

### Technical Advances in Land Administration

#### **Challenges**

- Keeping Authoritative Data Current
- Accuracy
- Accurate values
- Secure
- Accessible
- Multiple networks/users
- Cost
- Implementation timelines
- Scalability
- Staff

### **Responses to Challenges**

- Standardized workflows
- Ongoing data improvement schemes
- Advanced analytical tools
- Standards
- Web GIS
- Web GIS
- Standards/Solutions/Web GIS/Cloud
- Solutions
- Standards/Cloud
- Solutions/Standards

# Trends

#### **Trends**

- Contributory
- Usable
- Timely
- Evolvable
- Flexible
- 3D
- Attainable
- Inclusive

### **Technical Response**

- Apps
- Apps
- Standards/Solutions
- Web GIS
- Web GIS
- Web GIS
- Solutions
- Partners

# Technical Advances Categorized

#### **Responses to Challenges**

- Standardized workflows
- Ongoing data improvement schemes
- Advanced analytical tools
- Standards
- Web GIS
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- Standards/Solutions/Web GIS
- Solutions
  - Standards

Solutions/Standards

#### **Technical Response**

- Apps
- Apps
- Standards/Solutions
- Web GIS
- Web GIS
- Web GIS
- Solutions
- Partners

Standards

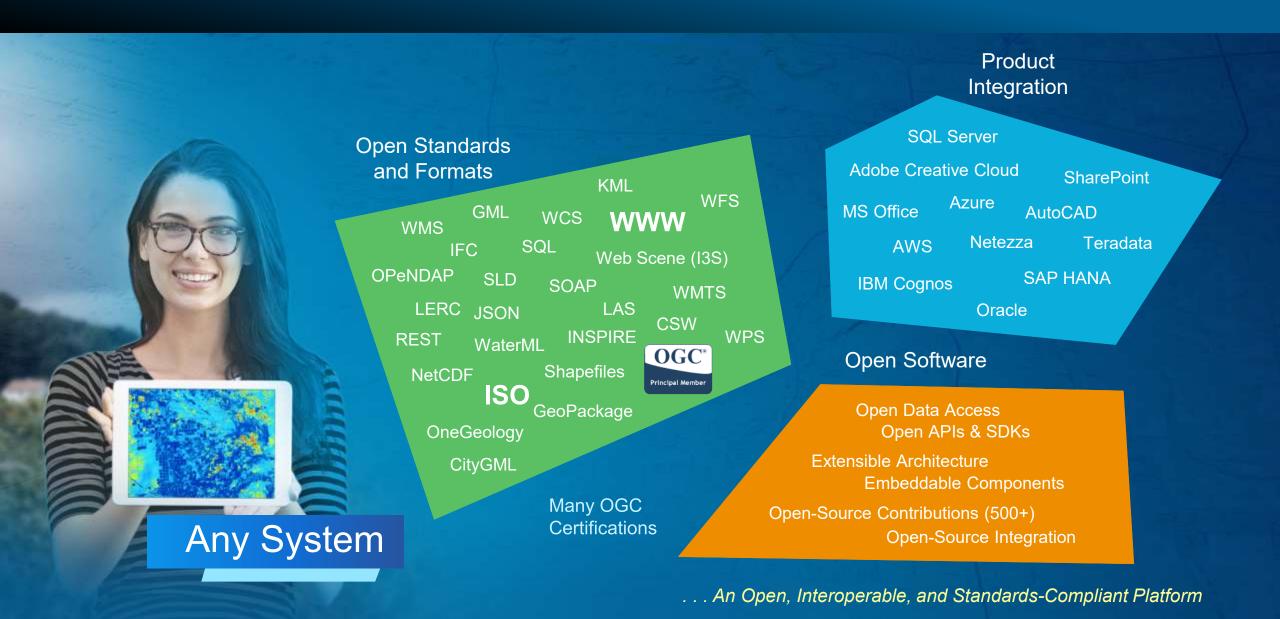
Web GIS

Solutions

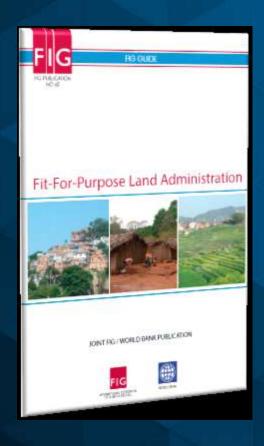


