



Modern Approaches to Land Administration

Brent Jones

bjones@esri.com

Land Administration

GIS is the platform for land administration

Land administration is the process of determining, recording, and disseminating of information about ownership, value and use of land when implementing land management policies.

Source: UN/ECE Land Administration Guidelines 1996



Benefits of Good Land Administration Key to addressing global challenges.....

- Secure Tenure
- Equitable Land and Property Taxation
- Support for Government Functions
- Manage Land Disputes
- Protect State Lands
- Poverty Alleviation
- Support for Land Markets
- Improved Land Planning

THE WALL STREET JOURNAL. WORLD NEWS

China Tackles Land Grabs, Key Source of Rural Anger

By Estera Fano and Tom Olick

The Chinese government is moving ahead with legislation to combat land seizures from the nation's 650 million farmers, a move that could ease a major source of social unrest.

In a little-noticed move, a meeting of China's State Council, the top government decision-making body, last week backed an amendment to the land-management law. Details remain sketchy, and the law is still to be approved by China's National People's Congress, but

Government revenue from land transfers in China, in billions of yuan

2011 2,450

Higher costs for acquiring land will force local governments to curb their reliance on infrastructure and housing investment for growth. With trend investment growth already slowing, this move suggests central policy makers are indeed nervous about rebalancing," writes research firm Gavekal Dragonomics in a note.

The costs will be borne by local governments, which will see revenue from land sales fall as compensation costs rise. "This draws attention to local govern-

Red tape leads to property disputes

HÀ NỘI — Bungled legal documents and errors from incapable authorities account for 70 per cent of land-related complaints and denunciations nationwide, according to members of the National Assembly (NA) Standing Committee.

Nguyễn Sinh Hùng, chairman of NA said yesterday that it's imperative to limit the causes of land-related disputes or complaints as they directly affect society and people's daily lives.

He said the responsibilities of relevant authorities at any level should be clearly defined.

Statistics from the Government Inspectorate showed, people

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4 Editorial Reading

Land disputes need logical answers

영토분쟁은 논리적인 해답이 필요하다

The escalating tension between Asia's two largest economies over territorial disputes has reached alarming levels and is raising concerns about public safety, regional security and the global economy/ 영토 분쟁을 둘러싼 아시아의 두 경제 대국 사이에 긴장이 위험 수준에 도달하면서 지역과 전세계에 대국 간 분쟁을 우려할 필요가 있다/ The long-simmering anti-Japan demonstrations erupted weekend, with roasty Chai Japanese missions, business unions and anti-Japan rallies

Korea JoongAng Daily 사실 끊어 읽기

Sept 18, 2012

다음 문단을 왜이러한 제목으로 선택하였는지 끊어 읽고 문단 전체를 논리적으로 재구성하여 끊어보기

Some nationalists in China are stoking anti-Japanese sentiment to revenge for Japan's war brutalities even though China is now ahead economically/ 중국의 일부 애국주의자들은

two countries may be locked into a physical clash on the sea/ 만약 일본에 자신은 군사력으로 경쟁을 할지라도 우리는 그 해역에서 일본의 출몰을 할 수도 있다/

50 Community Mirror Monday, May 6, 2013 www.nationalsabirnews.com

Fulani herdsmen, farmers clash over farm lands

Kanu Olafitan BADA

A major crisis may erupt between Fulani herdsmen and farmers in Igbosaland, 150 Local Government Area of Oyo State following the incessant destruction of farmlands by cattle.

Farmers in the community comprising Olofinla, Onifinla, Aba Kemo, Eleru Oka, Eleru Adoogun, Eleru Akiko and several others, allege that the herdsmen have been herding them, while the police have remained indifferent.

The farmers led by their traditional rulers including Alhaji Bada Olatifa, Chairman of Igbosa Development Association, Sheriff Aderibigbe, Baale of Daju village; Biliamsin Akintunde, Baale of Olopede village; Alhaji Tujedem Pokorunkun, Baale of Pakorunkun; Ojebisi Ayoola, Baale of Abio Ayo village; Sefu Asale, Baale of Batake village; Oyedele Ladipo, Baale of Jibi Amu village; Ramoni Adokunle, Baale of Eleru Akiko village; Jamini Akintunde, Baale of Aba Kemo village; Jimoh Samail, Baale of Onikanga village and Olatwal

Bankole, Baale of Onifinla village, protested at the council headquarters.

They were at the council headquarters for a meeting with the 'Fulani-Bovaro and Farmers Peace Committee' and the Divisional Police Officer, DPO, in charge of the Ido-150 police station, where they discussed that a petition had been forwarded to the state governor, Senator Abiodun Ajimobi and all relevant security agencies.

In the petition, the farmers appealed to the government to make into the matter to avert a crisis that could likely fol-

low the activities of the Fulani herdsmen, who seem to have the backing of the Criminal Investigative Department, Zone XI, Osoyo.

