



ArcGIS Workflow Manager: Advanced Workflows and Concepts

Nishi Mishra & Kevin Bedel

Session Topics

Overview

Configure
&
Design

Notify
&
Relationships

Integrate
&
Geoprocess



The background features an aerial photograph of a coastline with a blue banner across the middle. Overlaid on the right side are several semi-transparent, colorful polygons in shades of blue, green, yellow, and orange, representing GIS data layers. A dense cluster of small, multi-colored squares is positioned in the upper right quadrant.

Overview

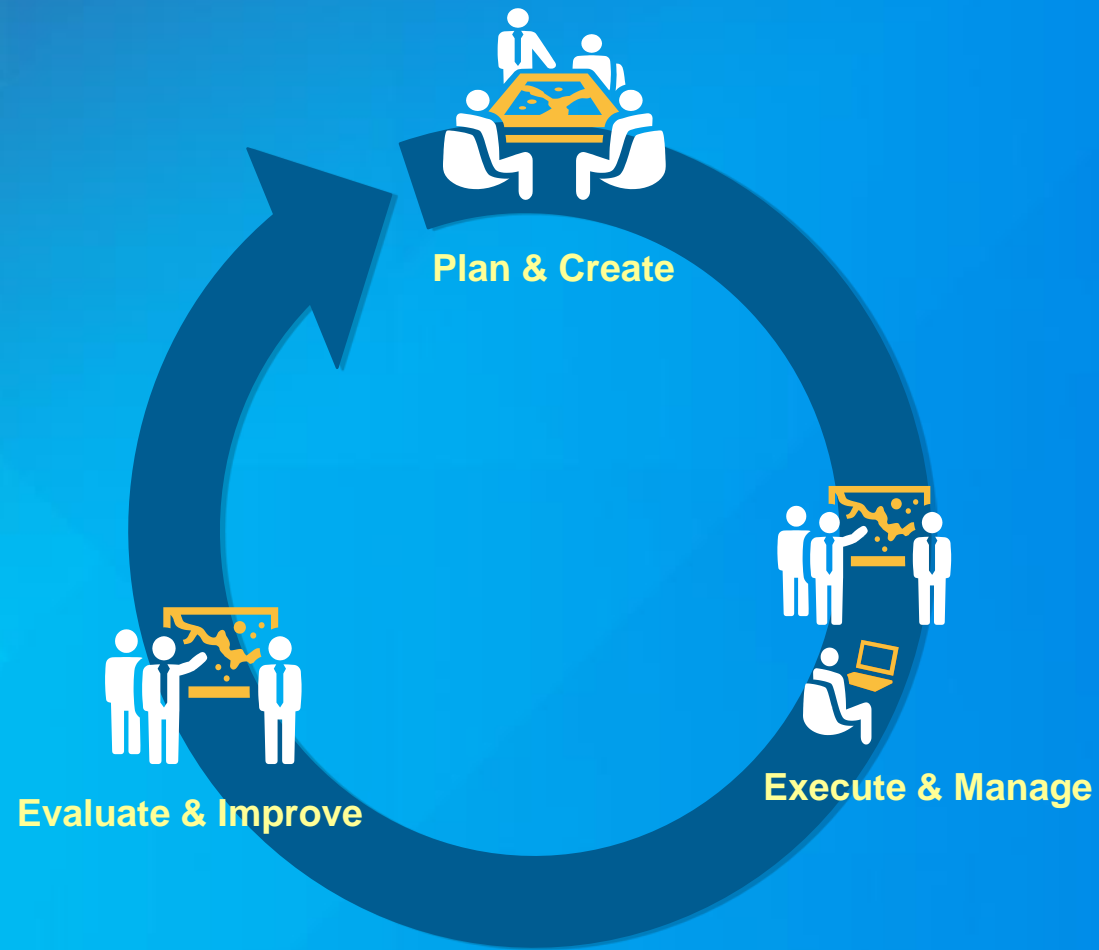
ArcGIS Workflow Manager

What is it?



ArcGIS Workflow Manager

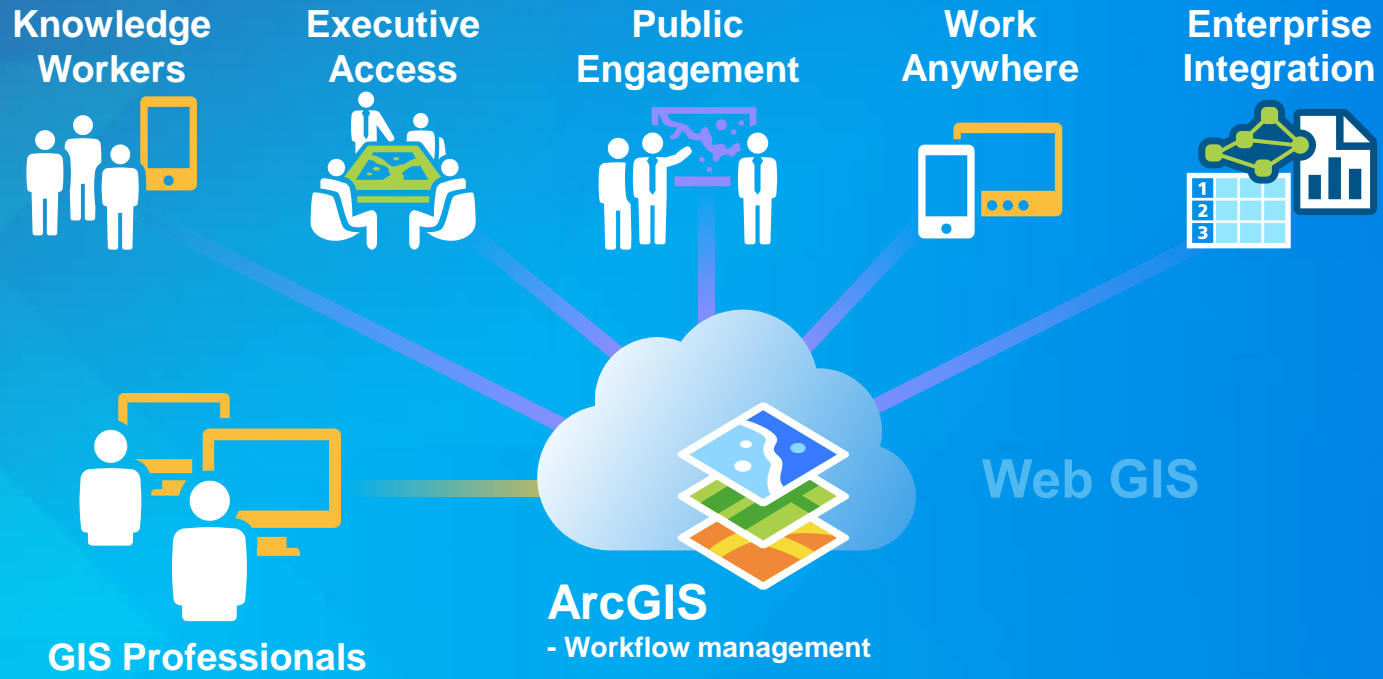
How?



