Federal GIS Conference
February 9–10, 2015 | Washington, DC

Federal Real Property Management: Laying the Data Foundation with GIS

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Federal GIS Conference

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Printing stations located on L St. Bridge, next to registration

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Networking Reception:

National Museum of American History

Tuesday, 6:30 PM–9:30 PM

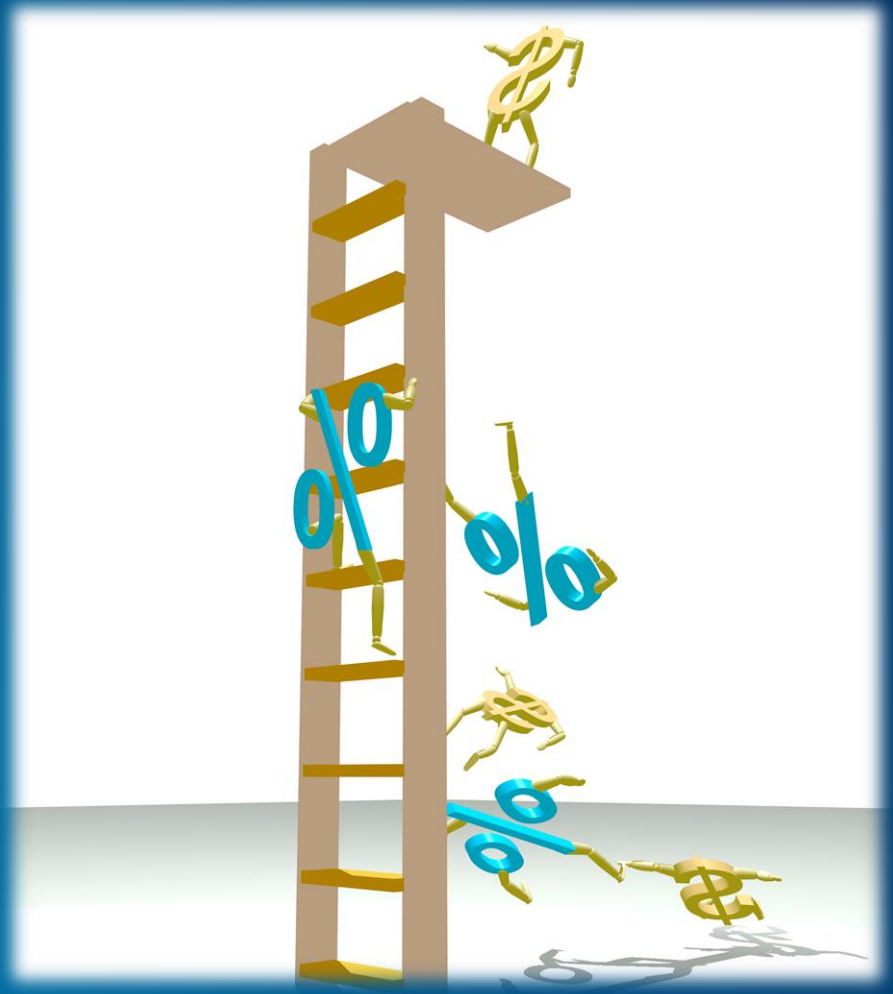
Bus Pickup located on L Street

Laying the Data Foundation - Agenda

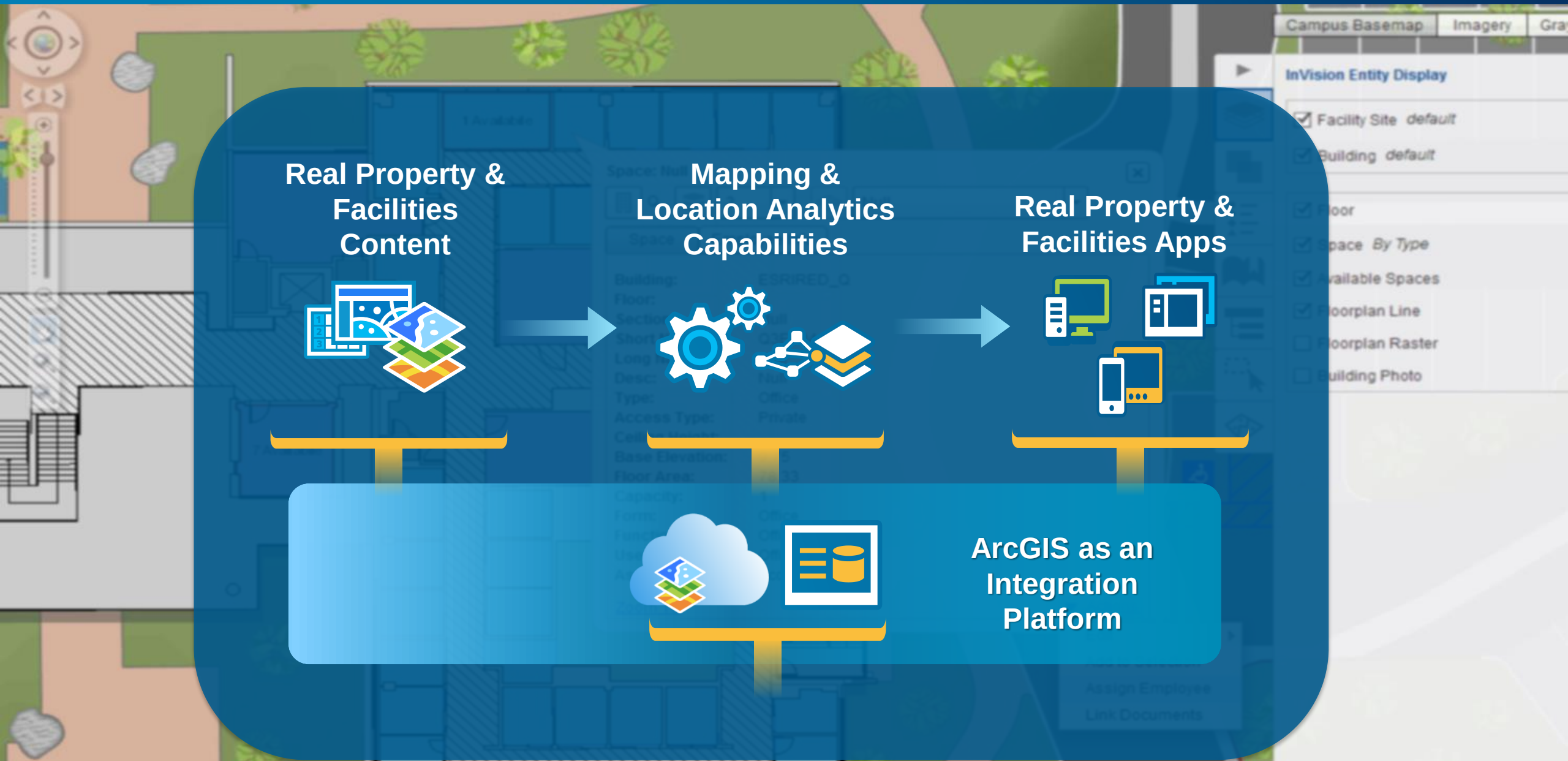
- Introduction – Laying the Data Foundation
- Government Examples
- Live Demonstrations
- QnA with Panel and Attendees
- More Information

Challenges Faced by Federal Real Property Managers

- Underutilized properties cost billions annually
- Executive orders, GAO, etc., demand new efficiencies
- Increasing vulnerability of federal real property
- **Information silos and other obstacles to efficient management & protection of FRP**



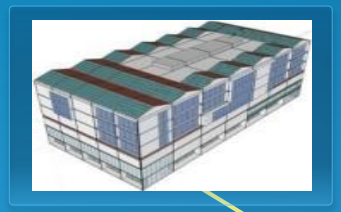
Laying the Data Foundation – GIS is a Force Multiplier



Facilities GIS Utilizes Building Information

Integrating Building Data with Other Geographic Information

3-D Tools



BIM

CAD

Interoperability

- Web Server
- Extract, Translate, Load
- CAD/BIM Standards
- Interchange Formats

