The Power of Spatially Enabling Your Real-time Facilities Data

Presented by **James Sullivan**

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Recommended Flow of Topics in Agenda

- Business Challenge
- About GIS
- ArcGIS Platform and the PI System
- Create and Use Maps For…
- Demonstration of FM integration
- Conclusion
- Questions

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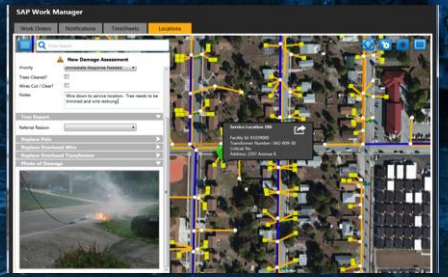
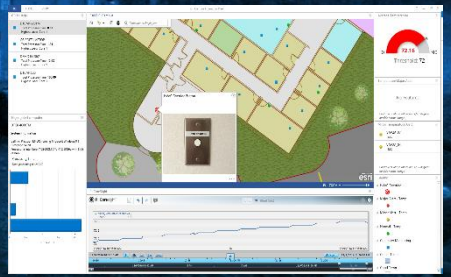
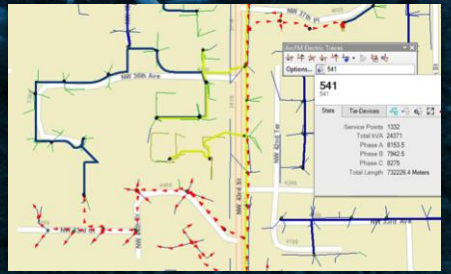

SAP Work Manager
Work Orders
Notifications
TimeSheets
Locations
New Damage Assessment

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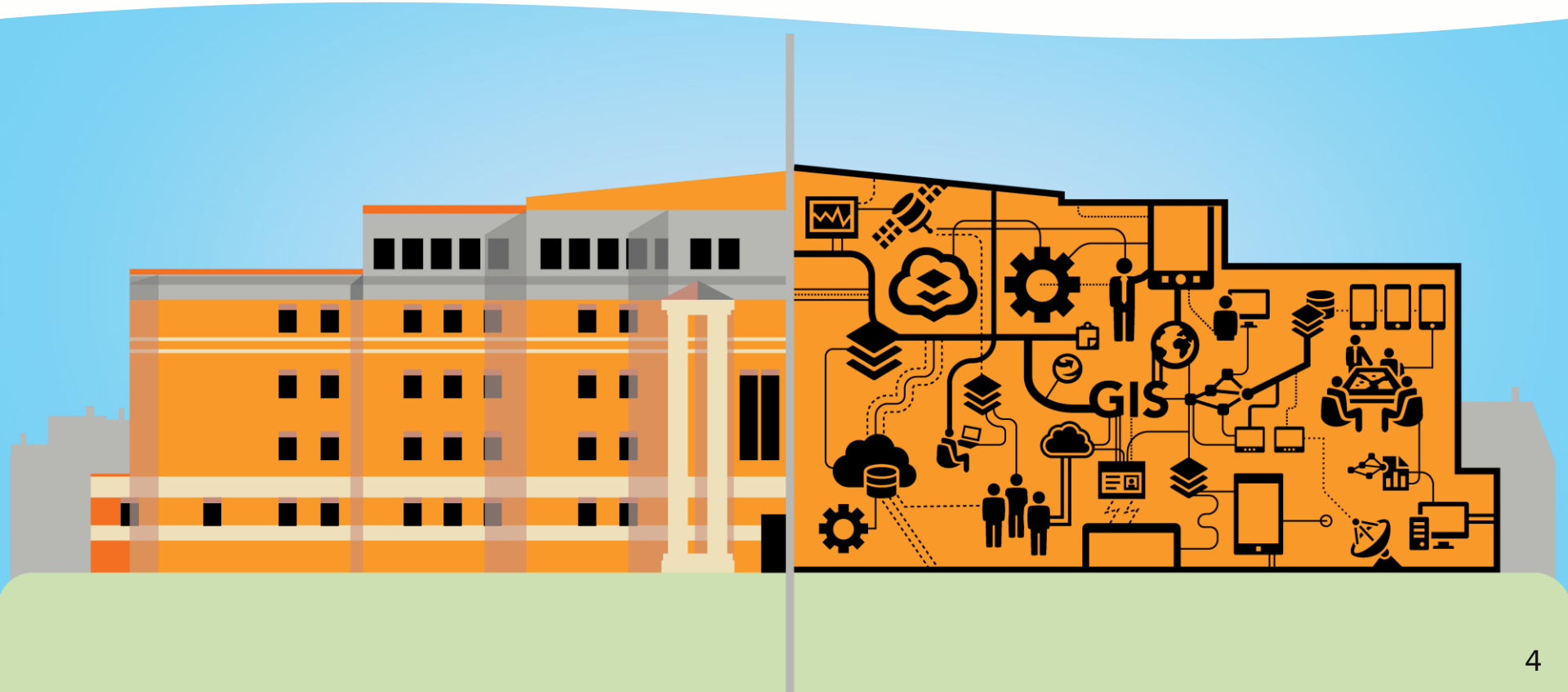
GIS is a “System of Record”

