Sharing and Collaborating Better to Improve Pipeline Operations

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Esri
Pipeline Industry Solutions Director

Jeff Allen
Esri
Global Pipeline Practice Lead

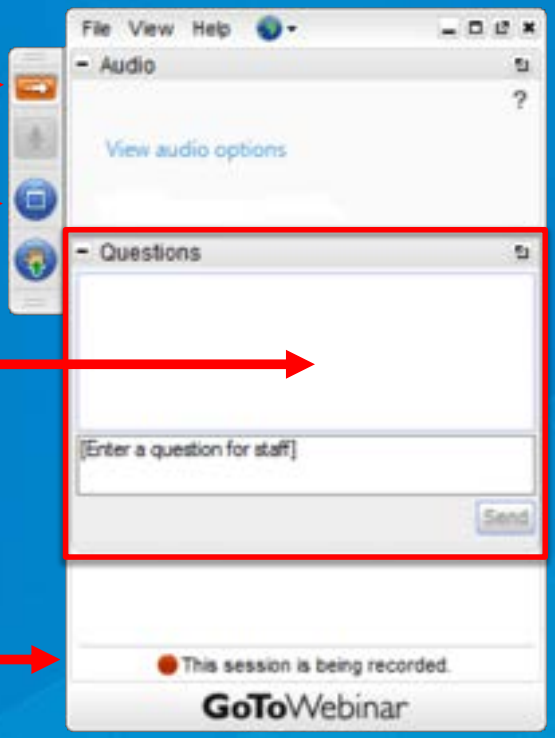
Sarah Ramirez
Esri
Solution Engineer

Logistics

Expand or Collapse Your Control Panel

Adjust Your View

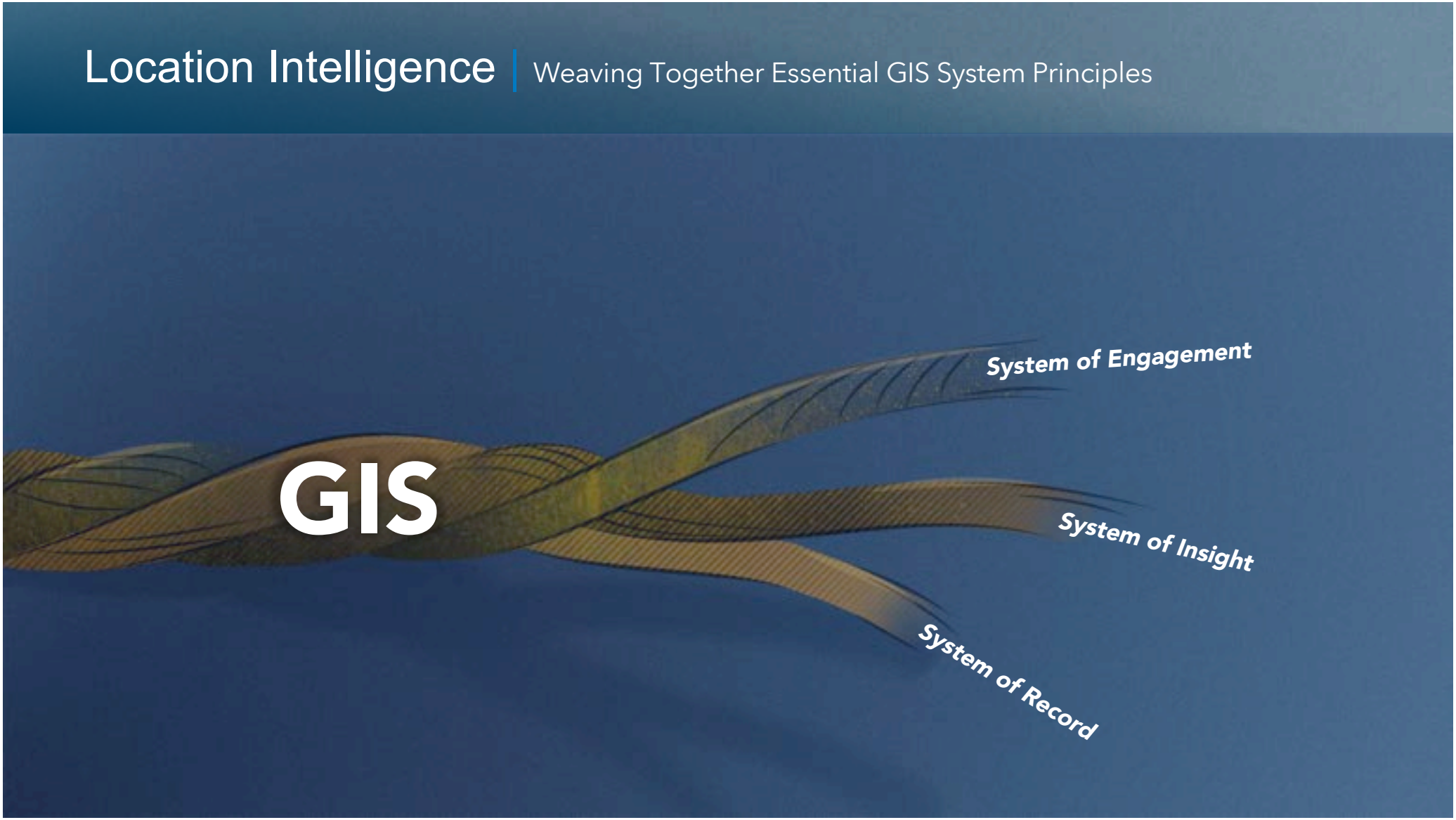
Ask a Question



Submit Your Question

The Webinar is Being Recorded

Location Intelligence | Weaving Together Essential GIS System Principles



Digital transformation is increasing demand for data and analytics…
…to create knowledge and make more informed decisions

Location Intelligence is Transforming Organization

Creating Responsive Organizations

Using the Power of Geography to Understand . . . And Integrate Everything

ArcGIS Directly Integrates All Types of Data | Immediately Usable

Enabling the Platform Across the Pipeline Lifecycle

Asset Development

- Planning
- Rights of Way
- Engineering
- Design
- Construction

Asset Management

- GIS
- MAOP
- TVC

Pipe Integrity

- Risk
- ILI
- HCA
- Class

Asset Operations

- Inspection
- Maintenance
- Network Control
- Emergency Management

Health, Safety & Environment

- Health
- Safety
- Environmental Management

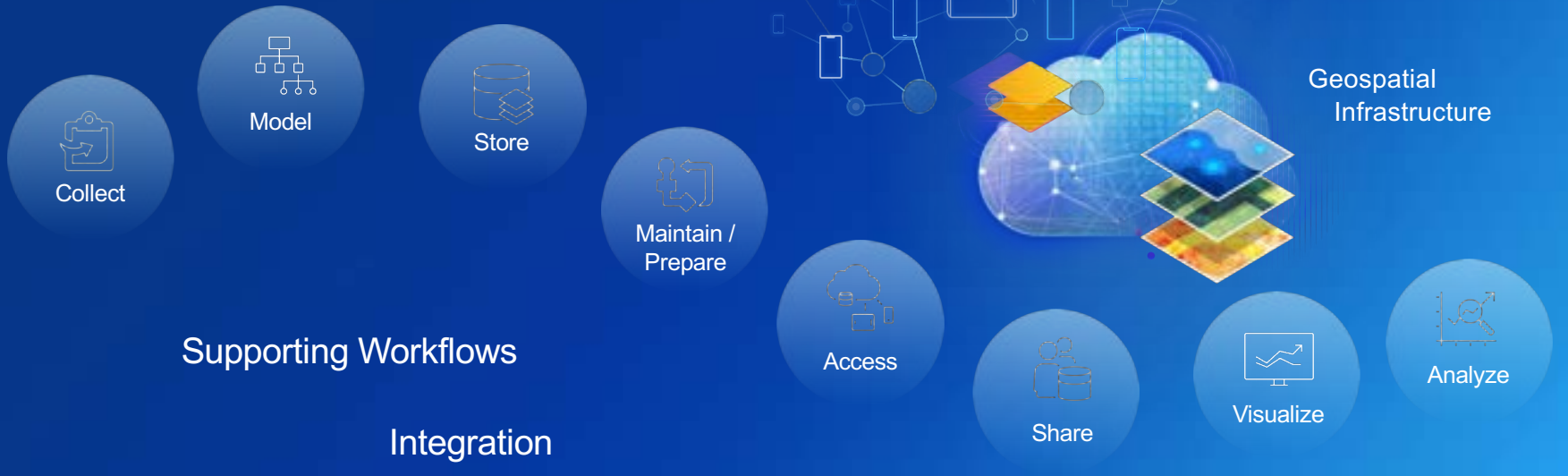
Business Management

- Tax Accounting
- Business Intelligence
- Revenue Protection
- Human Resources
- Legal

