Fit-for-Purpose Land Administration

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GIS Cloud

- Hosted publishing and analytics
- Hosted apps
- Hosted content (Living Atlas)
- Sharing and collaboration
- Public ecosystem
- Integration with on-premises Web GIS
GIS Content
Living Atlas

- Basemaps
- Demographics and Lifestyle
- Transportation
- Urban Systems
- Earth Observations
- Global Imagery
- Landscape
- More…
GIS Apps
Support your workforce and workflows

- Maps for Office
- Open Data
- Collector
- Operations Dashboard
- Explorer
- Navigator
- Workforce Manager
- Drone2Map
- Insights
- Earth
A Platform for Land Administration

Collect

Produce

Workflows
Features
Products

Manage

Specifications
Data Models
Production Management

Share
Collect | Produce | Manage | Share
Many Tools

Field Data Collect

- Survey
- Aerial Photography
- Drones
- Satellite Imagery
- GPS
- Collector for ArcGIS Survey123

Data Collection Specifications

Manage

- Standard Parcel Workflows
- QA/QC
- Land Administration Domain Model

Share/Publish

- Portal

Outputs

- Title Valuation
- Tax Roll
Fit For Purpose LA & GIS
FFP processes with FFP technology

Collector App

LADM Hosted Services

Browser Editing
Scalable Systems

Desktop

Web

Device

Server

Online Content and Services
Quick Statistics - Colombia

- Population: 48 Million (between Spain and S. Korea)
- Parcels: 15 Million
  - Urban: 11.6 Million
  - Rural: 3.5 Million
- Area: 441,000 sq. mi. (3x Montana)
- Population Density: 105 per sq. mi. (~ Tennessee)

- Peace process with FARC began 2012 - Havana, Cuba
Situation

- Post-Conflict Colombia

- Need low-cost, efficient cadastral data collection methodology
  - No programming
  - No software development

- Resolve boundary issues

- Serve data into multi-purpose cadastre
  - Connect with registry
  - Strengthen property tax
  - Support planning
Standards-based Solution Requirement

ISO 19152
Typical Situation
Methodology

- Data model LADM
- Trimble R1 GNSS (sub-meter)
- Ortho photos (digital)
- Collector for ArcGIS on Android
- Cloud storage Data (spatial and legal)
- Collect Once - participatory aspect
Methodology
LADM in ArcGIS Online

Apps

Base Maps and Data

Browser Capabilities

Many More......

Reports
## Area Calculations

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FFP processes with FFP technology

Collector App -> LADM Hosted Services -> Browser Editing
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