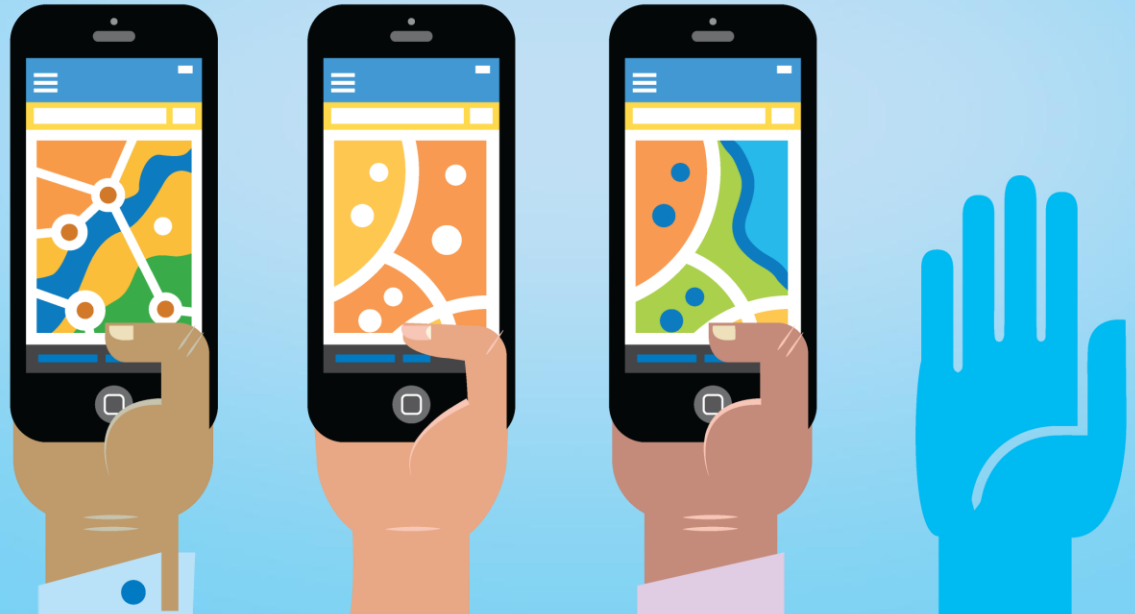
Organizing and managing the geographic context of your assets and resources

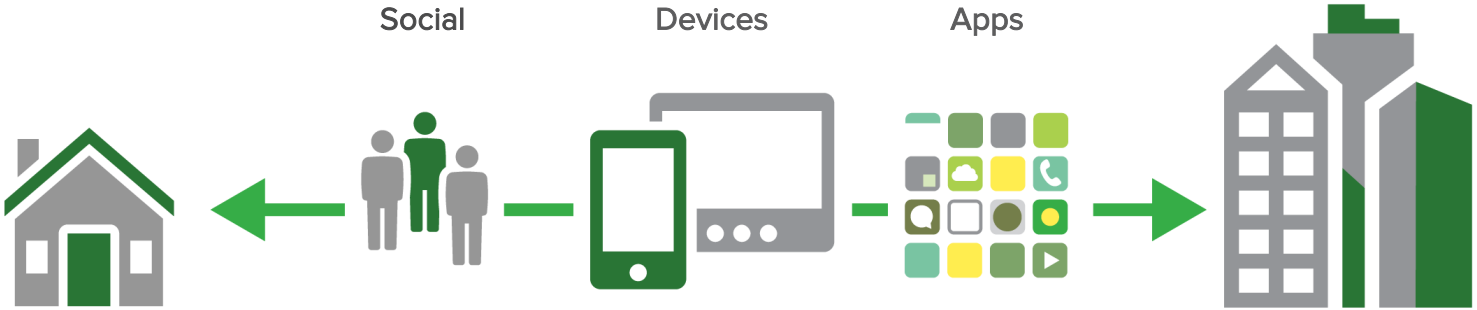


Increased Demand ▶ For authoritative mapping and location-aware apps at work

Pew Research Center

74% of adults use their smartphone to get directions or other information based on their current location