Customers & Regulators

- Marketing
- Sales
- Customer Service
- Regulatory Compliance

Business Demands Analytics and Innovation | Creating Greater Value



ArcGIS has the Right Tools and Frameworks for Your Enterprise Data Workflows

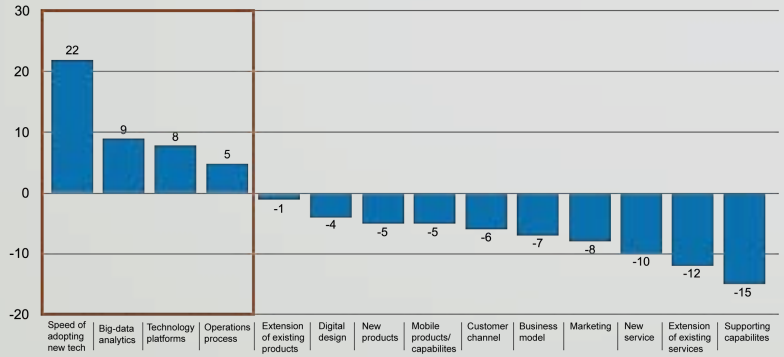
”66% of enterprises rank Location Intelligence as either critical or very important to ongoing revenue growth strategies”

Source: Location Intelligence Market Study by Dresner Advisory Services LLC, 1/2018

Key Factors for Innovation

The Boston Consulting Group's tenth annual global survey

Asked CEOs of global innovation leaders which of the following areas of innovation/R&D/product development will have the most impact on your industry over the next three to five years?



Source: BCG Global Innovation Survey, 2014, 2015.

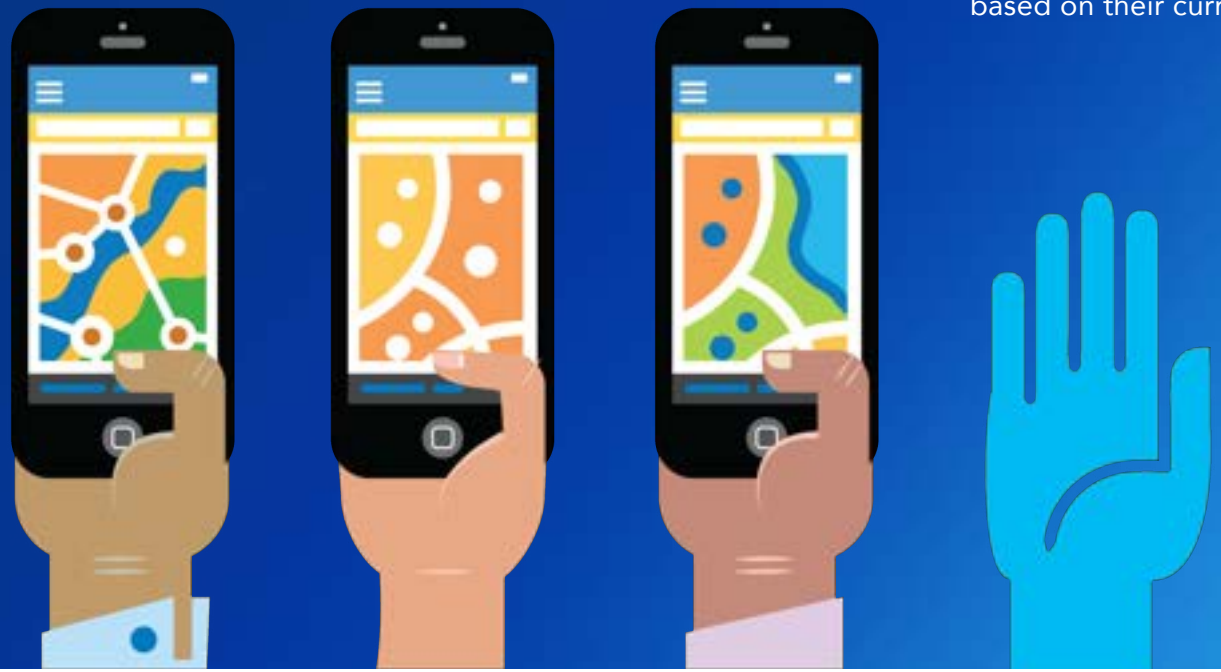
Takeaways…

SPEED most CRITICAL success FACTOR

Three other important factors

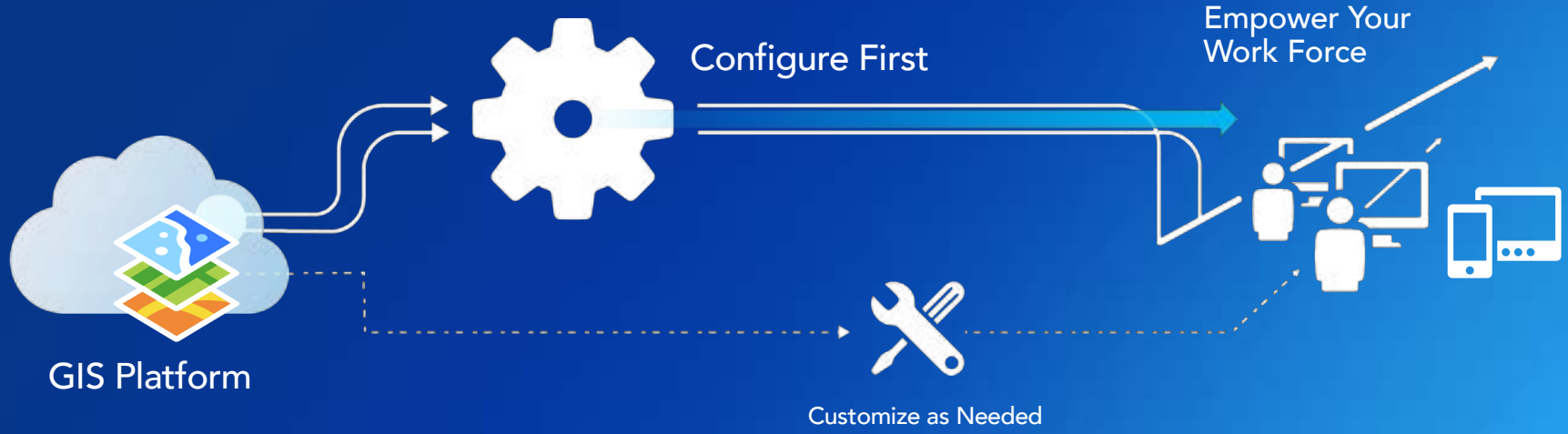
- Big-data analytics
- Technology platforms
- Operations process

