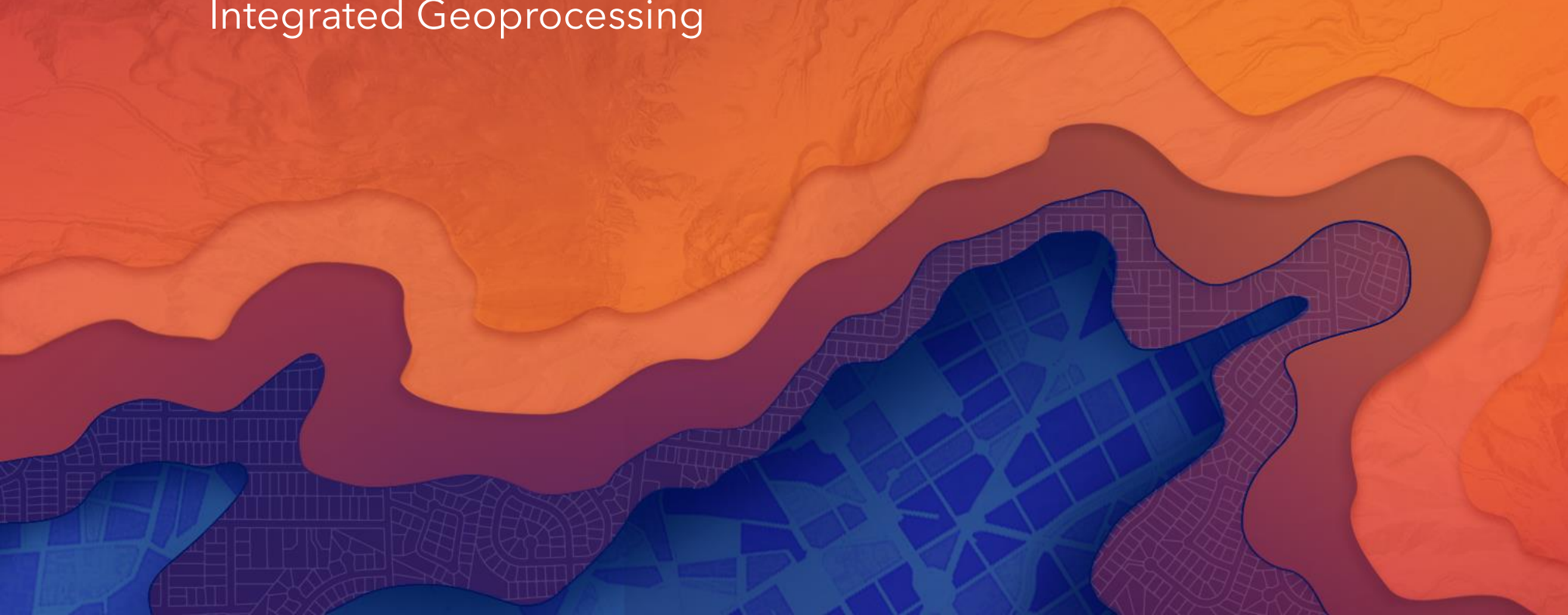
Samples available on Github

ArcGIS Workflow Manager: Advanced Workflows and Concepts

Demo

Extended Properties

Integrated Geoprocessing



Session Recap

- Overview
- Administrator roles
- Design and Configure Workflows
- Notifications and Tokens
- Advance Job Modeling and Editing Restrictions
- Integrating Business Data
- Geoprocessing in Workflows
- Python API

Resources

- **Geonet**

- <https://geonet.esri.com/community/gis/solutions/workflow-manager>

- **Product Page**

- <http://esri.com/workflowmanager>
- <https://server.arcgis.com/en/workflow-manager/>

- **Training**

- <http://training.esri.com/>

- **Samples**

- <https://github.com/Esri/workflowmanager-viewer-js>
- <https://github.com/Esri/workflowmanager-samples>
- <https://github.com/Esri/production-dashboard-js>

Sessions and Demonstrations

Wednesday - July 12th

ArcGIS Workflow Manager: Integrate Tasks into Your Workflow Process

11:30am - 12:15 SDCC Demo Theater 06

ArcGIS Workflow Manager: Integrating Geoprocessing and Python into Your Business Processes

