The Age of the LOCATION PLATFORM

How Mapping and GIS are Transforming the Work Environment

Robert Rodriguez

Who We Are

Environmental Systems Research Institute – Esri

- We are an industry-leading software company that helps organizations manage, map, analyze, and leverage their location-based information
- Through our platform, called ArcGIS, we enable organizations around the world to support their Water, Sewer, and Stormwater Organizations
- We provide self service mapping and analysis tools to empower non-technical users
- Philosophy of “configure first, customize second” provides flexibility to your organization for now and in the future
- Flexible patterns of deployment (on premise, in the cloud, managed services)

Summary of Objectives

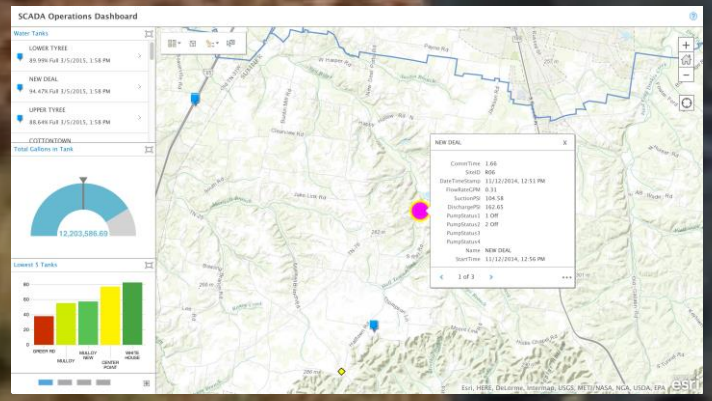
▶ Life of an Operator

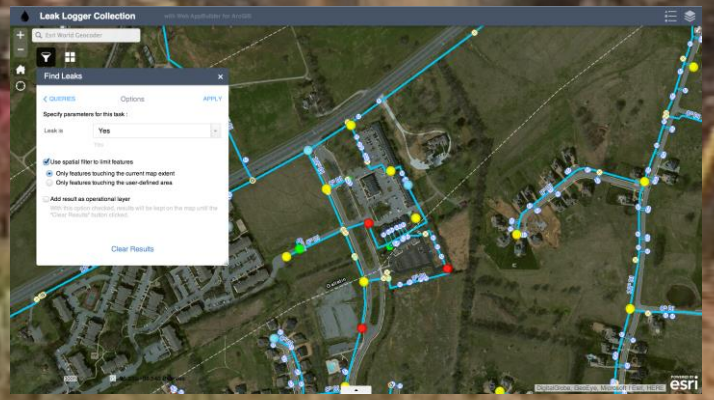
- Meeting Regulatory Requirements
- Reducing O & M Expenditures
- Work Activity
- Main Breaks
- Water Loss/Leaks
- Data Currency
- Accuracy
- Managing your aging infrastructure

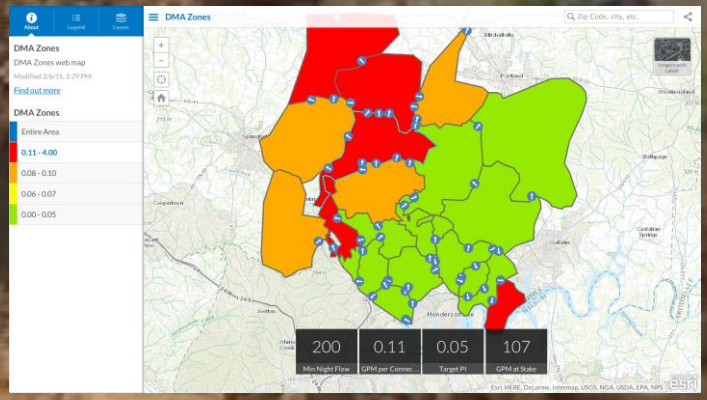
Summary of Challenges

▶ Life of an Operator

- Lack of Appropriate Information Access
- Aging Infrastructure
- Workforce Reduction
- Multiple Systems of Record
- Budget Restrictions
- Contractor Management
- Seasonal Fluctuation
- Field to Office Inefficiency
- Operational Awareness of Workforce