CONSUMERIZATION of IT

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58%

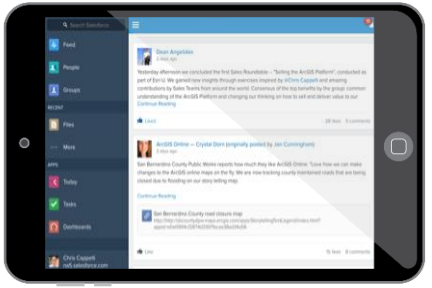
Own a Smartphone

87%

Using the Internet

2.8

Devices Owned by Knowledge Workers



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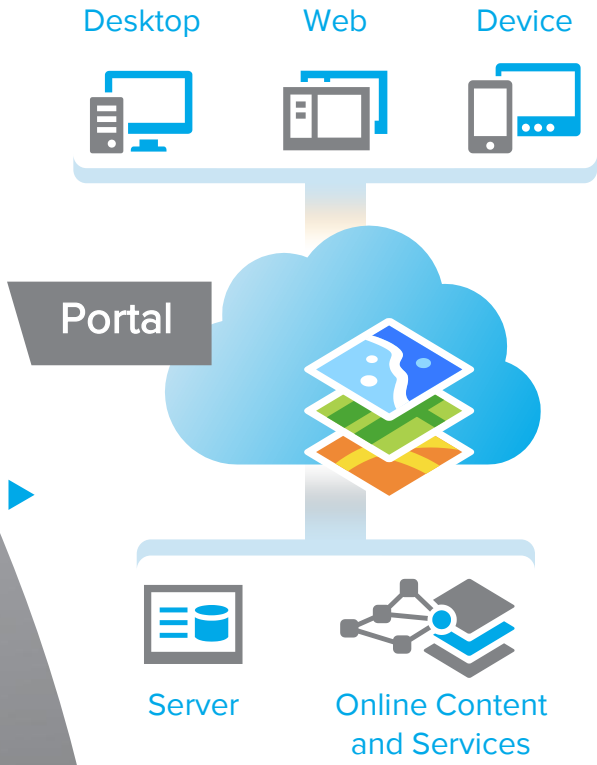
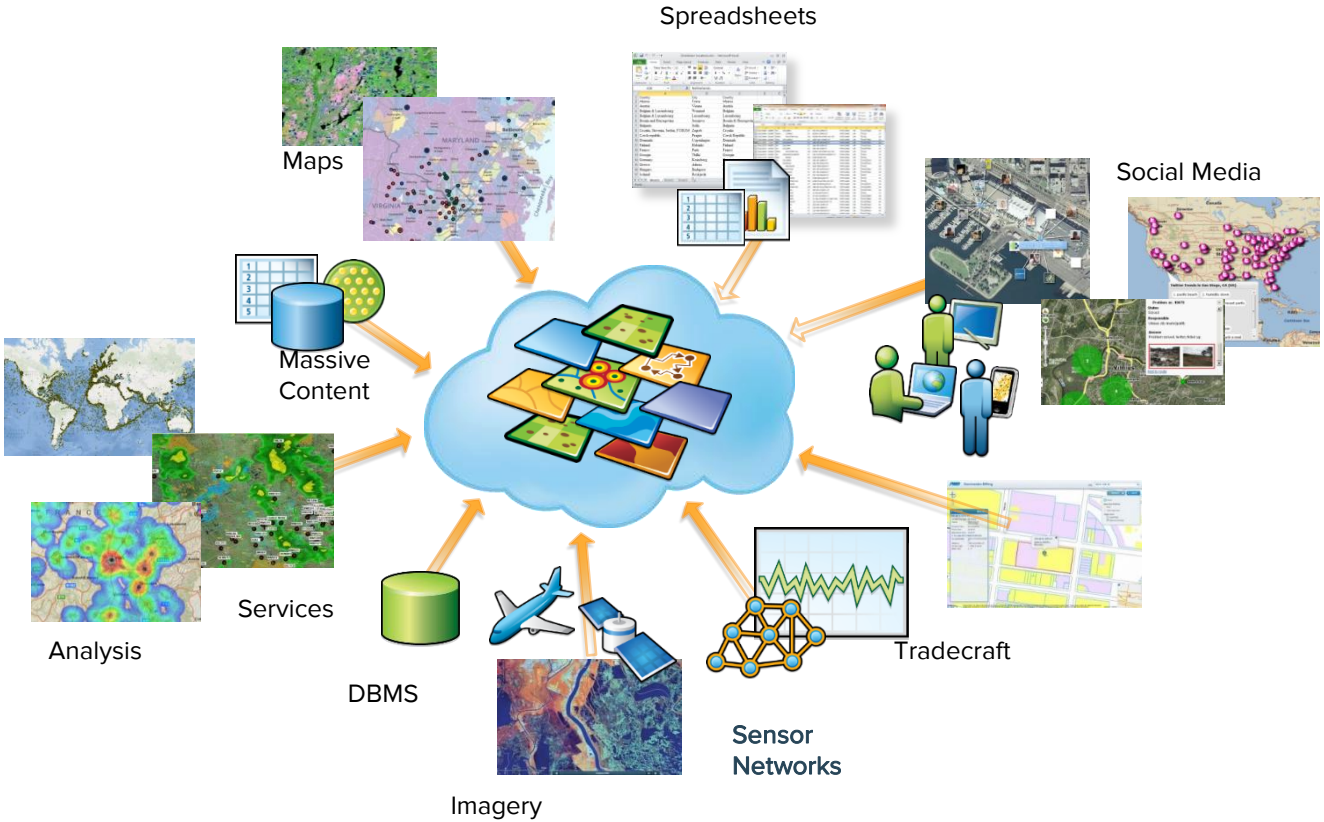
ArcGIS

