

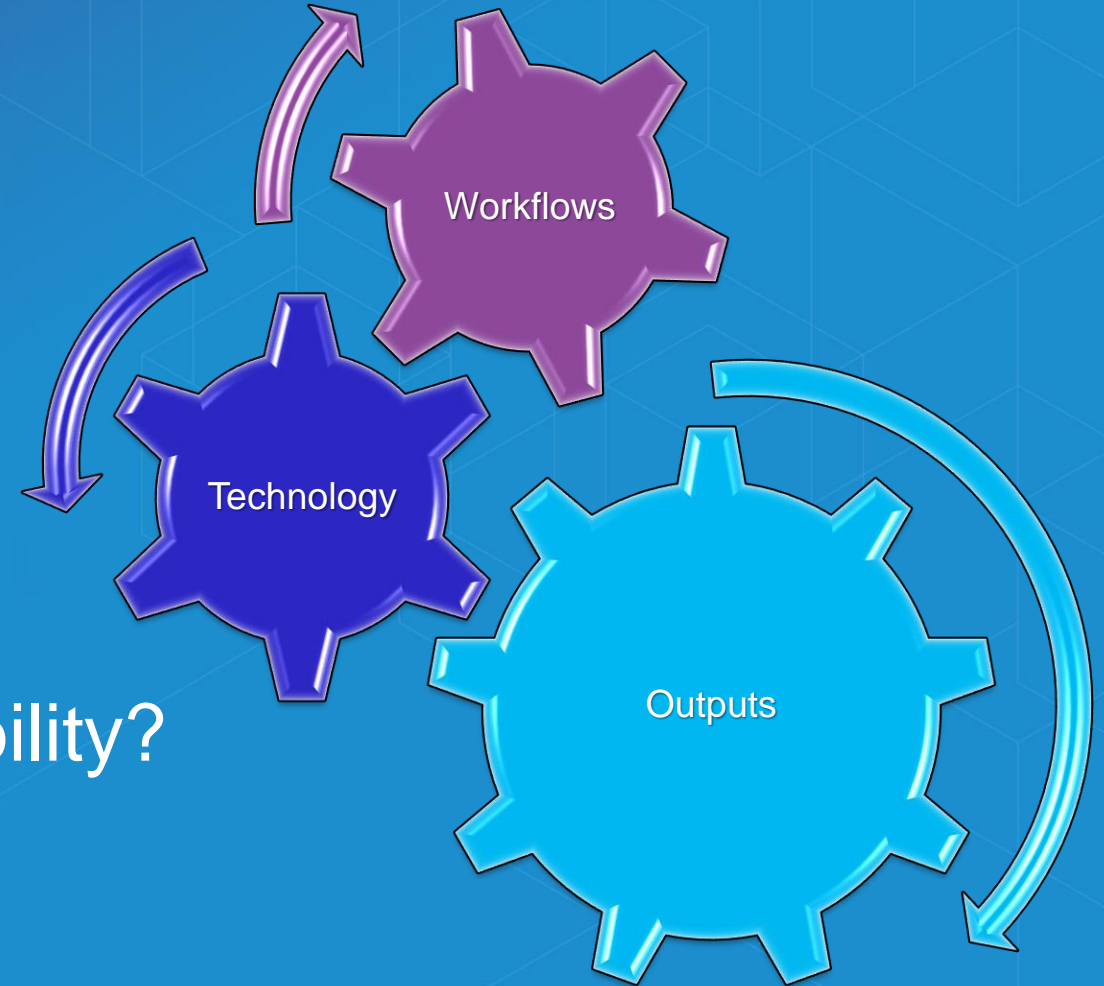
Establish an Initial Operating Capability for Your Organization

Matt Marino

UC

esri

What is Initial Operating Capability?



“The state achieved when a capability is available in its minimum usefully deployable form”

Deployment of Initial Operating Capability

Realization of an Integrated Enterprise System

Foundation Apps
Essential Information Products



Extended / Custom Apps

ArcGIS Online Portal



Integration with Business Systems

Advanced Workflows

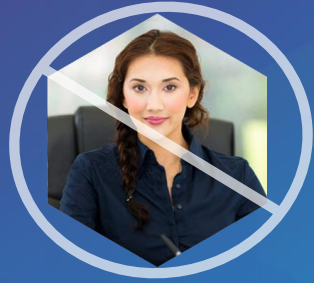
"GIS Ready" Data



Content Production Systems
Data Modernization

Implemented... Not Operating

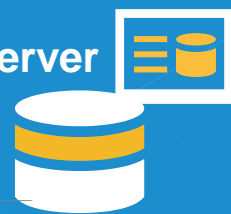
Pieces Don't Make the Whole



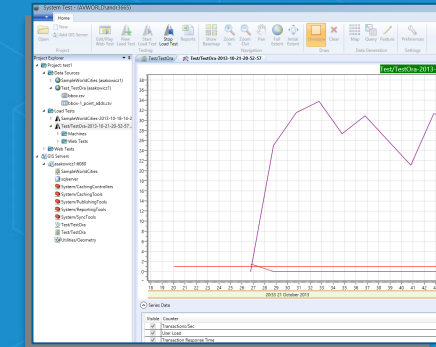
ArcGIS Online Portal



Server



Online Content and Services



$$TH = \frac{\text{Users}}{\text{Response Time} + \text{Think Time}}$$

$$\# \text{ CPU}_t = \frac{ST_b \times TH_t \times 100}{3600 \times \% \text{ CPU}} \times \frac{\text{SpecRatePerCPU}_b}{\text{SpecRatePerCPU}_t}$$



Implementation with Purpose

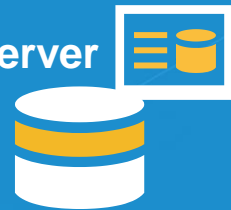
Sum is Greater Than the Parts



ArcGIS Online Portal



Server



Online Content and Services



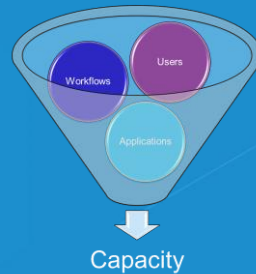
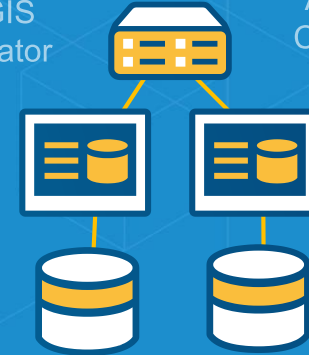
ArcGIS Navigator