Specifications

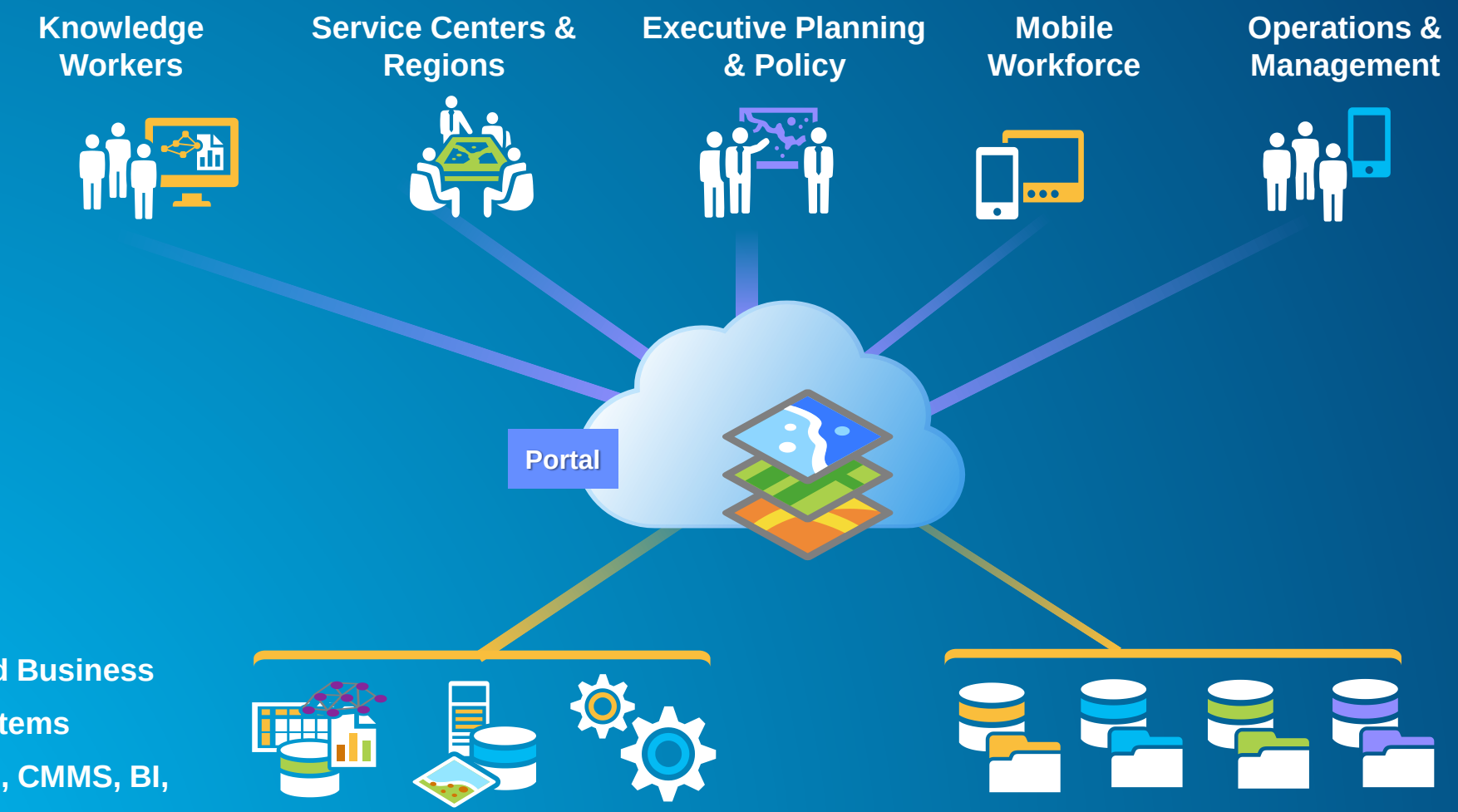
- BOMA/FICM
- OmniClass
- COBie
- OSCRE

Tools

- 2D & 3D Data Models
- Historical Playback
- Editing
- Visualization
- Design & Analysis