An Integrated
Web GIS Platform

Providing mapping, analysis, data management, and collaboration



GIS | Integrates All Types of Geospatial Information



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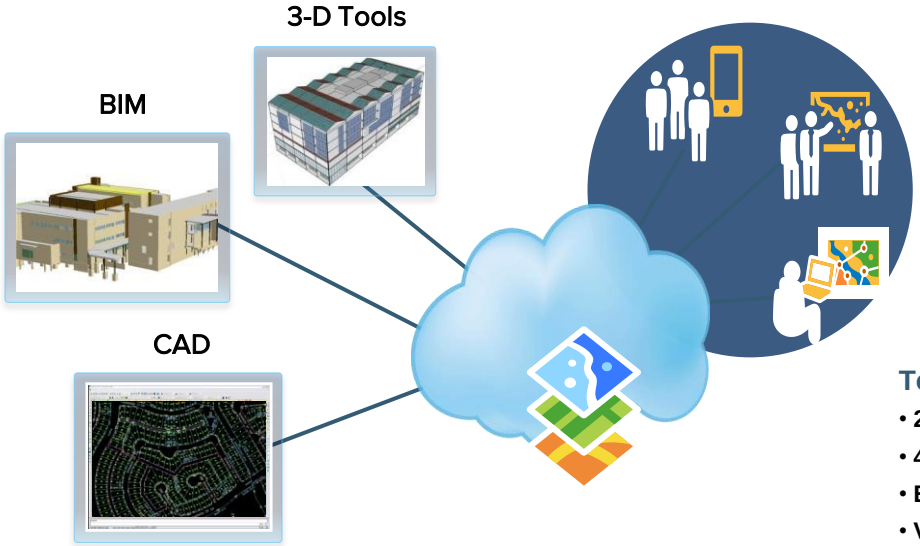
ArcGIS Utilizes Building Information

Integrating Building Data with Other Geographic Information



Interoperability

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

Specifications

- BOMA/FICM
- OmniClass
- COBie
- OSCRE

Tools

- 2D & 3D Data Models
- 4D Historic Playback
- Editing
- Visualization
- Design
- Analysis

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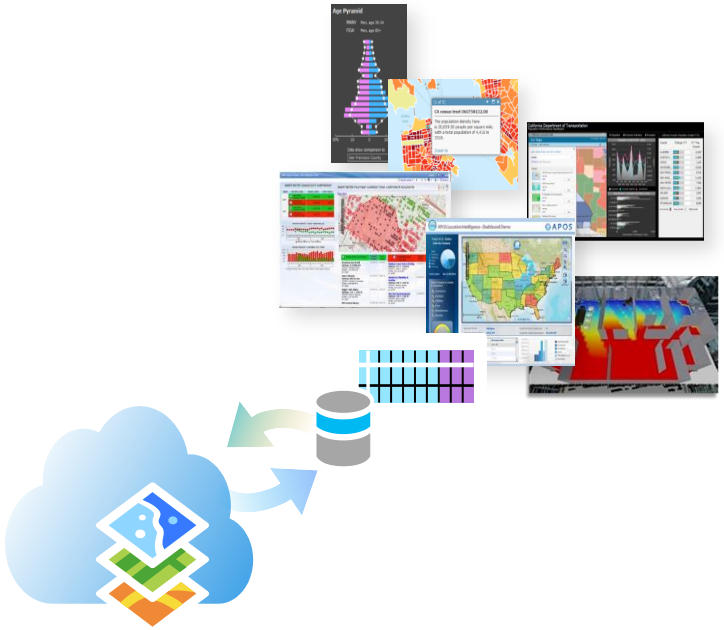
ArcGIS Integrates & Geo-enriches Enterprise Systems

Providing Mapping and Location Analytics



Integration with leading Facility, Infrastructure, Safety & Security systems of record

- Database
- Web Service (REST)
- API

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ArcGIS Geo-enriches PI – PI Integrator

Providing Robust Mapping and Location Analytics Capabilities

Delivering real-time analytics across space and time …

Together delivering better business decisions

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ArcGIS Platform Solutions for FM – 3 Primary Business Patterns

Mapping & Location Analytics for common needs …

… complimenting your existing real property and facilities management technologies