Increased Demand | Location-aware apps at Work



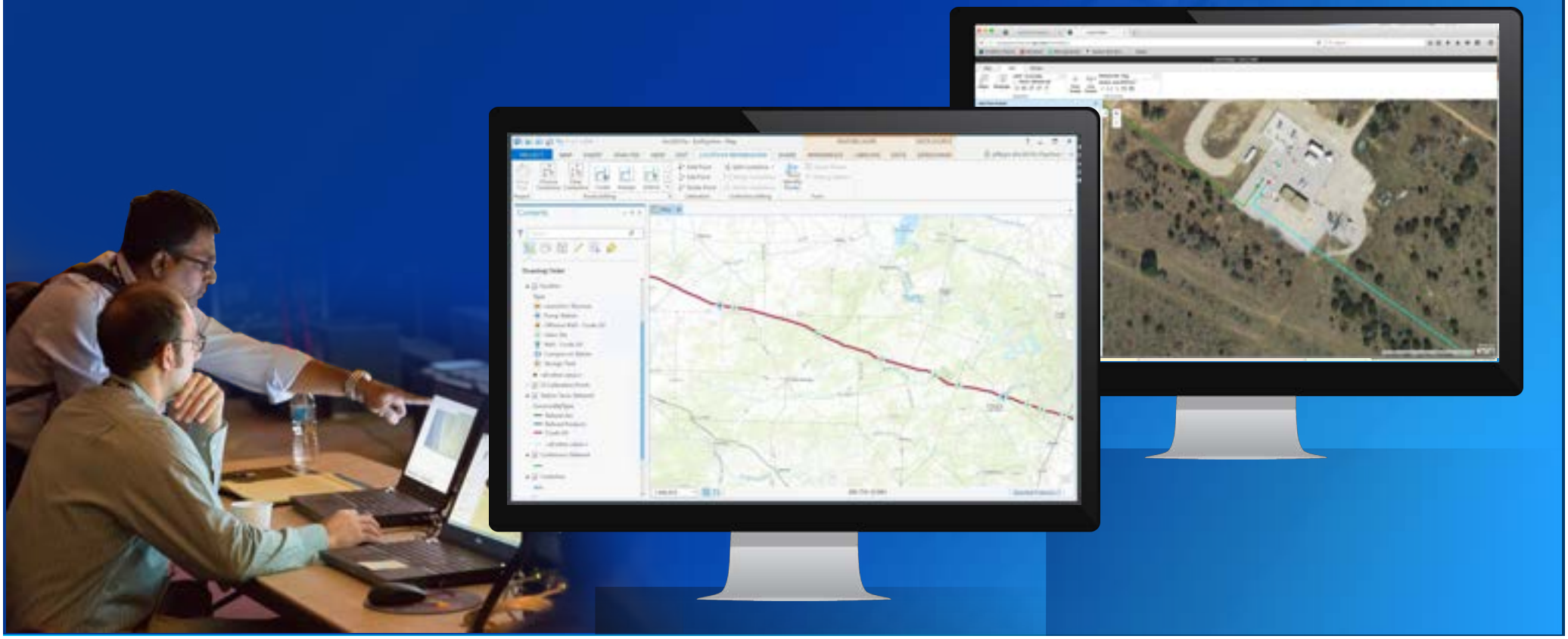
Pew Research Center
74% of adults use their smartphone to get directions or other information based on their current location

COTS Configuration | Deliver Faster Results / Reduce Risk and Cost

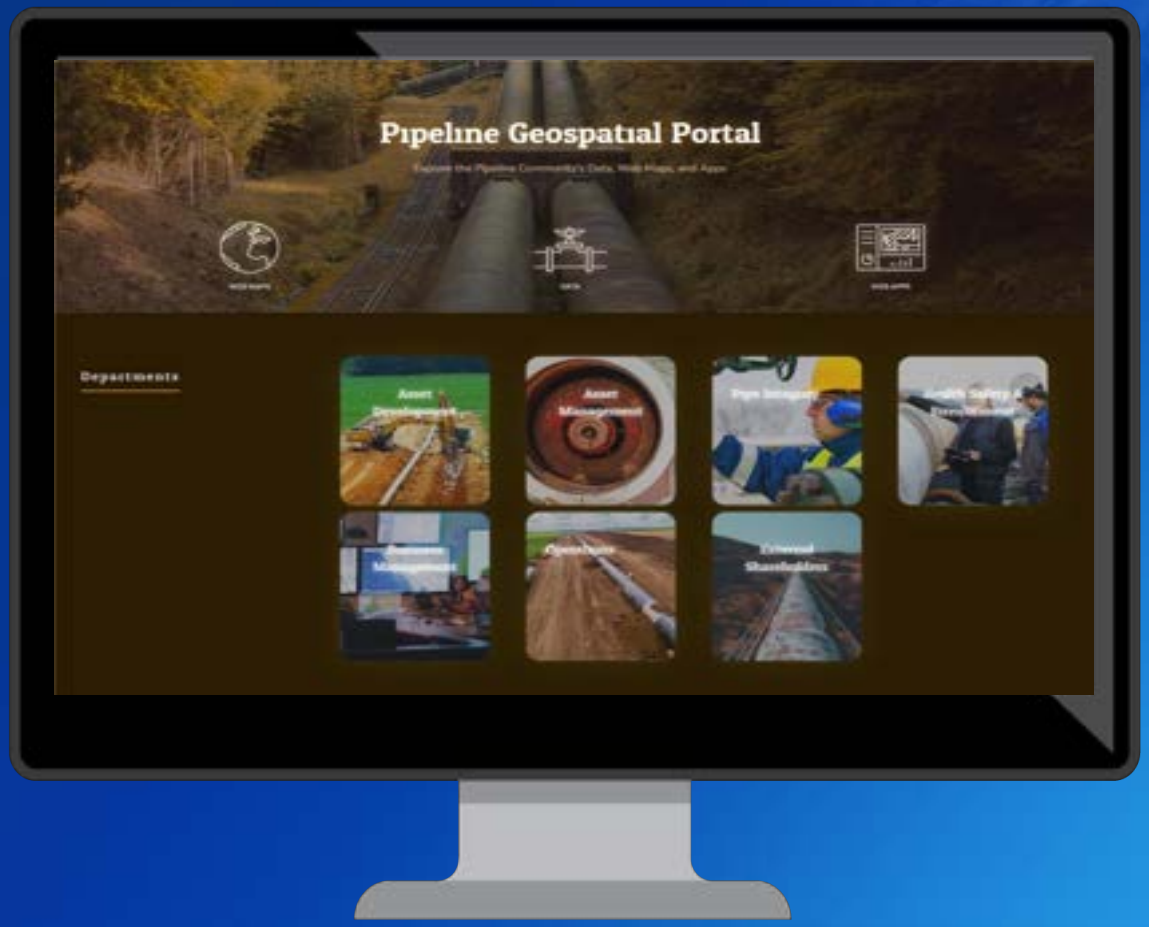


Where do we start…
Ideas to maximize the impact *and* value
of the Esri Location Intelligence Platform