A framework for continuous process improvement

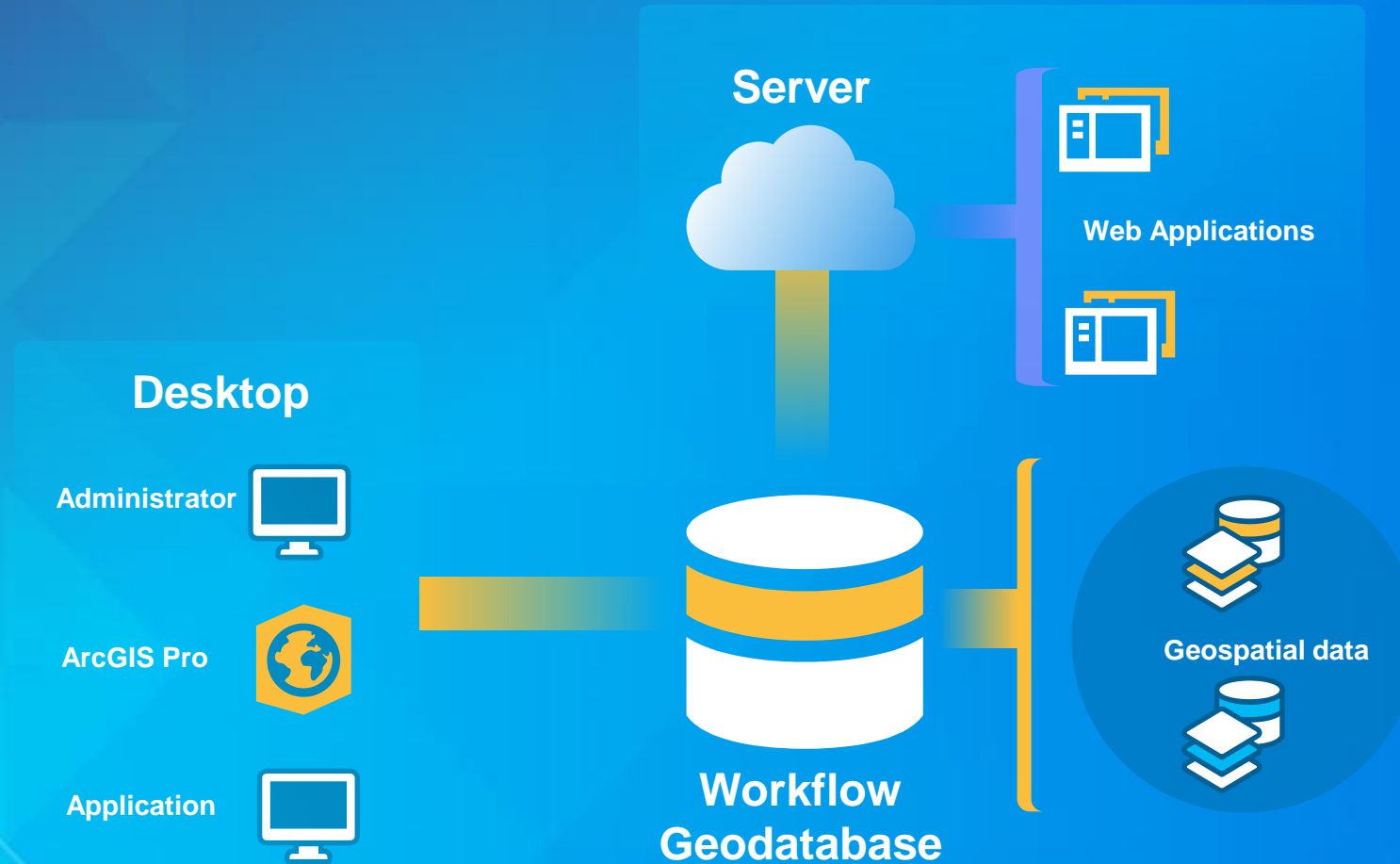
ArcGIS Workflow Manager Advanced Workflows and Concepts

