Successful ArcGIS Enterprise Implementation and the Cloud

Alec Walker
Networking Reception

Smithsonian National Air and Space Museum

Today, 6:30 p.m. – 9:30 p.m.
Bus pickup on L Street starting at 6:20
Introductions

Why are you here today?
Agenda

- Why cloud and why Managed Cloud Services?
- What are the components of success?
  - Good plan
  - Right environment

- How does Esri help you select the right environment?
- Are you ready to start?
The Benefits of the Cloud

- Cost savings
- Flexibility and scalability
- Increased security
- Shorten time to value
- Shared accountability
- Try before you buy
- Access to innovation
- Innovation
ArcGIS Enterprise Deployment Options

- On-premises
- Public Cloud
- SaaS

Hybrid

Esri Managed Cloud Services –or-- ArcGIS Online

Customer Managed
ArcGIS in the Cloud
Options

Source: trust.arcgis.com
Why Esri Managed Cloud Services?
Common Business Drivers

Outsource Operations
- Don’t have the skills?
- Want to focus your resources elsewhere?
- Does your technology strategy dictate a “cloud first” roadmap?

Evaluate Capabilities
- Want to evaluate either the capabilities of the cloud technology or software?
In case you missed them…
Additional Workshops at Fed GIS Conference

- Deploying and Using ArcGIS Enterprise in the Cloud
- The ArcGIS Platform – Security Practices & Policy
- Architecture Best Practices
- Extend Your GIS Capabilities in the Azure Cloud
Questions?
Components of Success
Good plan and right environment
Data Center Consolidation Initiative

Reducing costs and improving GIS operations

Navigating the journey to the cloud

3 month proof of concept

Evaluating ArcGIS for Desktop in the cloud

Washington
Oregon
California
Nevada
Utah
Arizona
Colorado
New Mexico
South Dakota
Wyoming
Montana
Idaho
Lake Abert
Watchable Wildlife Area
Migrating Imagery to the Cloud

Measured implementation of cloud migration

Experience to gain confidence

Cost savings

“Try before you buy”
## Essential Patterns of a Location Strategy

<table>
<thead>
<tr>
<th>Pattern</th>
<th>Description</th>
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<tbody>
<tr>
<td><strong>Location Enablement</strong></td>
<td>Discover, use, make, and share maps at work — anywhere, anytime</td>
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<tr>
<td><strong>Community Engagement</strong></td>
<td>Facilitate and manage communication with stakeholders</td>
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<tr>
<td><strong>Decision Support</strong></td>
<td>Inform execs and management with maps and location intelligence</td>
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<td><strong>Field Mobility</strong></td>
<td>Get authoritative information into and out of the field</td>
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<td><strong>Analytics</strong></td>
<td>Describe, predict, and improve business performance</td>
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<tr>
<td><strong>Location Data Management</strong></td>
<td>Collect and organize location data about your assets and resources</td>
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**System of Engagement (Demand)**

**System of Record (Supply)**
Location Strategy Patterns - What our customers are trying to solve

Location Enablement
- Enterprise Access Control
- External Access Control

Constituent Engagement
- Crowdsourcing App
- Map Narrative, Presentation
- Structured Feedback

Decision Support
- Operational Awareness
- Collaboration
- Map Narrative, Presentation
- Structured Data Capture (Online)
- Work Management (Schedule, Dispatch)
- Ad Hoc Analysis
- Stand-alone app (Online/Offline)

Field Mobility
- Work Management (Tasks)
- Mobile Collection (Online/Offline)
- Navigation

Analytics
- Spatial Analysis (Desktop, Ad Hoc)
- Statistics integration
- Pattern Exploration
- Structured Spatial Analysis
- Big Data Analytics
- Scientific Analysis
- Real-Time Analytics

Location Data Management
- Data Administration (Desktop)
- Enterprise Data Management
- Unstructured, Big Data
- Enterprise Shared GIS web services
- Imagery & terrain (1-n dimension)
- Small mission, Agile content
- Real-Time content

Solution Development
- Configurable Platform Tech
- Web App Builder
- App Studio for ArcGIS
- App Templates
- API’s, SDK’s
- ArcPy
<table>
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<th>Location Strategy Patterns Worksheet (Esri Tech)</th>
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<th>ArcPy</th>
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Initial adoption driven primarily by engagement patterns

System of engagement deployments are typically low risk, high reward

- Engagement – 80%
- Record – 5%
- Insight – 15%

We expect this to change as organizations become more comfortable operating GIS in the cloud
Esri can help determine which environment is right for you
Questions?
Outage Viewer supports variable usage

Get critical information to the public

Highly available, scalable systems

Supports day-to-day usage and major events

Frequent, automated data updates
Hurricane Sandy

Elastic scalability for public engagement during emergency

2/10/2014 -11:30 am

Peak Sandy Hours

14 additional servers (17 total)

Central Maine Power - 34 million hits over 3 days

New York State Electric & Gas – 76 million hits over 3 days
Hurricane Sandy

Maine – October 31
Supporting Small Business Development

Simple-to-use application for siting new businesses

Business Development Tool – Small Business Edition

Link Census economic and demographic data

Census public data API and TIGERWeb API

Integrating disparate datasets
California Governor's Office of Emergency Services

A real-time example
Freedom to focus on mission

Attention on what matters, not system administration

Scalable systems

Supports day-to-day usage and major events

Ability to plug into other agencies
Esri Managed Cloud Services
Can Help You Succeed in the Cloud
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”
# Print Your Certificate of Attendance

Print stations located in the 140 Concourse

## Monday

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<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>12:30 PM – 6:30 PM</td>
<td>GIS Solutions Expo, Hall B</td>
<td></td>
</tr>
<tr>
<td>5:15 PM – 6:30 PM</td>
<td>Expo Social, Hall B</td>
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</tbody>
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## Tuesday

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<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>10:45 AM – 5:15 PM</td>
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