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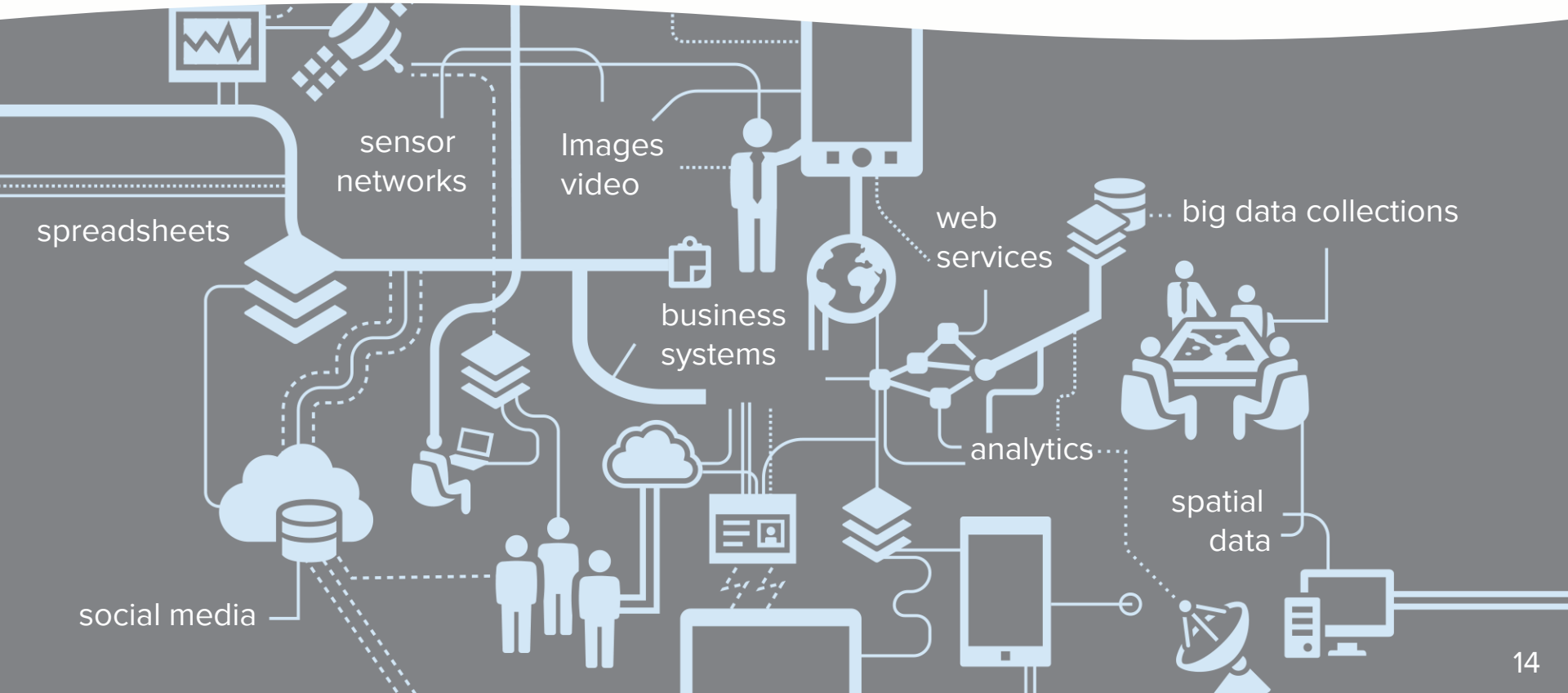
Maps at Work

Integrate, display, analyze, and enrich information from many sources



Common Approach

Rapidly deploy initial operating capability to everyone then develop custom apps and integrate with other systems