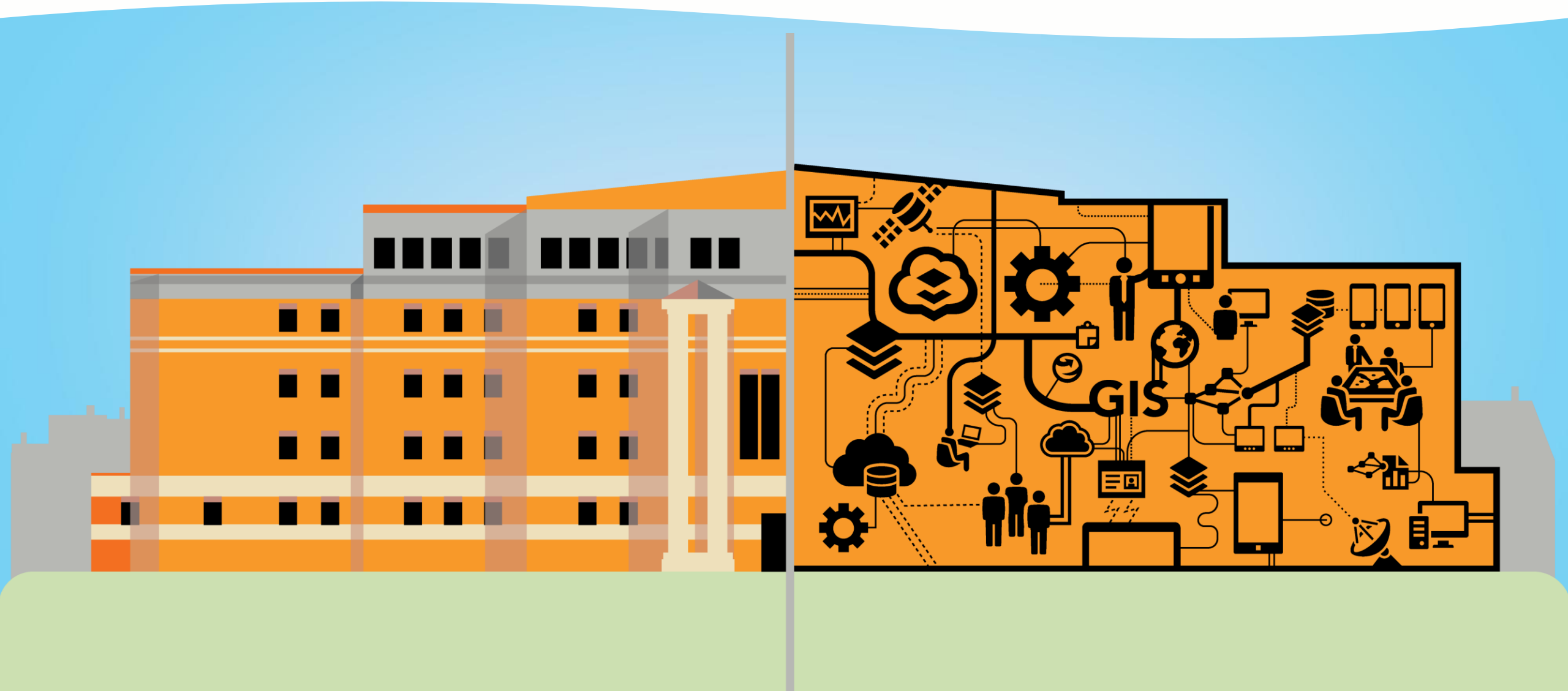

SCADA Operations Dashboard
Water Tanks
LOWER TYREE
NEW DEAL
UPPER TYREE
Total Gallons in Tank
12,203,586.69
Lowest 5 Tanks
NEW DEAL


Leak Logger Collection
Find Leaks
Options
Specify parameters for this task:
Leak is
Yes
Use spatial filter to limit features
Only features touching the current map extent
Only features touching the user-defined area
Add result as operational layer
Clear Results


DMA Zones
DMA Zones web map
Find out more
DMA Zones
Entire Area
0.11 - 4.00
0.08 - 0.10
0.06 - 0.07
0.00 - 0.05
200
Min Night Flow
0.11
GPM per Connec
0.05
Target PI
107
GPM at Stake

GIS is a “System of Record”