ArcGIS Platform

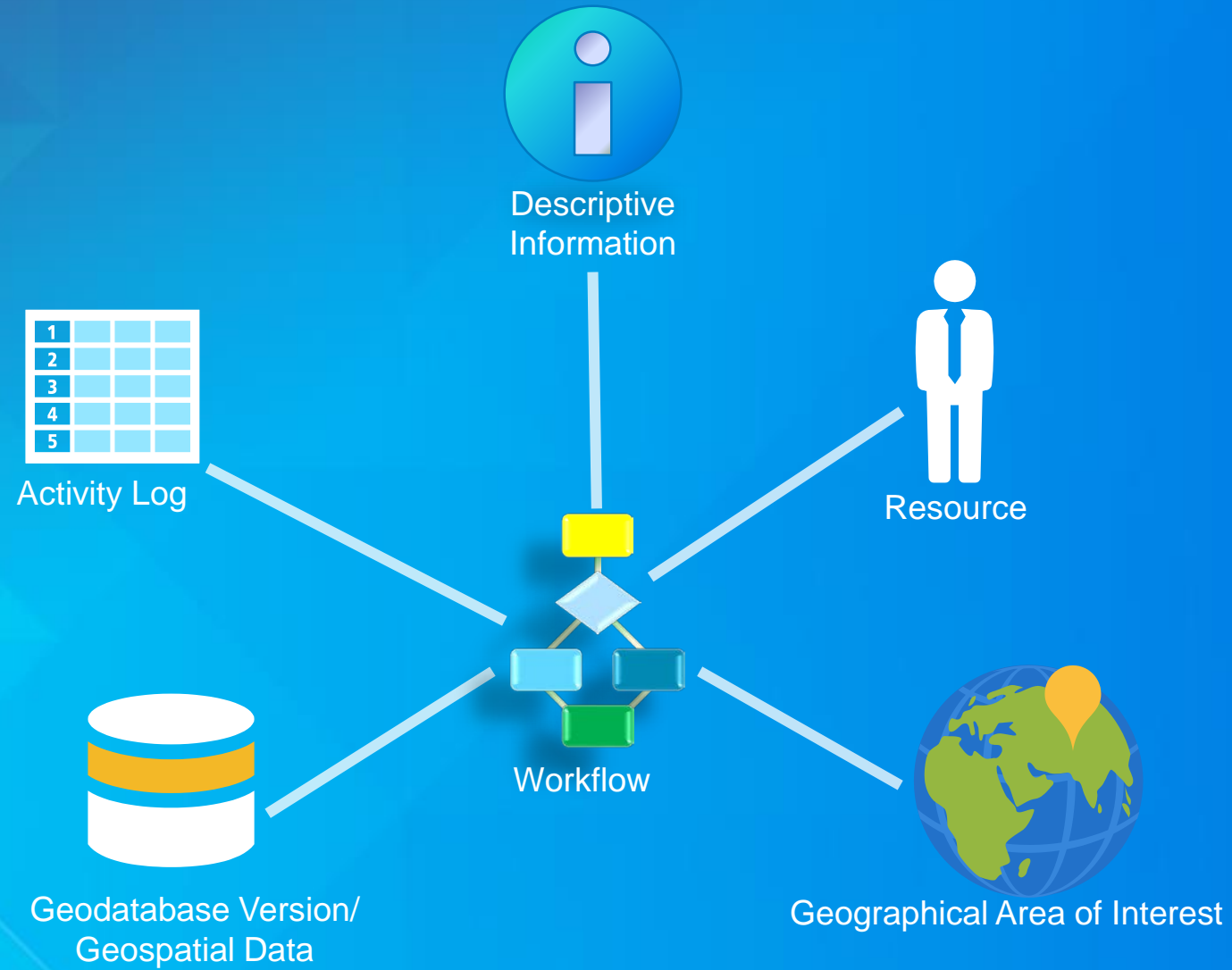


**Making Mapping and GIS
Available Across Your Organization**

Workflow Manager System Framework



Anatomy of a job

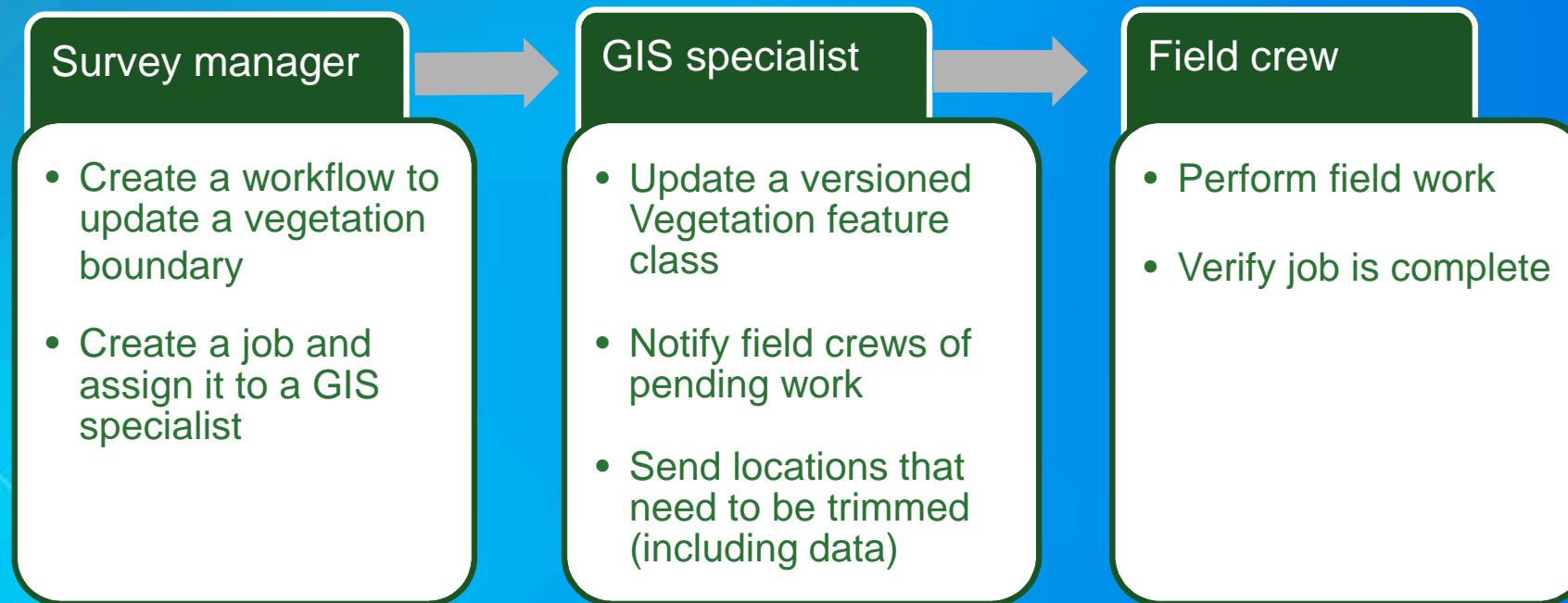


Demo

Introduction

Demo Scenario

- Is vegetation growth encroaching on a rail line?