3:30pm - 4:15 SDCC Demo Theater 06

Esri Production Mapping: Automate Map Production with ArcGIS Workflow Manager

3:30pm - 4:15 SDCC Demo Theater 03

Thursday - July 13th

Supporting Daily Workflows with Tools

8:30am - 9:45 SDCC - Room 29 A

ArcGIS Extensions: Tools for Improving Data and Map Production

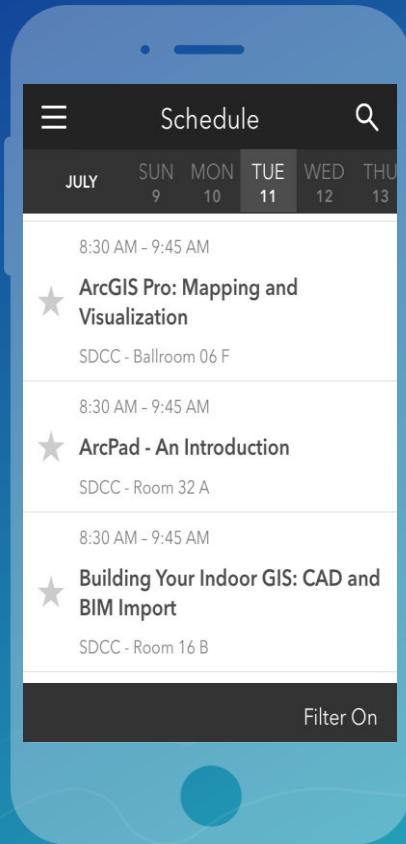
3:15pm - 4:30 SDCC - Ballroom 06 B

Please Take Our Survey on the Esri Events App!

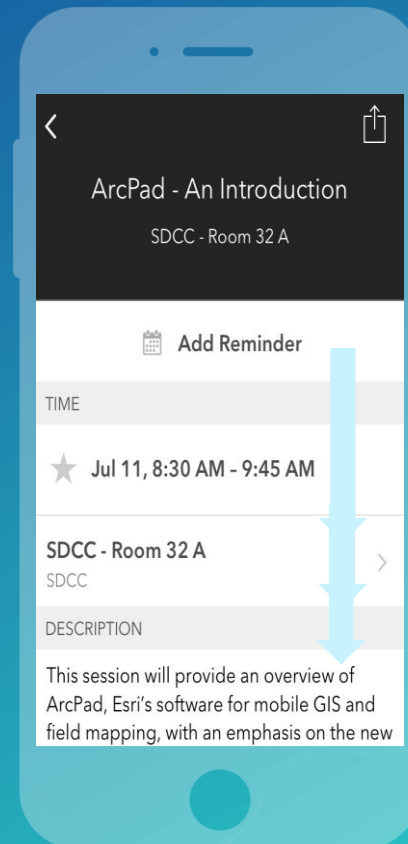
Download the Esri Events app and find your event



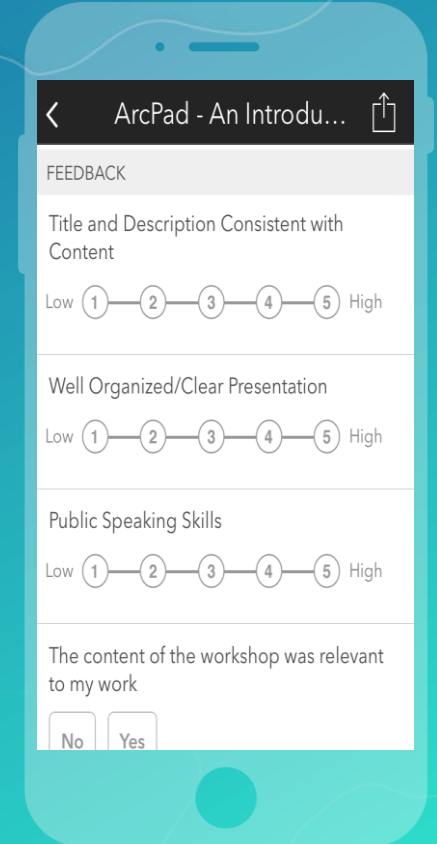
Select the session you attended



Scroll down to find the survey



Complete Answers and Select "Submit"



Questions?



esri

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OF
WHERE