- Organizing and managing the geographic context of your assets and resources

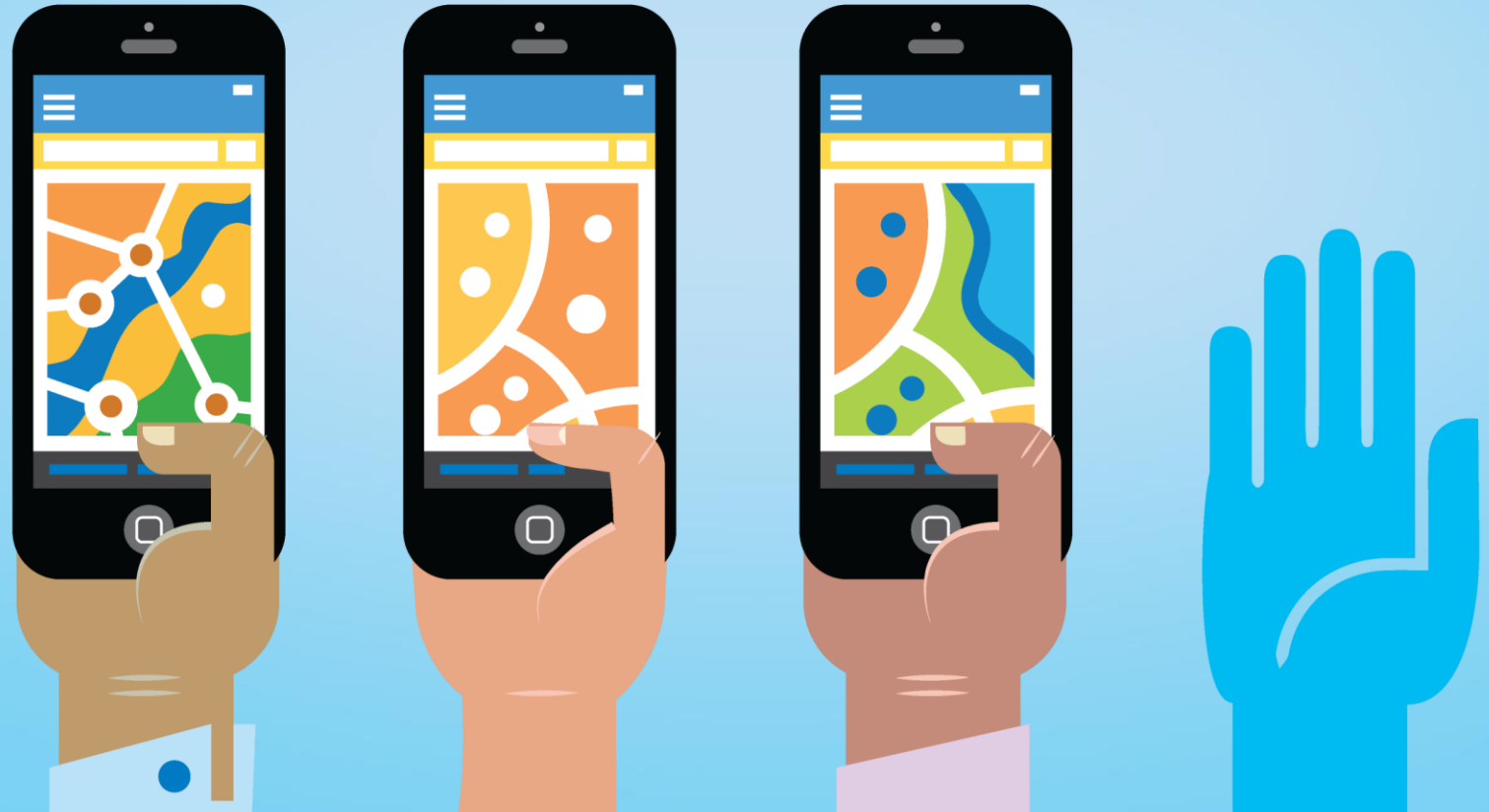


Is that authoritative knowledge
reaching the entire workforce?

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

Pew Research Center

90% of adults use their smartphone to get directions or other information based on their current location



People Use Maps at Work

- But confusion results when maps are **not** generated from your authoritative information