Configure

Workflow Manager Administrator Roles

Basic Administrator



Workflow Author



Workflow Developer



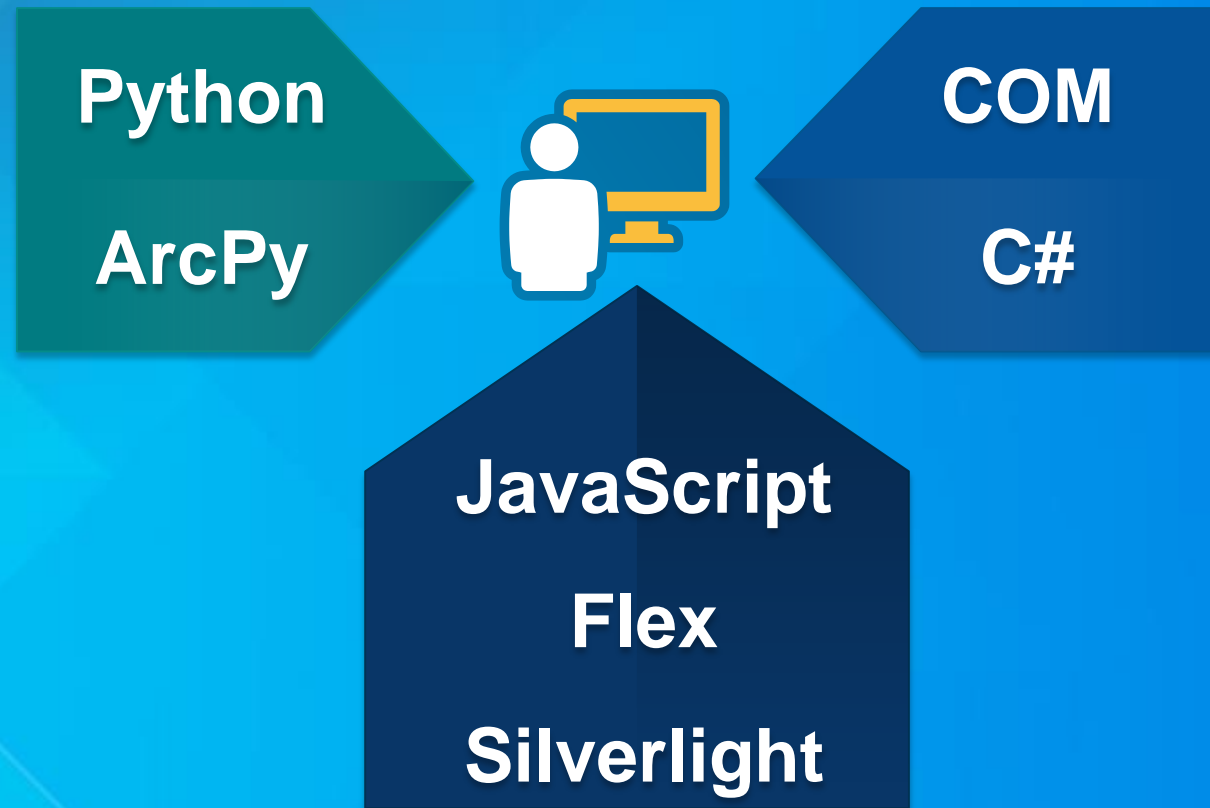
Basic Administrator



Workflow Author

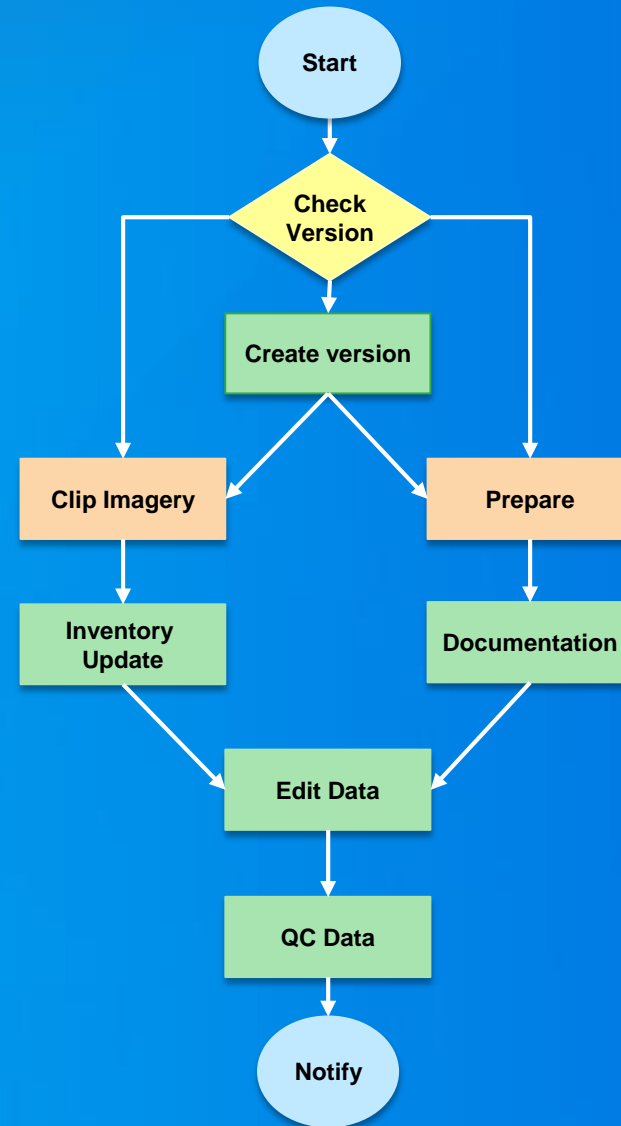


Workflow Developer



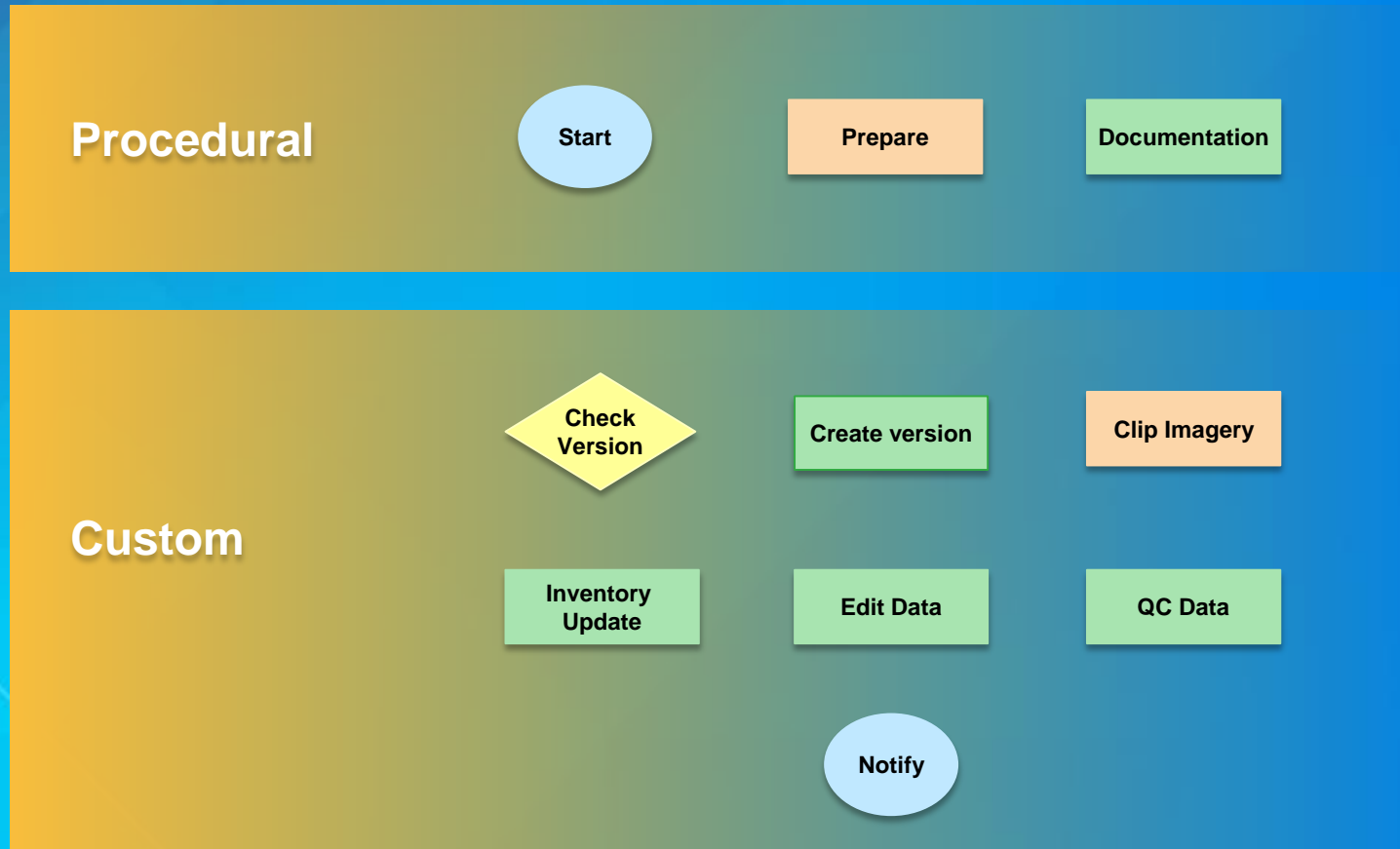
Designing Workflows

- Drag-n-drop workflow designer
- Step type library
 - Procedural
 - Ask question
 - Run executable
 - Open file
 - Launch URL
 - Custom
- Execution paths