They said, "Petition on imminent break down of law and order against the Fulani herdsmen at Olopede Village in Ido Local Government Area of Oyo State", written by their counsel, R.O Muraina from Mushau Adetunbi and Co, the farmers maintained that their farmlands have been the object of wanton destruction caused by grazing by cattle.

They lamented that the re-

sponse each time they reported cases of destruction of their farmlands at the Ido-150 police station, they were told to produce the Fulani whose cattle destroyed their farm, and so in January they caught three cows belonging to one Adams Gafar after the destruction of the farm of one Salimatu Ojoode.

The farmers however, expressed surprise that while the matter was before the Omi Adfo Chief Magistrate Court, the Sarkin Fulani of Erwa, whom the police gave custody of the cows and Adams Gafar, who was released on bail, approached the



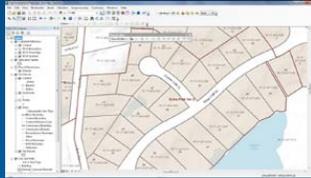
Leveraging the capabilities in ArcGIS.....

GIS

Traditional view – core capabilities.....

Parcel Management

Parcel Editing



Quality Control

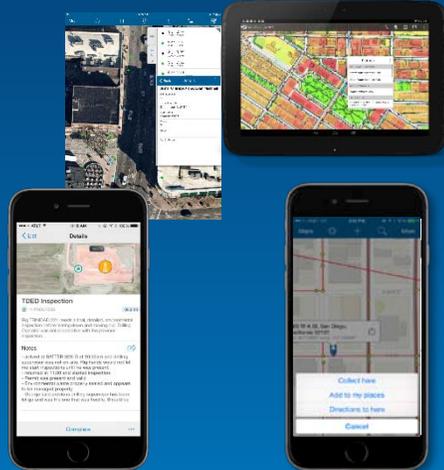


Map Production

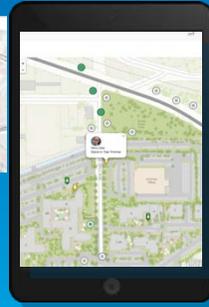
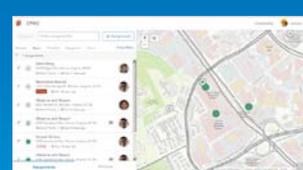