Initial Operating Capability

Foundation Apps
Essential Information Products

"GIS Ready" Data

Integrated Enterprise System

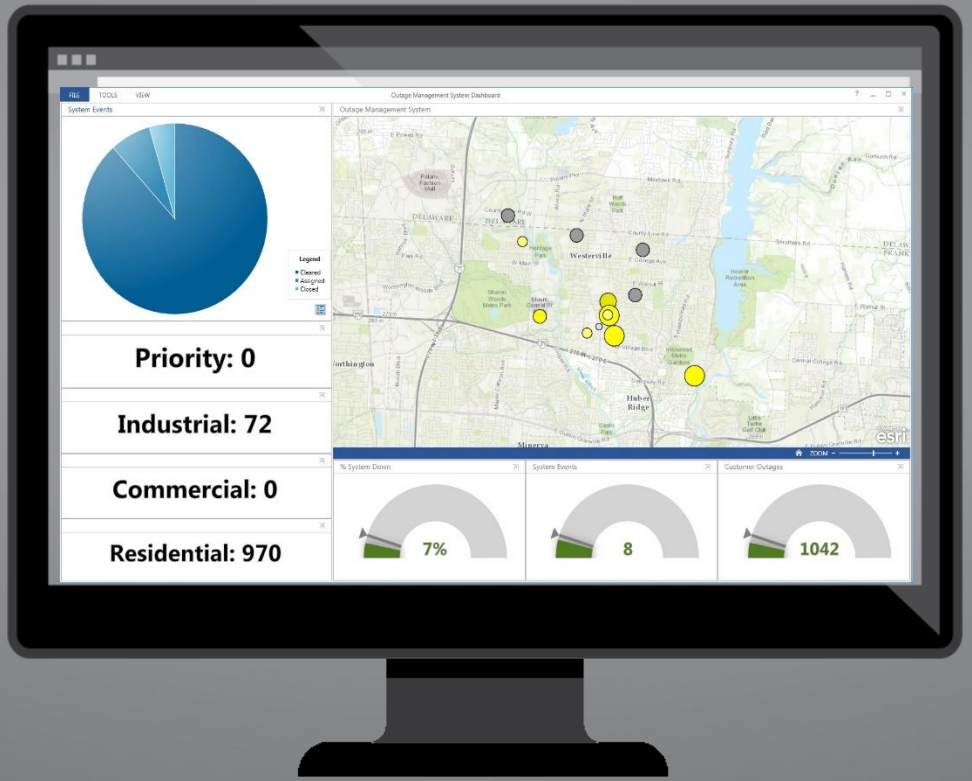
Extended / Custom Apps

Integration with Business Systems (e.g. OSIsoft PI)

Advanced Workflows

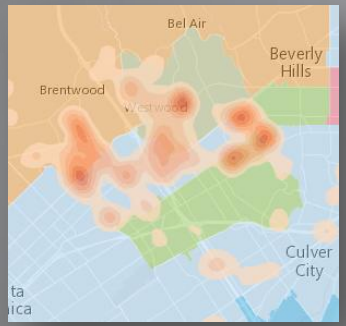
Content Production Systems
Data Modernization

Maps at Work ▸ Illustrate time, show status and performance, and support decision making



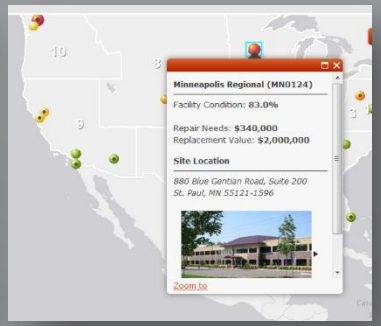
Maps for Portfolio Management

- Increasing cost efficiencies, occupant productivity & satisfaction, & revenue generation