Facilities GIS provides a Unifying Integration Platform

A Mapping & Location Analytics Platform for Managing Facilities

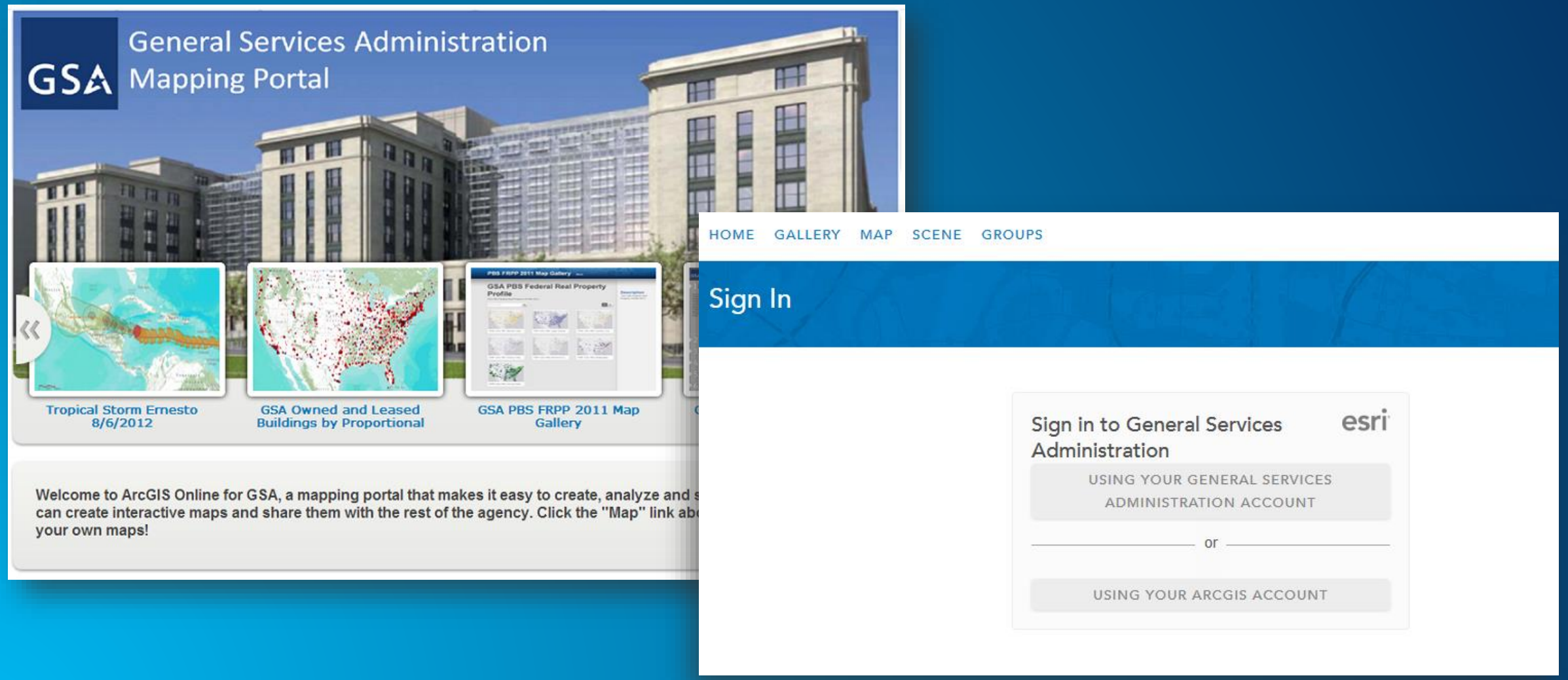


. . . helps you, your staff & contractors discover, make, use & share facility maps from any device, anywhere, anytime