Address Management

Field Operations



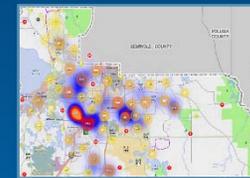
Mobile Access to View & Edit



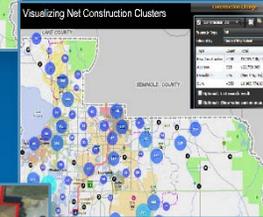
Workforce

Valuation Analysis

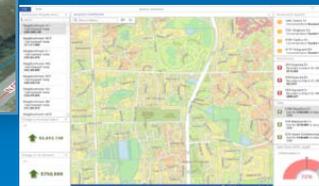
Foreclosure Mapping



Construction Permit Visualization



Property Appraisal



Visualize Property Value



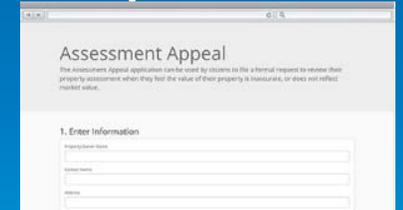
CAMA Visualization

Constituent Engagement

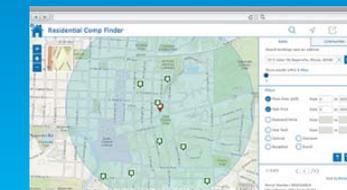
Modern Public Access



Identify Flood Risk



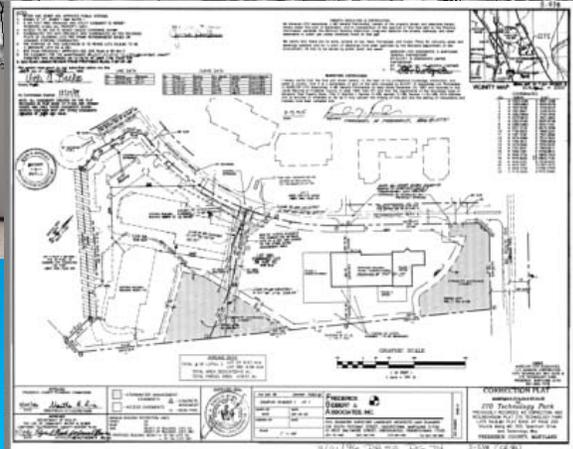
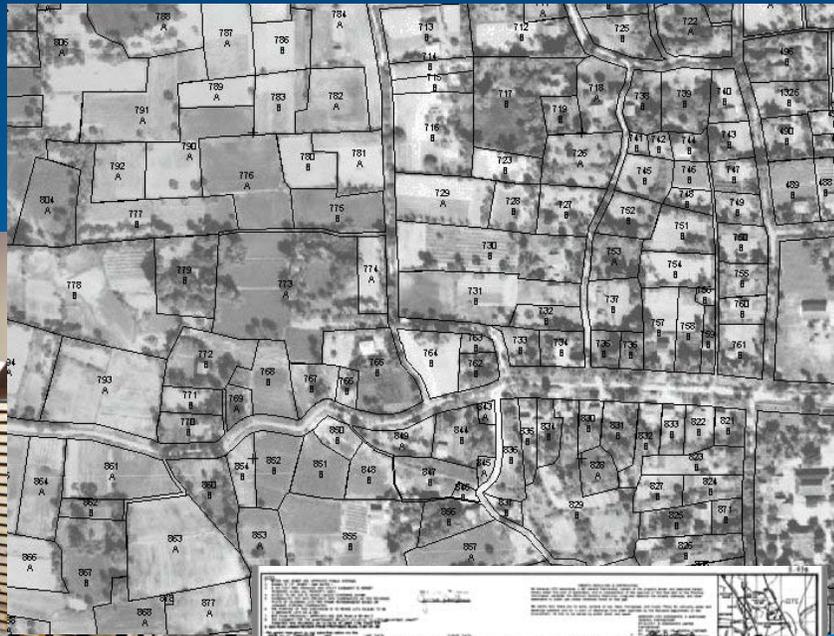
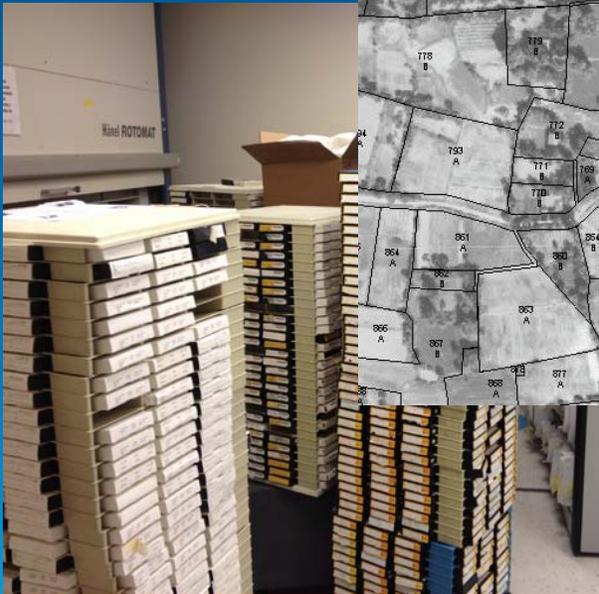
File Assessment Appeals



Residential Comp Finder

System of Record

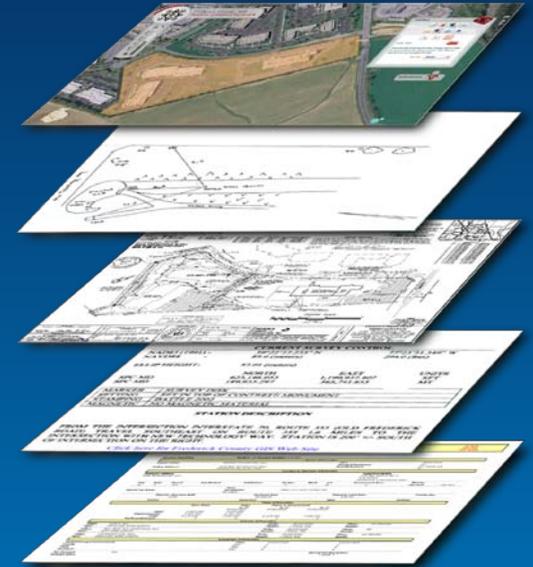
Organizes and Manages the Legal Record of Ownership, Value and Location