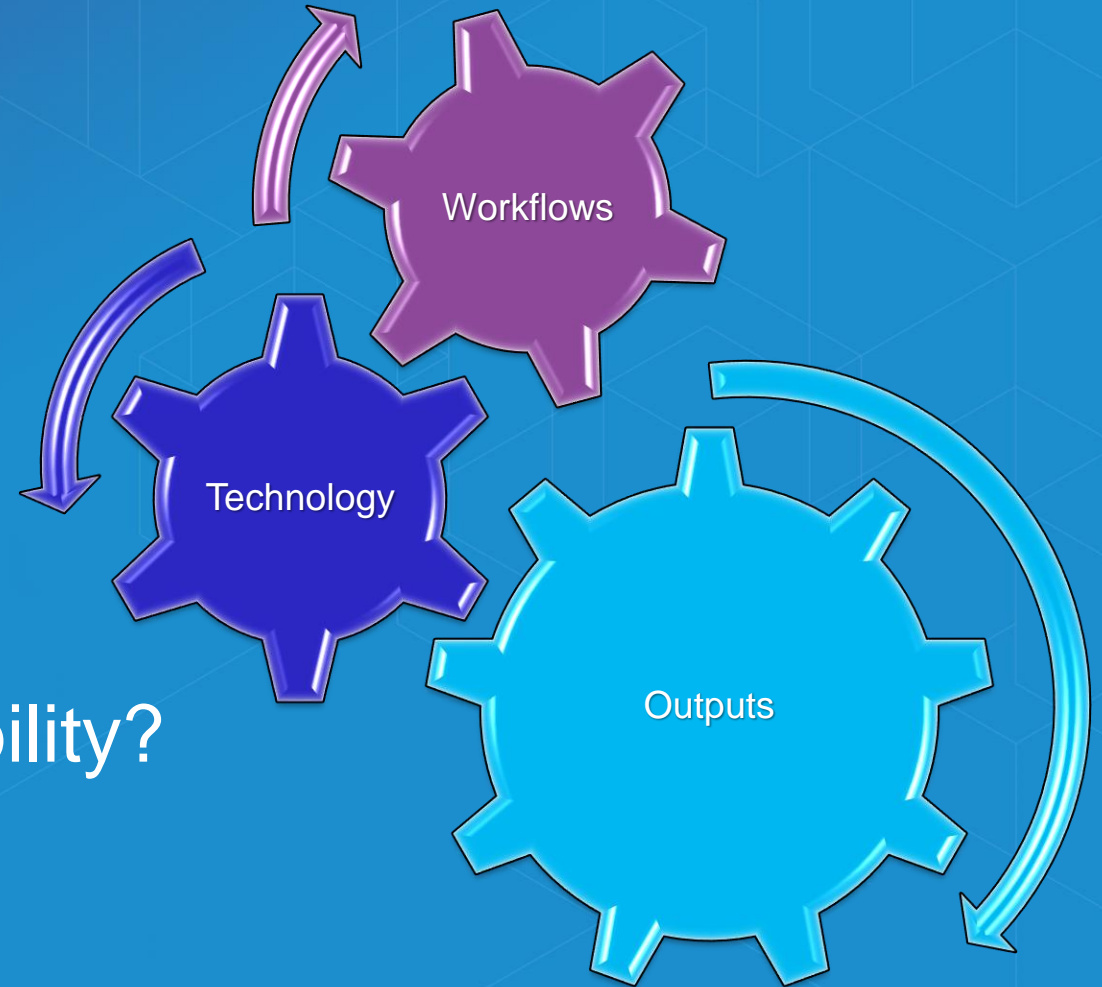
Operations Dashboard



ArcGIS Collector



What is Initial Operating Capability?



“The state achieved when a capability is available in its minimum usefully deployable form”

Initial Operating Capability

Enable & Empower Your Organization

Configuration & Integration

Strategy Planning

Architecture & Security

Geodata Engineering

Training & Certification

Premium Support

Operations

Operations
and
Maintenance

Planning

Strategy & Planning

Deployment

Requirements
Analysis

Implementation

Development

Design

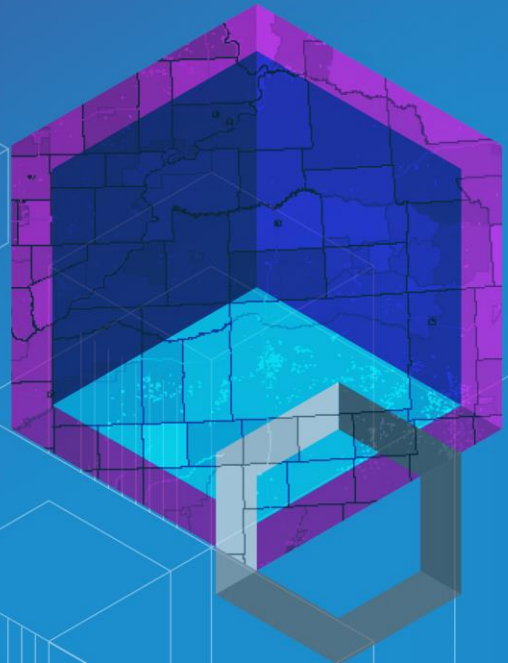
UC Session

Platform Enablement Island

Esri Publication



Strategy & Planning



Organizational Vision

What is the Overarching Goal?

The primary mission of the Department of Building Safety is to safeguard the public, promote the health, safety and welfare of the City.....

.....helps its clients achieve profitable growth with a combination of specialized broking expertise, strategic advisory services.....

Esri Professional Services supports customers and partners in the effective implementation and application of ArcGIS software



Discover the Location Dimension of your Business

Identify the Location Value in Your Business

Strategy & Planning

Launching your Location Platform



Establish Key Users

How is Location Valuable to Them?

Desktop Analyst



What is being collected?

Team Supervisor



Where is my team?

Field Worker



Where is my next task?

How to Collect and Manage Requirement for Successful GIS Projects

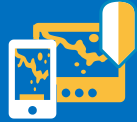
Strategy & Planning

Document Workflows

Start with Patterns of Use

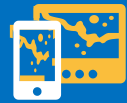


Location Enablement



Discover, use, make, and share maps at work – anywhere, anytime

Constituent Engagement



Facilitate and manage communication with stakeholder

Decision Support



Inform execs and management with maps and location intelligence

Field Mobility



Get authoritative information into and out of the field

Analytics



Describe, predict, and improve business performance

Location Data Management



Collect and organize location data about your assets and resources

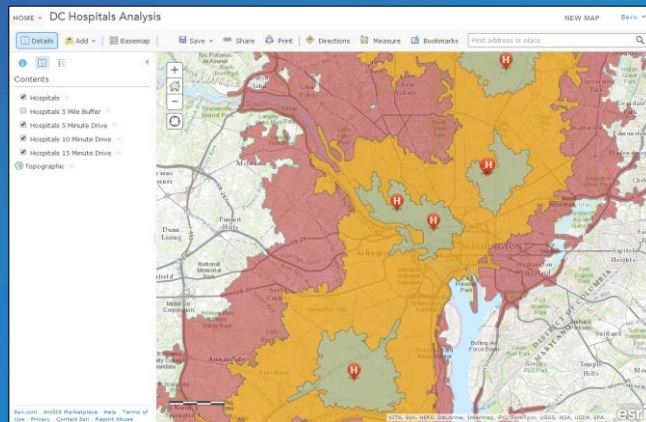
How to Put the User First In Your Web Application