### The Importance of Open

#### Enables many implementation configurations



# Standards-based Solutions









# Web GIS Is Driving Digital Transformation

Helping Organizations Re-envision Their Workflows

GIS

Geospatial Infrastructure

Simultaneous

Collaboration

**Integrated Operations** 

Digital Transformation

Changing How Organizations as a Whole . . . Do Their Work

al

## Web GIS Technology

Is Transforming Land Information Management

### Many Innovations

Integrated Platform

Open Available Shared Content

Cloud / Web Services

Ready to Use Solutions and Apps

Advanced Analytics & Visualization

Integrated Imagery & Real Time / IoT

### Web GIS Includes Global Content

### Basemaps Soils

Agriculture Topo Maps Addressing

Ecology Sentinel Earthquakes Traffic Rainfall Geology Vegetation Roads

Imagery Scientific Demographics

Stream Landsat Species NAIP Planes Gauges Lifestyle

Water MODIS Biology Elevation POIs

**Land Cover** 

**Protected Areas** 

Distribution

Hazards Climate Historical

DigitalGlobe Floodplains

Weather Maps Landscape Oceans

**Stream Forecasts** 

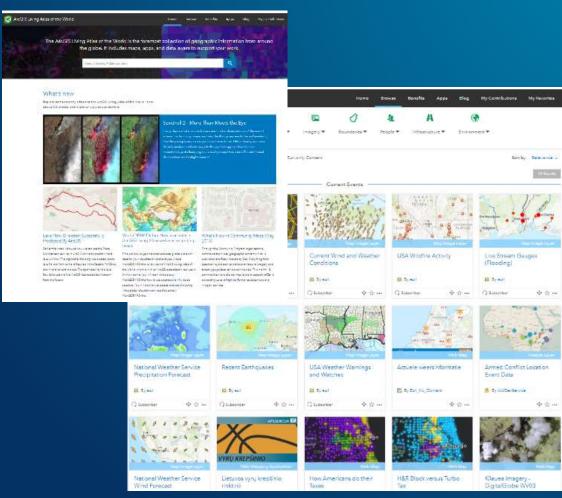
Population Boundaries

OSM

Sea Temperature

Wildfires Railroads

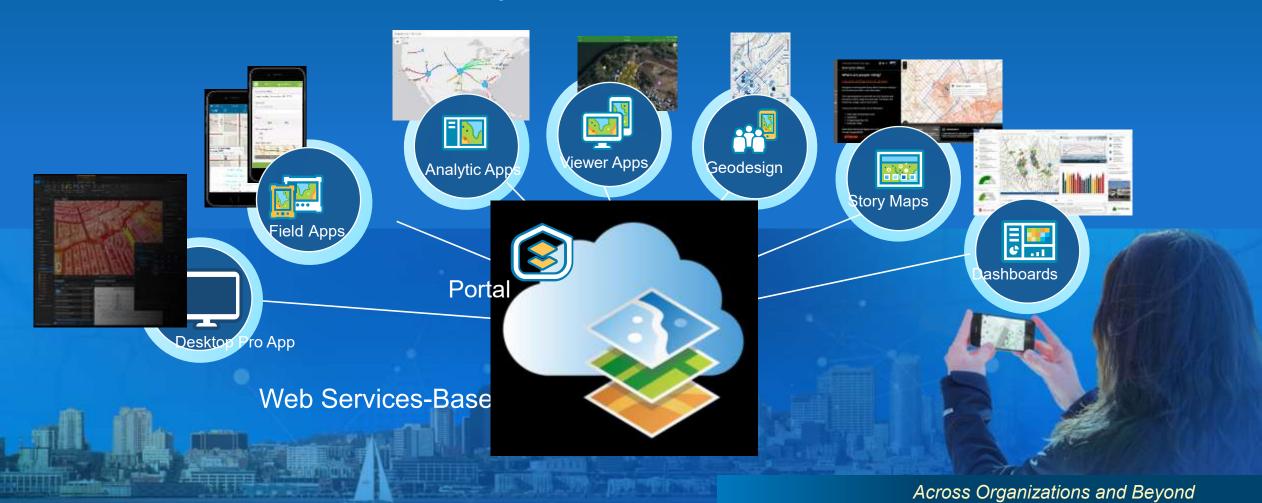
Millions of Maps and Layers
Shared by GIS Users