Site selection and demographic analysis

Indoor space & amenity site selection



Real-time portfolio performance mapping

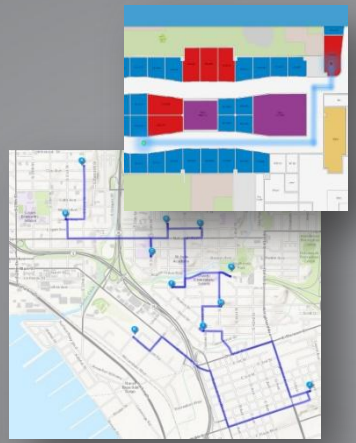
Building performance mapping

Space allocation and utilization

Maps for Operations

- Increasing cost efficiencies, reducing response times, optimizing tasks

Active, high priority work orders



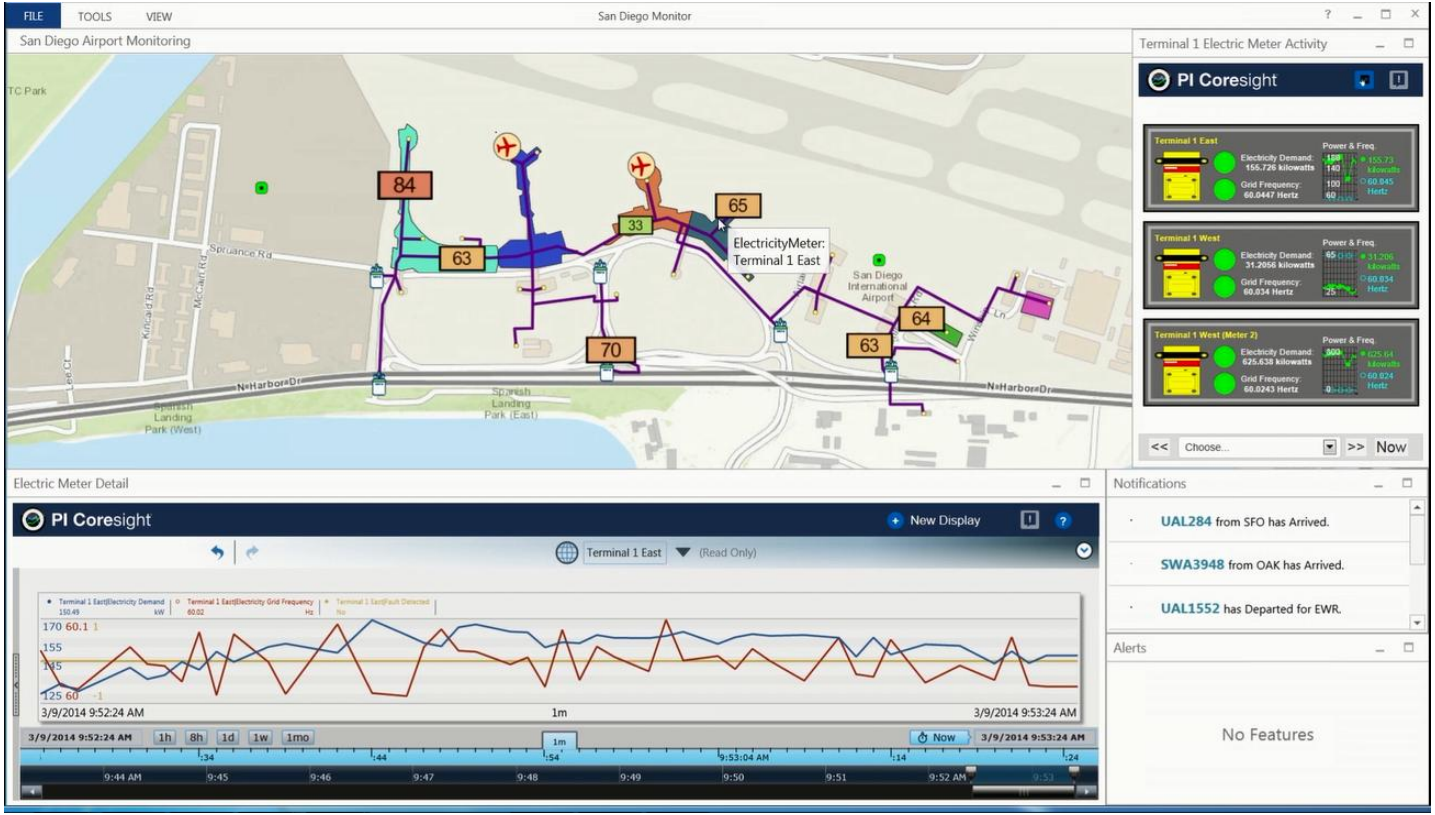
Optimized route scheduling & dispatch to work order location both outdoors & indoors

Real-time indoor environment monitoring & alerts

Density or hot spot analysis of work order activity

Alerts for service requests & scheduled maintenance

ArcGIS & The PI System – A Powerful Combination



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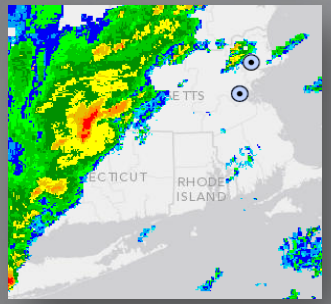
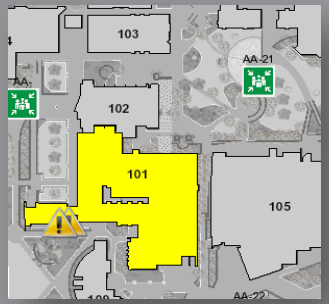
Maps for Safety & Security

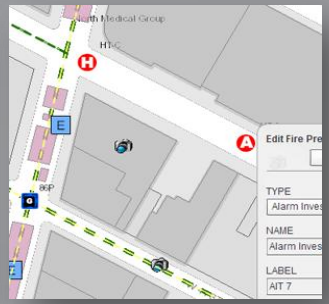
- Reducing and mitigating risks; improving occupant health; optimizing compliance