Strategy & Planning

Architecting the ArcGIS Platform: Best Practices

Determine Core Web Maps

Common Maps with Broad Use



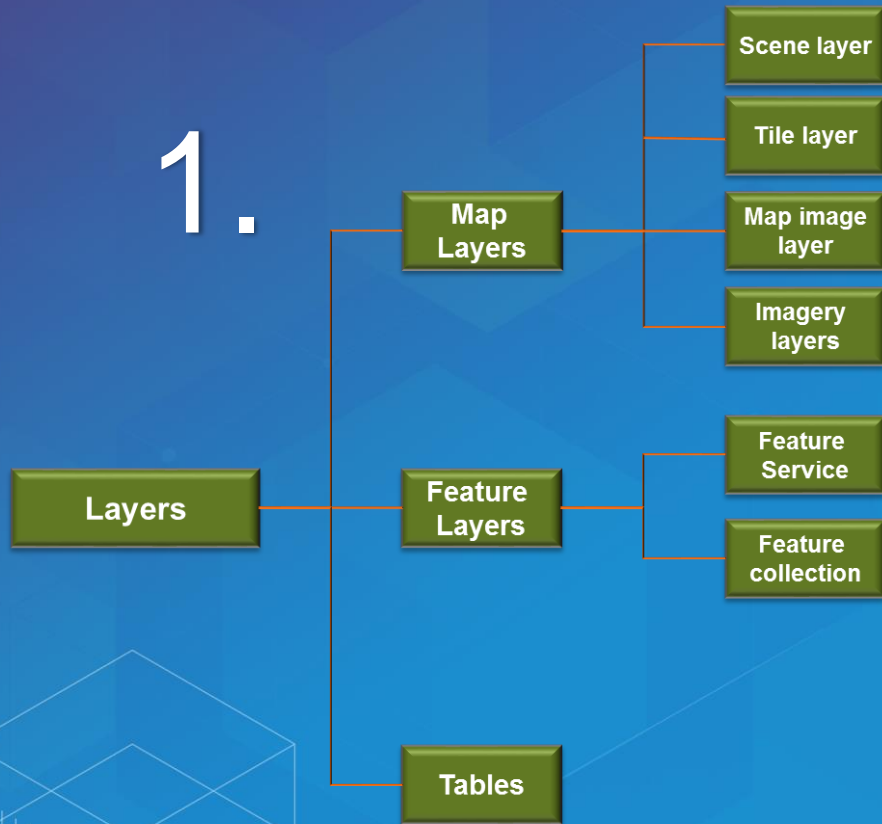
Web GIS: Unlock the Power of Maps Across Your Organization

Maximize Value using ArcGIS Web App Templates

Configuration & Integration

Geodatabase Design

Minimum Data Required to Meet Users Needs



2.

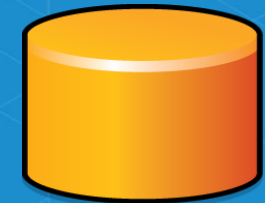
ArcGIS Online



Files



ArcGIS Data Store



Enterprise Geodatabase

Planning an Enterprise Geodatabase

Geodata Engineering

Capacity Planning

Sizing Based on Workflows & Usage

Assemble Requirements

Apply Methodology

Determine Needs

$$\text{Mbps} = \frac{\text{TH} \times \text{Mbits / req}}{3600}$$

$$\text{TH} = \frac{\text{Concurrent users} \times \text{Workflows} \times \text{GIS Services} \times \text{Users}}{\text{Response Time} + \text{Think Time}}$$

throughput

response time
Network capacity

$$\# \text{ CPU}_t = \frac{\text{ST}_b \times \text{TH}_t \times 100}{3600 \times \% \text{CPU}} \times \frac{\text{SpecRatePerCPU}_b}{\text{SpecRatePerCPU}_t}$$