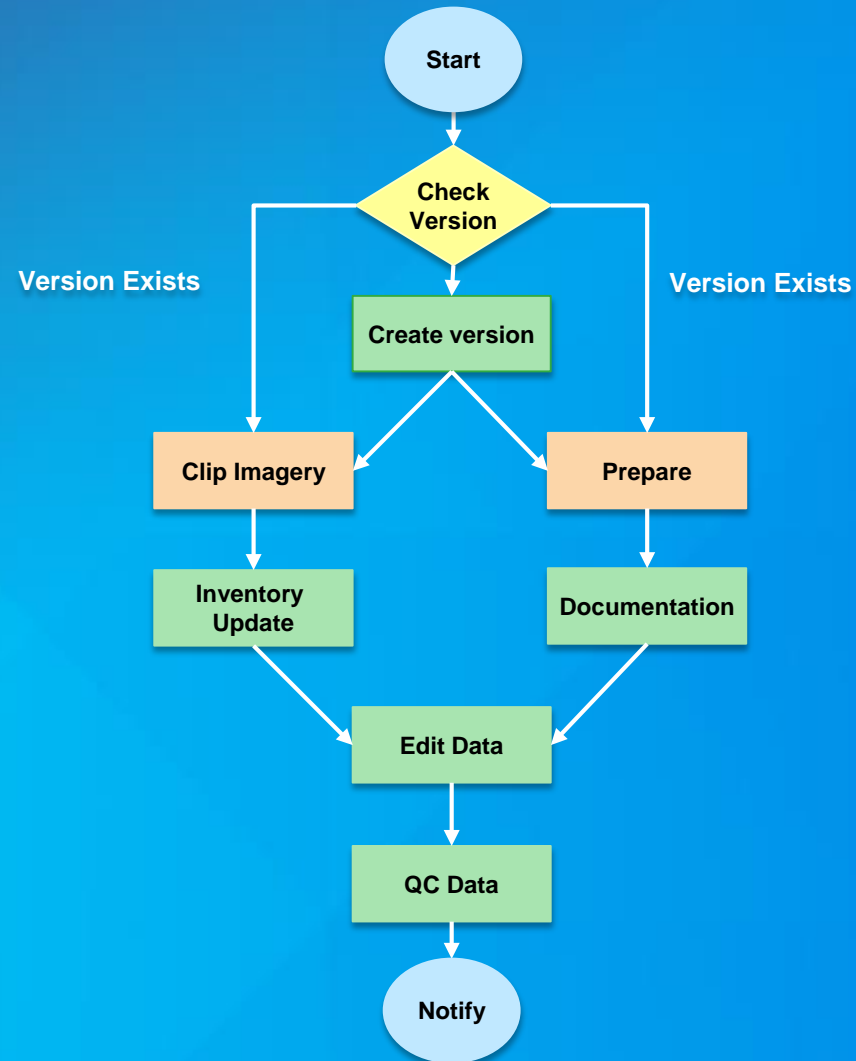
Designing Workflows

Create Step Types



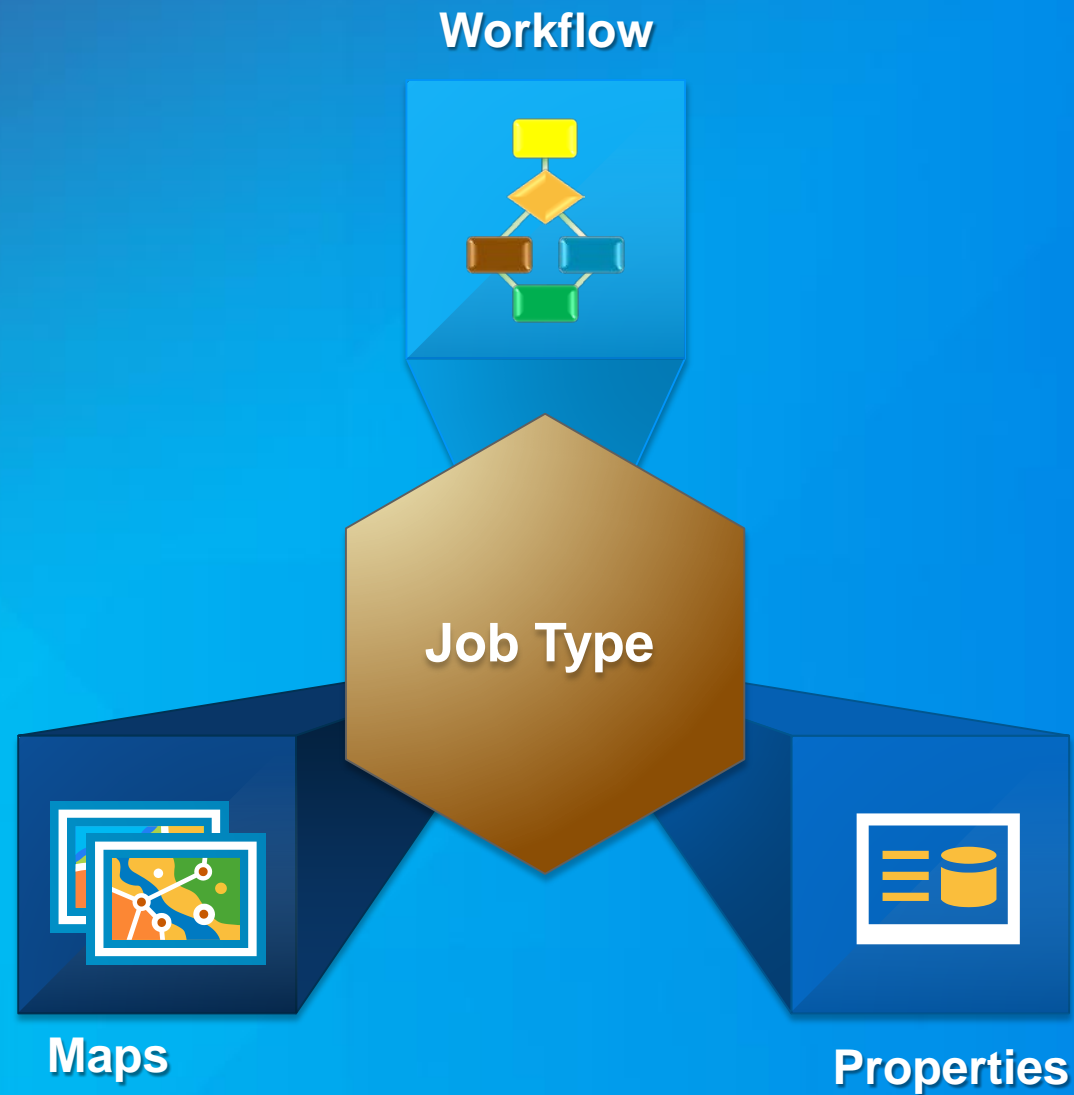
Designing Workflows

Create Workflow



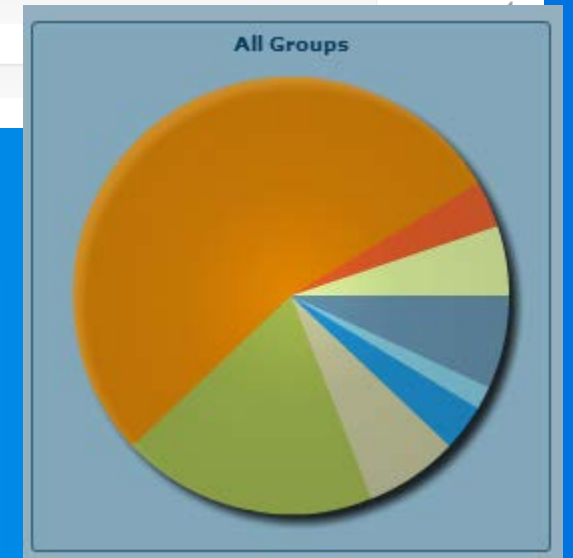
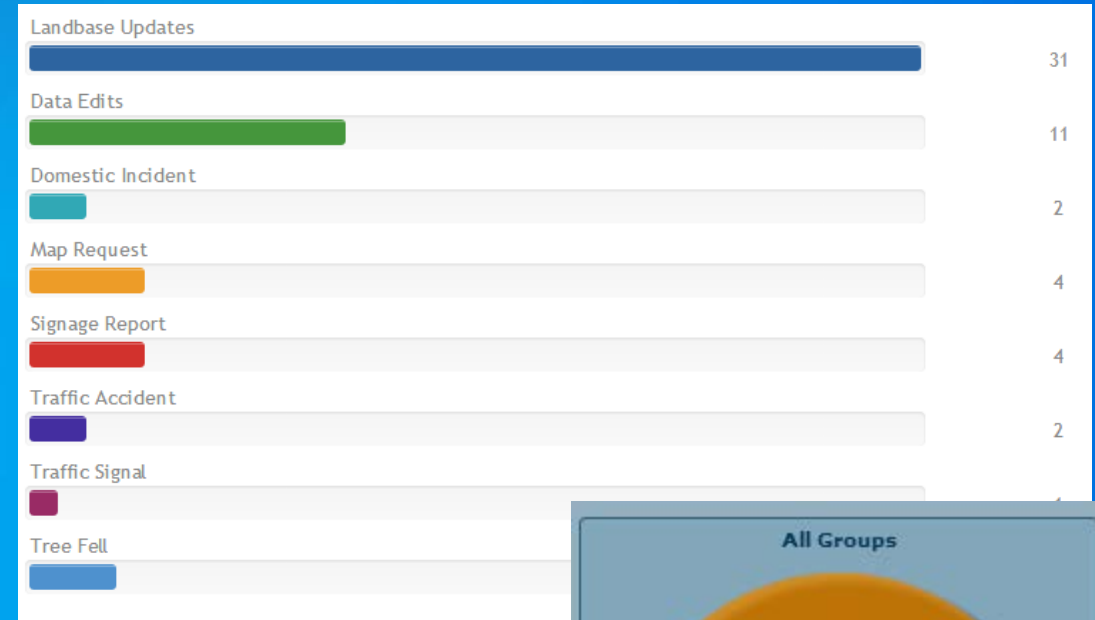
Designing Workflows

Configuring Job Types

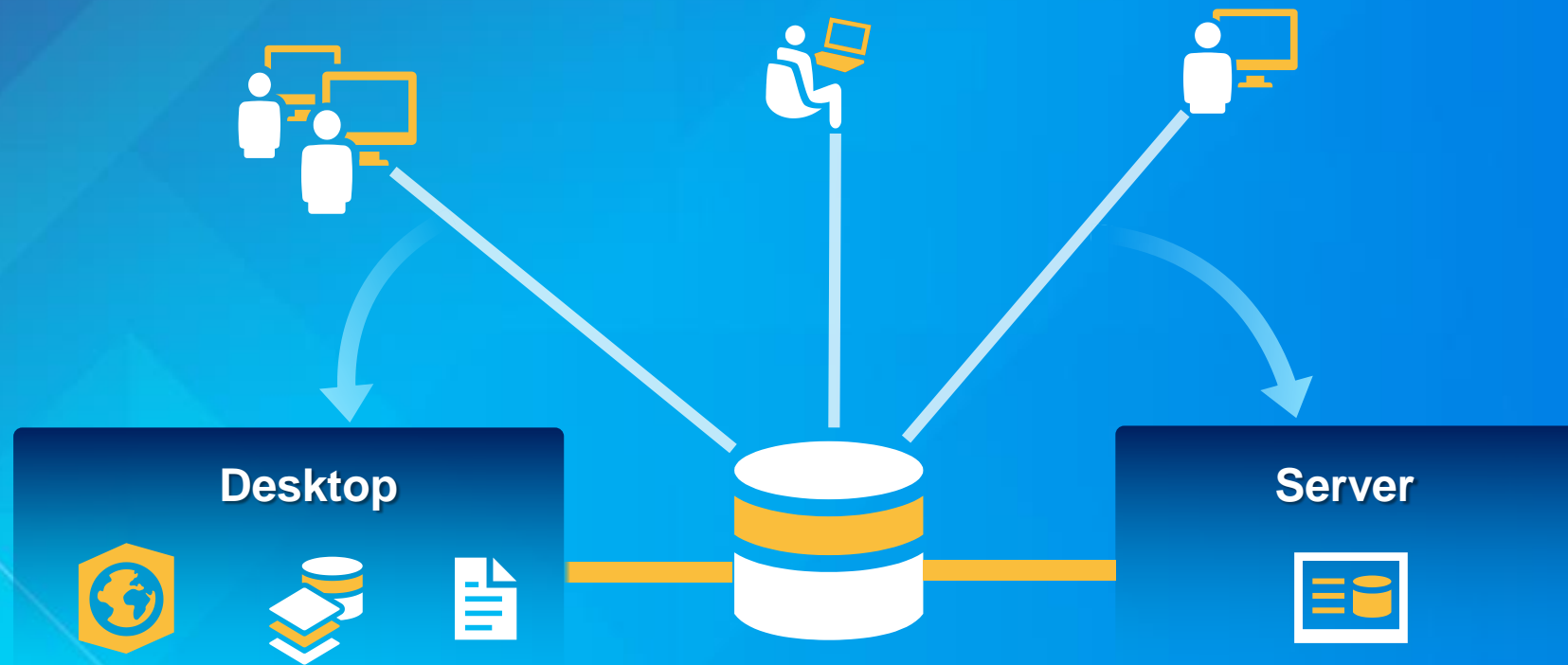


Reporting