GIS Professionals | Applying Geographic Science and Technologies



Create a Destination Portal | Making Readily Available Maps and Apps



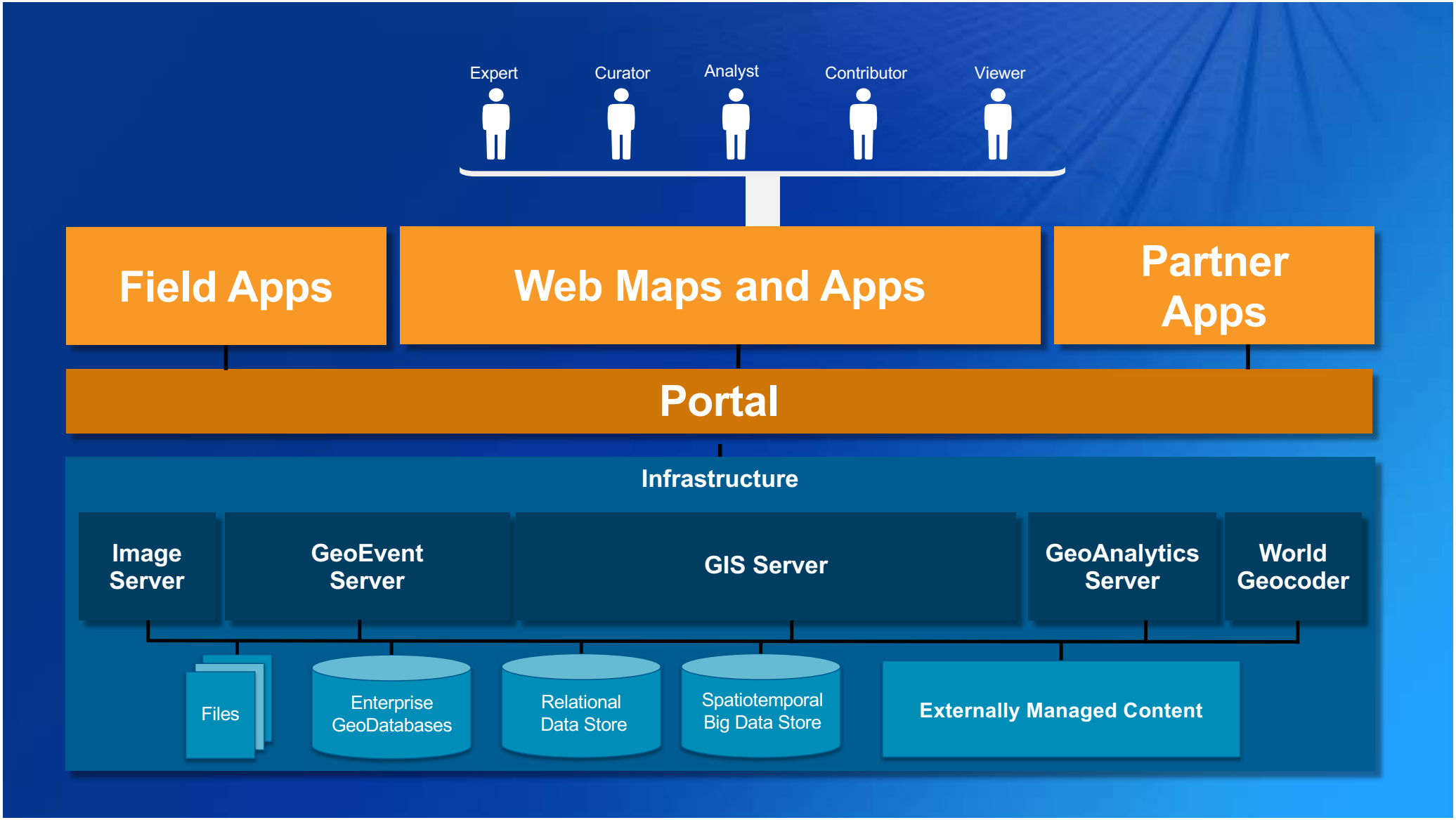
Empower the Organization with Apps | Any Device, Anywhere, Anytime

Apps that work

On any device

Apps | Extending ArcGIS Capabilities Everywhere

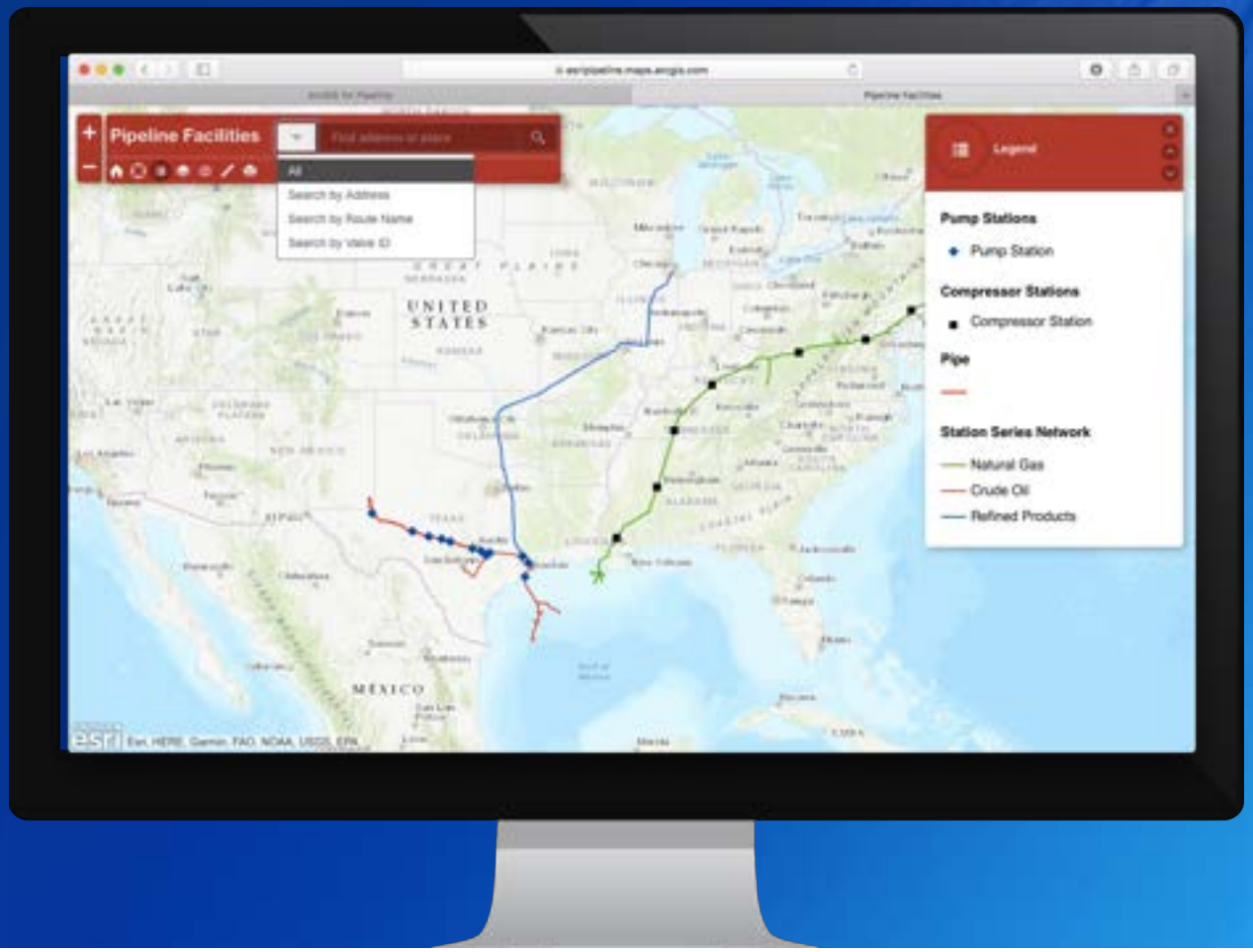
… A Core Part of the Platform
Focused, Powerful and Ready-to-Use


Expert
Curator
Analyst
Contributor
Viewer
Field Apps
Web Maps and Apps
Partner Apps
Portal
Infrastructure
Image Server
GeoEvent Server
GIS Server
GeoAnalytics Server
World Geocoder
Files
Enterprise GeoDatabases
Relational Data Store
Spatiotemporal Big Data Store
Externally Managed Content