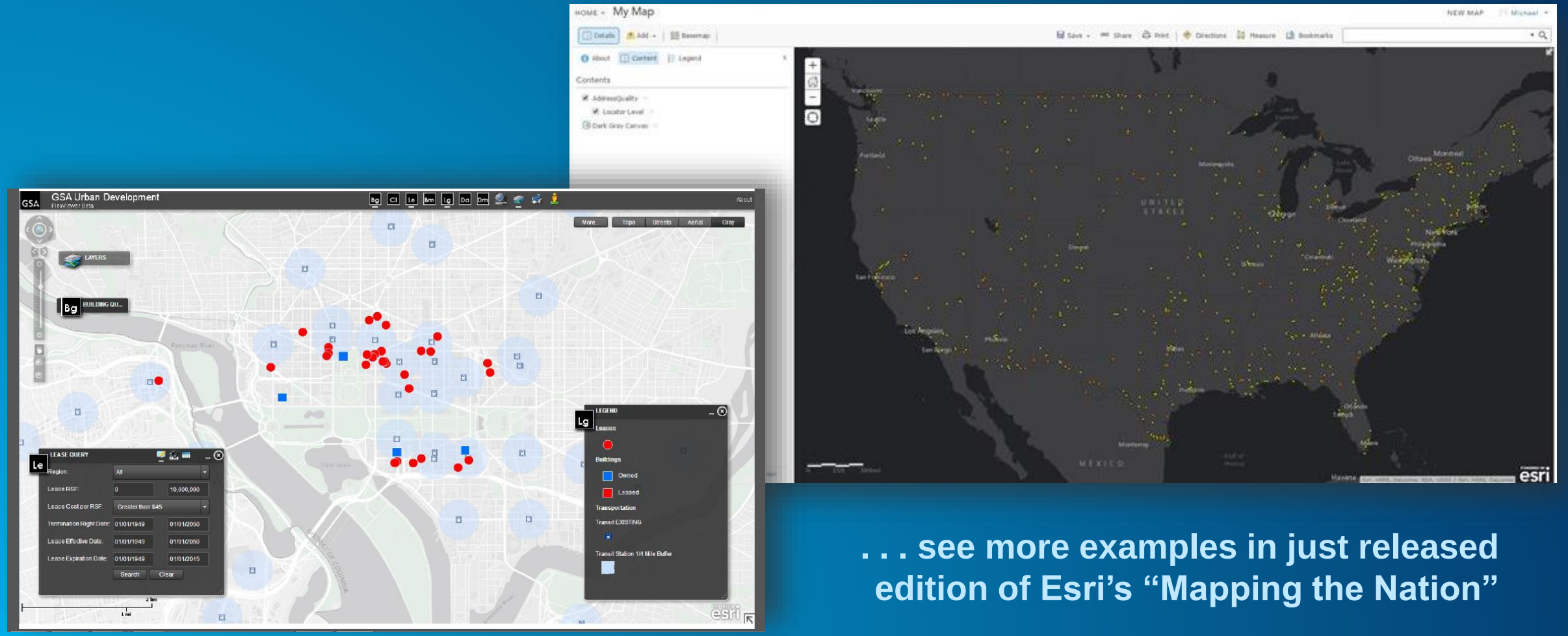
GSA’s GIS Center of Excellence

Mike Bowers & Michael Hartung

GSA's Mapping Portal using ArcGIS Online



GSA Maps & Apps for Real Property Validation & Query



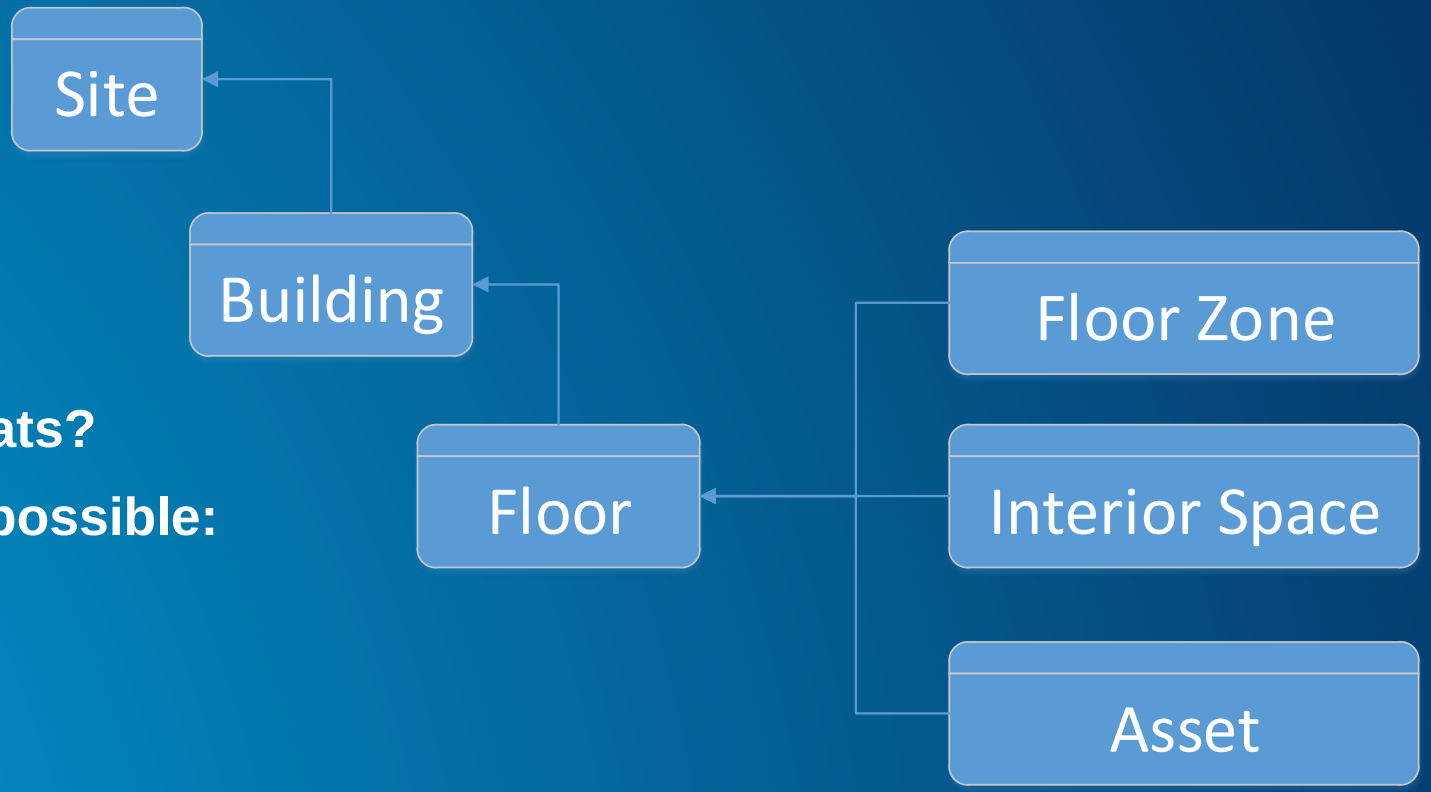
. . . see more examples in just released edition of Esri's "Mapping the Nation"

