

Applying Geography Everywhere

....how GIS is transforming business trends



Geography

The Integrating Science of Our World

Providing Content and Context for Understanding Everything

. . . Helping Address
Our Global Challenges



We

Are Entering a Period of Geographic Enlightenment

GIS Is Awakening the World to the Power of Geography

And Creating a Better Future





GIS Provides the Framework and Process

For Applying Geography



GIS Is Evolving

UAVs

A Whole New Pattern Is Emerging

Crowdsourcing
Sensors
Field Survey

Real-Time
GPS
Social Media
Remote Sensing



Web GIS

Implementation

Open

LTimo

Visualization

Collaborative

Analytics

Apps

3D

Applications

Configurable

Agile

Easier

Ready to Use

Virtualization

Technology

Big Data

Faster Computing

Distributed Processing

Cloud

IoT

Smart Devices

Consumerization

Integrating Many Innovations

Web GIS Is a Transformational Architecture

Opening, Integrating and Simplifying Everything

Traditional



Systems of Record



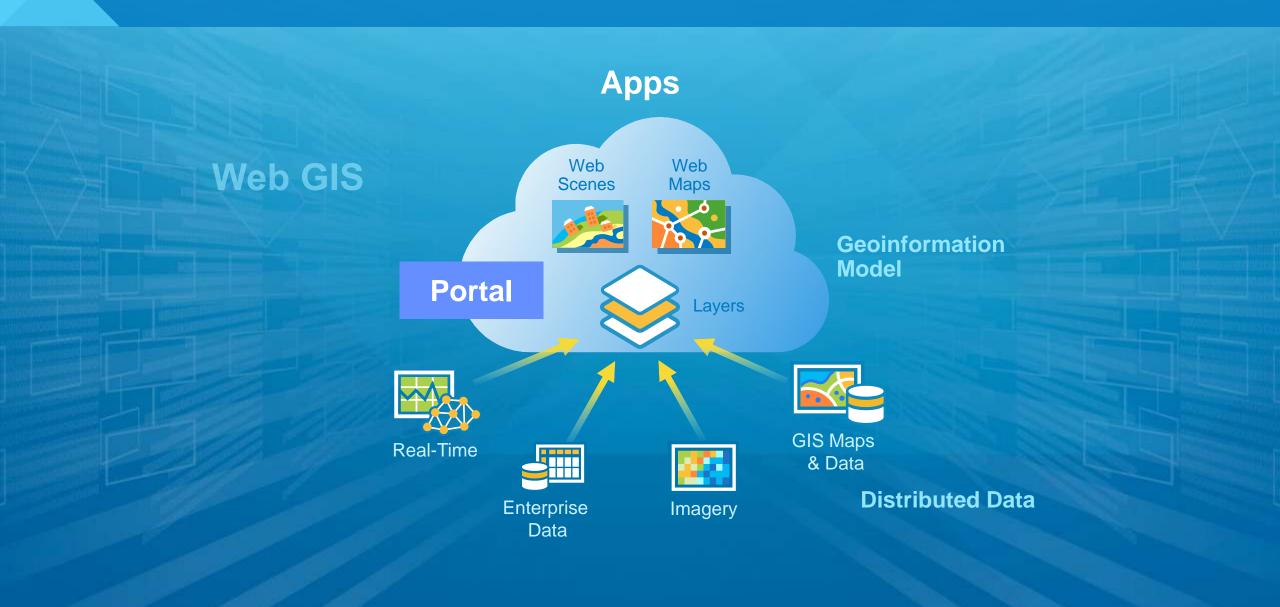




Bringing Together Your Existing Systems . . . and Creating a <u>System of Engagement</u>

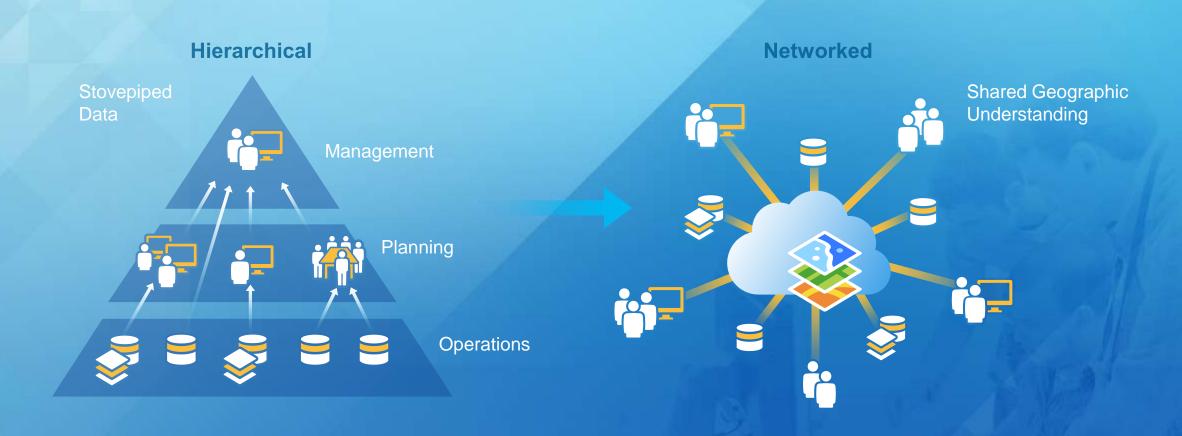


Geoinformation Model > Abstracts and Organizes Geospatial Data



Web GIS Transforms Organizations

Creating Shared Information and Facilitating Collaboration



Opening Access and Engaging Everyone

Web GIS Creates New Connections Across Organizations

Providing an Open Platform for Collaboration and Innovation



Leveraging the Value of Shared Data

Open Platform > Ensuring Data and System Interoperability

Standards

WCS KML **GML** WMS SQL **CSW** SOAP **OPENDAP WMTS** SLD IFC ISO **WPS** GeoPackage NetCDF OGC® LAS **REST** Principal Member

Industry Formats

WaterML Web Scene (I3S) **Imagery OLEDB** DXF Hadoop CityGML **DBMS AIXM** COLLADA DWG DGN OneGeology FileGDB **INSPIRE** Shapefiles

Open Software

Interoperability Open APIs

Extensible Open-Source Libraries
Architecture

Open-Source Open Data
Integration

Embeddable

Esti is on GitHub!