software distribution
Core SpecRate
CPUs

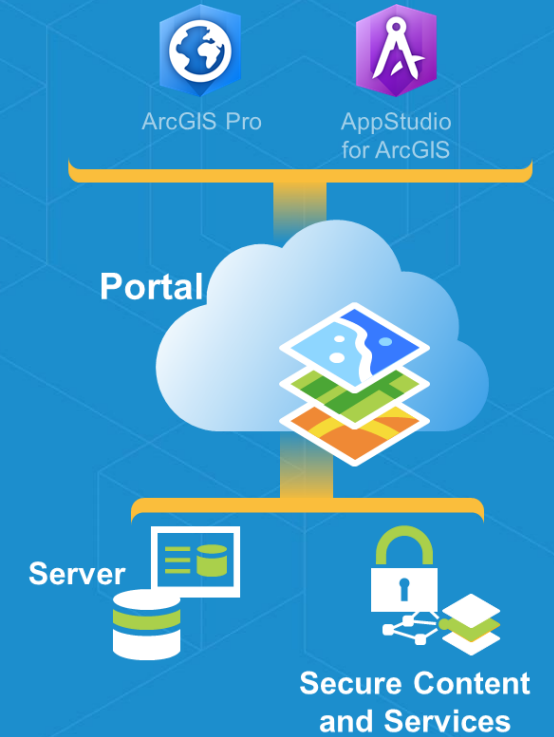
Web GIS Architecture Deployment Options

Architecture & Security



Platform Architecture

Minimum Technology – Minimum Size

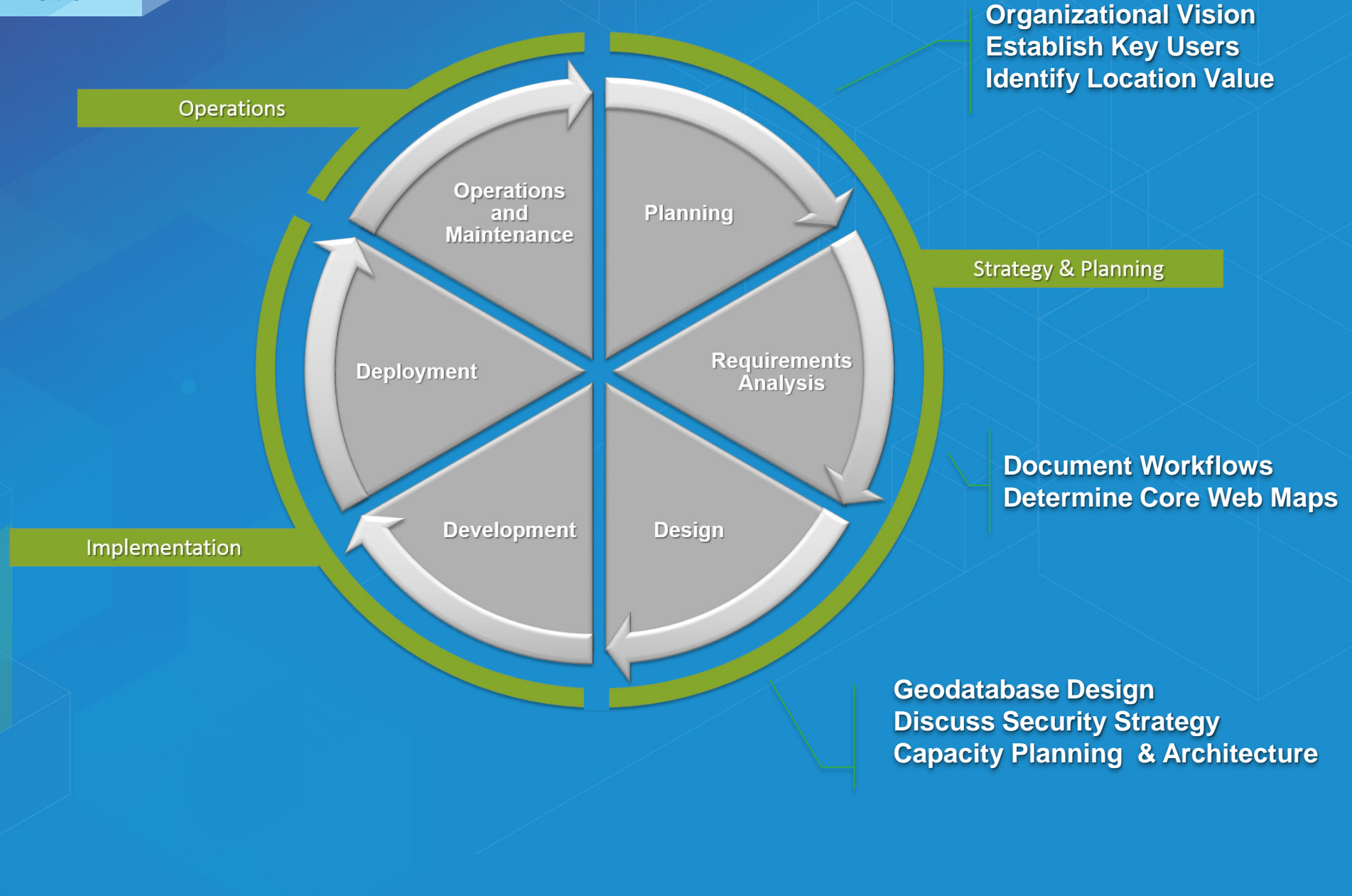


Architecture Best Practices

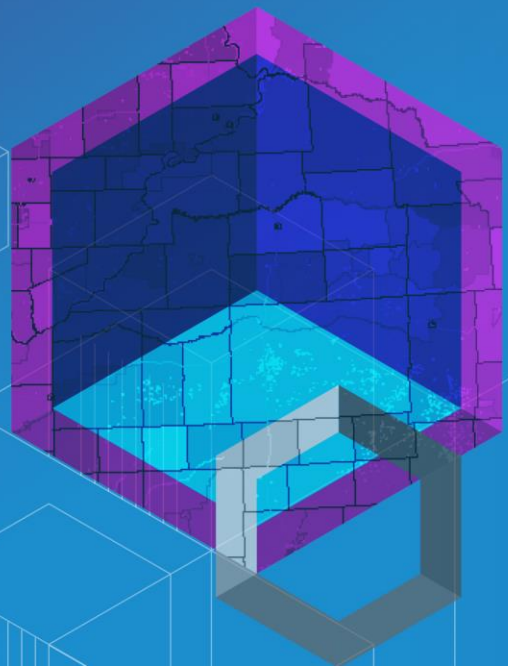
Architecture & Security

Initial Operating Capability

Enable & Empower Your Organization

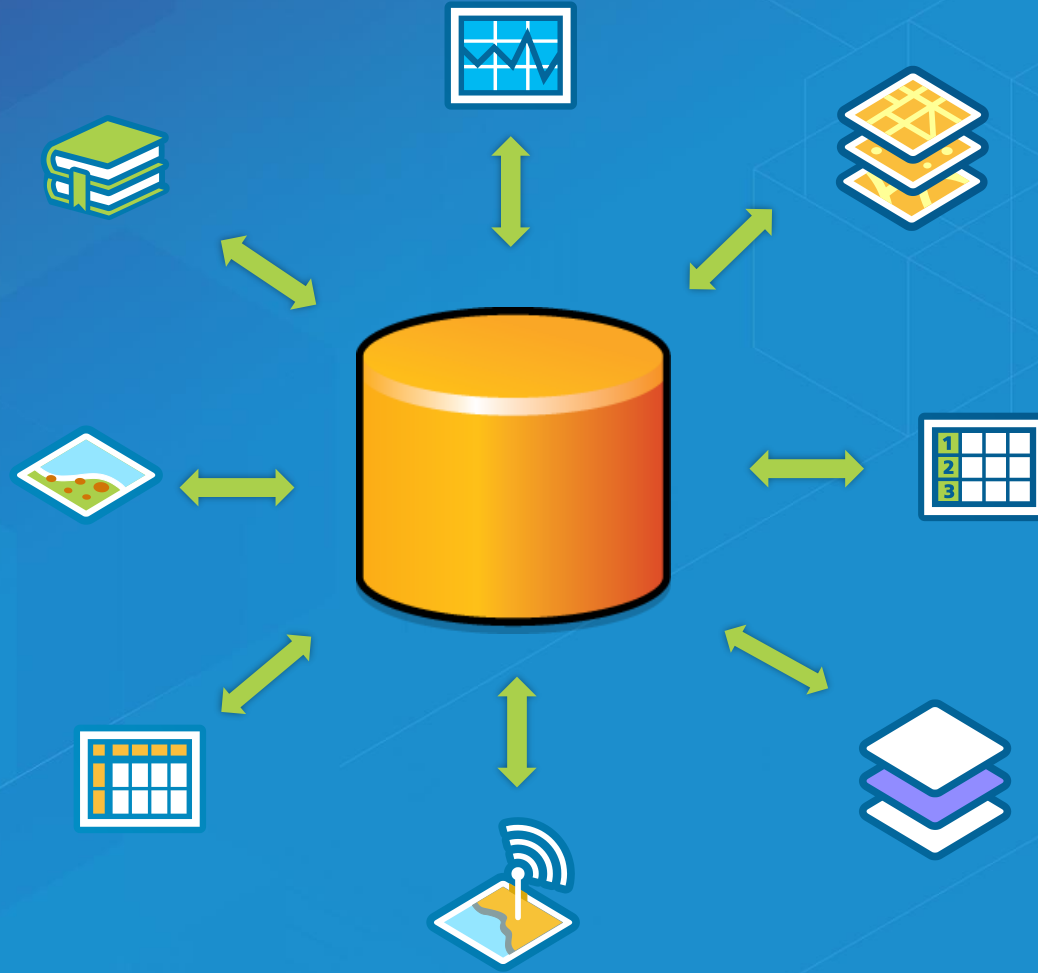


Implementation



Building Data

Central & Authoritative Content



Design a Geodatabase

Geodata Engineering

Application Prototyping

Path of Least Resistance

Web App Template

Foundational App

Web App Builder

Solution Template

Custom App

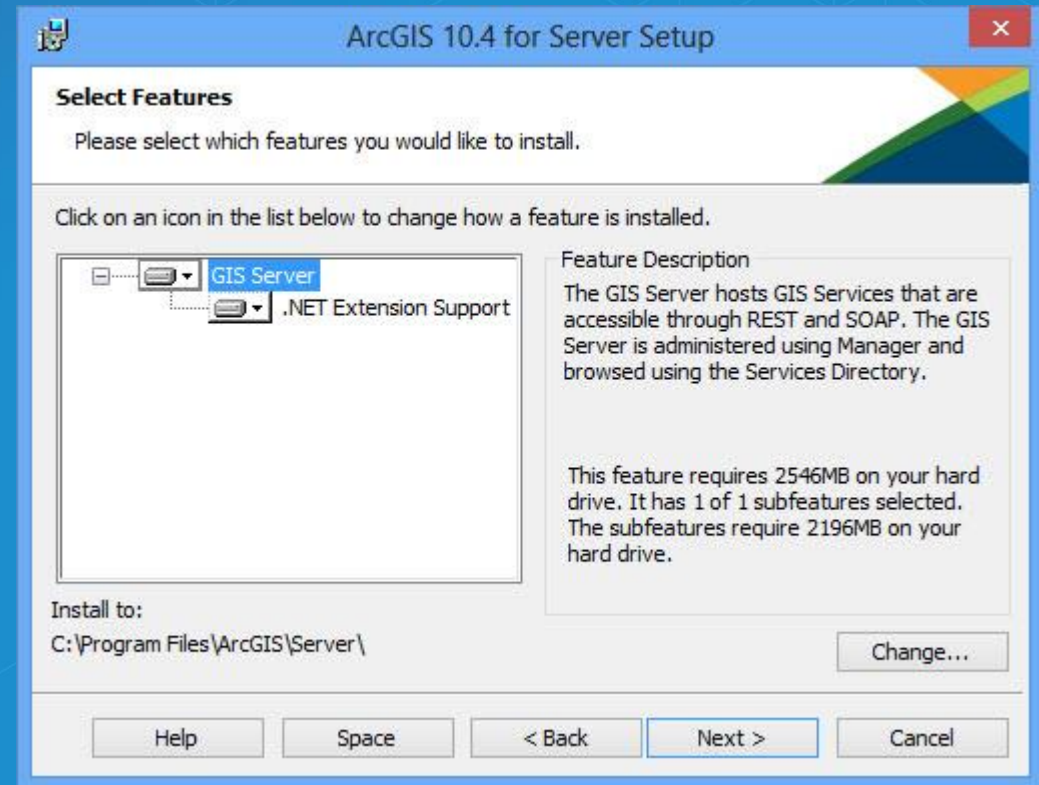
App Configuration, Customization or Development

Configuration & Integration

Software Installation

Distribute Content to Users

- Prepare Environment
