

Sharing and Collaborating Better to Improve Pipeline Operations

January 19th, 2023





Nick Sines
Tallgrass Energy



Joey Grzyb
Saddle Butte Pipeline



Martie Maloney
Saddle Butte Pipeline



Phil Blondin
Boardwalk Pipeline



Tom Coolidge
Esri
Pipeline Industry Solutions Director



Jeff Allen
Esri
Global Pipeline Practice Lead



Sarah Ramirez
Esri
Solution Engineer



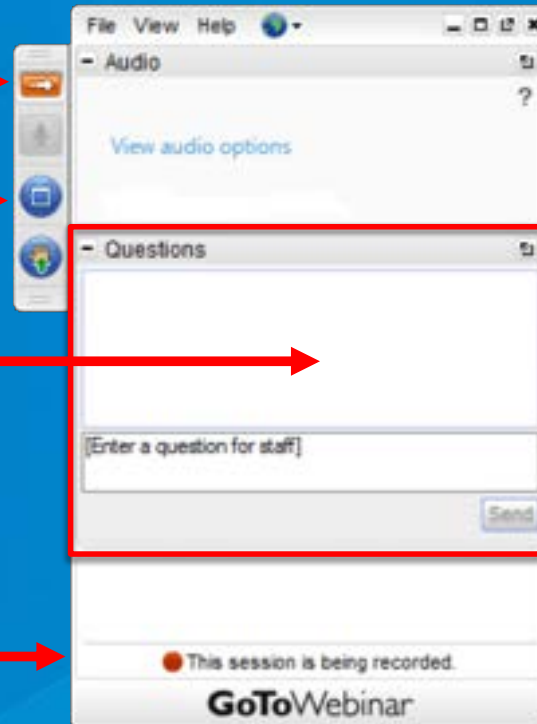
Logistics

Expand or Collapse
Your Control Panel

Adjust Your View

Ask a Question

The Webinar is
Being Recorded



Submit Your
Question

Location Intelligence | Weaving Together Essential GIS System Principles

GIS

The image features a dark blue background. In the center, the letters 'GIS' are rendered in a large, bold, white sans-serif font. These letters are integrated into a complex, three-dimensional structure of three interlocking, wavy ribbons. The ribbons are a golden-brown color with a fine, grid-like texture. Each ribbon curves away from the center towards the right side of the frame. The top ribbon is labeled 'System of Engagement', the middle ribbon is labeled 'System of Insight', and the bottom ribbon is labeled 'System of Record'. The labels are in a white, italicized sans-serif font, following the curve of their respective ribbons.

System of Engagement

System of Insight

System of Record

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

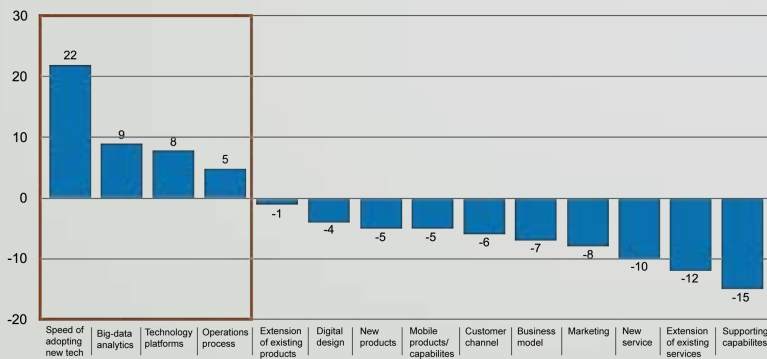
”66% of enterprises rank **Location Intelligence** as either **critical** or **very important** to ongoing revenue growth strategies”

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

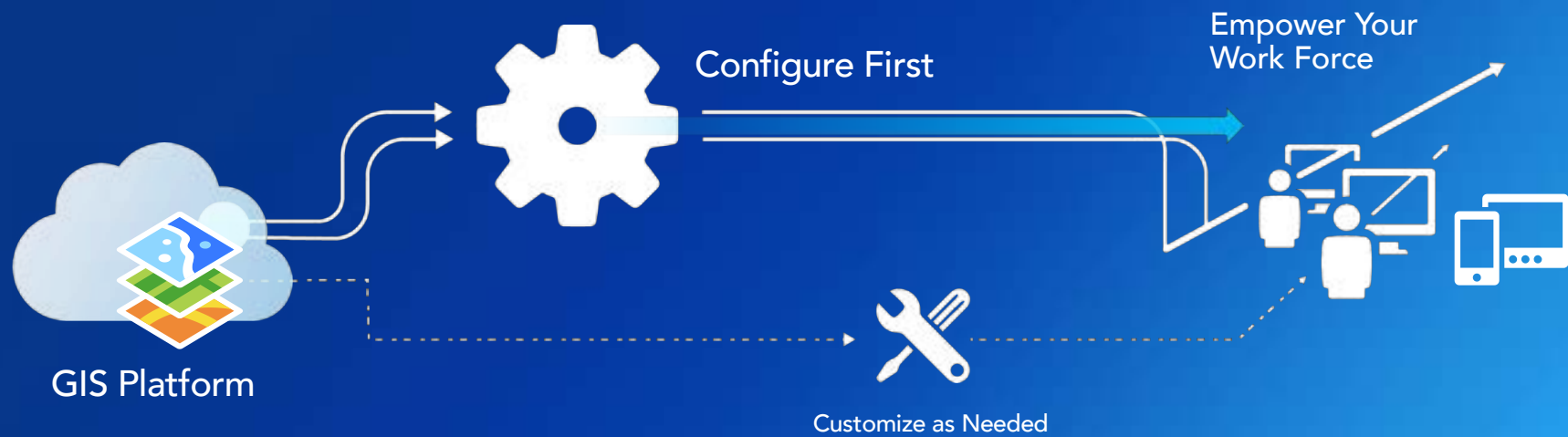
Increased Demand | Location-aware apps at Work



