Portal-to-Portal Collaboration

with

ArcGIS Enterprise

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Motivational factors ….

• Why?
  - We live in a connected world
  - Data-driven decision making is becoming the norm
  - Need to democratize the data
  - Improve the efficiencies of operating a data ecosystem

Challenges…
  - Organizations are too often distributed and not centralized
  - Departments are silo’d
  - Agencies are autonomous
  - Secured data vs. Open data, data governance, policy
How is the ArcGIS platform delivered?

Building trust and collaborating across boundaries, when necessary and possible; self-contained and disconnected when required
Web GIS deployment patterns ....

On-premises data center
Public Cloud (AWS, Azure)
Managed Services

Online ArcGIS Enterprise Server

…Connect and use the system as you prefer
ArcGIS enables new types of collaboration
Connecting Individuals, Organizations and Communities

Creating a Nervous System for Our Planet….helping you and your organization work smarter
GIS is becoming an Interconnected Platform
Opening, Integrating and Simplifying

ArcGIS
Creating an open and real-time Network of Geospatial Services
ArcGIS integrates everything

System of Engagement

People, fact-based decisions

System of Record

Data, assets and observations

System of Insight

Processes, analytics and insights

Improving efficiency, collaboration, communication
ArcGIS Enterprise
Deployment patterns
...deployment models to suit your organization needs
Base ArcGIS Enterprise Deployment
Ready for self-service mapping
Base ArcGIS Enterprise Deployment

Ready for self-service mapping, and imagery

Portal

Hosting Server for Imagery
(image layers)

Data Stores

Features
Tile cache
Rasters
ArcGIS Enterprise Deployment

Complete mapping system, for self-service and enterprise data

Portal

GIS Server
(mapping, for enterprise data)

Data Stores

Features
Tile cache
User-managed
ArcGIS Enterprise Deployment
Complete mapping, real-time streaming and analytics system

GeoEvent Server
(real-time and stream analytics)

GeoAnalytics Server
(big data analytics on vectors)

Data Stores

- Big Data stores
- Observations
- Features
- Tile cache
- User-managed

IoT, Sensors & Moving objects
ArcGIS Enterprise Deployment
Complete mapping, real-time streaming and analytics system (raster and vector big data)

Raster Analytics Server
(big data analytics on raster data, image processing)

Data Stores
- Rasters
- Big Data stores
- Observations
- Features
- Tile cache
- User-managed
ArcGIS Enterprise Deployment
Complete mapping, real-time streaming, analytics and business analyst system
ArcGIS Enterprise Deployment
A complete and modern GIS
From an integrated System to a System of Systems

- System of Engagement
  - Make Data-Driven Decisions (Predictive, Prescriptive)

- System of Record
  - Promote Data Democratization (trusted collaborations)

- System of Insight
  - Efficiently operate a Data Ecosystem (Tools, Techniques, Automation)

ArcGIS connects people, processes, things and data about them
ArcGIS is becoming DISTRIBUTED

...starting with ArcGIS Enterprise 10.5
Introducing new types of collaboration

Creating a system that can stretch across boundaries …starting with ArcGIS Enterprise 10.5

• Portal to Portal collaboration (P2P)
• Portal to Online collaboration (P2O)*
• Online org to Online org collaboration (O2O)*
• Dev-Staging-Production workflows*
Portal to Portal collaboration (P2P) … available now

Sharing via a central Portal, within your Enterprise

• Aggregate “live layers” from different departments
  • No copies of data (services) are made
• Share information products across the enterprise
  • Portal item changes are synchronized / scheduled
• Enterprise-wide SSO, across all collaborating Portals
  • Single Enterprise-wide identity

... Promotes Inter-departmental sharing and collaboration workflows
Portal to Online collaboration (P2O)* … available later in 2017

Sharing with community, field-workers

- Enterprises implement some workflows online
  - Supplement your on-premises workflows
  - Expand the reach of the organization, beyond the firewall
- Choose an identity models that suits your needs
  - Enable single (SSO across same SAML IDP)
  - Enable multiple identities (internal vs. external users)
- Work with copies of data (services)
  - Pre-defined schedule, authorized copies
- Supports QA/QC, viral maps, “authorized data, for external consumption” workflows

...Support community engagement and contractor use-cases
Online to Online collaboration (O2O)* … available later

Sharing between online communities

- Sharing across organizations
  - Supports multiple independent identity systems
- Sharing can be (optionally) via a designated Hub organization
- Work with live data
  - No copies of data (services) are made
  - Item and data (services) changes are seen instantly across participating organizations

...Support sharing across online organizations
Dev-Staging-Production* … available later

Simplified configuration, to promote a best-practice workflow

• Schedule your deployment process and practices
• For Portals or Online orgs

…Govern your SLA
P2P – a Central Enterprise Portal, example

Work with “live” data across the Enterprise

...A central System of Engagement, promotes trusted sharing across agencies / departments
P2P – Inter-department sharing, demo
Sharing “live” data departments, within an Enterprise

...An extended System of Engagement, promotes trusted sharing across agencies / departments
DEMO: P2P collaboration, using ArcGIS Enterprise 10.5

Bill Major
Distributed GIS

Your system of engagement can span multiple Web GIS deployments, reflecting your org structure and needs

... Creating a system that can stretch across boundaries
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<tr>
<td>12:30 PM – 6:30 PM GIS Solutions Expo, Hall B</td>
<td>10:45 AM – 5:15 PM GIS Solutions Expo, Hall B</td>
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<tr>
<td>5:15 PM – 6:30 PM Expo Social, Hall B</td>
<td>6:30 PM – 9:30 PM Networking Reception, Smithsonian National Air and Space Museum</td>
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