- Run ArcGIS Server Installation
- Create or Join Site
- Install Web Adaptor
- Connect in ArcGIS for Desktop
- Grant Permissions to Data
- Publish Services



ArcGIS for Server: An Introduction

Portal for ArcGIS: An Introduction

Configuration & Integration

Architecting the ArcGIS Platform: Best Practices

Configure Organizational Site

Your User's First Impression

- Use your organizational brand
- Use consistent visual cues
- Intuitive naming conventions
- Add useful descriptions
- Pre-populate with content
- Create a resource destination



Configure and manage an ArcGIS Online Organization

Configuration & Integration

Getting to know Web GIS

Rollout

Get People Working!

- ✓ Location Strategy
- ✓ Detailed Plan

- ✓ Technology Implemented
- ✓ Information Products Ready

- Users Empowered
- Next Big Idea



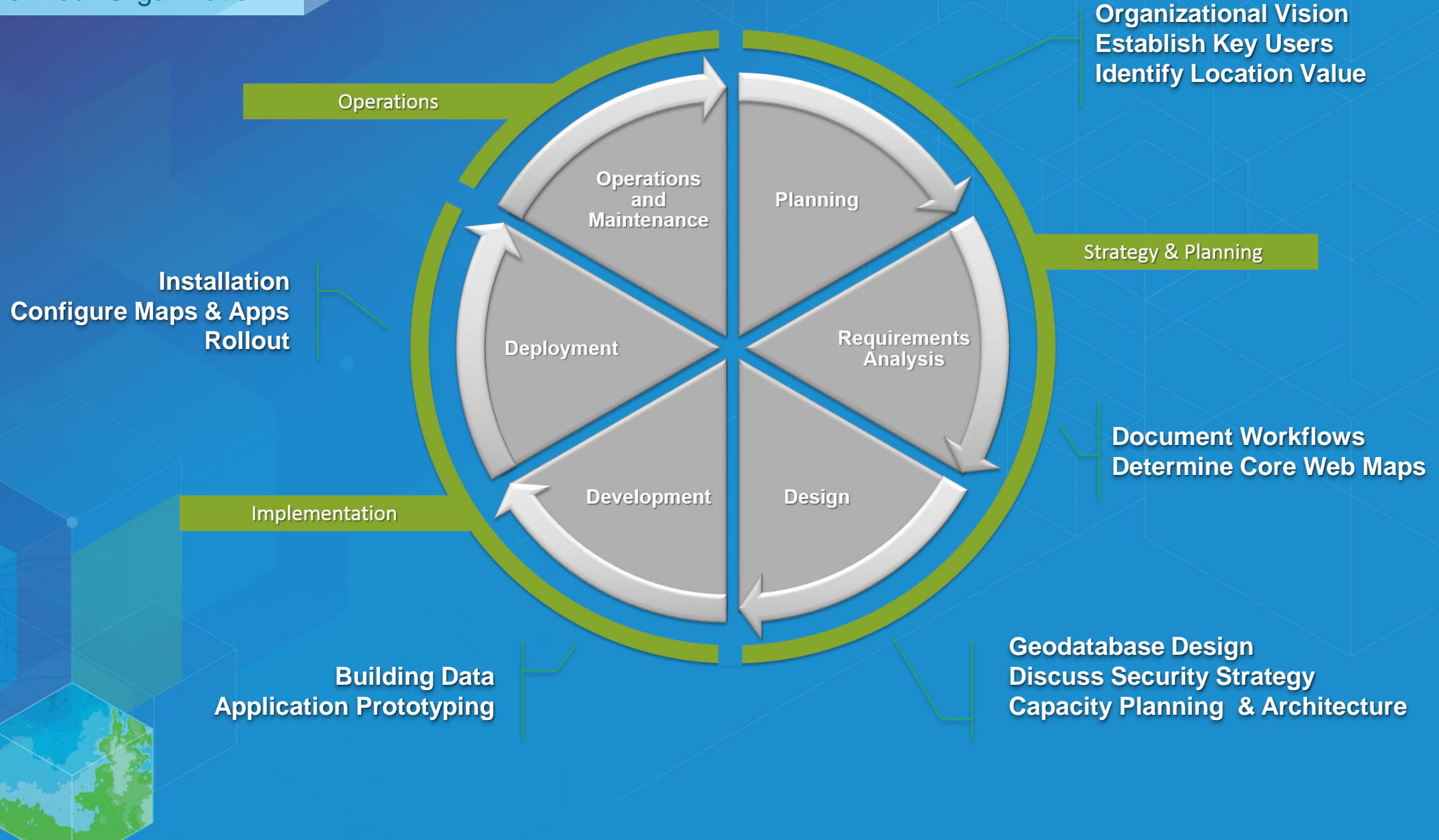
Best Practices for Technology Change Management