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

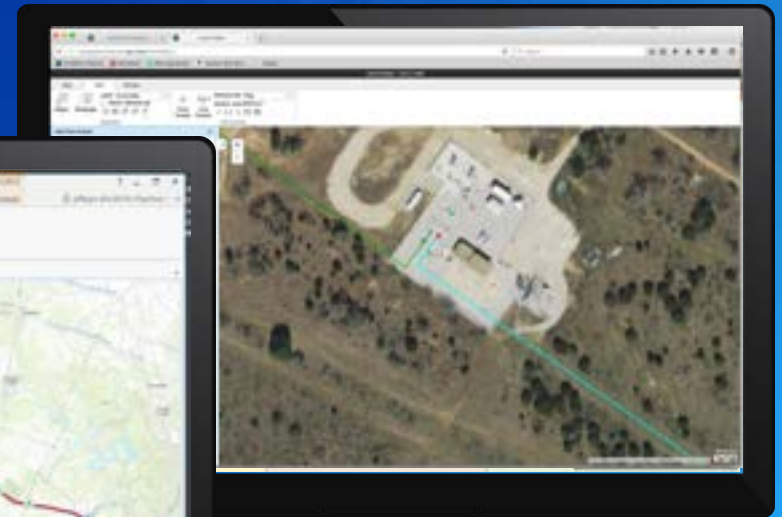
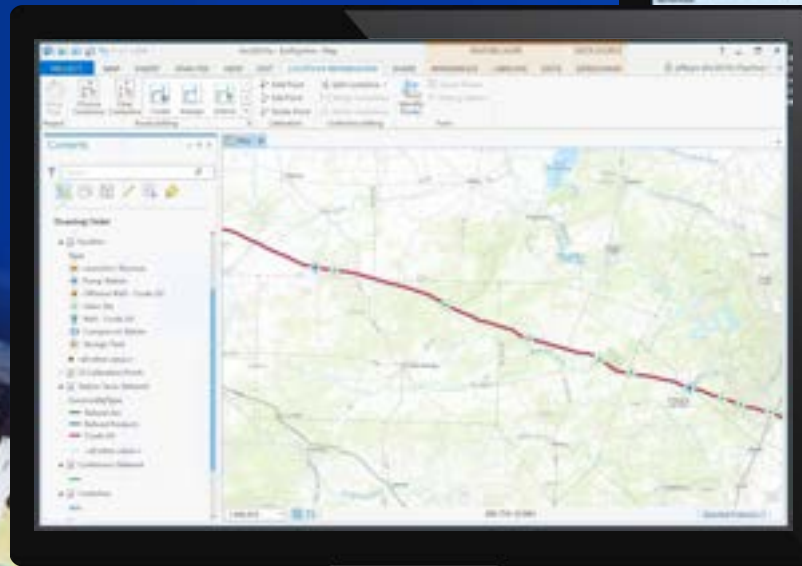


An illustration of a person hiking on a trail. The person is seen from behind, wearing a dark jacket and blue pants, holding a smartphone in their right hand and a hiking pole in their left. They are standing on a dirt path that winds through a lush, green landscape. In the background, a city with several tall buildings is visible, nestled in a valley. Beyond the city, there are rolling hills and mountains under a soft, hazy sky. The overall scene suggests a connection between nature, urban development, and technology.

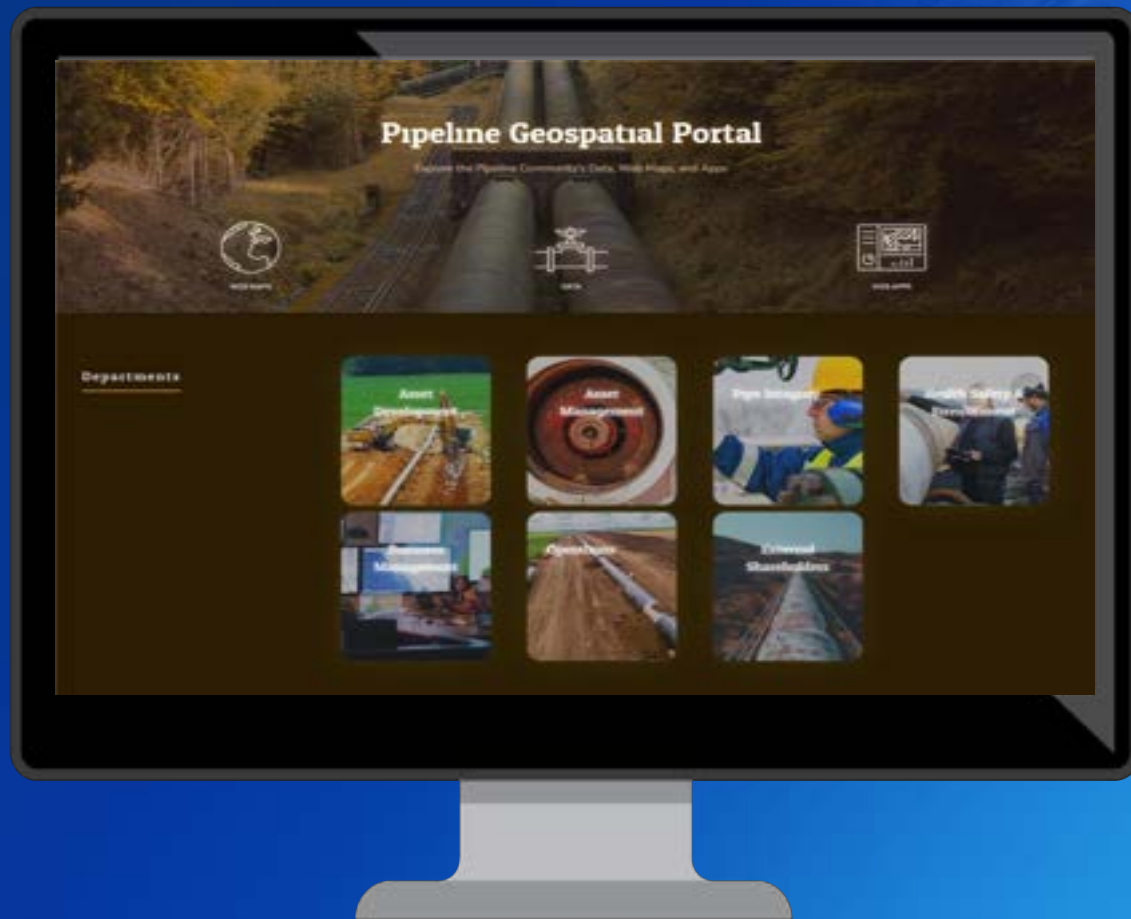
Where do we start...