Data Management | Utility Network Integration

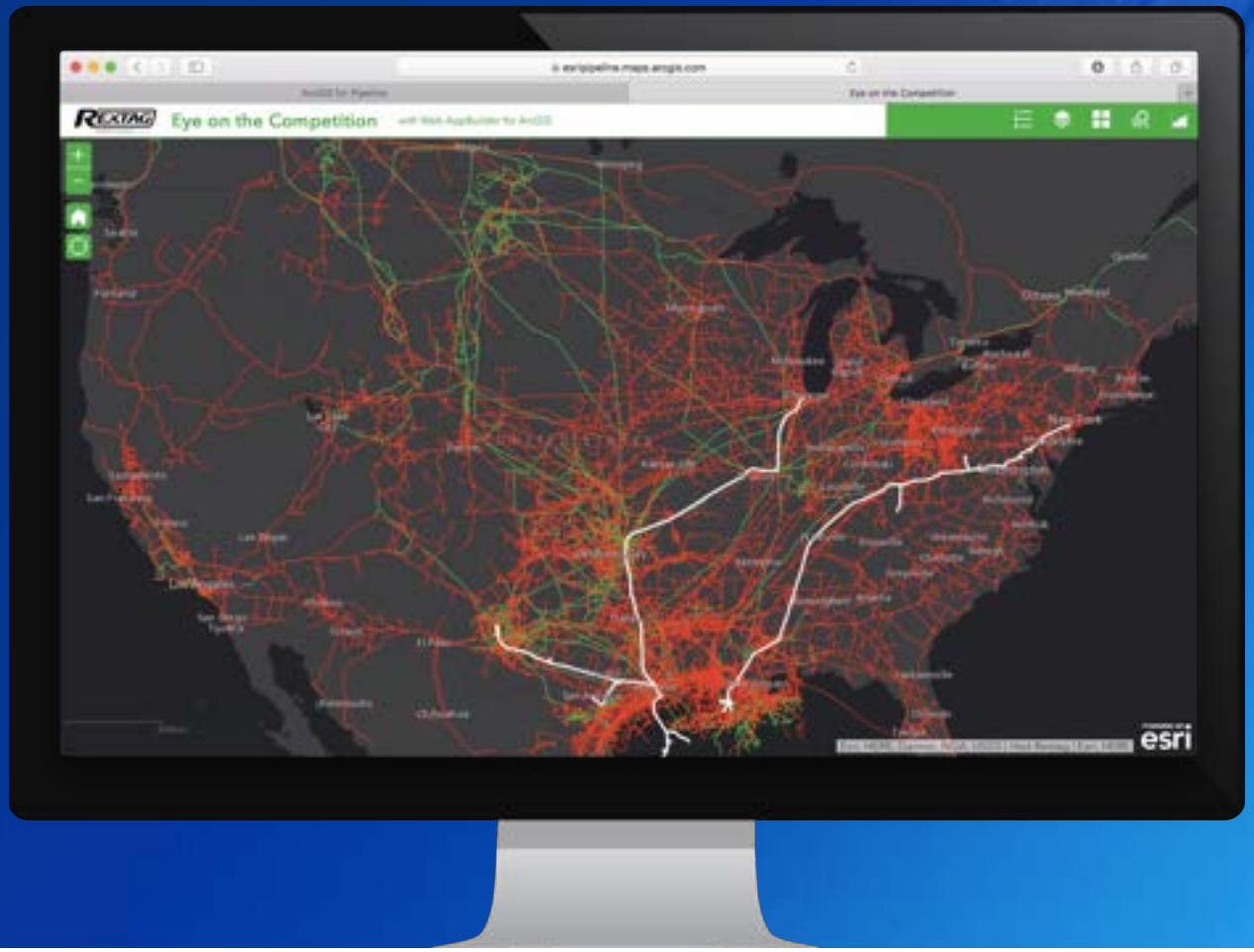
Video Example

Sharing and Collaboration | Facility Viewer



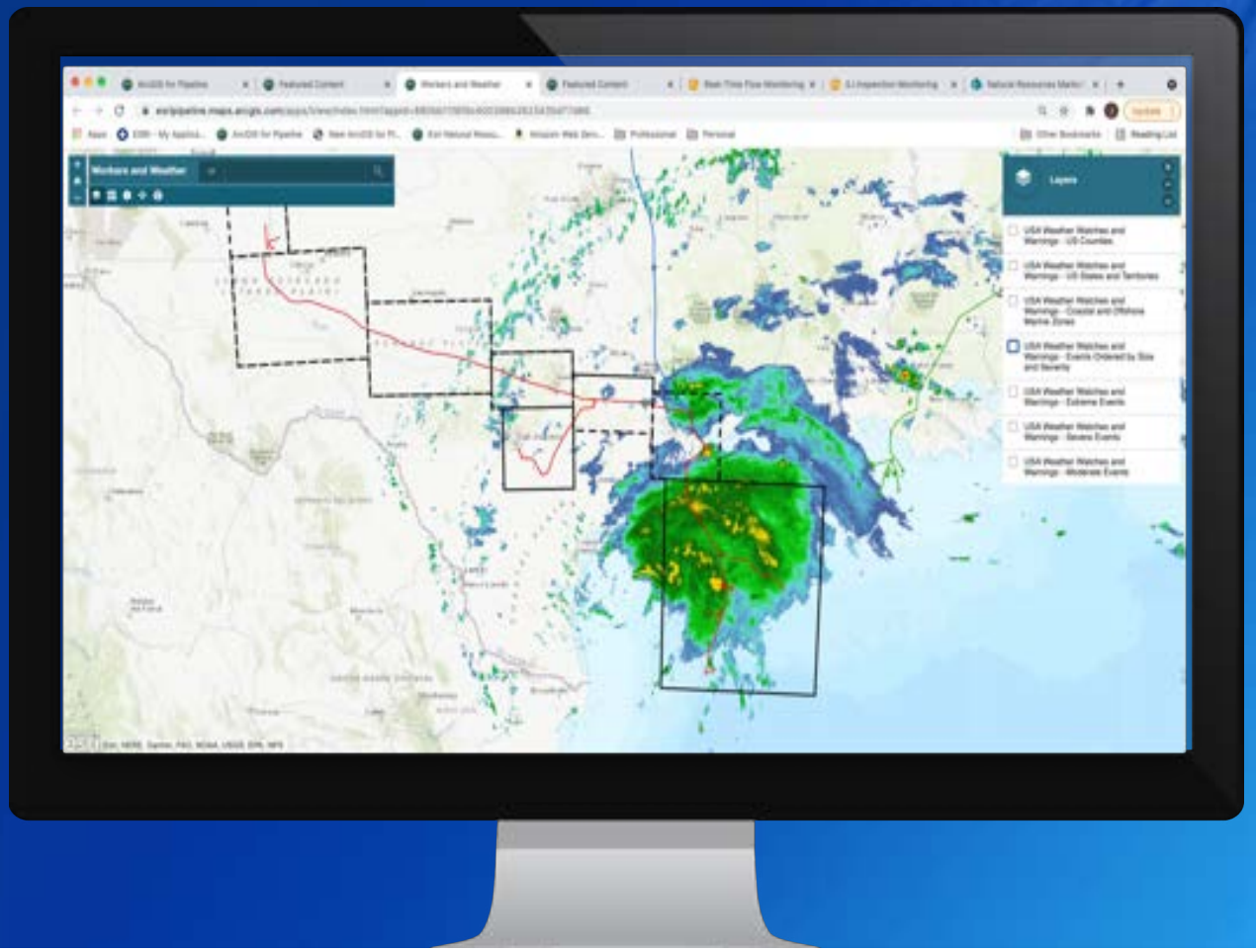
Video Example

Sharing and Collaboration | Business Enablement