An Integration Platform

Ben Yetman

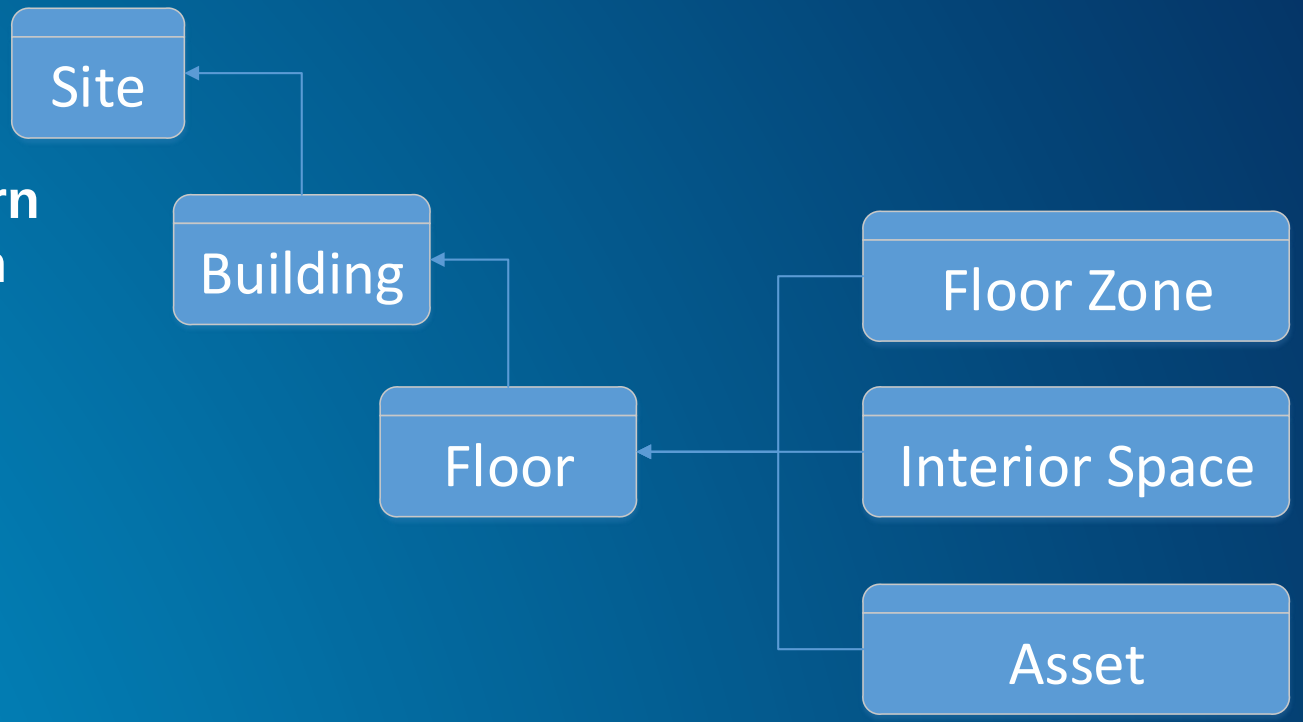
Data Interoperability Requires Standards