Ideas to maximize the impact *and* value
of the Esri Location Intelligence Platform

GIS Professionals | Applying Geographic Science and Technologies



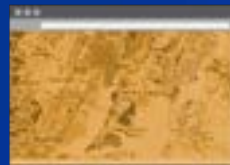
Create a Destination Portal | Making Readily Available Maps and Apps



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

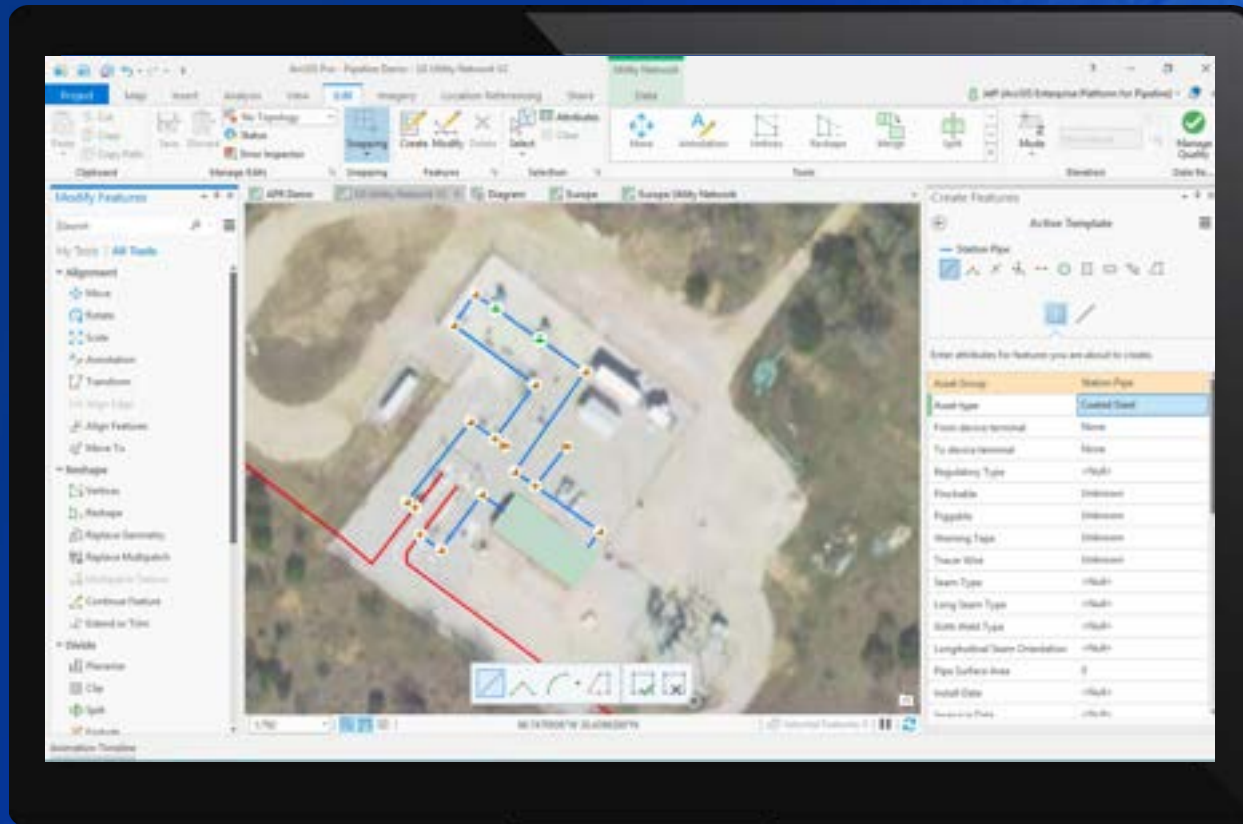
Enterprise GeoDatabases