one corporate system

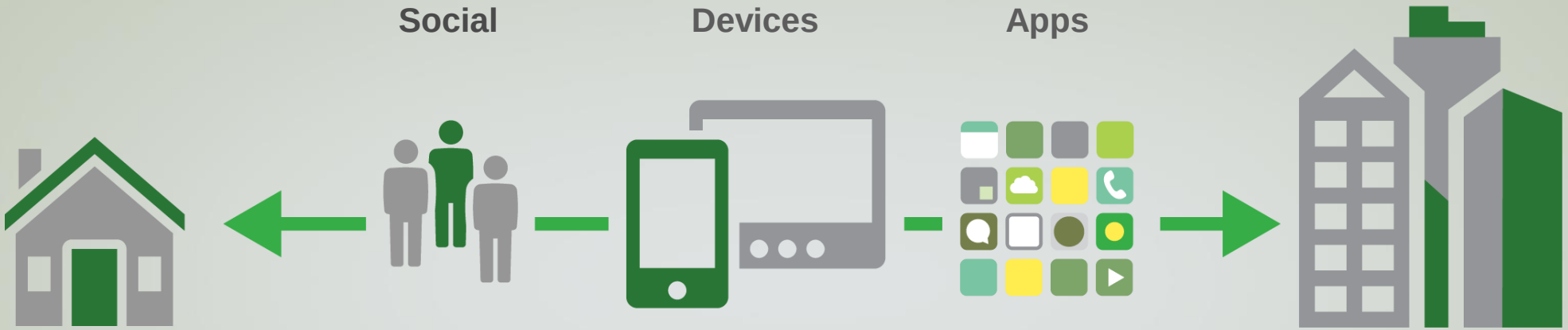
no user limitations

3-clicks or less

uniformity in all their maps

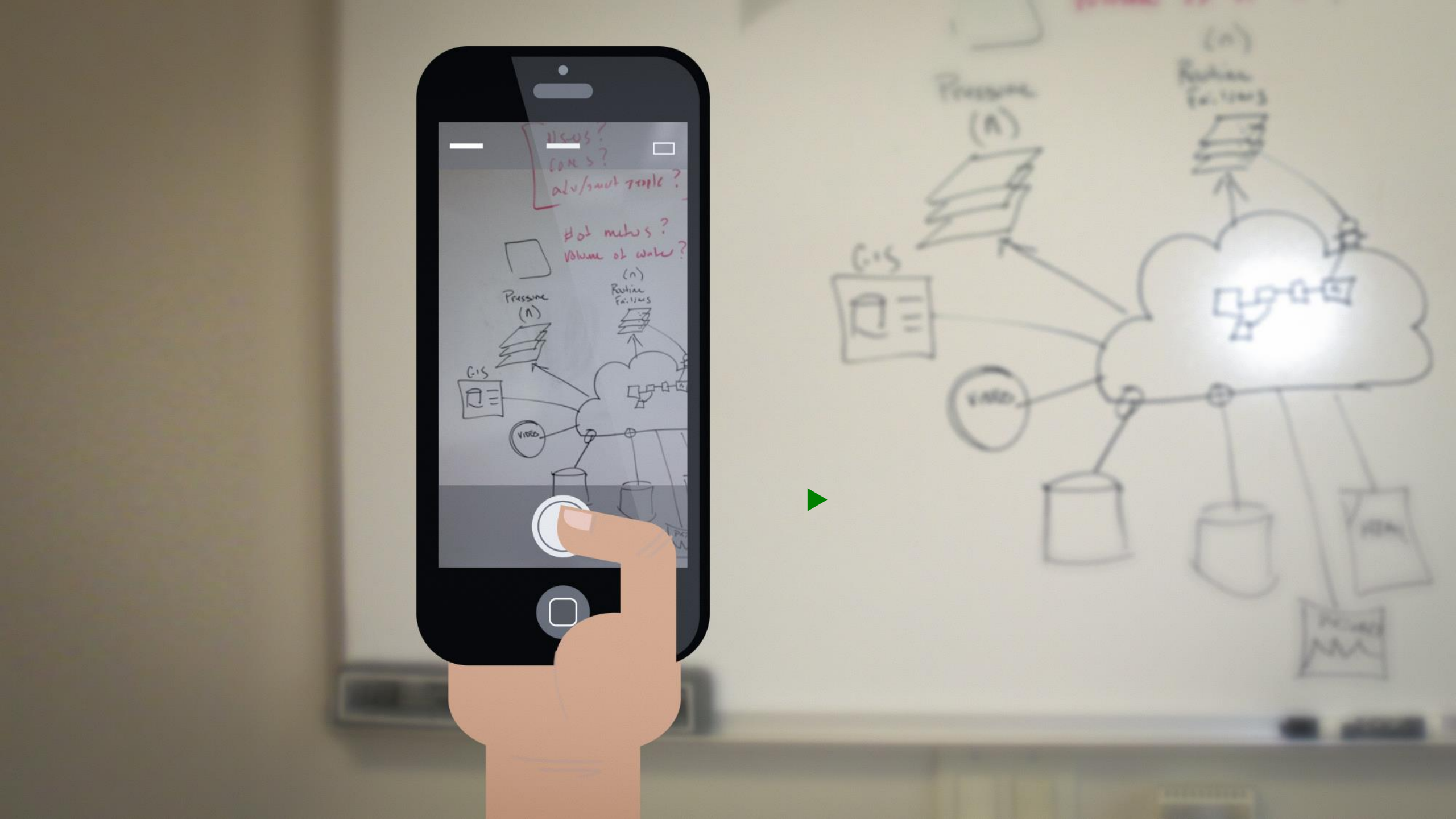
as easy to use as their iPhone

At Work People Want…



CONSUMERIZATION of IT

ed's bike shop


Pressure
(n)
GIS
VIDEO

58%

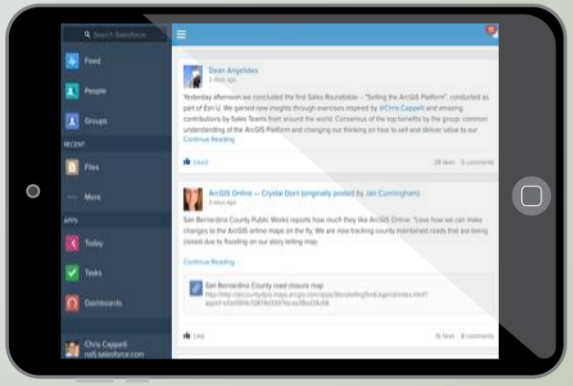
Own a Smartphone

87%

Using the Internet

2.8

Devices Owned by Knowledge Workers



Work used
to be a place

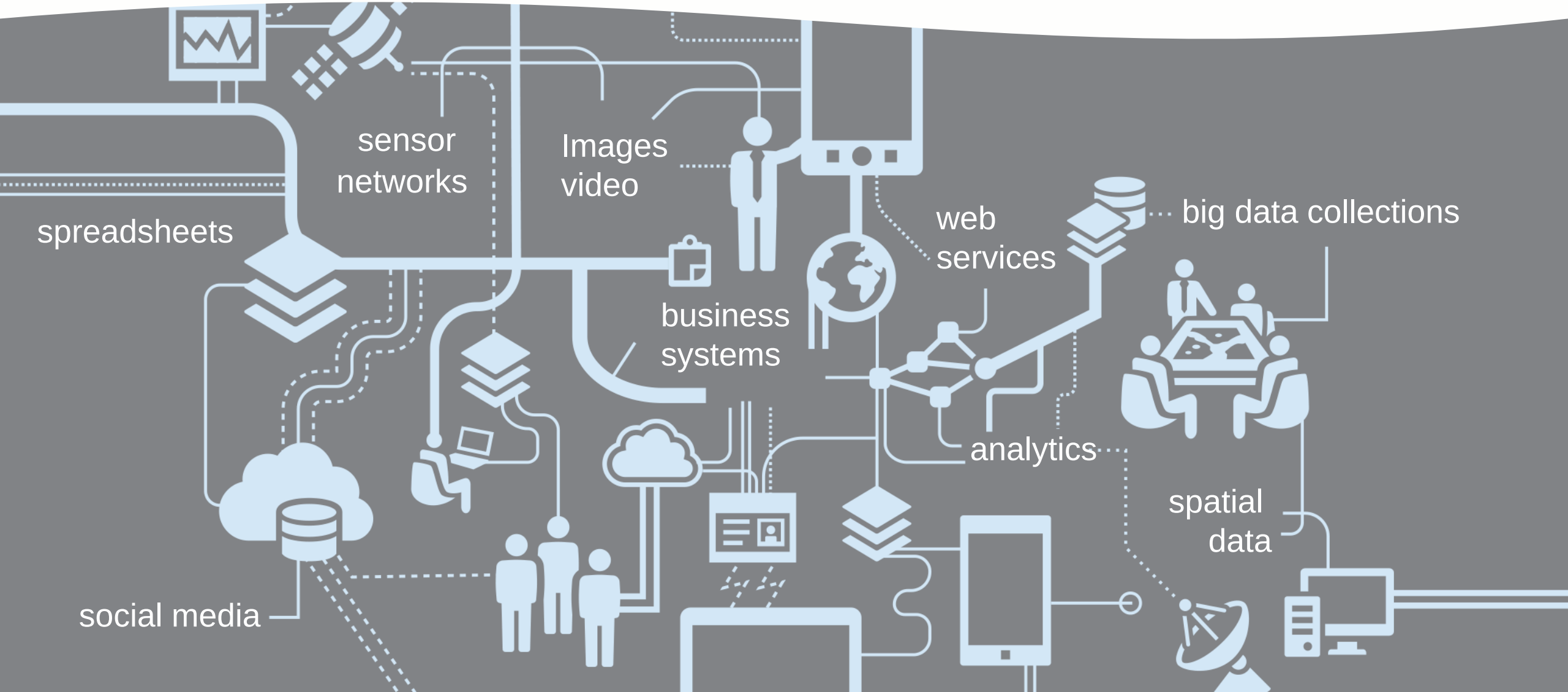
Now, work
is everywhere

ArcGIS enables every employee and contractor to easily discover, use, make, and share maps from any device, anywhere, anytime.