Cadastral History



Quebec, Canada



Parcel Query



Auckland, New Zealand

Tax Parcels

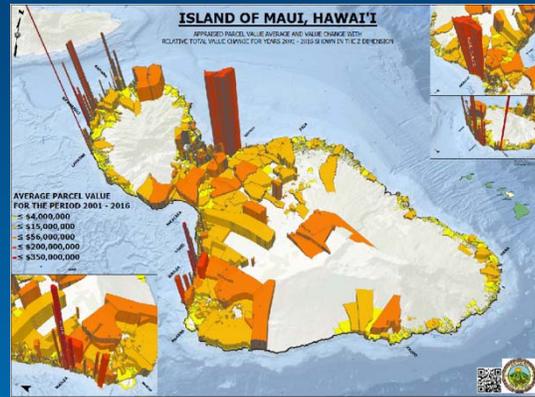


Wisconsin

System of Insight

Understand the factors impacting property value and use

Parcel Values



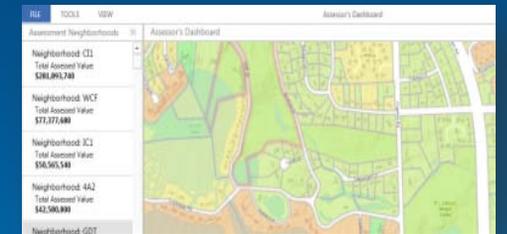
Maui

Historic District Property Values

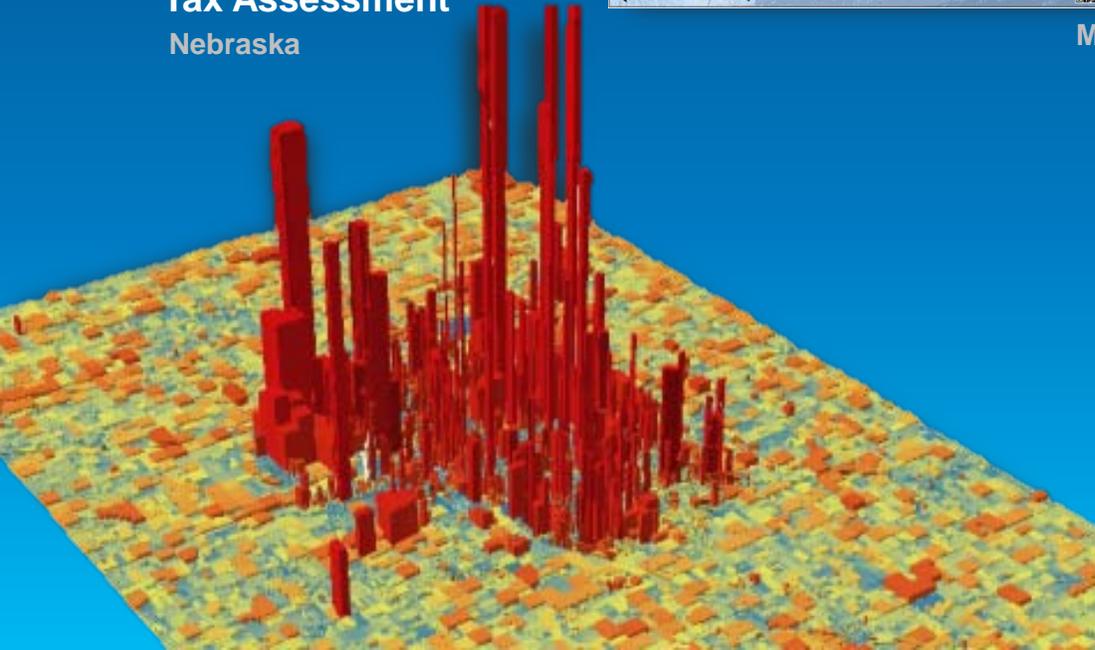


Georgia

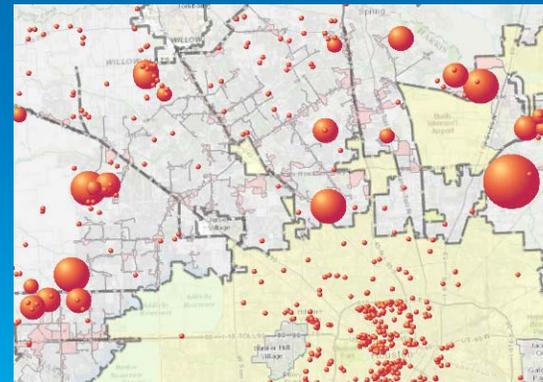
Value Analysis Dashboard



Tax Assessment Nebraska

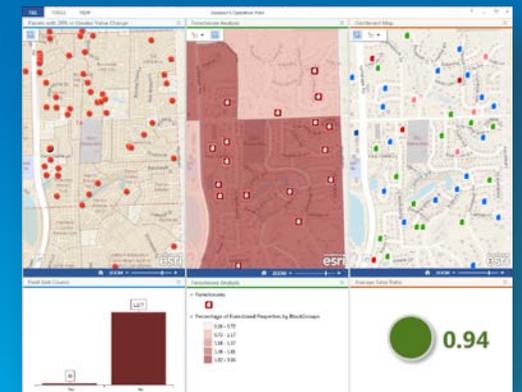


Residential Platting



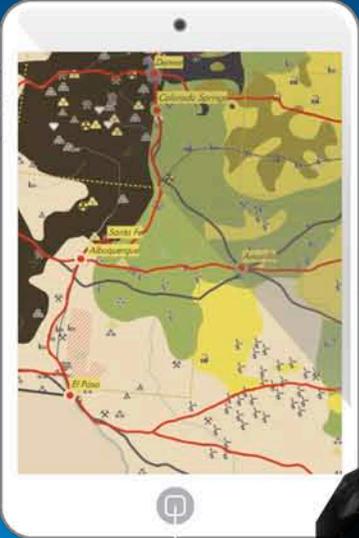
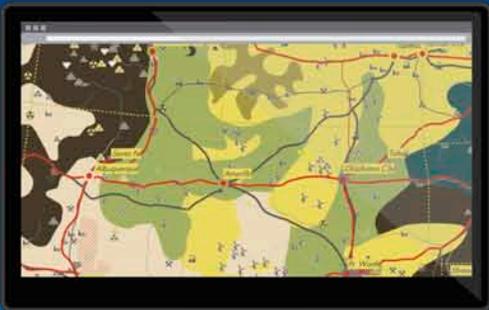
Texas