Relational Data Store

Spatiotemporal Big Data Store

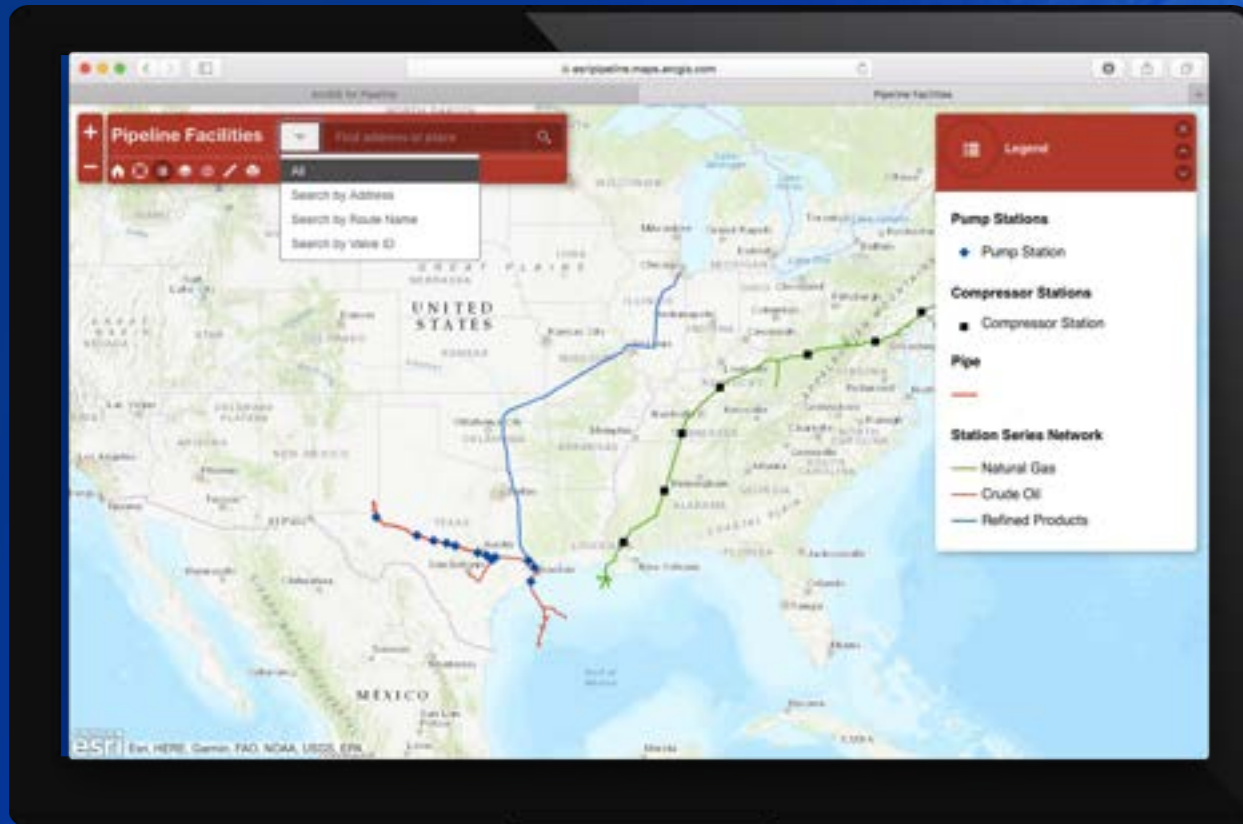
Externally Managed Content

Data Management | Utility Network Integration



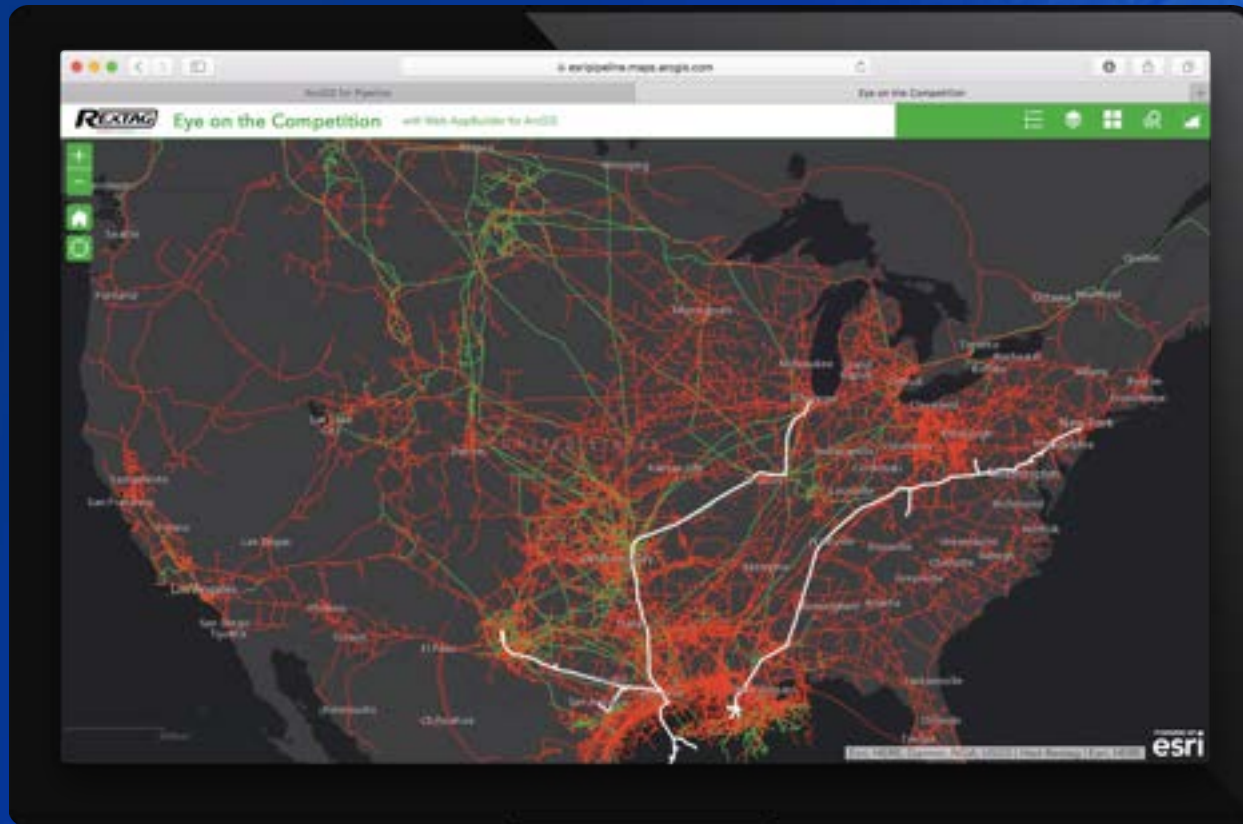
Video Example

Sharing and Collaboration | Facility Viewer



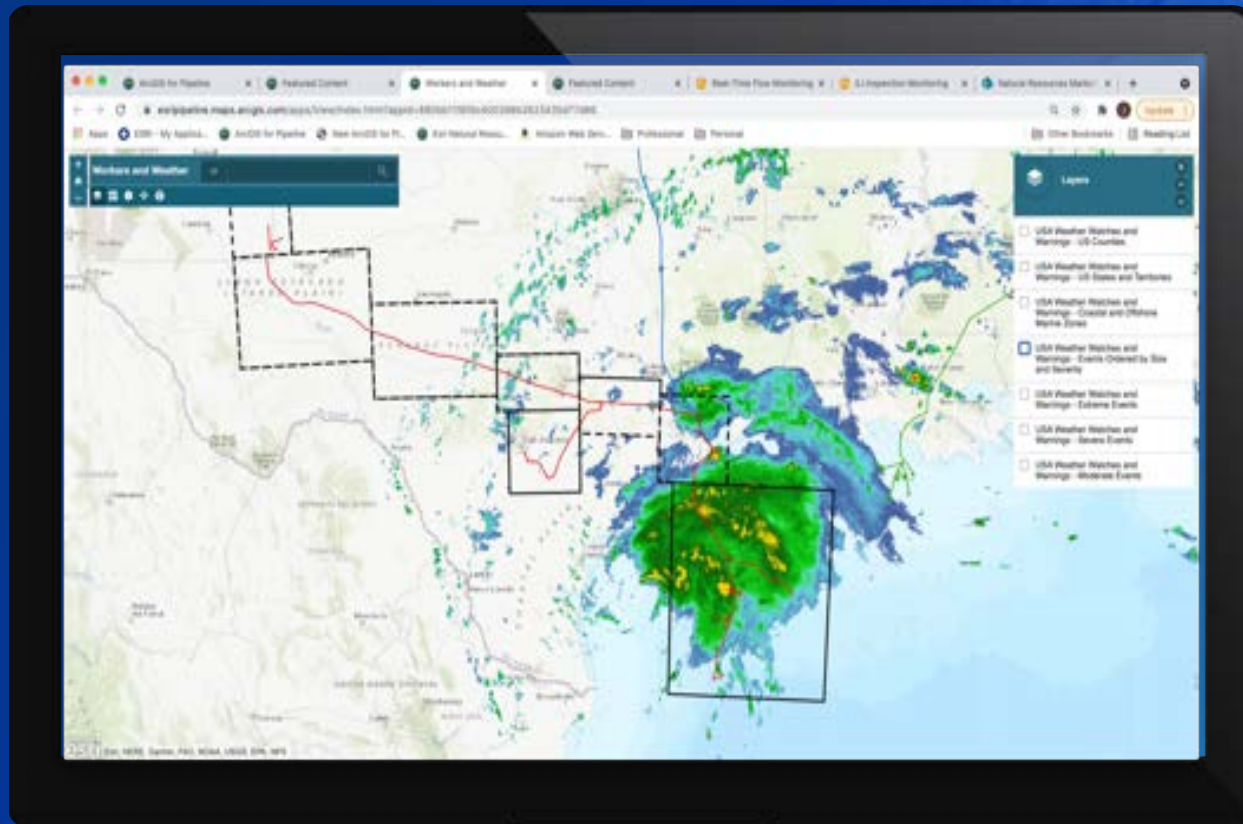
Video Example

Sharing and Collaboration | Business Enablement