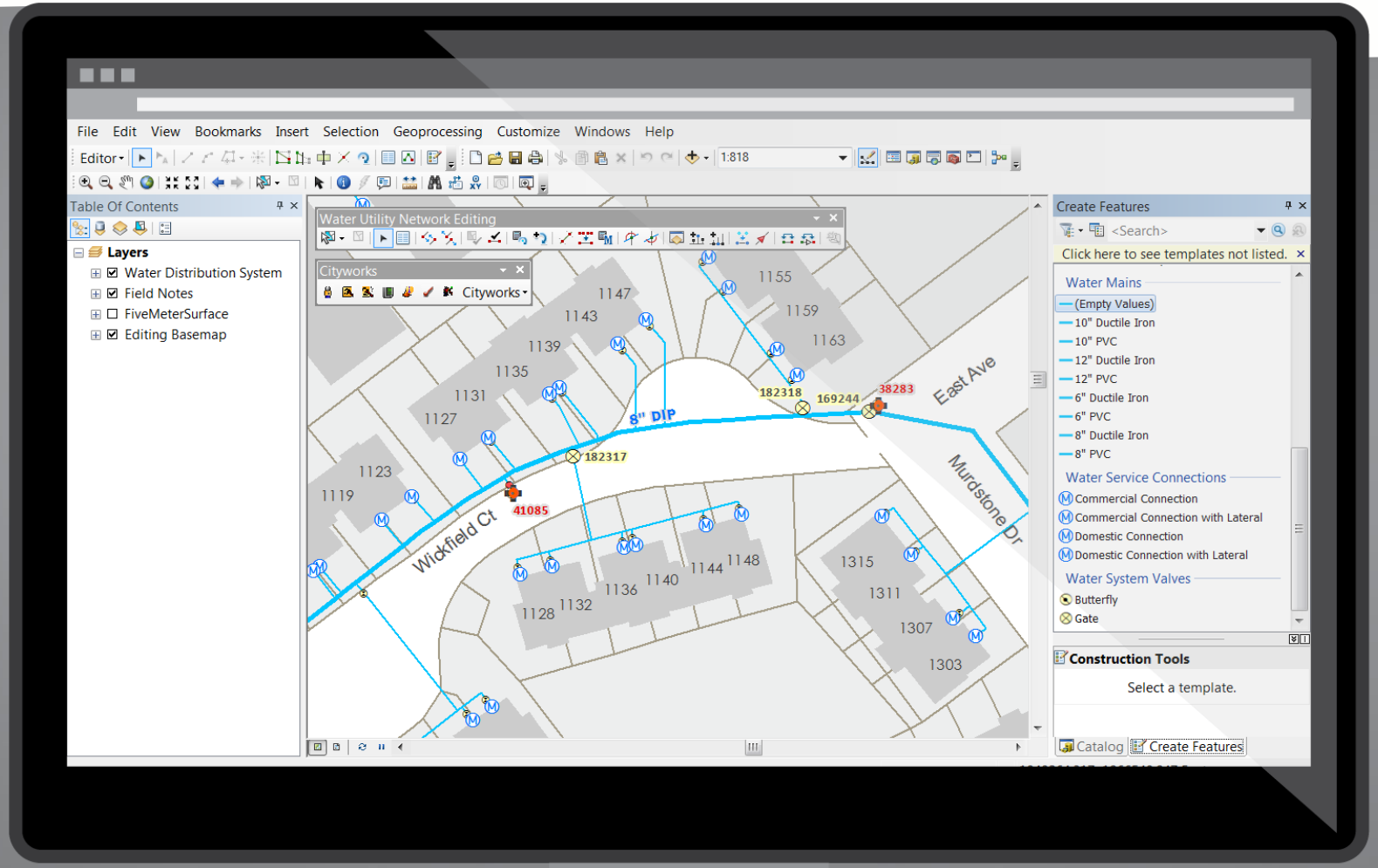
ArcGIS is a Platform

Making mapping and location aware apps available across your organization

Maps at Work ▶ Integrate, display, analyze, and enrich information from many sources