- Monitor progress
- Balance schedule, time and cost
- Evaluate past projects
- Dynamic reporting



Sharing Workflow Manager



Demo

Designing Workflows

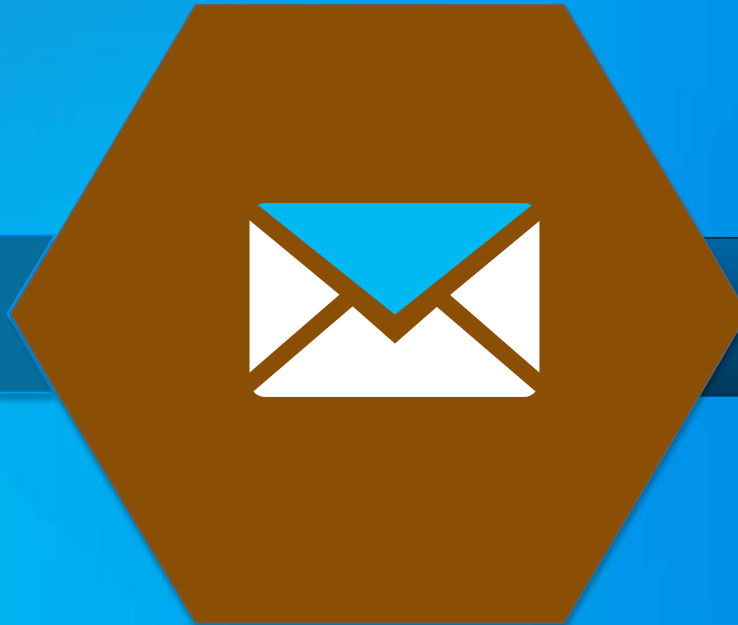


Notify & Relate

Notifications



Spatial



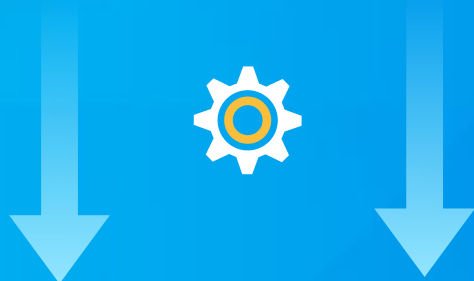
Email Alert



Job

Utilizing Tokens

[EMAILOF([JOB:ASSIGNED_TO])] 