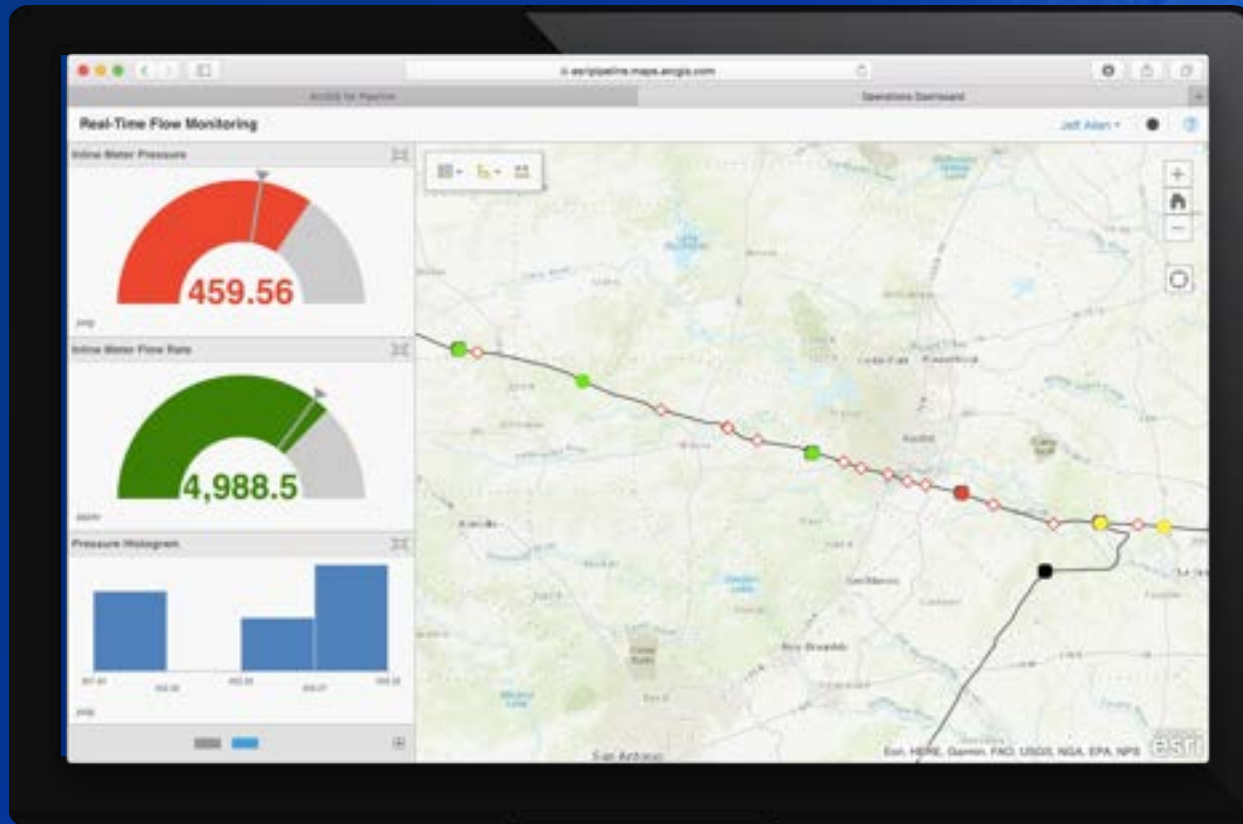


Video Example

Sharing and Collaboration | Real Time Data Integration

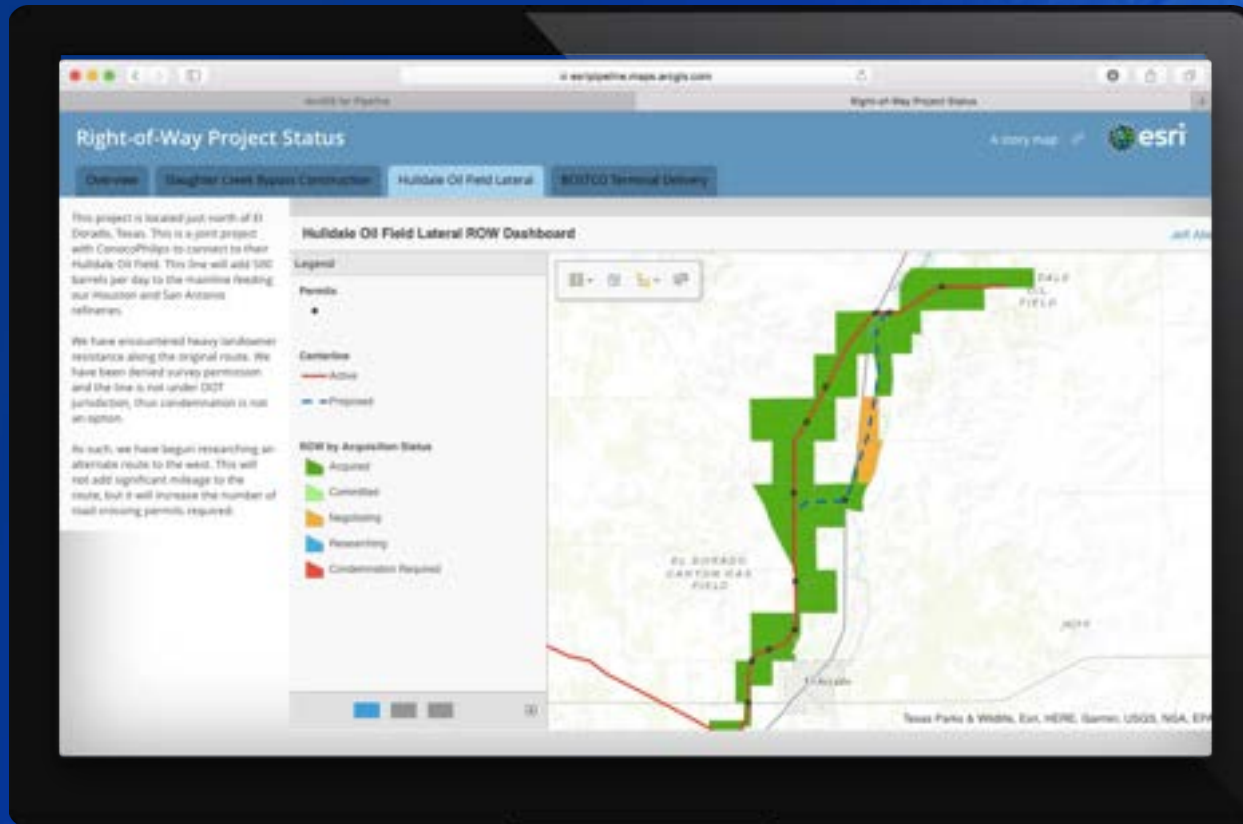


Sharing and Collaboration | Real Time Data Integration



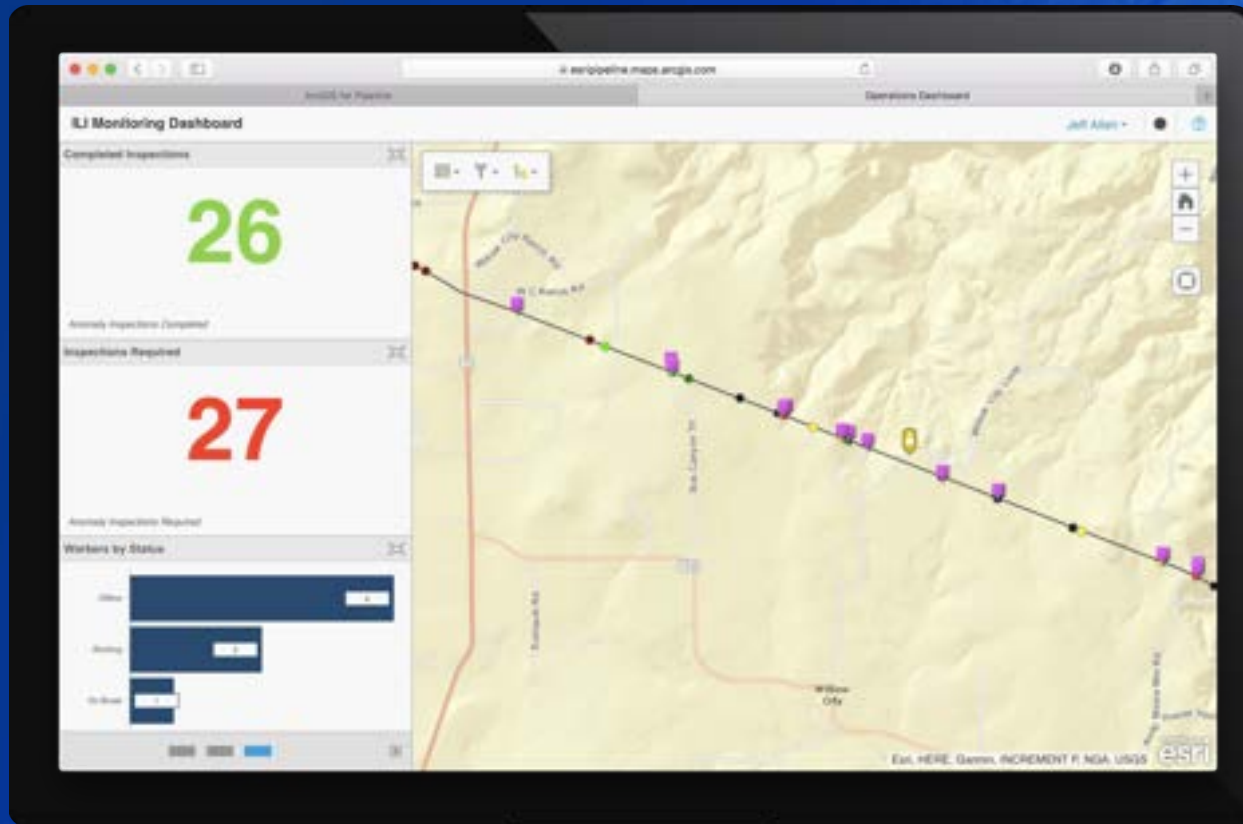
Video Example

Sharing and Collaboration | Right-of-Way Story Map



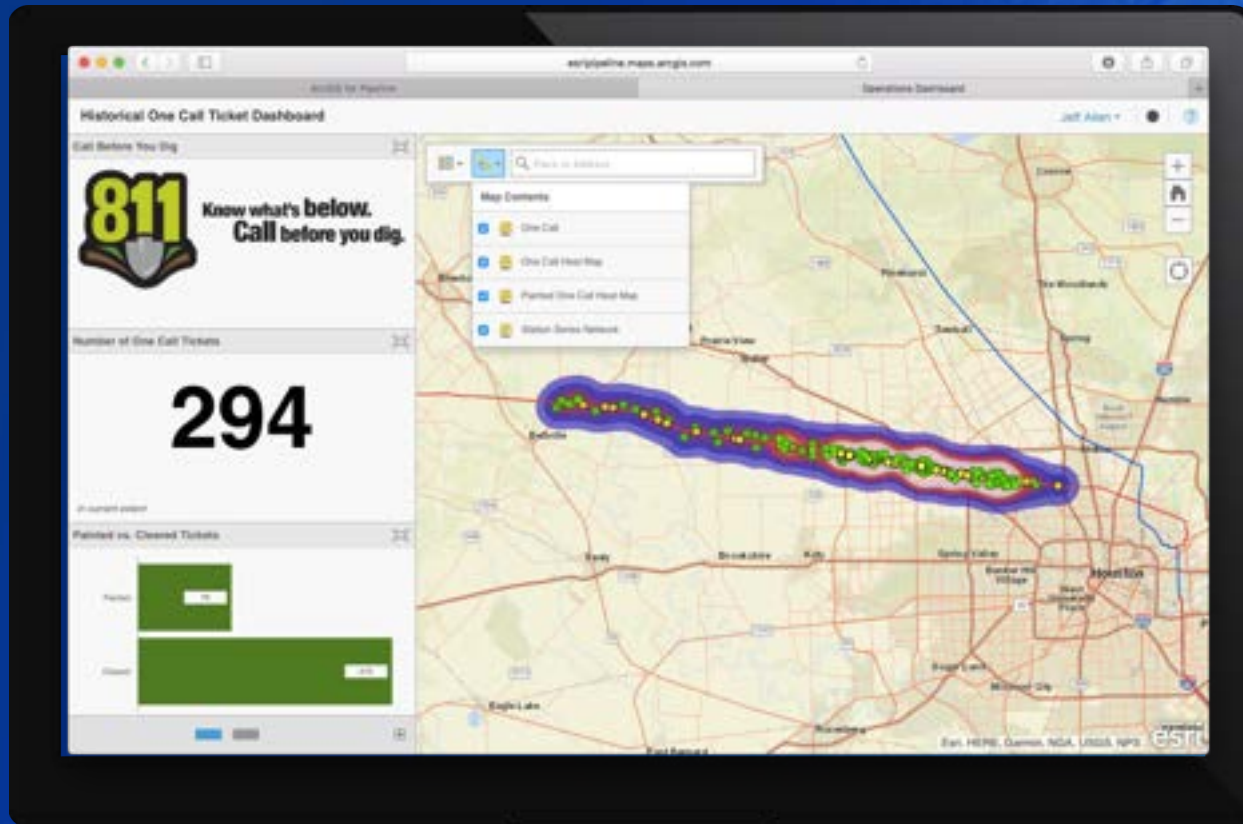
Video Example