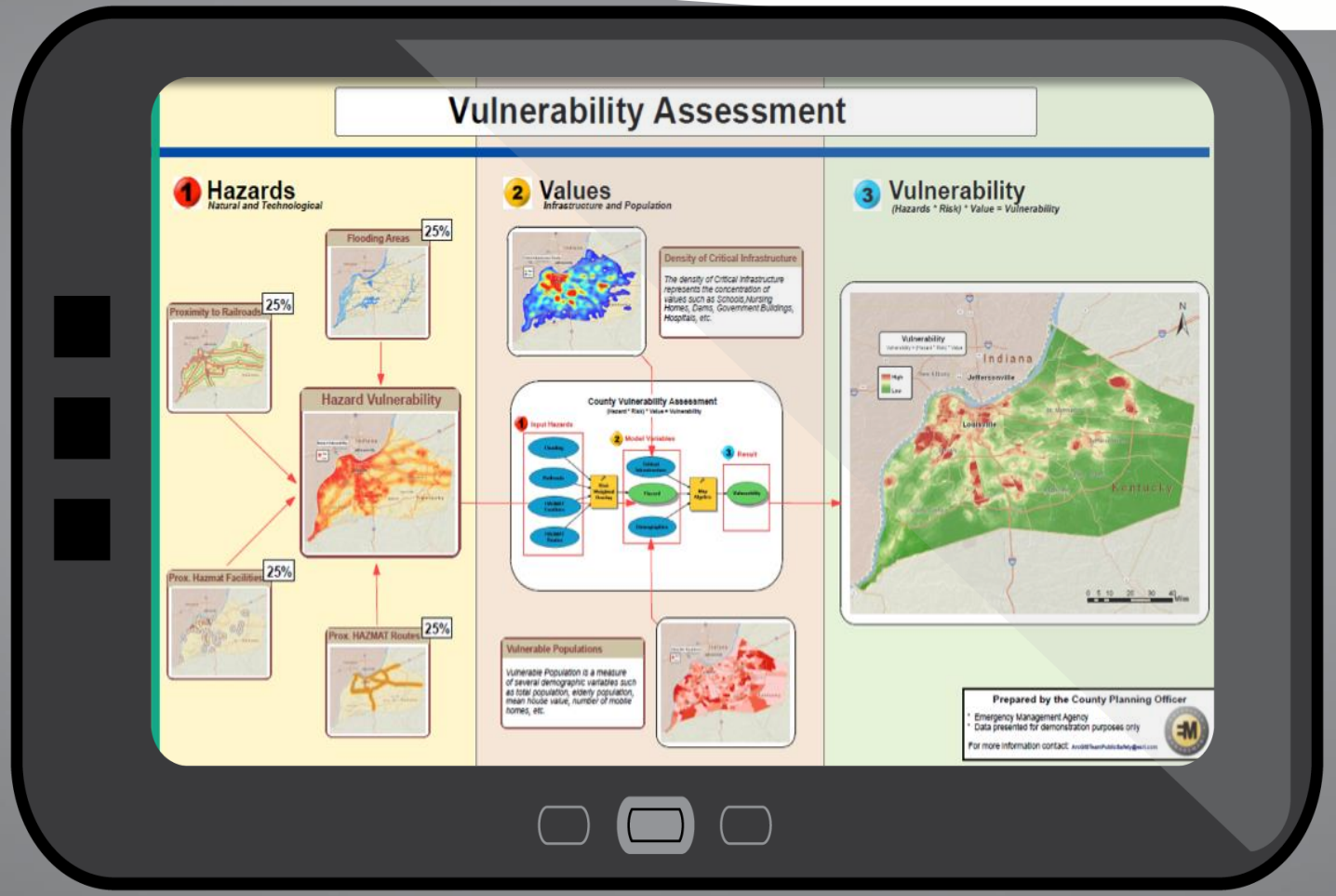


Maps at Work ▶ Represent the authoritative inventory of your assets and resources