john43484@esri.com

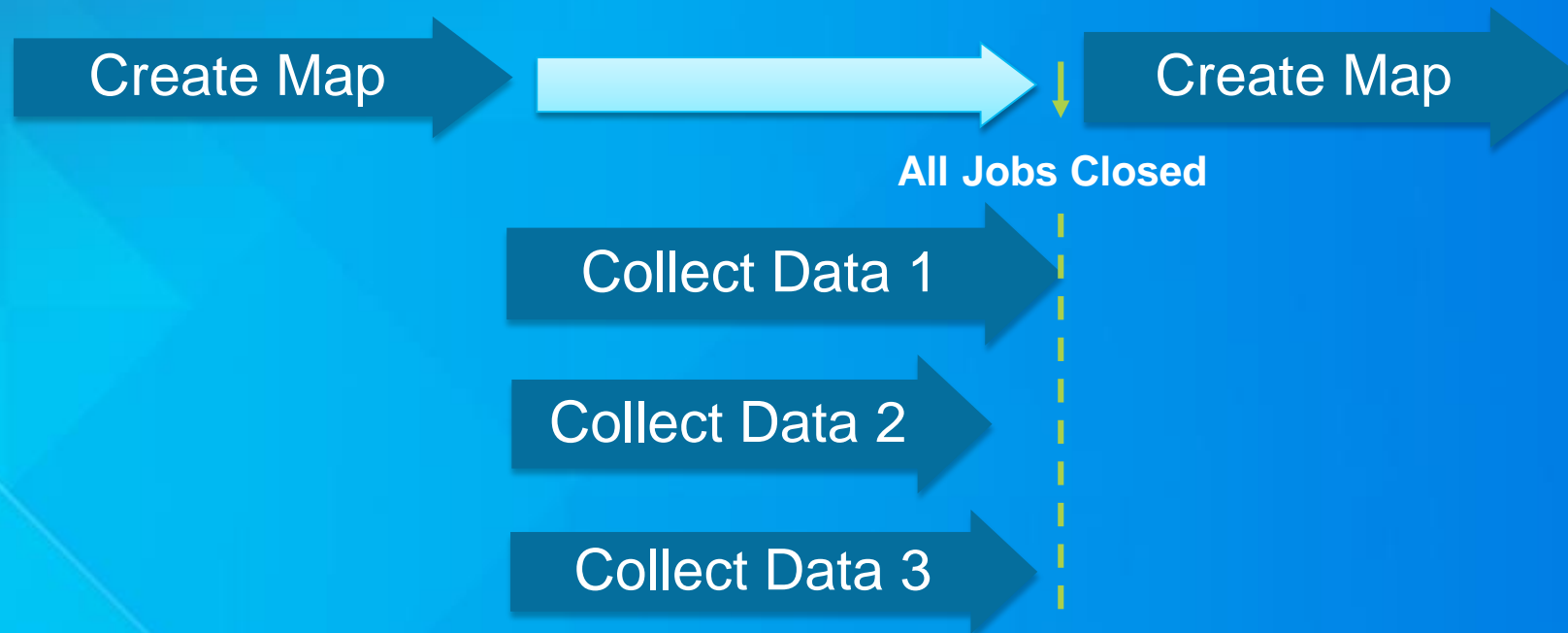
Token Parsers

- **Job Properties**
- **Extended Properties**
- **System Properties**
- **Function**
- **Environment variables**
- **Spatial Notification**

Advanced Workflow Modeling

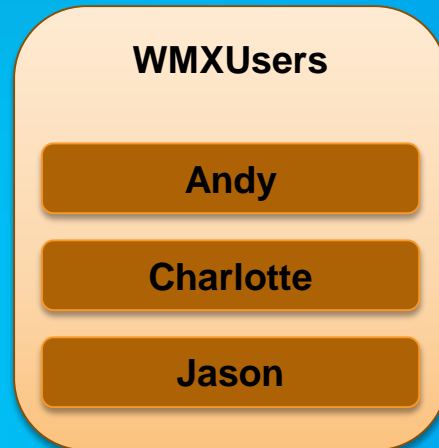
Child Jobs and Dependencies

- Parent/child relationships between jobs
- Dependencies restrict workflow based on state of another job



Integrating User Data

- **Integrate with Active Directory**
 - Import users and groups from Active Directory
 - Can repeat to get up-to-date information