- What are the core concepts?
- How are they organized?
- What are required attributes?
- What are acceptable values?
- What are the transmission formats?
- Use an existing standard when possible:
  - National CAD Standard
  - National BIM Standard
  - COBie
  - FISDM



FISDM Purpose

- Develop a practical, replicable pattern for managing building and floor plan data in GIS
- Help project teams get started
- Support multiple applications/solutions
- FISDM is not a solution
- Collaborate and share between groups working on different application problems

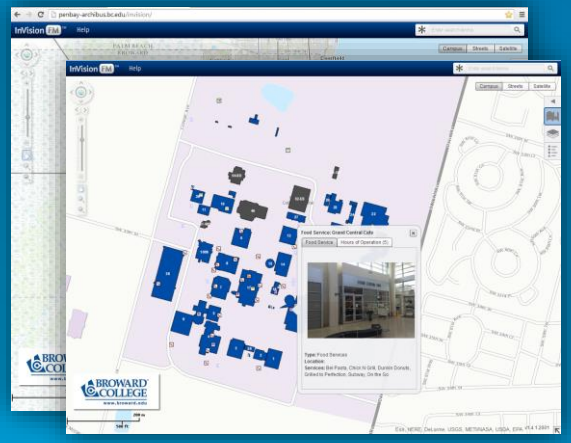


What is available from FISDM?

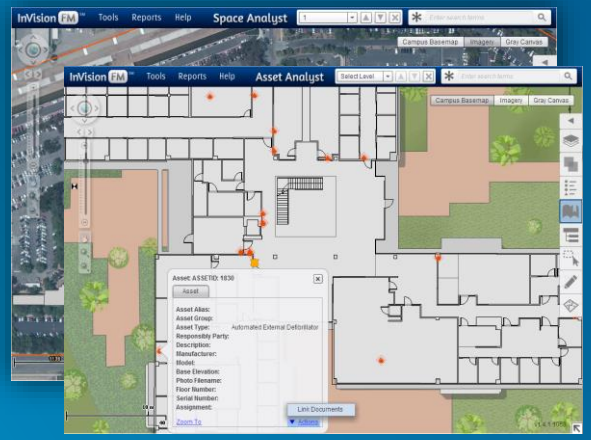
- Data Model (XML Workspace)
- Sample Data
- Sample Interoperability Tools
- Sample Development Tools
- Data Driven Pages example
- CAD organization recommendations
- Documentation
- Links to other resources
- Wiki
- Issue log

How to get started

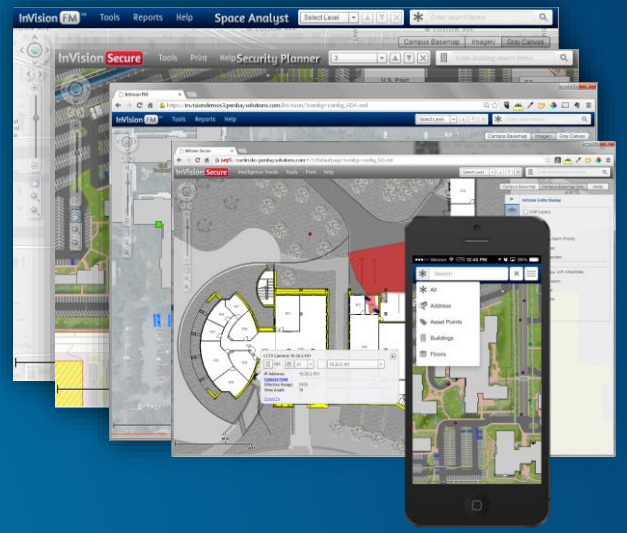
Crawl



Walk



Run



- www.fisdm.org
- www.esri.com/fm
- www.vertex3.com
- www.safe.com
- www.penbaysolutions.com

QnA with Our Panel & Attendees

Facilities Are Mission Critical – More Information

penbaysolutions.com/govloop-mission-critical/

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gis for facilty management

PRODUCTS INDUSTRIES SOLVE MY PROBLEM VIDEOS LEARN MORE ABOUT

Please Come See PenBay Solutions at the Esri Federal GIS Conference in DC February 9th & 10th!