Natural hazard & continuity of operations

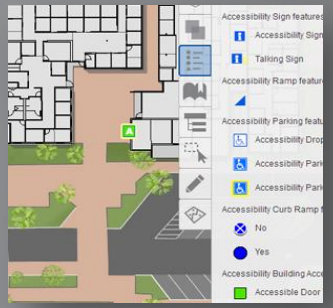


Risk assessment & planning



Event planning, safety, and security

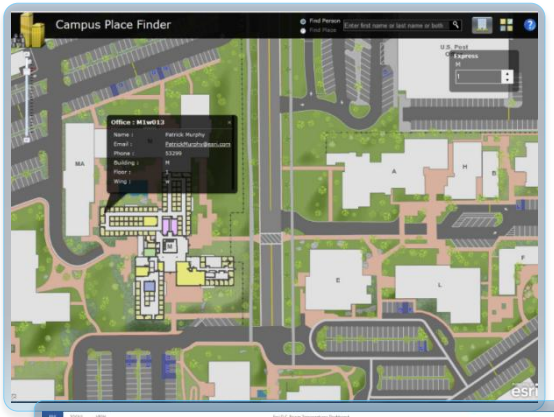
Live camera feeds and viewsheds

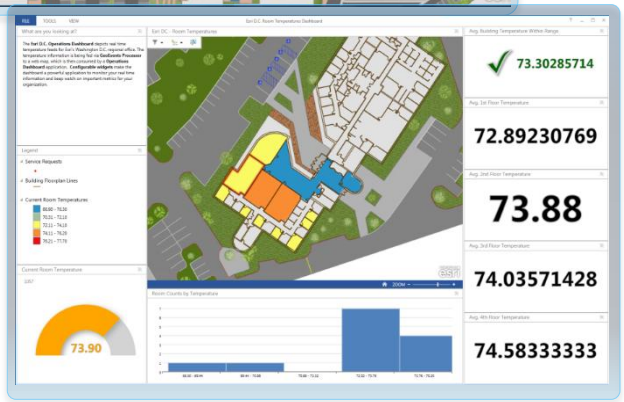


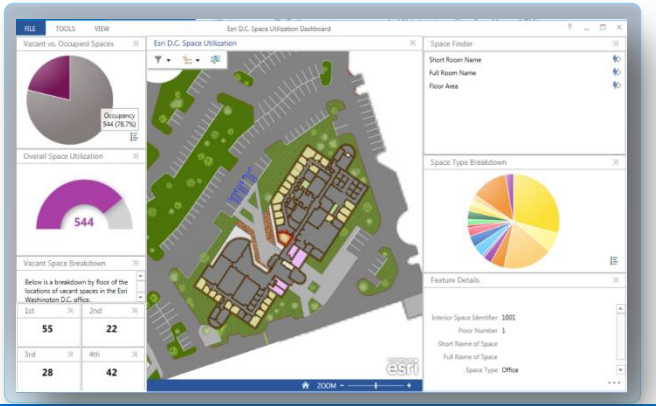
ADA compliance and emergency evacuation routes

ArcGIS Templates for Facilities Mapping & Analytics

Building, Campus and Portfolio Levels of Details Mapping







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Demonstration: The PI System & ArcGIS

Real-Time Analytics in Space and Time at the Esri DC Office

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Esri-OSIsoft Solution Bundle

- A great way to get started with ArcGIS integration with the PI System using the PI Integrator …
- Inquire with your OSIsoft acct executive …

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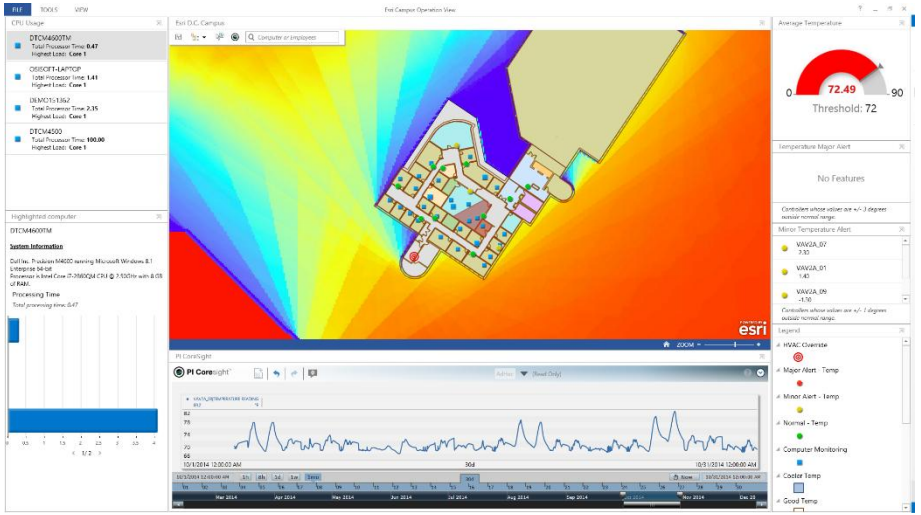
The Power of Spatially Enabling your Real-Time Facilities Data

A map is a powerful context to enable better decision-making…



Business Challenges

A. Consumerization of IT

B. Real-time facilities data on an easy to use map

C. Missing spatial trends in facilities data

Solution(s)

A. Spatially enable your facilities data

B. PI Integrator for Esri ArcGIS

C. Bring real-time data from many different systems together onto one map

Results and Benefits

- Recognize/analyze spatial trends
- Faster response time
- Reduce costs/Increase security posture

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Esri | serving our users, advancing GIS, and promoting spatial literacy

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Esri Inc.

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Please wait for the microphone before asking your questions

State your
name & company

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