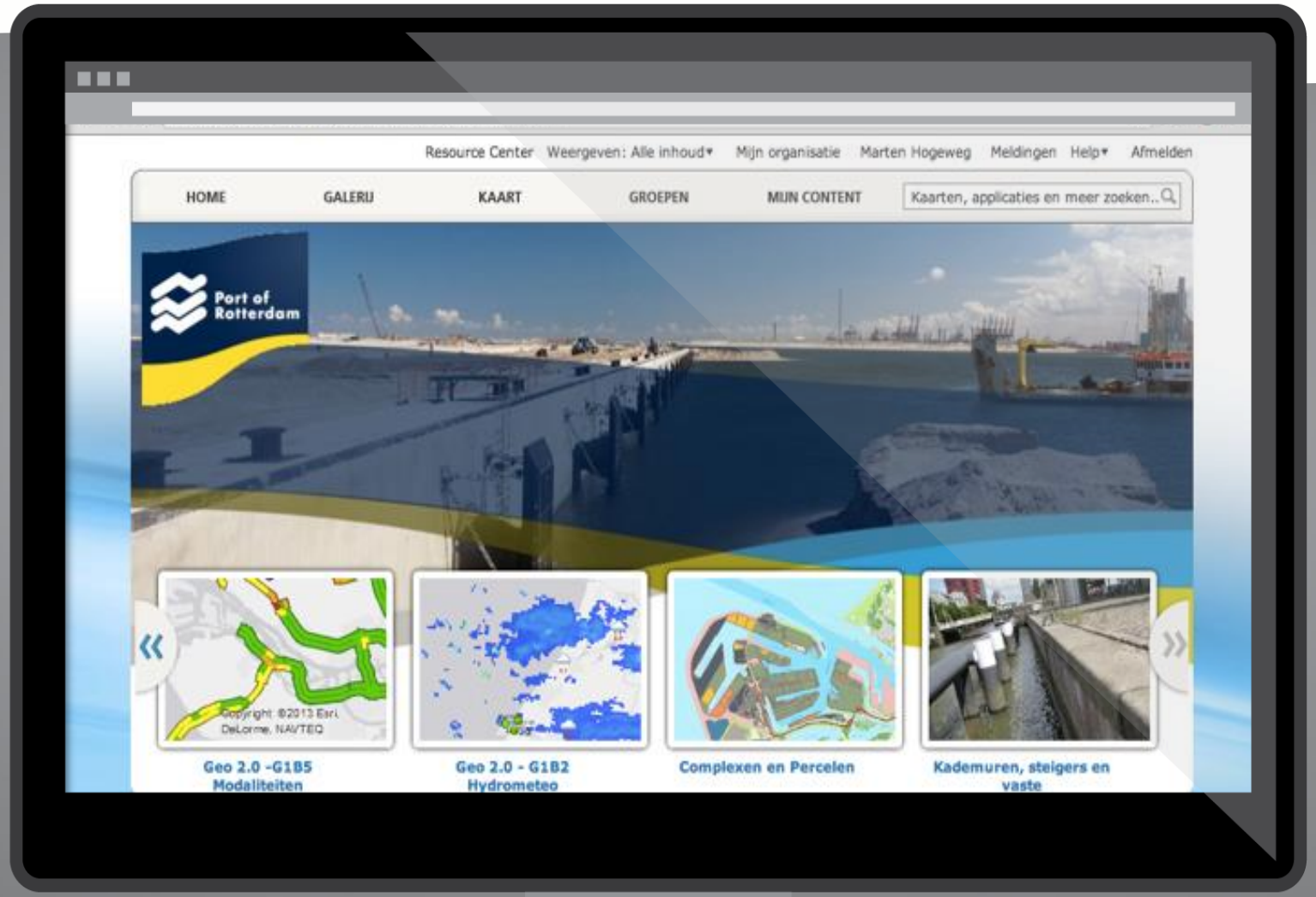


Maps at Work ▶ Illustrate time, show status and performance, and support decision making

Maps at Work ▶ Enable evaluation and simulation that support strategic decision making



Maps at Work ▶ Provide a destination where your employees go for maps and authoritative knowledge about your assets and resources



Identity ▶ Your “key” to accessing information wherever you are

ACCESS ●●●○○

SECURITIES ●●○○○

CAPABILITIES ●●●○○

Kristin
Human Resources

Collaboration

Enable people to work together by securely sharing data, apps, and knowledge

Apps for Everyone

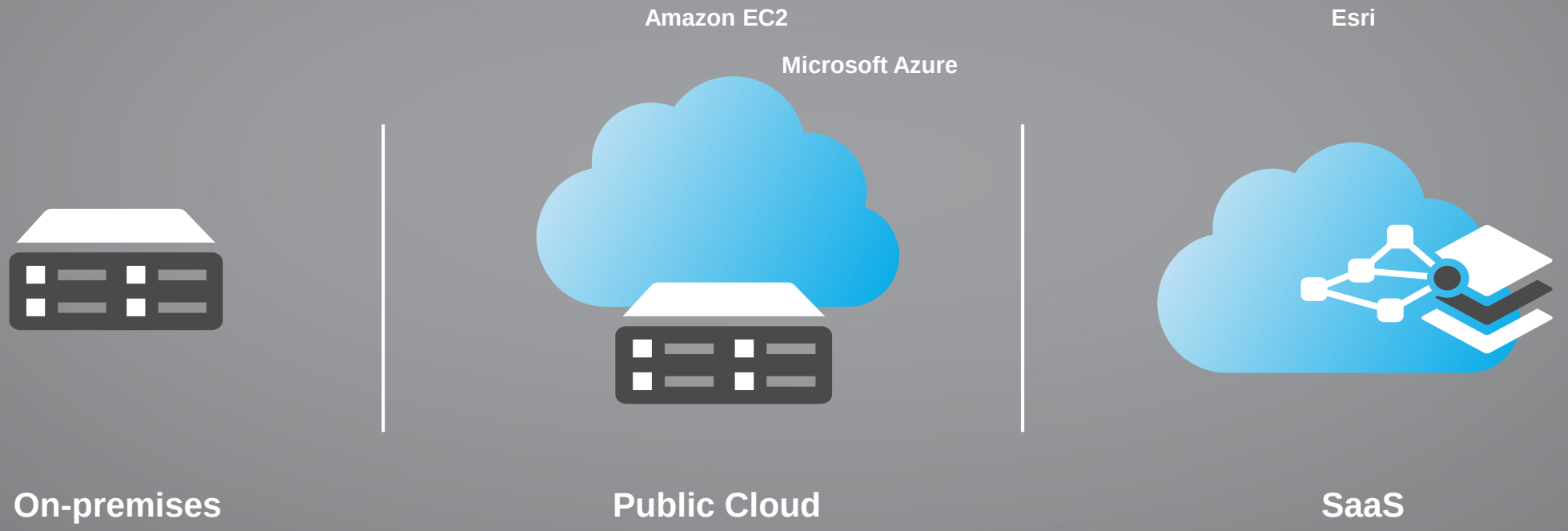
A suite of easy-to-use apps that work on any device, anywhere, anytime

Apps that work

On any device

Flexibility

Deploy ArcGIS on-premises, in public clouds (PaaS), and/or use Esri's cloud (SaaS)