Sharing and Collaboration | ILI Repair Monitoring Dashboard



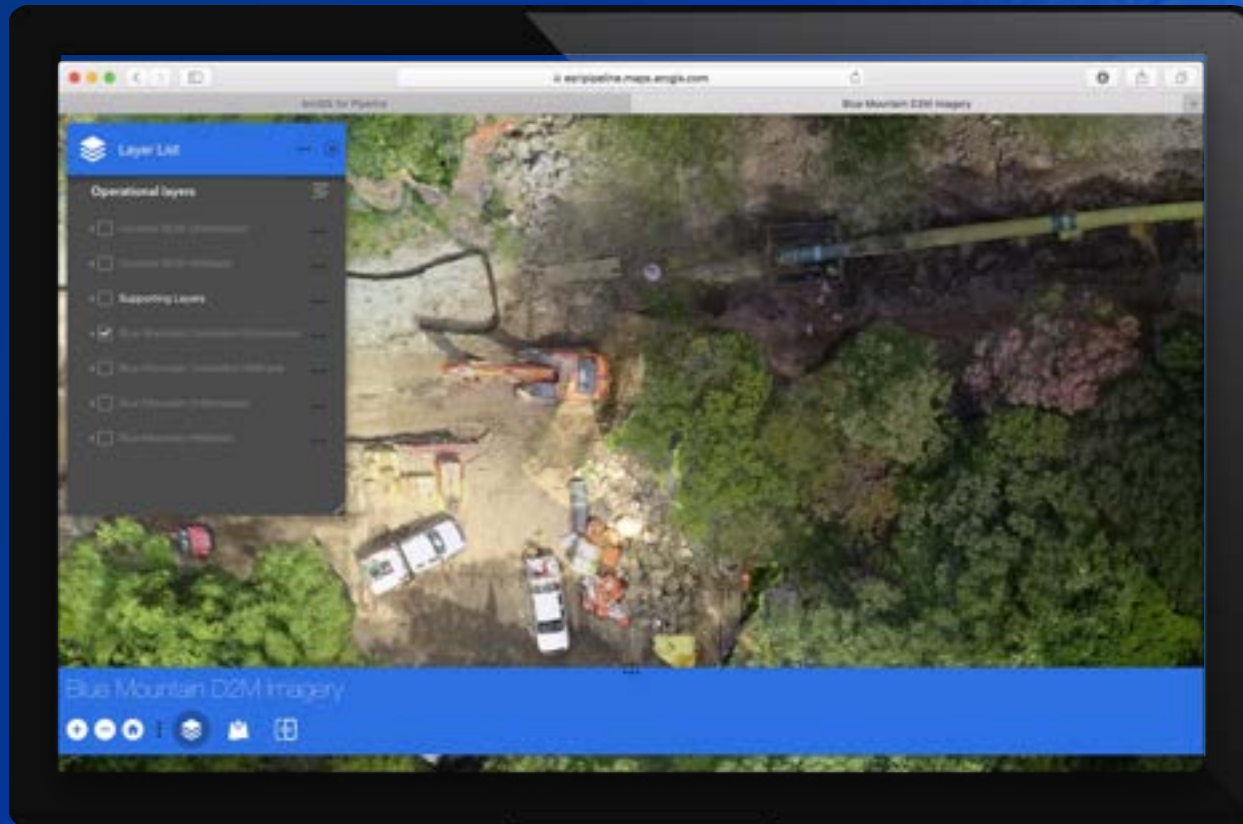
Video Example

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

Thousands of Ready-to-Use Maps
and Datasets from Esri

Basemaps **Soils**
Agriculture Topo Maps Addressing
Ecology Sentinel Earthquakes **Traffic** Rainfall
Geology **Vegetation** Roads
Imagery **Land Cover** **Scientific**
Stream Gauges **Landsat** Species NAIP Planes Lifestyle
Water MODIS Biology **Elevation** POIs
Demographics Protected Areas
Hazards Climate DigitalGlobe **Floodplains** Distribution
Weather Historical Maps Landscape Oceans Stream Forecasts
Population **Boundaries** OSM
Sea Temperature Wildfires Railroads

Millions of Maps and Layers
Shared by Users

*The Foremost Collection of Global Geographic Information . . .
. . . A Living Atlas for the Planet*

Promote Collaboration | Enable Secure Data Sharing



Naveen
Executive

ACCESS
FUNCTIONALITY



Meghan
IT

ACCESS
FUNCTIONALITY



Manny
Accounting

ACCESS
FUNCTIONALITY



David
Field Ops

ACCESS
FUNCTIONALITY



Kristin
Human
Resources

ACCESS
FUNCTIONALITY



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





Demo