Strategy & Planning

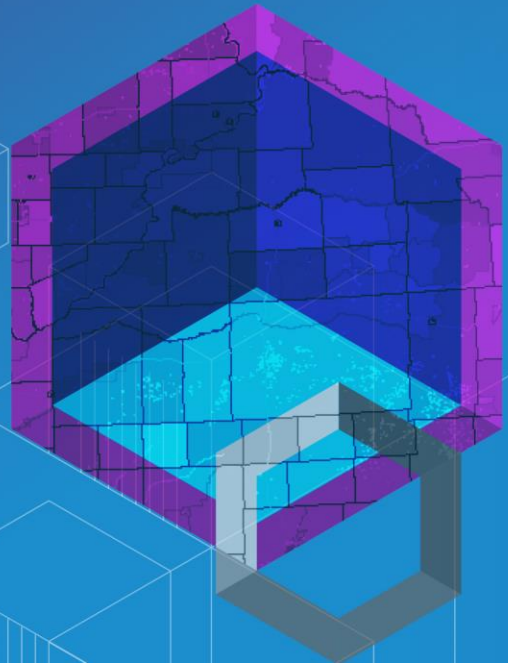
Launching Your Location Platform

Initial Operating Capability

Enable & Empower Your Organization



Operations



Maintenance

All Facets of Your Implementation



Troubleshooting Performance Issues with Enterprise Geodatabases

Administering Your GIS Server

Portal for ArcGIS: Administration

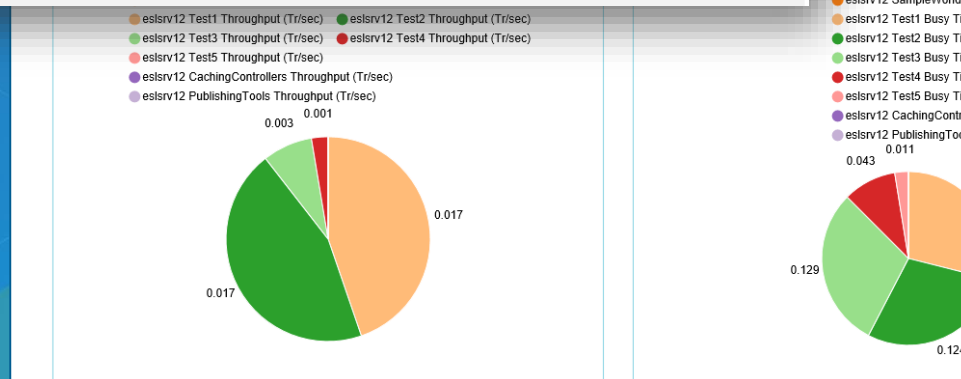
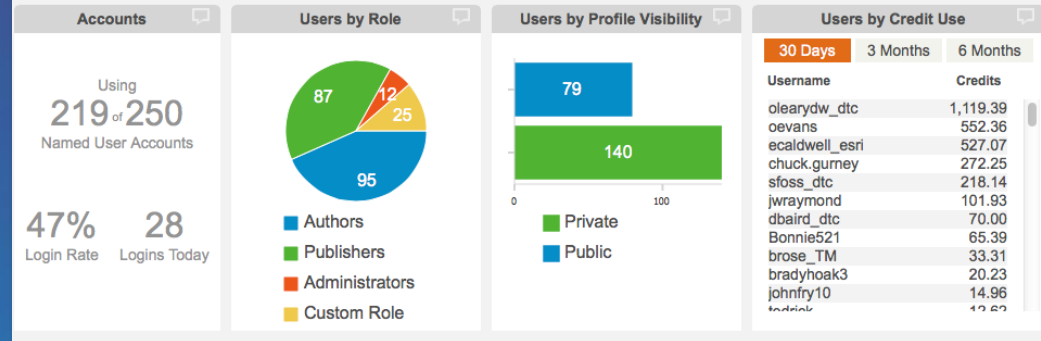
Configuration & Integration

Geodata Engineering

Monitoring

Proactively Review Your Status

Portal Users



System Test - (AVWORLD\andr3665)

Project Explorer

- Project: test1
 - Data Sources
 - SampleWorldCities (asakowicz1)
 - Test_TestOra (asakowicz1)
 - bbbox.csv
 - bbbox-1_point_adds.csv
 - Load Tests
 - SampleWorldCities-2013-10-18-14-2
 - Test_TestOra-2013-10-21-20-52-57
 - Machines
 - Web Tests
 - Web Tests
 - GIS Servers
 - SampleWorldCities
 - sqlserver
 - System/CachingControllers
 - System/CachingTools
 - System/PublishingTools
 - System/ReportingTools
 - System/SyncTools
 - Test/TestOra
 - Utilities/Geometry

Test/TestOra-2013-10-21-20-52-57

Line graph showing performance metrics over time (37-43).