Demo

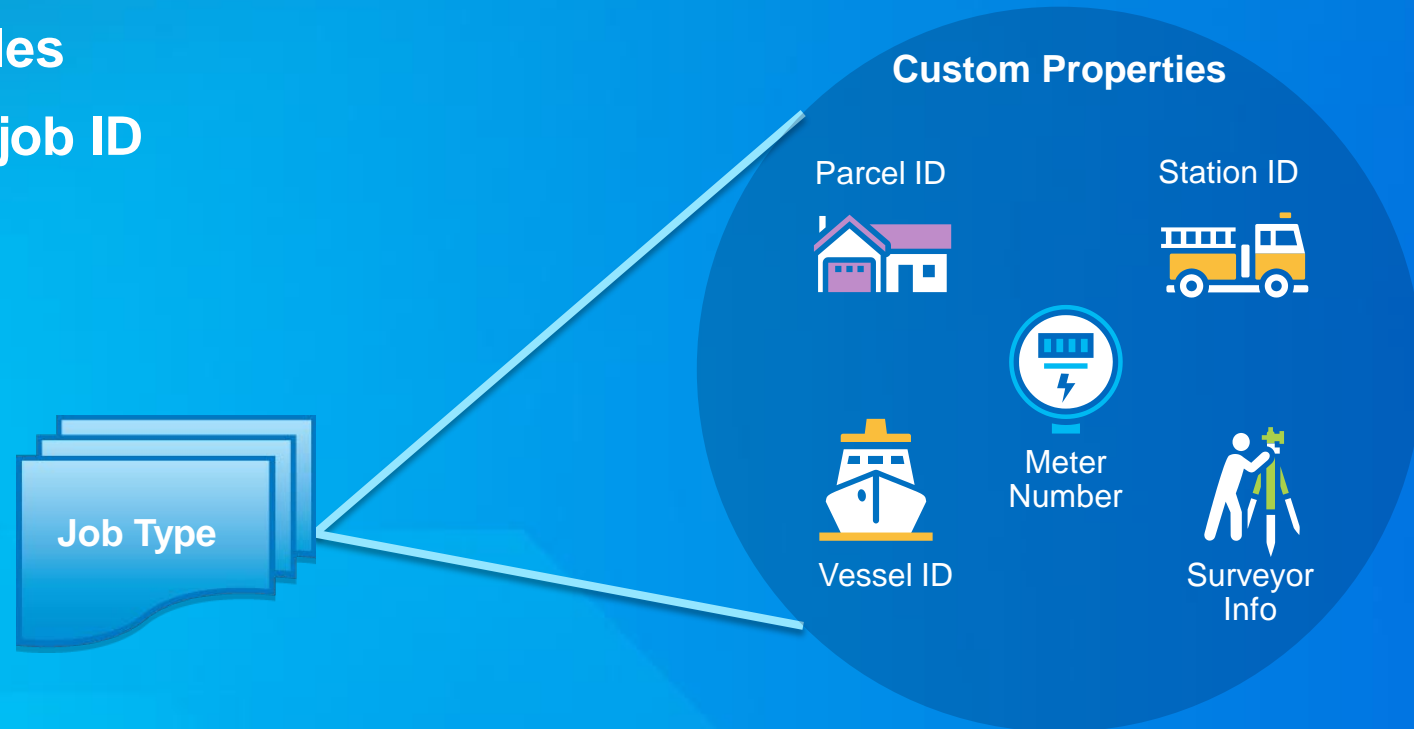
Notification Tokens Job Relationships



Integrate & GeoProcess

Integrating Business Data

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



Integrating Business Data

Configuring Extended Properties

- Create table in Workflow Manager geodatabase
- Add as an extended property table
- Configure Job Type

Extended Property Display Types

Date

Text

GIS
Dataset

Files

Folders

Value
List

Advanced Workflow Modeling

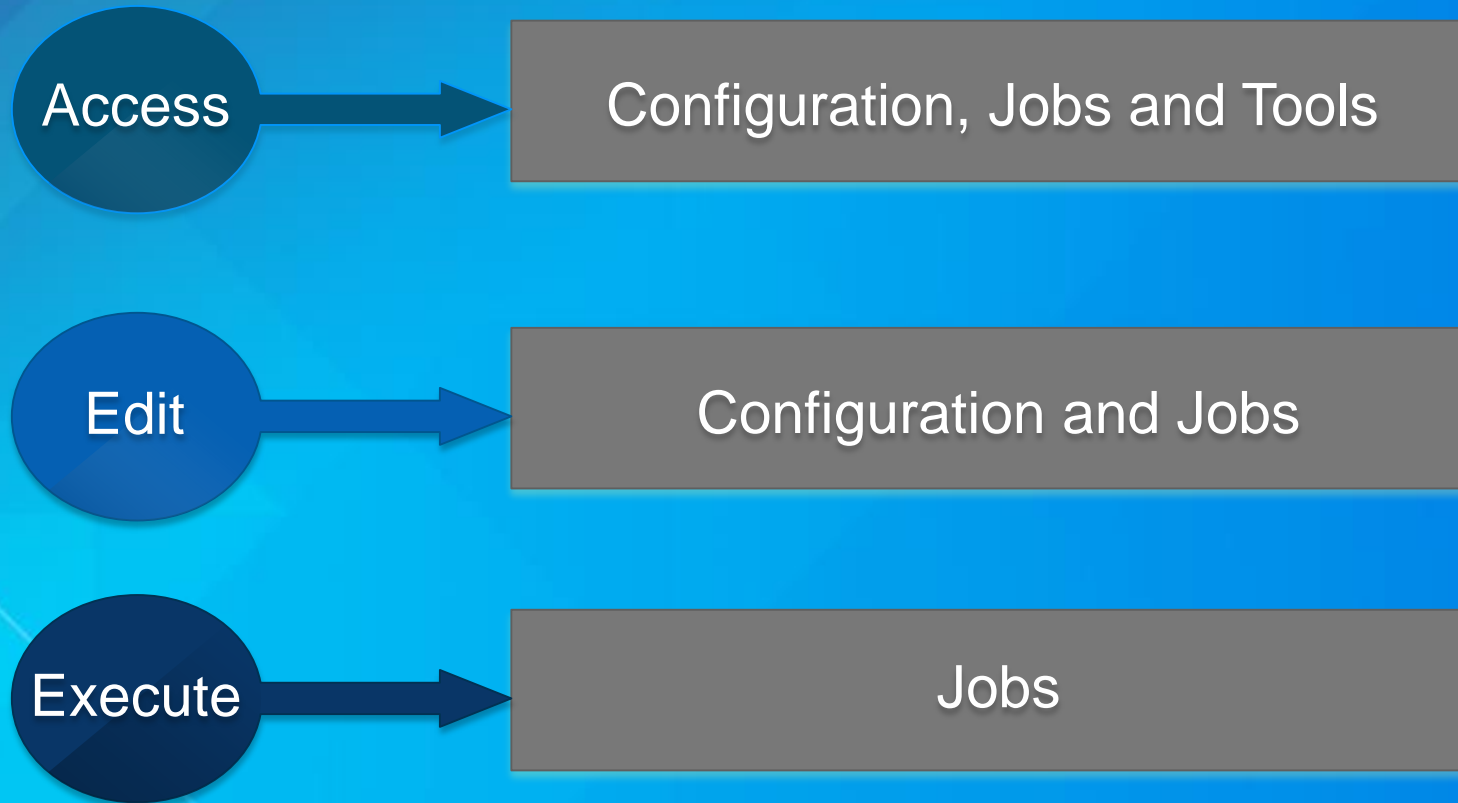
Geoprocessing Steps & Tools

- Provide parameter at runtime
- Use pre-defined parameters
- Output automatically drives workflow
- Invoke geoprocessing services
- Workflow Manager Tools



Advanced Workflow Modeling

Geoprocessing Automation – Python API



Demo

Extended Properties Integrated Geoprocessing

Session Recap

- **Overview**
- **Design and Configure Workflows**
- **Notifications**
- **Advance Job Modeling**
- **Integrating Business Data**
- **Geoprocessing in Workflows**

Resources

- **Product Page**
 - <http://esri.com/workflowmanager>
- **GeoNet Forums**
 - <https://geonet.esri.com/community/gis/solutions/workflow-manager>
- **Training**
 - <http://training.esri.com/>

Sessions and Demonstrations

- **Esri Production Mapping: Automate Map Production With ArcGIS Workflow Manager**
 - **Wednesday, 22 Jul 2015, 3:30pm - 4:15pm**
 - **@Demo Theater 9 - Mapping & Visualization**

- **ArcGIS Workflow Manager: An Introduction**
 - **Thursday, 23 Jul 2015, 1:30pm - 2:45pm**
 - **@ Room 16 B**

Sessions and Demonstrations

@ Demo theater 6 - Geodata Island

- **ArcGIS Workflow Manager: Getting Started Out-of-the-box Templates**
 - **Tuesday, 21 Jul 2015, 3:30pm - 4:15pm**
- **ArcGIS Workflow Manager: Tasks and Enterprise Workflows**
 - **Tuesday, 21 Jul 2015, 4:30pm - 5:15pm**
- **ArcGIS Workflow Manager: Using Custom Properties to Automate Workflows**
 - **Tuesday, 21 Jul 2015, 5:30pm - 6:15pm**
- **ArcGIS Workflow Manager: Integrating Geoprocessing into your Business Processes**
 - **Thursday, 23 Jul 2015, 10:30am - 11:15am**

Thank you...

- **Please fill out the session survey:**

App

Paper – pick up and put in drop box



Understanding our world.