Video Example

Sharing and Collaboration | Real Time Data Integration



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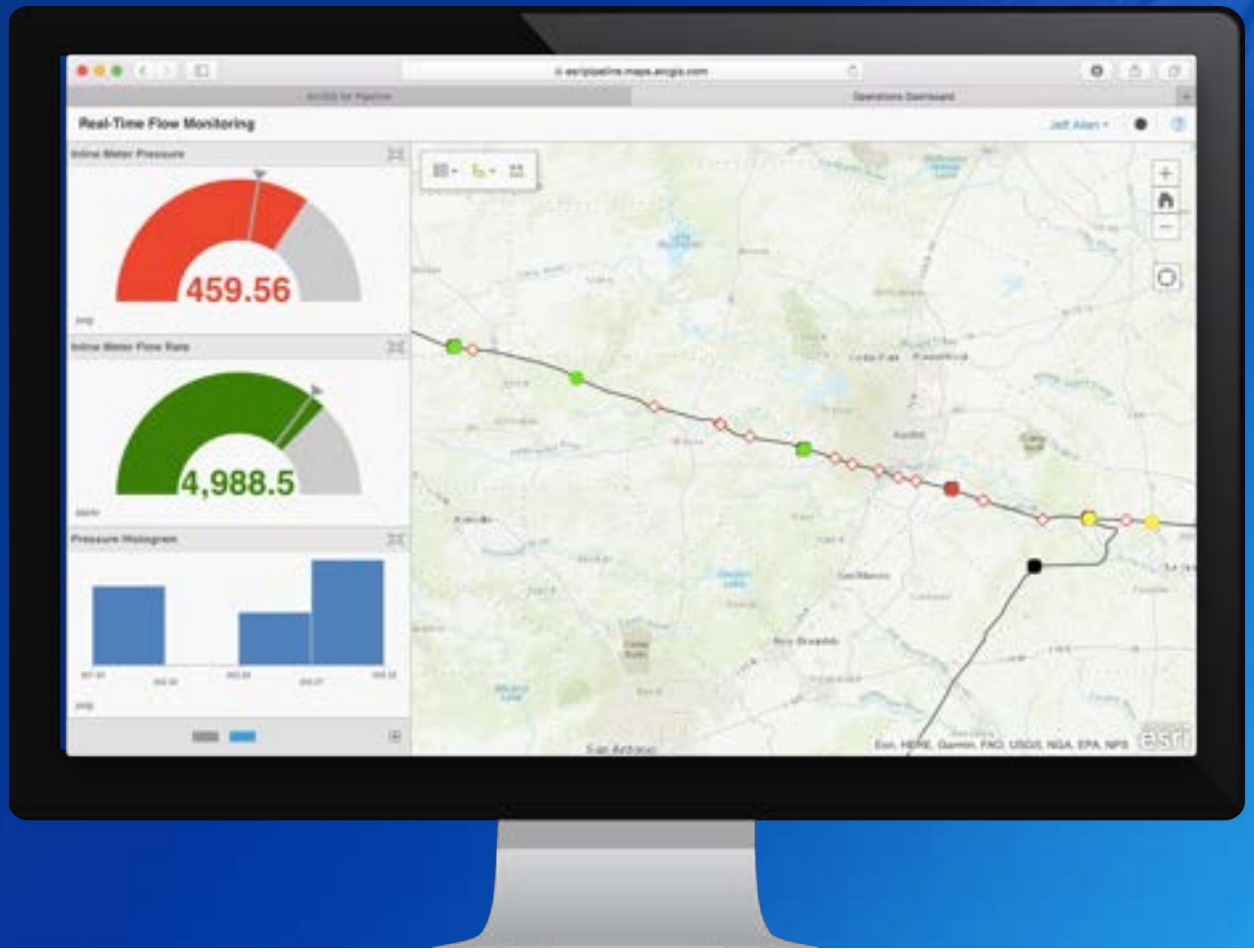
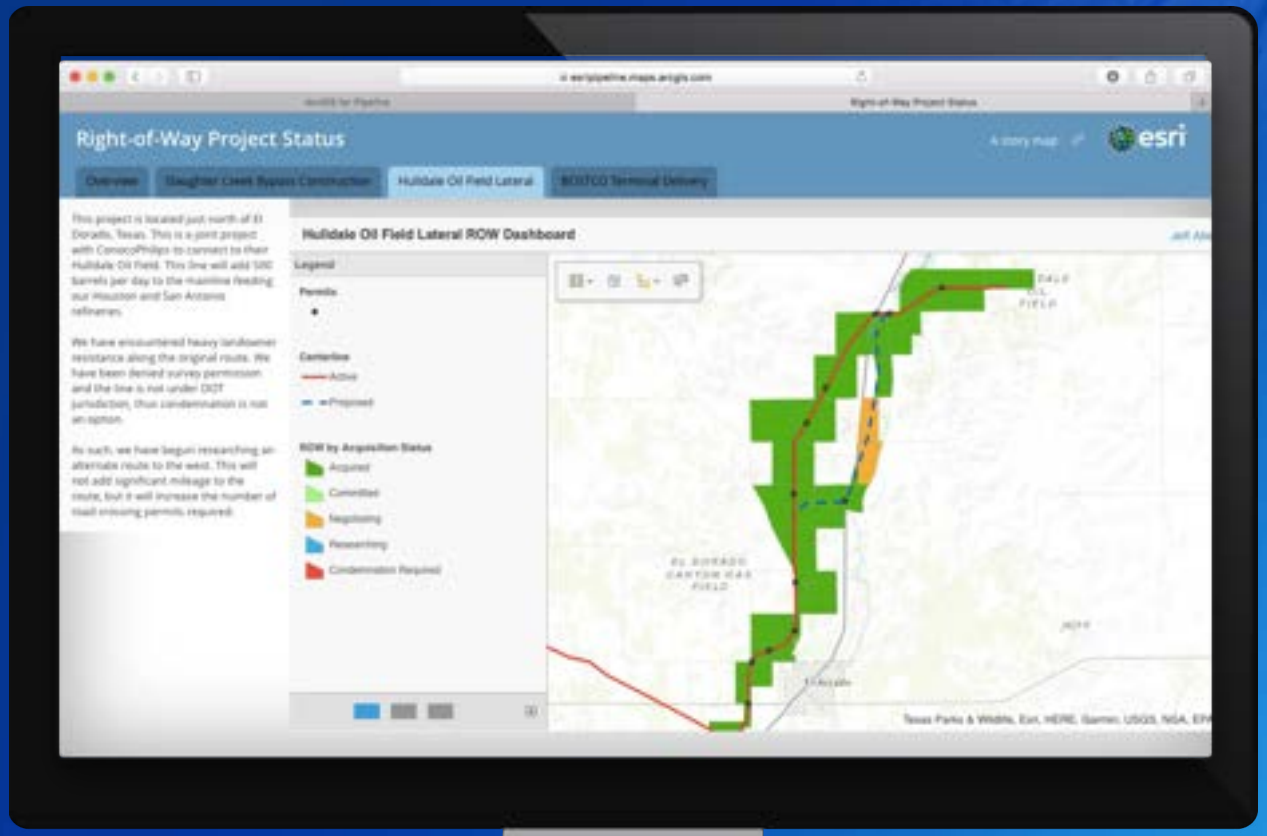