Type	Name	Uptime	Performance	HighUtilization	LowUtilization	Alerts	Errors
url	Performance Peak Hr	■	■				■
arcgis	Site	■					■
arcgis	Cluster						
arcgis	Instances	■			●		
arcgis	Transactions			■			
arcgis	Transactions Peak Hour			■			
arcgis	Performance		■				
arcgis	Performance Peak Hour						
system	CPU	■		▲	●		■
system	CPU Peak Hr			▲	●		■
system	Memory Physical	■		▲			
system	Memory Physical Peak Hr			▲			
system	Memory Virtual	■		■	●		
system	Memory Virtual Peak Hr			■			
system	Disk IO	■		■			
system	Disk IO Peak Hr			■	●		
system	Disk Space	■		■	●		

Get a Second Opinion: Enterprise GIS Health Checks

Architecture & Security

Training

Evolve Your People with Your Technology



Skill

Time

Training

The Power of Workforce Development: A People Strategy for Organizations

Modernize Your GIS: A People Strategy Approach

Training & Certification

Reconnect With Users

Have Needs Changed?

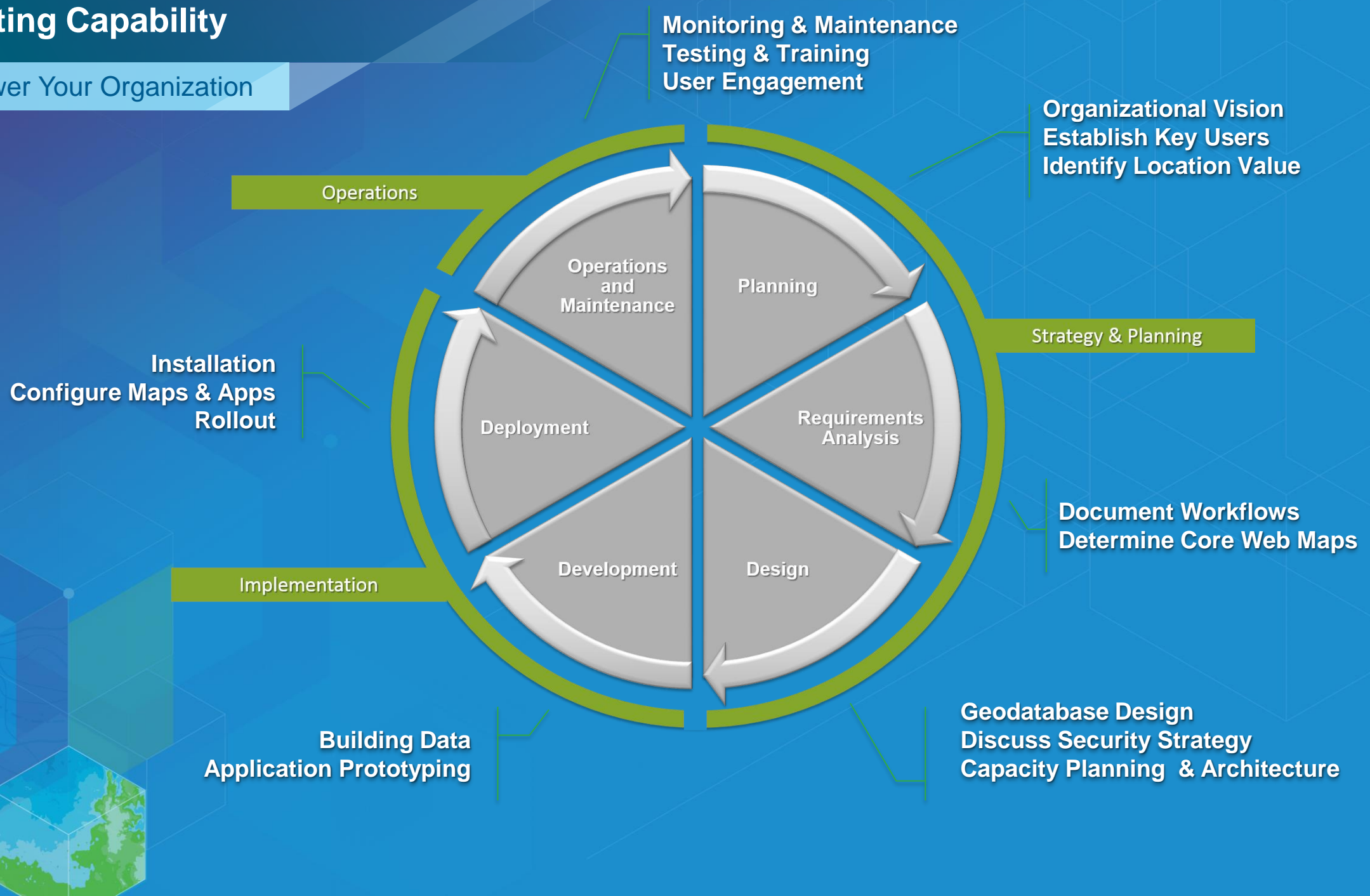


How to Collect and Manage Requirement for Successful GIS Projects

Strategy & Planning

Initial Operating Capability

Enable & Empower Your Organization



What Now?

