What Does Web GIS Really Mean for Fish and Wildlife Agencies?

Mike Bialousz, Esri
Fish and Wildlife Agencies are looking for ways to:

- Collect data more efficiently
- Provide authoritative GIS information to staff
- Reduce cost and burden to deploy GIS
- Increase License sales and revenue
- Make more informed decisions
- Improve constituent engagement
ArcGIS enables every employee and contractor to easily discover, use, make, and share maps from any device, anywhere, anytime.
ArcGIS is advancing rapidly and getting smarter

Integrating and leveraging many innovations
ArcGIS enables multiple systems

Integrating People, Processes, Things, and Data About Them

System of Engagement
System of Record
System of Insight
ArcGIS can be implemented in many ways

- Standalone
  - ArcGIS Desktop
- Client-Server
  - ArcGIS Server
- Web GIS
  - ArcGIS Online / Enterprise
- Distributed GIS
  - System of Systems

Web Services Are Interconnecting Everything
Web GIS is an evolving pattern
What is Web GIS?

Foundation of a modern GIS

• A pattern, or architectural approach
• Powered by services
• Components are connected
• Uses a portal
• In the cloud, on premises, or both
What is a portal?

Essential component of a modern GIS

- A home page, a destination
- Framework for managing and using content
- Supports identity
- Manages users and collaboration
- Sharing model
- Geoinformation model
- In the cloud, on premises, or both
Your portal

The center of your geographic information ecosystem
Web Maps | The building blocks of web GIS

Part of a new geoinformation model bringing all types of data together

Maps, scenes, layers

GIS Maps, Data, and Services
Imagery
Enterprise Data and Services
Files / Tables
Real Time - IoT

Living Atlas

Easy to understand and use
Web Maps | The building blocks of web GIS

Map Viewer (for authoring)

ArcGIS Desktop

Story Maps

App Builders

Configurable Apps

App Studio Devices

http://solutions.arcgis.com/
Apps for Office | Extending the reach of GIS in your organization

Enables everyone to participate
Apps for Community | Engage and interact with constituents

- Communicate your stories and work
- Share your geospatial assets
- Support citizen science, crowdsourcing, and citizen engagements

Esri Story Maps
ArcGIS Open Data
Crowdsourcing Apps
Configurable App Templates
Web AppBuilder for ArcGIS
AppStudio for ArcGIS
Connecting the Field with the Enterprise

Field Apps | Taking GIS where it needs to go

- Collecting Data
- Reporting Observations
- Managing Work
- Understanding

Explorer
Navigator
Collector
Survey123

Workforce

Operations Dashboard

Connecting the Field with the Enterprise
Field Apps | A Complete Field Operations Workflow

- Operations Dashboard for ArcGIS
- Drone2Map for ArcGIS
- Survey123 for ArcGIS
- Collector for ArcGIS
- Plan
- Monitor
- Coordinate
- Capture
- Navigate

ArcGIS for Desktop
Web Maps/Apps
Workforce for ArcGIS
Navigator for ArcGIS
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Hackers Ball – Insights for ArcGIS

- New Paradigm for Exploratory Analysis (Visual, Intuitive, Responsive)
- Optimized Access to GIS, Enterprise, and Big Data
- New Analysis Experience – Insights App
- Demo: Using Insights for *Creel Survey Analysis*
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