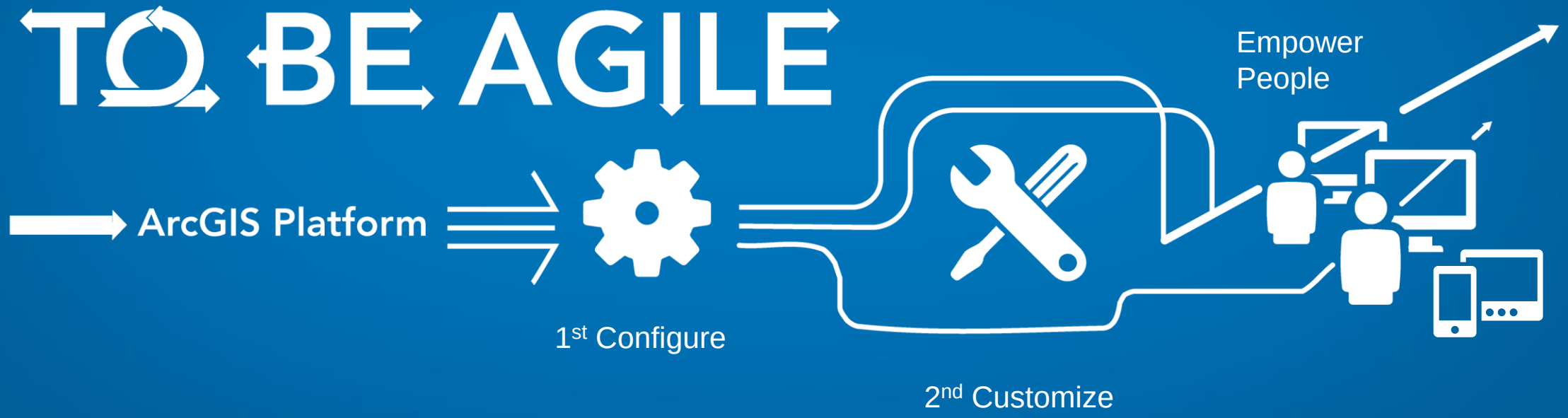


Location Strategy

Map where things are, show how they relate, determine what it all means, and evaluate what actions to take

Location Enablement	Constituent Engagement	Decision Support	Field Mobility	Analytics	Location Data Management
Discover, use, make, and share maps at work -- anywhere, anytime	Facilitate and manage communication with stakeholders	Inform execs and management with maps and location intelligence	Get authoritative information into and out of the field	Describe, predict, and improve business performance	Collect and organize location data about your assets and resources

Key Principle ▶ Employing the agile methodology will deliver immediate value to your business today and into the future



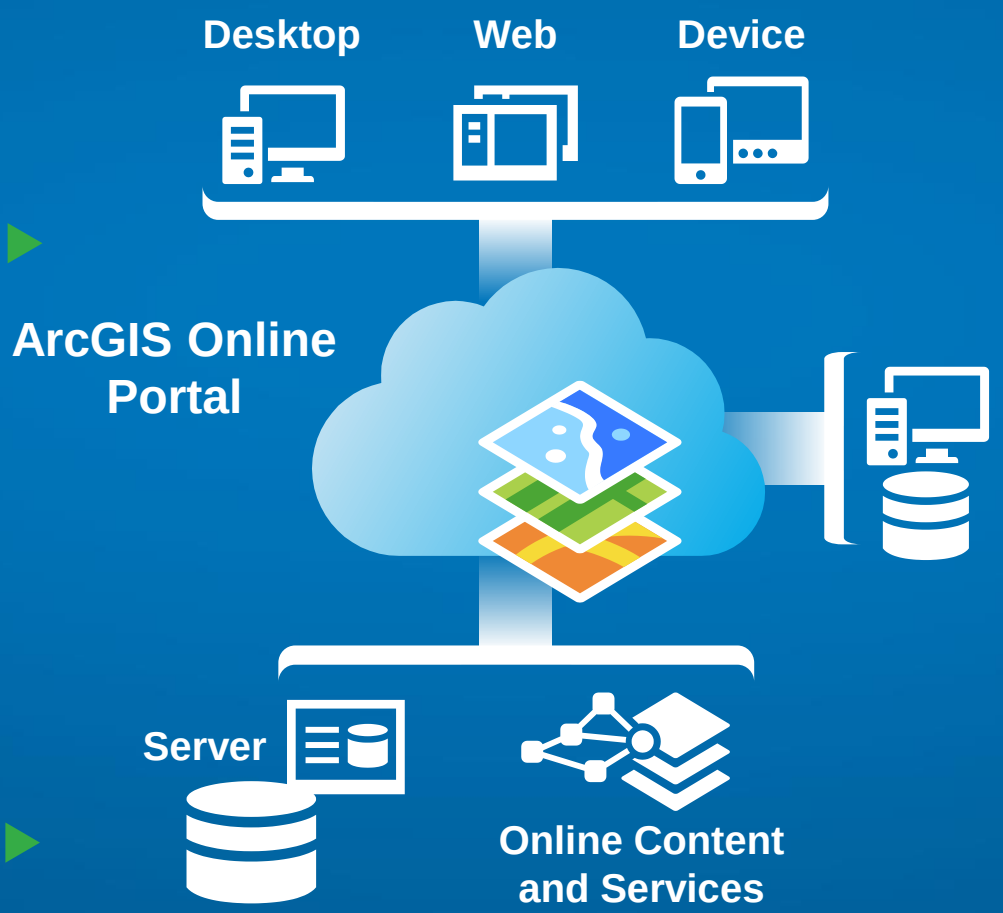
Common Approach

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

Advanced Workflows

Content Production Systems
Data Modernization

Partners Extend the Platform

Providing an array of products, services, and domain expertise that delivers value

IMPLEMENTATION SERVICES

DEVELOP APPS

CONSULTING SERVICES

PROJECT MANAGEMENT

INTEGRATE WITH OTHER PLATFORMS

GUIDANCE & TRAINING

DELIVER CONTENT

Esri Services

Ready to help you successfully leverage the ArcGIS Platform for your organization

Tech Support Analyst

Software Maintenance

Latest software and technical support

Technical Advisor

Esri Enterprise Advantage Program

Reach your GIS vision

Project Manager

Projects

Transforming business

Premium Support

Prioritized incident management

Premium Support Analyst

Training Consultant

Training

Enabling the workforce

Technical Consultant

Jumpstarts Rapid productivity

one corporate system

no user limitations

3-clicks or less

uniformity in all their maps

as easy to use as their iPhone

ArcGIS for your organization means…

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