Platform Enablement Pavilion

Configuration & Integration

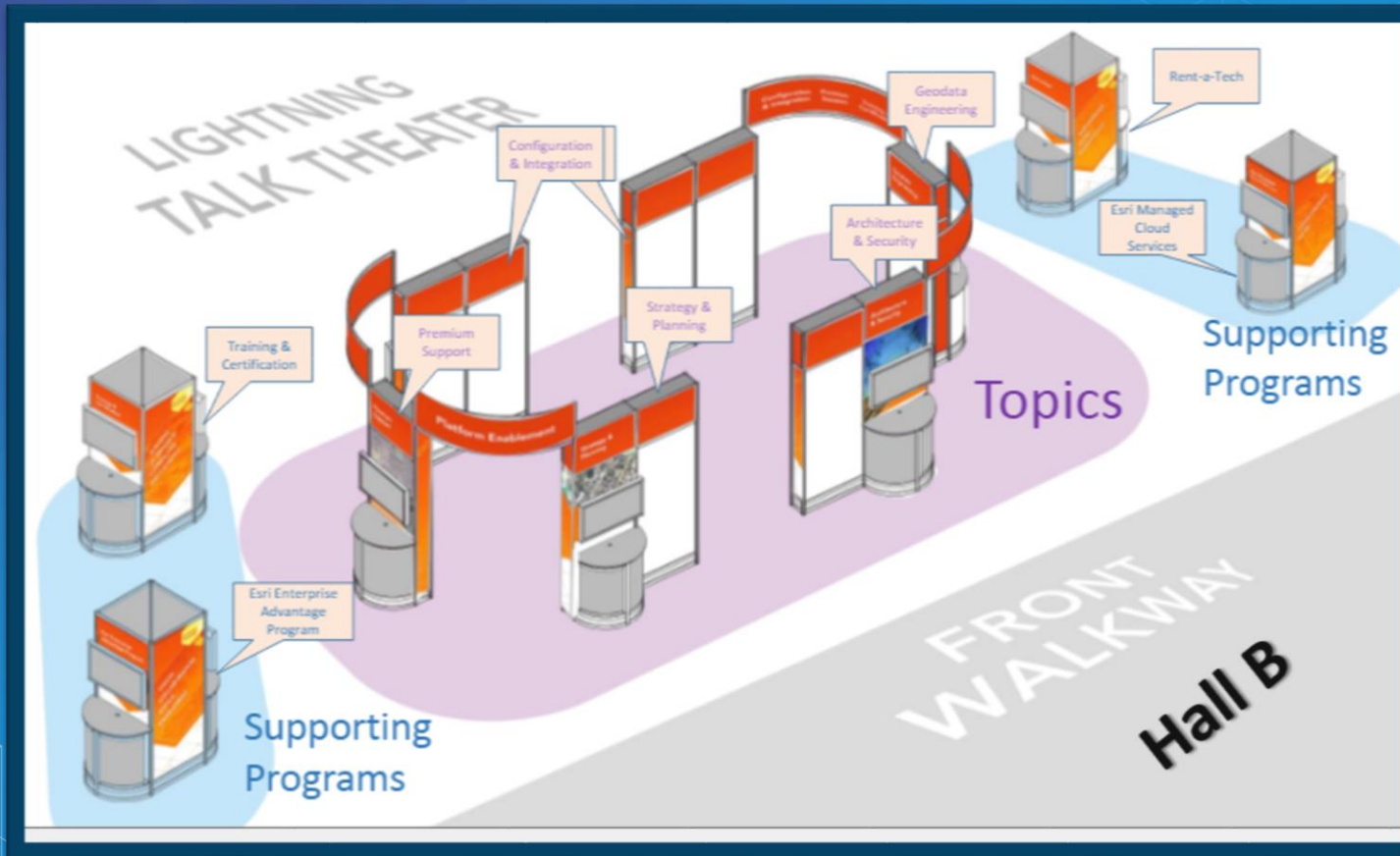
Strategy Planning

Architecture & Security

Geodata Engineering

Training & Certification

Premium Support

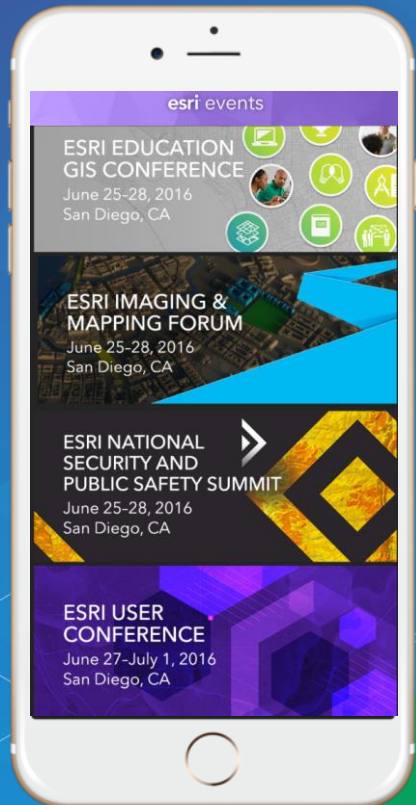


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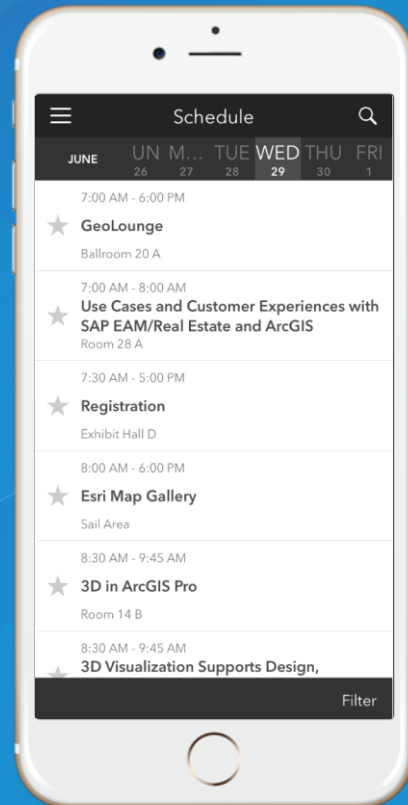
Please take our Survey

Your feedback allows us to help maintain high standards and to help presenters

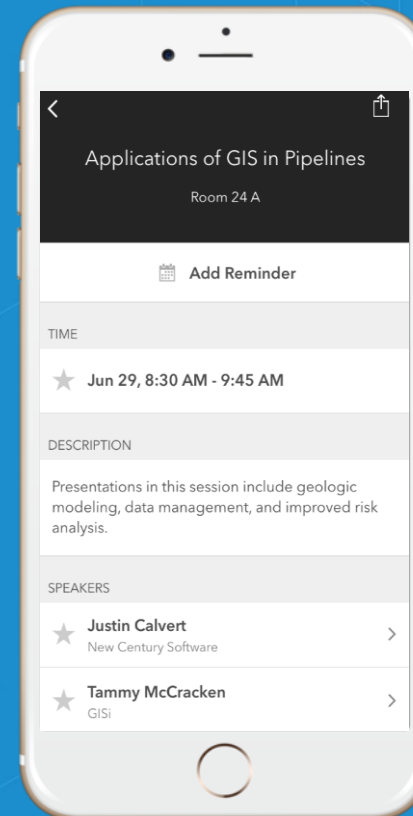
Find your event in the Esri Events App



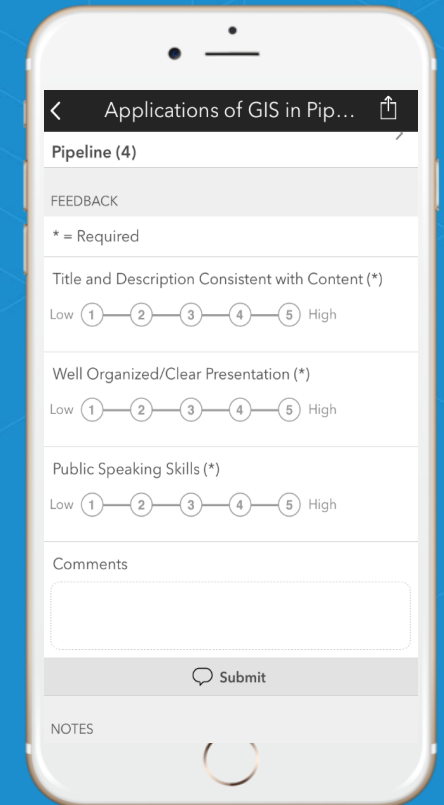
Find the session you want to review



Scroll down to the bottom of the session



Answer survey questions and submit



Questions

