Fit for Purpose Technology for Land Administration

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GIS is Evolving

Web GIS is a new pattern

Applications
- Collaborative
- Mobile
- Native
- Real-Time
- Analytics
- Configurable
- Visualization

Implementation
- Agile
- Web
- Easier
- Ready to Use
- Standards
- Open

Technology
- Virtualization
- Big Data
- Internet of Things
- Cloud
- Faster Computing
- Consumerization

Data
- Lidar
- Crowdsourcing
- Drones
- Scientific Data
- Field Survey
- Social Media
- GPS

Real-Time
- Remote Sensing
- UAVs

Web GIS
GIS is Evolving

Web GIS is an evolving pattern
The importance of a map
A fundamental building block

A. A Geographic Information System (GIS) is a set of tools for managing and analyzing maps.
B. The map is the basic unit of information in a GIS.
C. A user works with a GIS by applying processes to maps.

ARC/INFO System Overview – April 1982
The importance of a web map
A fundamental building block of Web GIS
Web Maps open GIS
Allow many types of users to participate, use, and view

Office

GIS Desktop

Web Maps

Shapefiles

Spreadsheets

GIS Server

Portal

Apps
What is Web GIS?
Foundation of a modern GIS

- A pattern, or architectural approach
- Based upon services
- Supports Identity
- Cloud, on premises, or both
- Uses a Portal

Services
What is Web GIS?

Foundation of a modern GIS

- A pattern, or architectural approach
- Based upon services
- Supports Identity
- Cloud, on premises, or both
- Uses a Portal
GIS is a Web GIS platform
Abstracts and organizes all types of data

Geoinformation Model

Maps & Scenes
Layers
Analytics

Real-Time
(Internet of Things)

GIS Maps & Data
Imagery
Enterprise Data
GIS Content
Living Atlas

• Basemaps
• Demographics and Lifestyle
• Transportation
• Urban Systems
• Earth Observations
• Imagery
• Landscape
• More…
GIS Apps
Configurable, Hosted, no programming required

- Configurable app gallery
- Story Maps
- Web AppBuilder
- AppStudio
GIS Apps
Support your workforce and workflows

• Maps for Office
• Collector
• Operations Dashboard
• Explorer
• Navigator
• Workforce Manager
• Drone2Map
• Insights
• Earth
ArcGIS Online
Cloud-based Web GIS

- Hosted publishing and analytics
- Hosted apps
- Hosted content (Living Atlas)
- Sharing and collaboration
- Public ecosystem
- Integration with on-premises Web GIS
Web GIS transforms what we do
Changes how we work, integrate, share

System of Record
GIS Desktop
GIS Server

System of Engagement
Portal
Services

System of Insight
Collaboration in Colombia
Partners, standards, security…..

• IGAC – National Mapping Agency
• Kadaster International
• Trimble
• Esri
• Esri Colombia
Why this Approach?
FFP in a couple of weeks.....

- Fast-to-Implement
- Standards-based
- Low Cost
- Accurate
- No Software Development
- Secure

- Leverages External Data
- Uses Many Devices
- Future Proof
- Scalable
- Repeatable
- Works Disconnected
Leveraging Modern Approaches
FFP processes with FFP technology

Android

LADM
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