# Web Apps

Extend the Reach of GIS to Everyone



# Web GIS Supports Multiple Implementation Patterns

**Integrating Cloud and On-Premises Systems** 





### Parcel Management | Web Based Solution for Cadastre

### Ready to Use

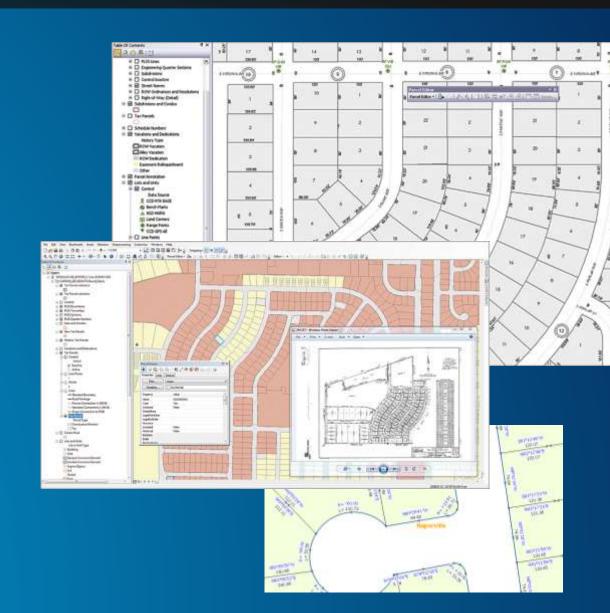


- Apps & Workflows
- Data Management
- Easily Configurable



#### Fabric Data Model

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opological
east square adjustment
listory
ADM / Standards Based



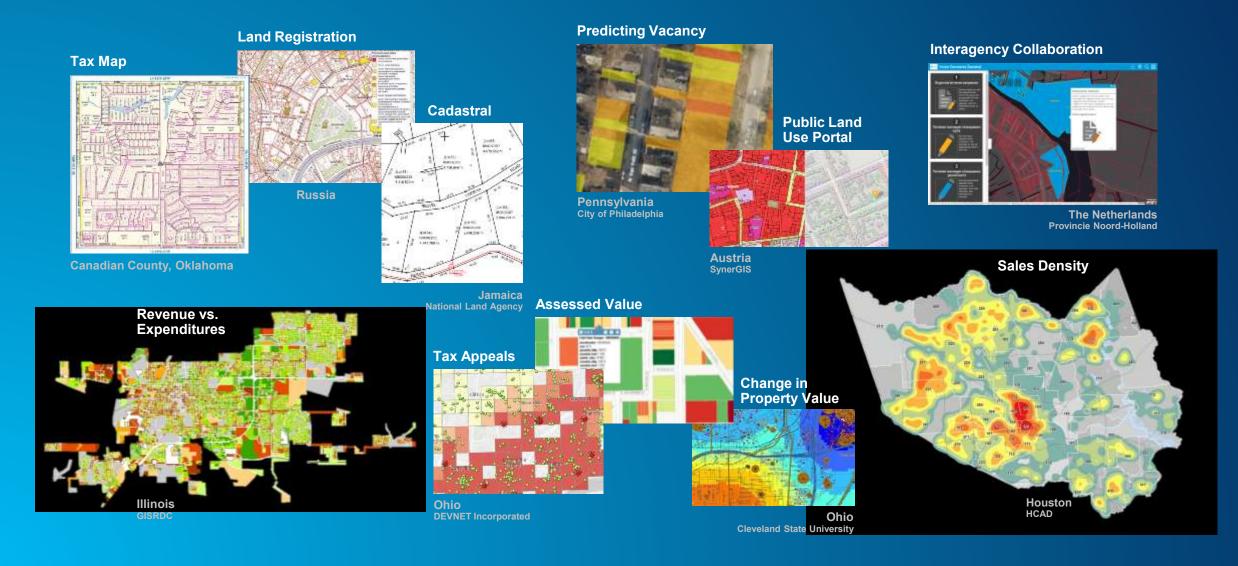
# Field Apps | Empowering Mobile Workers



### Value Analysis

#### Analyze and Securely Share Land Information

ArcGIS is the platform for land administration systems



# Web GIS

#### Delivers Land Administration Solutions



### Modern Cadastral Solution Platform – Web GIS

Supporting Global Cadastre Requirements