Operations Dashboard



System of Engagement

Engaging taxpayer and citizens with government



Modern Transparency

any device, anywhere, anytime

GIS is the Platform for Essential Systems Principles

System of Engagement

System of Insight

System of Record



Web GIS Shifts the Focus

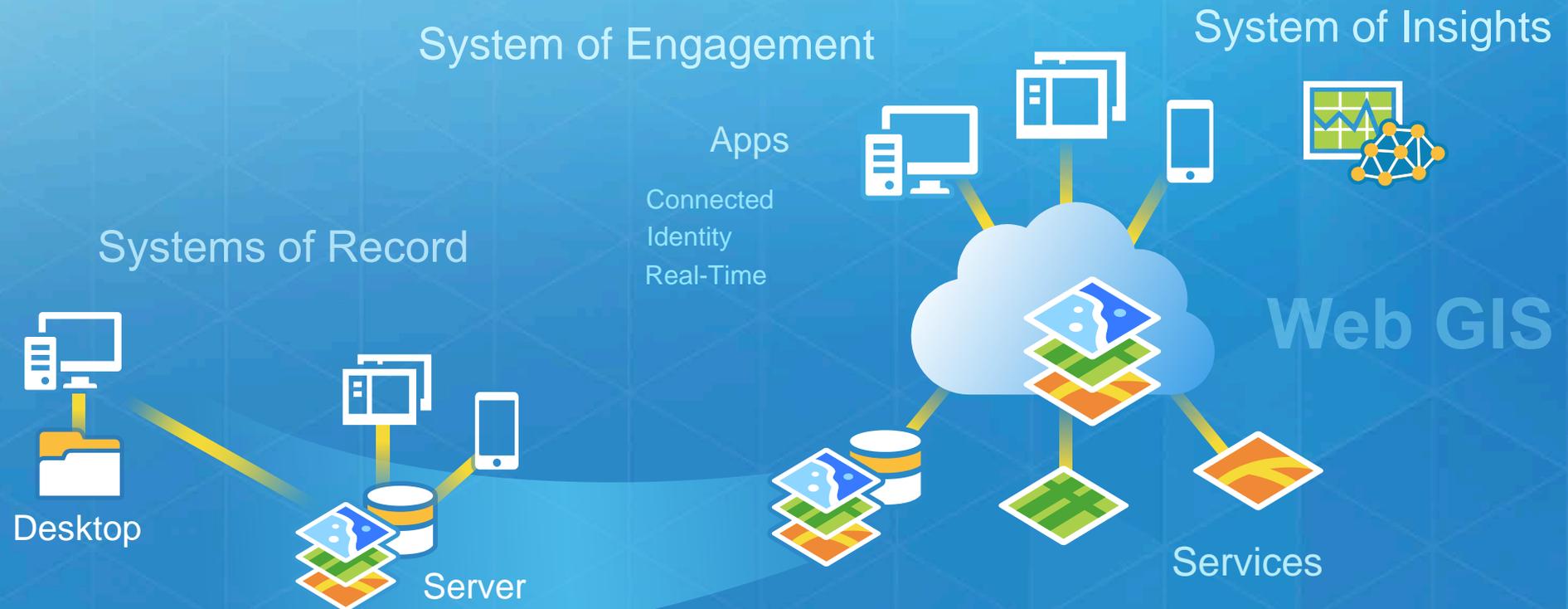
Updating the Architecture



Client / Server	→	Web Services & App
Stand Alone Desktop	→	Connected Desktop
Data Models	→	Web Maps
Static Data	→	Real-Time
Custom Applications	→	Configurable Templates and Apps
All Purpose Applications	→	Focused Apps
Proprietary Data	→	Open Data & Shared Services