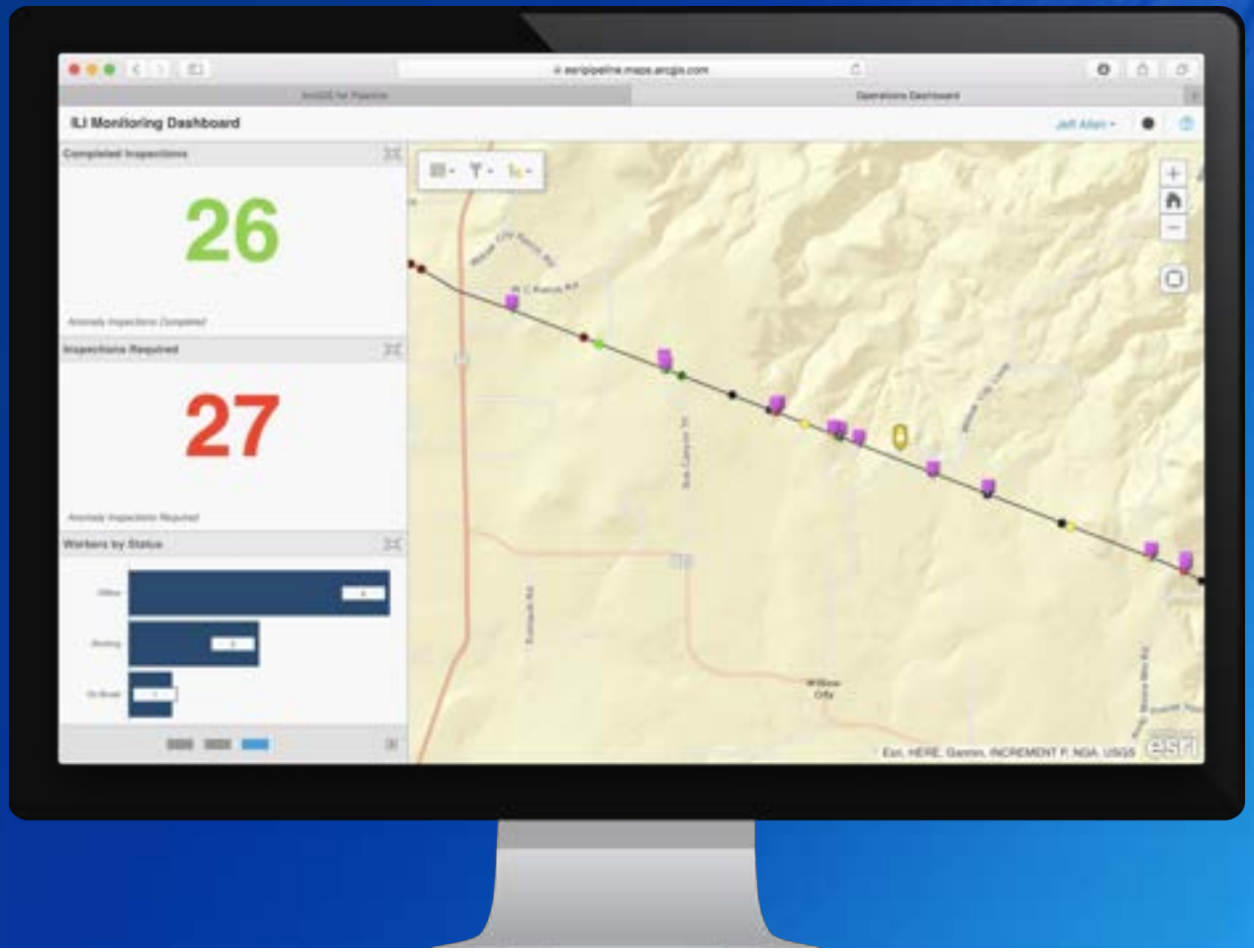
Video Example

Sharing and Collaboration | Right-of-Way Story Map



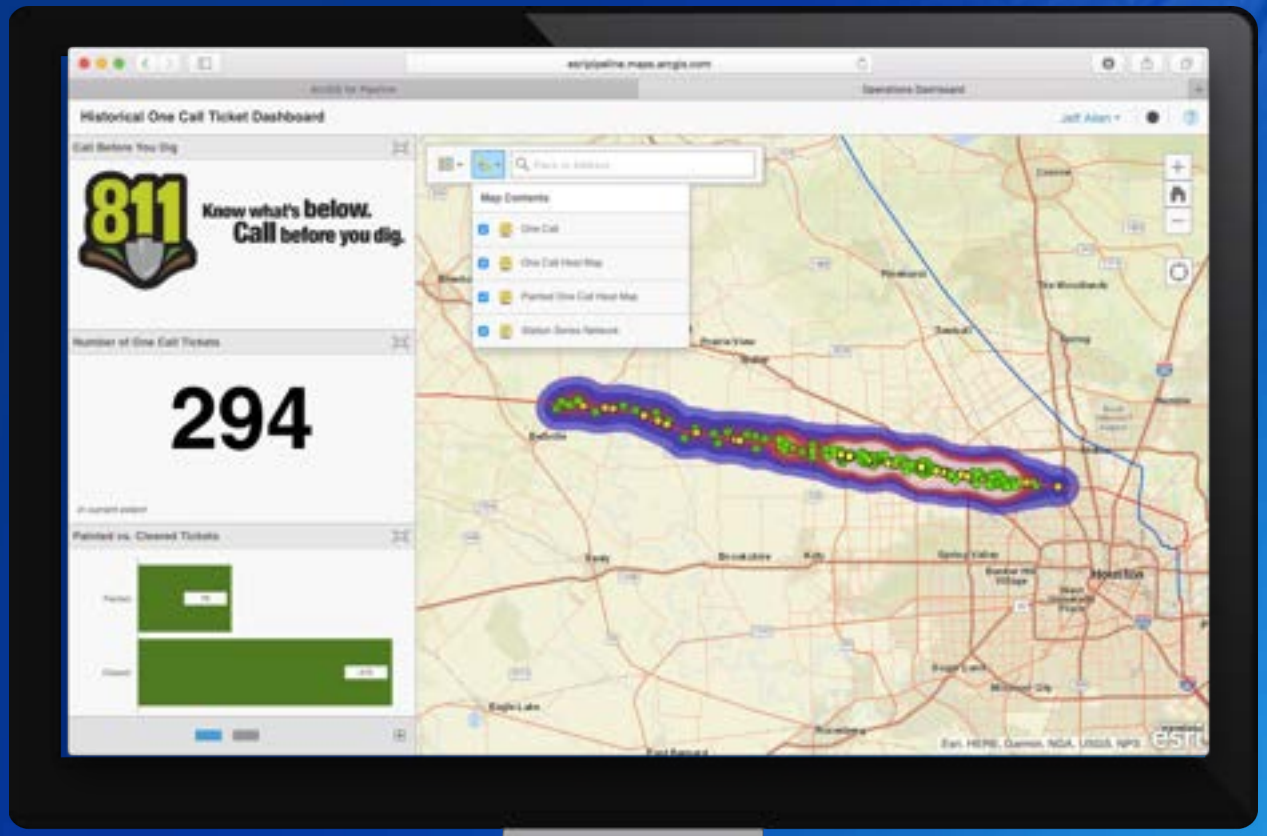
Video Example

Sharing and Collaboration | ILI Repair Monitoring Dashboard



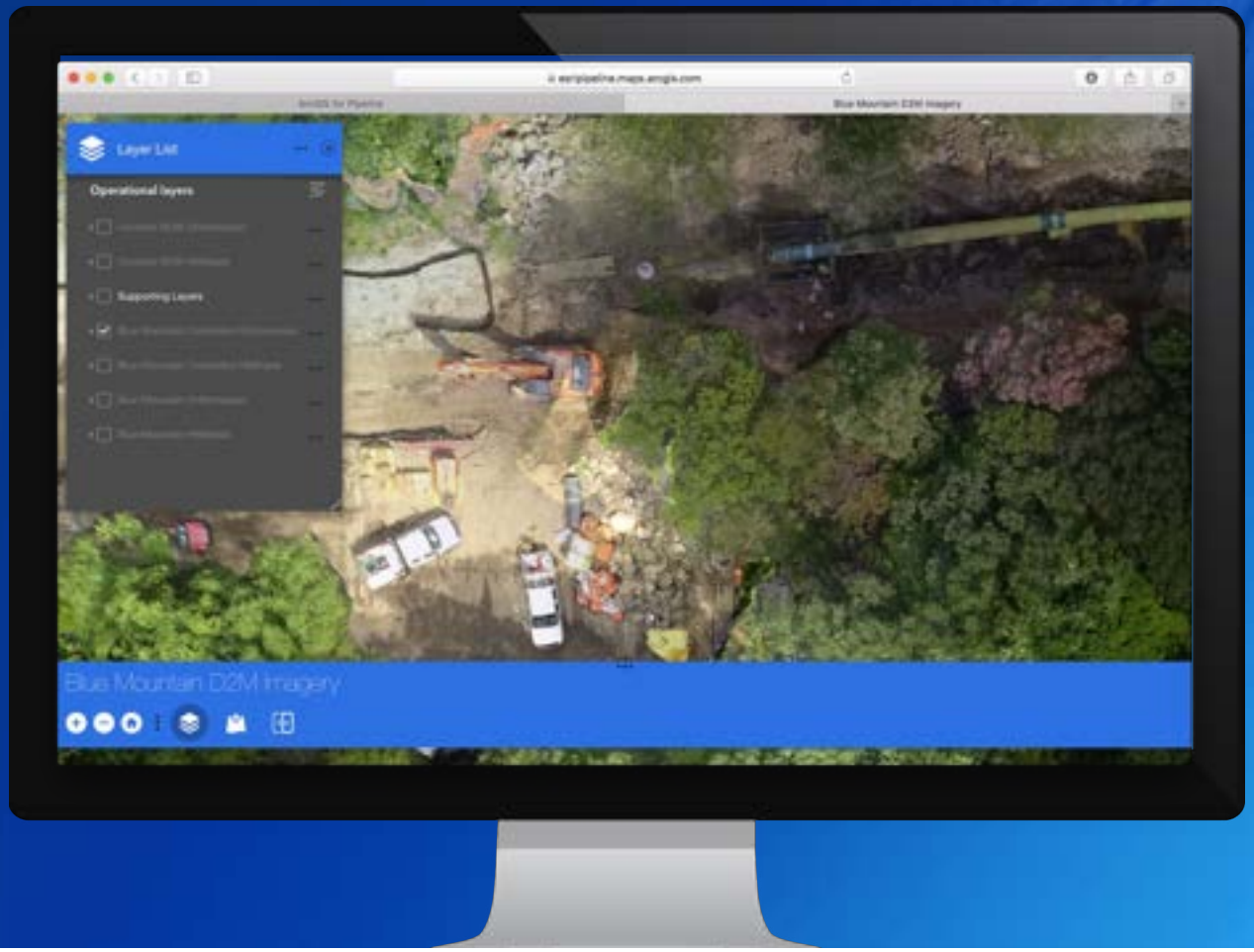
Video Example

Sharing and Collaboration | Historical One Call Ticket Dashboard



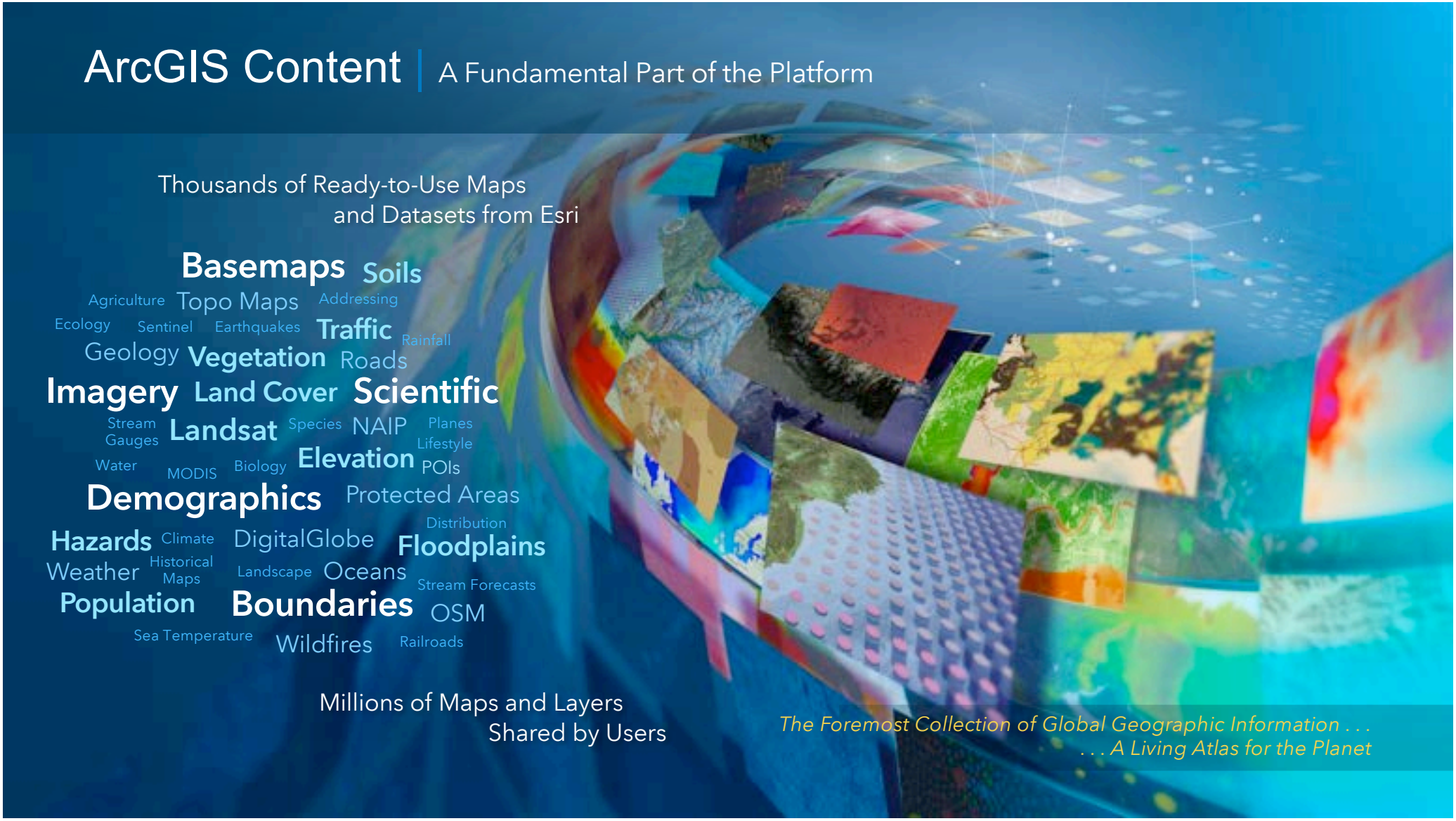
Video Example

Sharing and Collaboration | Image Capture



Video Example

ArcGIS Content | A Fundamental Part of the Platform



Promote Collaboration | Enable Secure Data Sharing

User Types | Building Blocks for Your Web GIS

Viewer

Views maps and apps to inform, make better decisions, and monitor performance.

Creator

Creates maps and apps, performs spatial analyses, and shares results through ready-to-use apps.

Editor

Edits and adds spatial data to improve accuracy and currency; ensuring authoritative information.

Field Worker

Connects the field to the office using apps for real-time data collection, tasking, and operations; improving efficiency and productivity.

GIS Professional

Builds advanced maps, visualizations, and analyses empowering everyone in the organization.

System of Insights | Perform analysis to support strategic decision making

- **understanding** *WHERE*
- **measuring** *SIZE, SHAPE, AND DISTRIBUTION*
- **determining** *HOW PLACES ARE RELATED*
- **finding** *THE BEST LOCATIONS AND PATHS*
- **detecting & quantifying** *PATTERNS*
- **making** *PREDICTIONS*

esri
Demo