February 10–11, 2014 | Washington DC



Implementing ArcGIS for Facilities

Don Hong and Craig Cleveland

Agenda

- Introduction to ArcGIS For Facilities
- Challenges of Implementing ArcGIS For Facilities
 - Data
 - System
 - Application
- Demonstrations
- Wrap up



Facility Life Cycle & the Value of GIS

Lots of Applications Supporting Many Stakeholders & Business Needs



... is there a technology that provides a systems-based approach?

... is there a technology or information system that scales all geographies?

... is there a technology that can extend the value of FM System and Bldg Design data?

Industry & User Business Challenges



- Detecting patterns, trends, & relationships
- Prediction, reaction, & coarse correction
- Decision support at all scales or levels of details



ArcGIS for Facilities – Solution Areas



Meeting Demand and Capturing Requirements

Portfolio

Planners/

Analysts



Planning / Site Selection



Optimization & Allocation



Portfolio Design & Managers Engineering Anywhere Any time Analyze Condition, • Design Utilization, Capacity Environmental Site Selection: Determine Total Cost ••• Assessment/ Impact Demographics of Operation (TCO) • Site Engineering Market statistics • Decision Support: • Design constraints Available Maintain or Divest Resources Competition COGNOS MicroStratogy Analysis & Location Visualization Analytics & System ſ. Integration SAP **Business Systems** Æ **

Web GIS

• Data Creation, Management, Analysis, Dissemination

Professional GIS

The Work





Facilities GIS Maps and Apps

• Resources available at www.esri.com/fm



Diversity of Users and Applications

GSA Public Building Service



National Institutes of Health FM



Architect of the Capitol





NASA Stennis Real Property & Facilties

National Park Service Facilities





US Marine Corp Real Property

Challenge #1 - Data

• Availability

- What data do I need?

• Formats

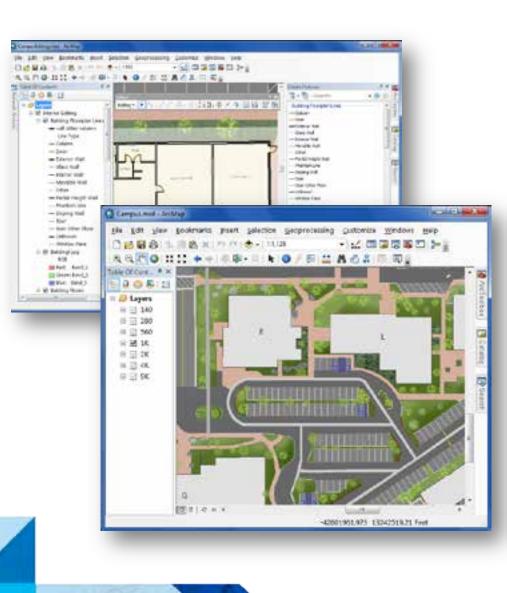
- CAD, BIM, CADFM, DBMS
- Standardization
 - How do I put them together?
- Maintenance
 - What does it take to maintain the data?



Facilities Management

Campus Editing & Basemap Templates

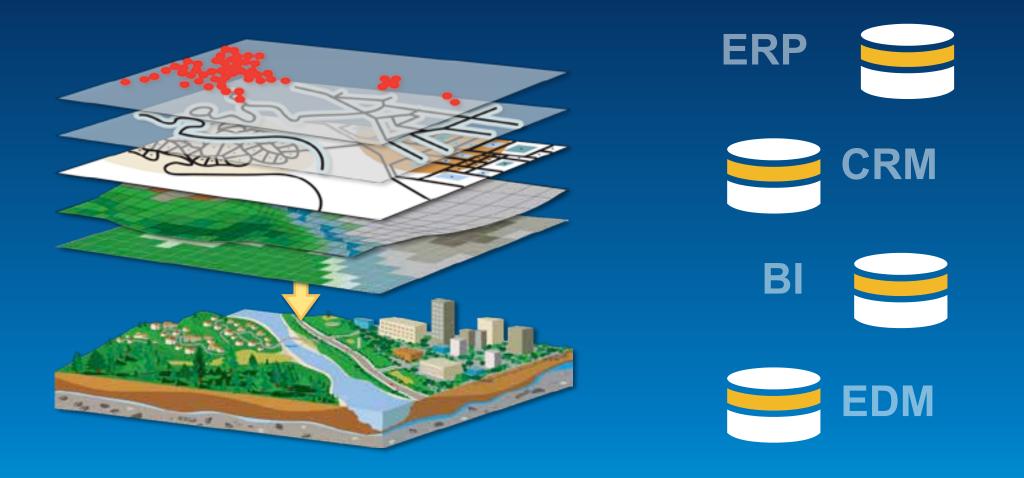
Craig Cleveland



Challenge #2: System

- System Architecture Design
 - Right hardware configuration
- System Integration
 - What is the best practice to integrate GIS with other systems?





Best Practice

Exploit location info from important business systems – "location analytics"

Challenges #3: Applications

• Web

- What applications do we need?
- How much does it cost?
- How about 3D?
- Mobile
 - What does it take to build a mobile application?





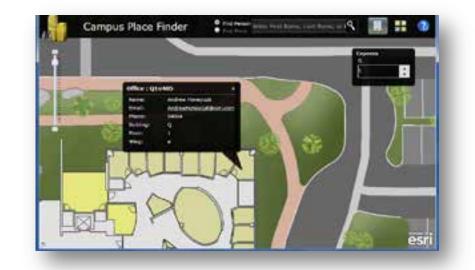
Consumerization

Experiences with technology at home drive expectations @work

Facilities Management

Campus Place Finder Template

Craig Cleveland



Facilities Management

Extending the Templates

Craig Cleveland





Principles for world-class FM GIS @work

Connecting systems and stakeholders from across the enterprise

- Manage asset and resource information
- Facilitate better planning and analysis
- Get information into and out of the field
- Provide comprehensive view of operations
- Geo-enable other business systems
- Empower employees, constituents, and customers

- Esri COTS technology platform ArcGIS
- Follow an agile project methodology
 - Shape human workflows to leverage the capabilities and strengths of the ArcGIS platform
 - Configure existing tools first, and use customizations sparingly and as deemed absolutely essential by project leadership
 - Interface with other business systems using web services or routine ETL data movements
- Provide long-term support resources
- Leverage the Esri community for ideas and resources to support innovation and sharing of best-practices

Our Approach

Follow our best practices to maximize the value of using the ArcGIS platform

February 10–11, 2014 | Washington DC



Don't forget to complete a session evaluation form!

February 10–11, 2014 | Washington DC



Networking Reception

Smithsonian National Museum of Natural History

Tuesday, 6:30 PM–9:30 PM Bus Pickup located on L Street

February 10–11, 2014 | Washington DC



Print your customized Certificate of Attendance!

Printing stations located in Hall B and the 140/150 Room Concourse.

February 10–11, 2014 | Washington DC



Interested in diving deeper into Esri technology?

Add a day to your Fed GIS experience and register to attend the Esri DevSummit Washington DC. Stop by the registration counter to sign up.



Understanding our world.