Web GIS Is Transforming GIS

Opening, Integrating and Simplifying Everything

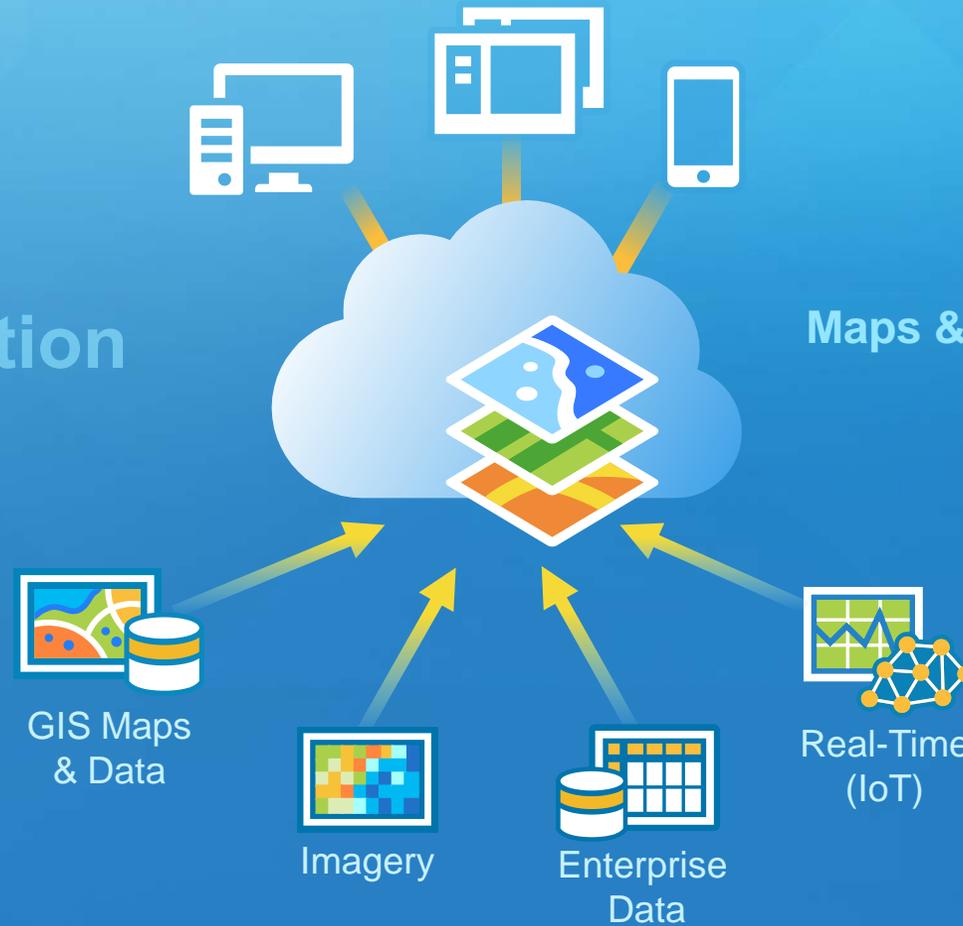


*Integrating Existing Systems . . .
. . . Creating a System of Systems*

WebGIS

Dynamically Abstracts and Organizes All Types of Geospatial Data

GeoInformation
Model



Maps & Layers

Web GIS Integrates Organizations

Creating Shared Information and Facilitating Collaboration

Segmented

Stovepiped Data



Networked

Shared Geographic Understanding



Opening Access and Engaging Everyone

Collaboration in Colombia

Partners, standards, security.....



- IGAC – National Mapping Agency
- Kadaster International
- Trimble
- Esri
- Esri Colombia



ISO 19152:2012[®]
Geographic information -- Land Administration Domain Model (LADM)



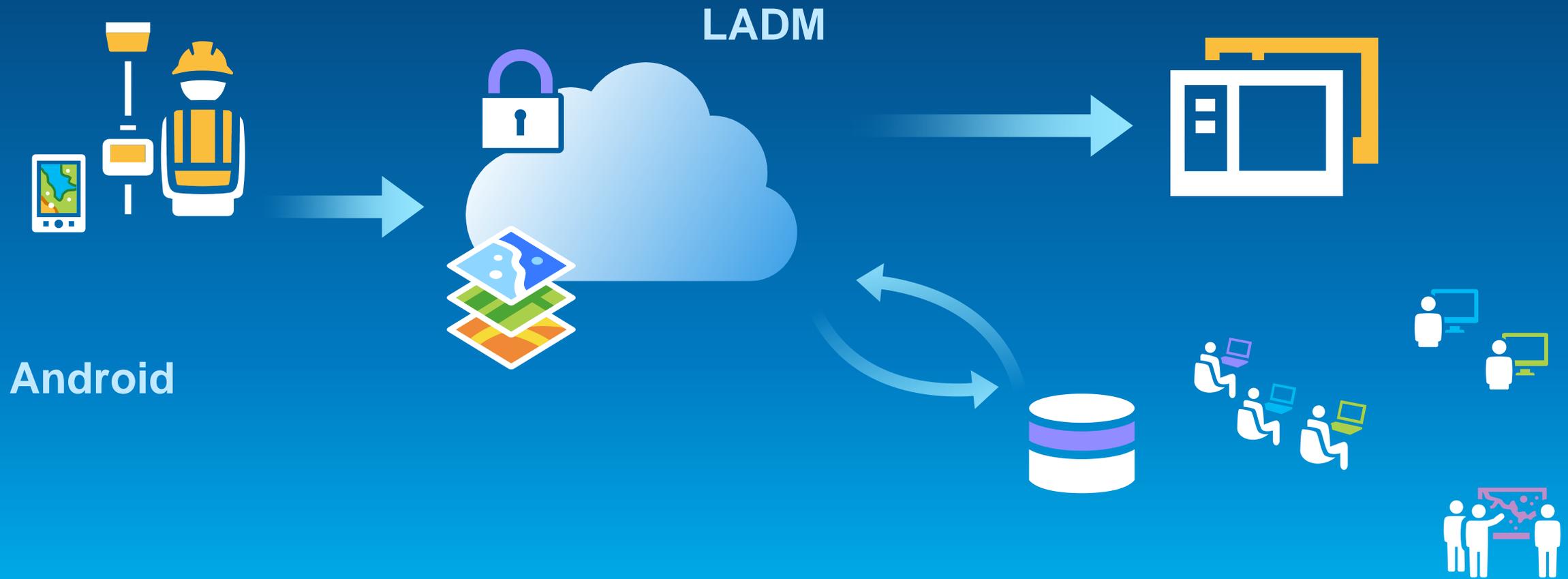
Why this Approach?