Washington, DC: Feb 9-10, Walter E. Washington Convention Center: **it's FREE* for Federal**

Download Federal Real Property White Paper

Facilities are Mission Critical

How Enterprise Geographic Information Systems are Solving the Complex Challenges of Managing

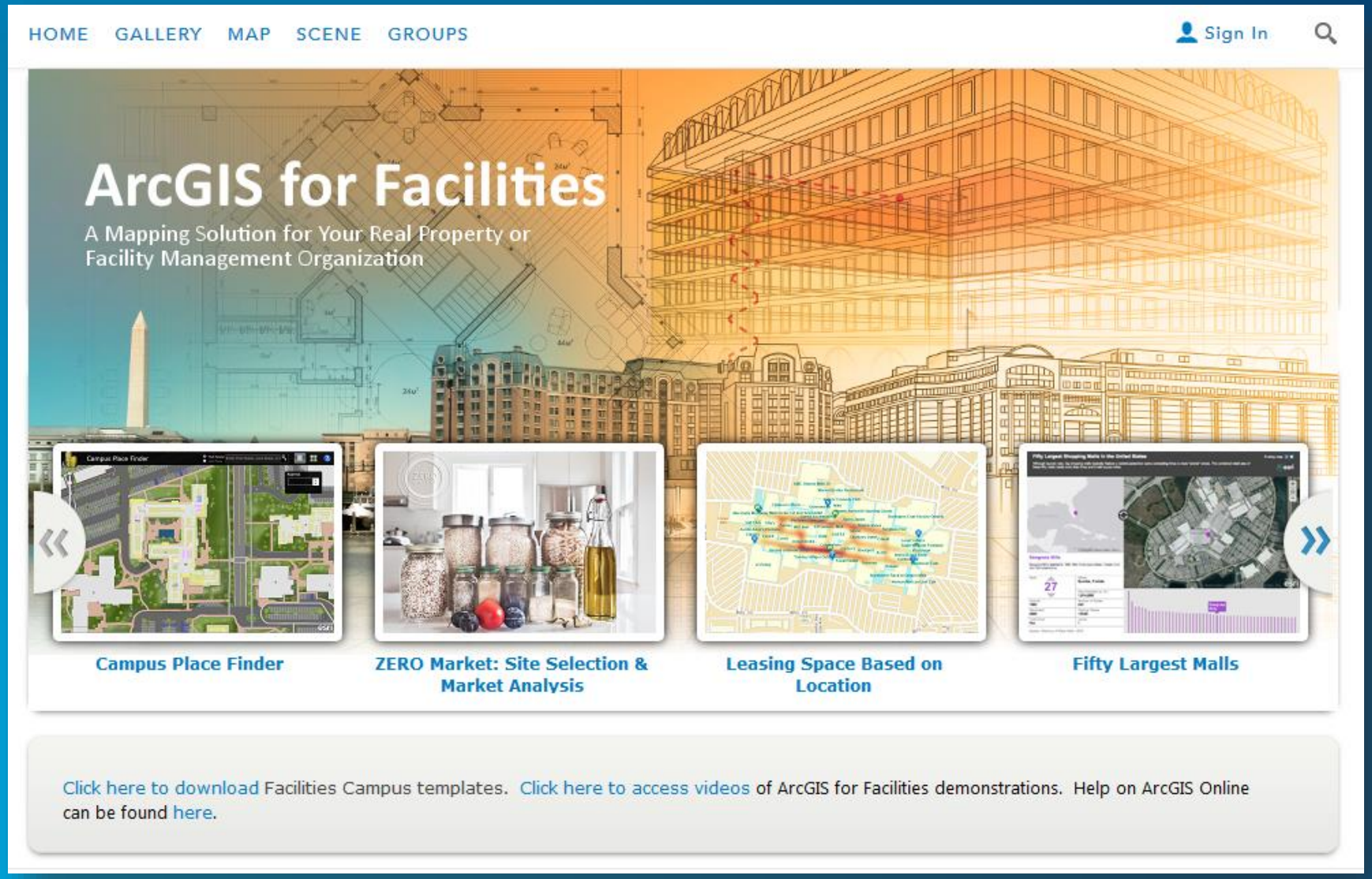
Download Data White Paper

GIS & the Facility Manager: the Data Value Proposition

Geographic information systems (GIS) as a unifying technology platform for facility management.

Facilities Are Mission Critical – More Information

facilities.maps.arcgis.com & esri.com/fm



Understanding our world.