Fit for purpose and fit for the future 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

COTS and configurable



Startup Cadastre Workflow

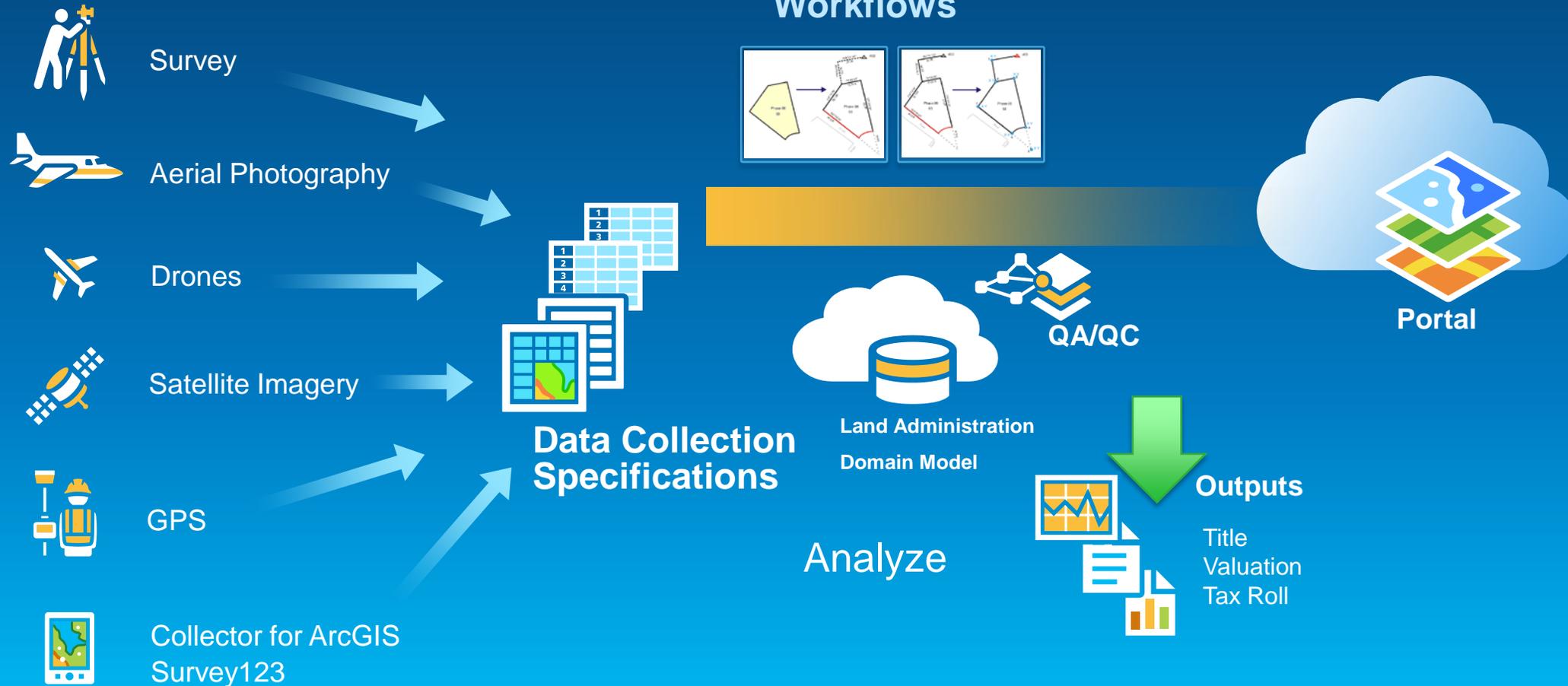
Fit for Purpose....Fit for the Future.....Scaleable.....Secure....

Field Data Collect

Mangage

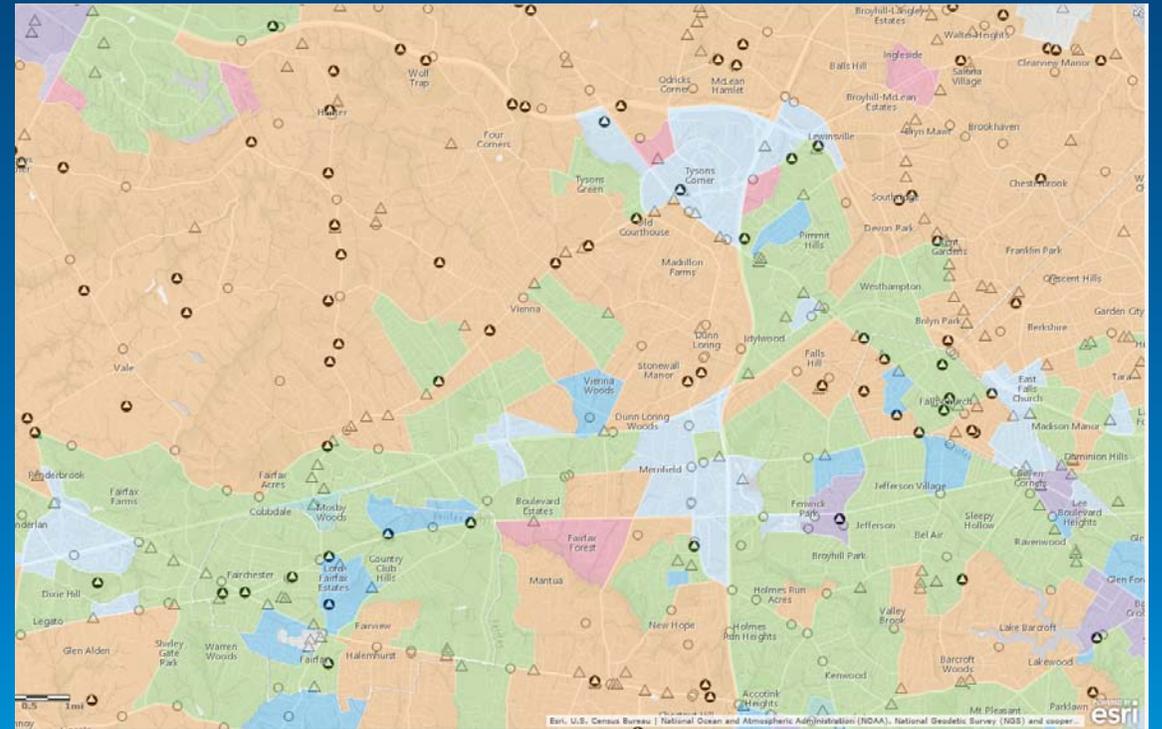
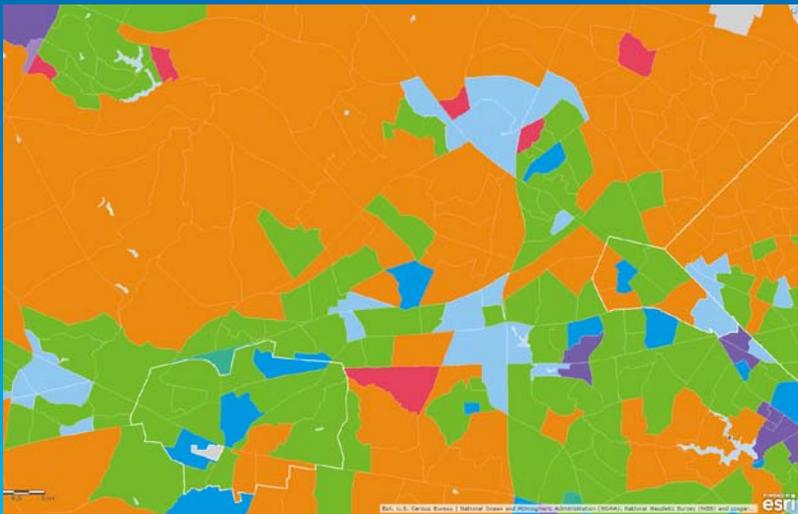
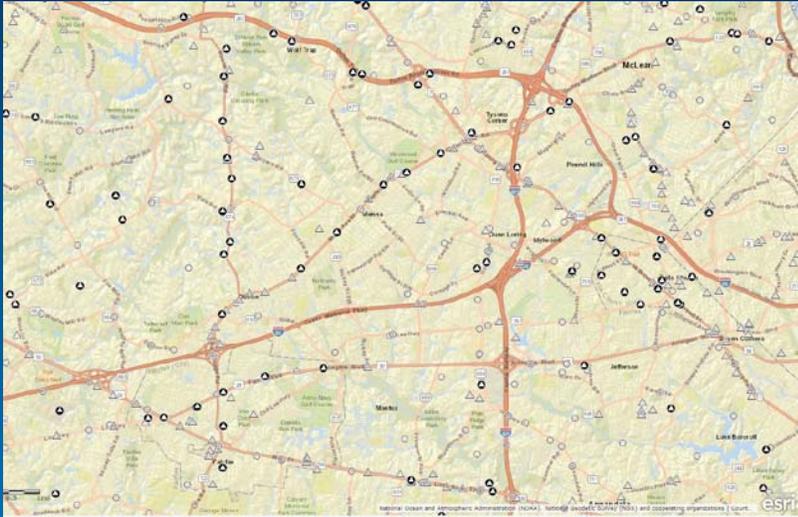
Share/Publish

Standard Parcel Workflows



Value Analysis, Overlay, and the Mortgage Crisis

Data and analysis to understand land market trends and patterns



GIS supports a secure land market...



Understanding our world.