Apps Making ArcGIS Available Everywhere





Configurable Solutions That Work Together

App Builders Enabling App Creation

Web App Templates



Web AppBuilder



Widgets

HTML5/JavaScript

AppStudio



Native Apps

Design Once, Run Everywhere . . .

Providing Easy, Configurable, and Extensible Tools

Apps, Maps, and More

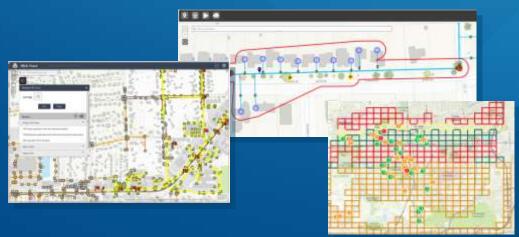
- Ready-to-Use
- **Best Practices**
- Configurable



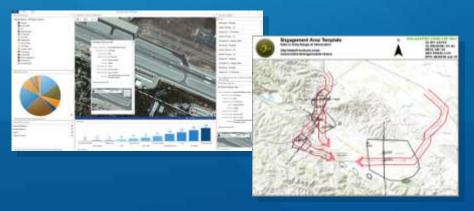
Public Safety and Emergency Management



Utilities and Telecommunications



Military and Security



Fully Supported, Open Source, and Free

Solution Products >

Provide Focused Applications

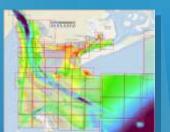
Production Mapping & Charting



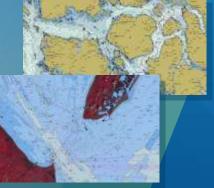
Торо Мар



Aeronautical Chart



Bathymetry



Maritime Chart

Decision Support



Community Analyst



Specialized Areas



Airports



ArcGIS Earth

3D Made Easy

#ArcGISEarth



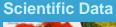






magery Managing, Analyzing, and Serving Remotely Sensed Data

- Integrated Analysis Tools (100+)
- New Workflow Templates
- Additional Sensor Support



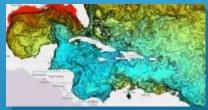


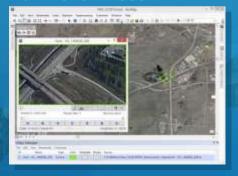
Image Classification Accuracy Assessment



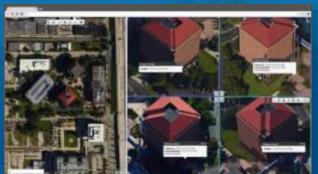
Object-Based Image Analysis



Full-Motion Video



Oblique Imagery and Measurements



Dynamic Processing Chains



Supporting Single Scenes . . . and Massive Collections



Four Operational Patterns for Drones:

Geo-Tagging



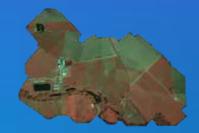


- Asset Management
- Search & Rescue
- Wildlife Inventory
- Real Estate

Mapping



Imagery Mosaics

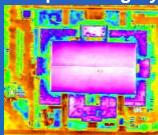


- Precision Ag
- Corridor Management
- Land Planning
- Grounds Keeping

Analytics



Complex Imagery



- Wetlands Delineation
- Wildfire Mapping
- Resource Exploration
- Forest Management

3D Monitoring

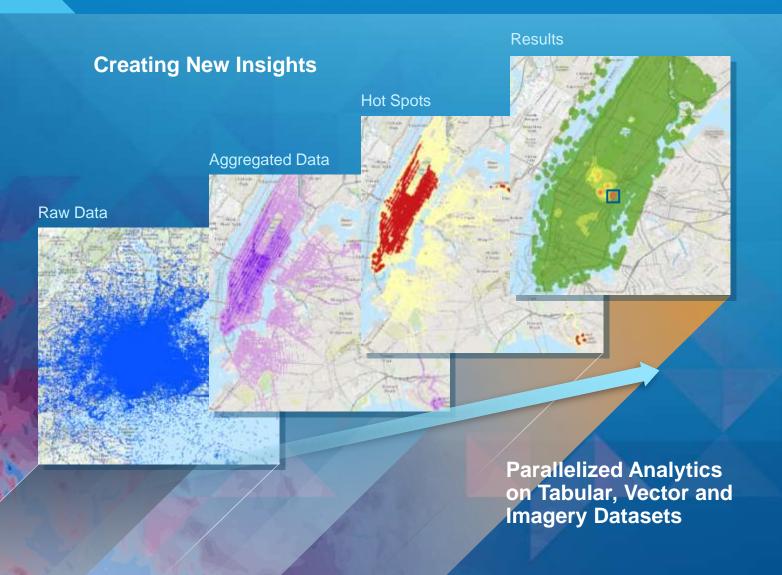


Oblique 3D Imagery

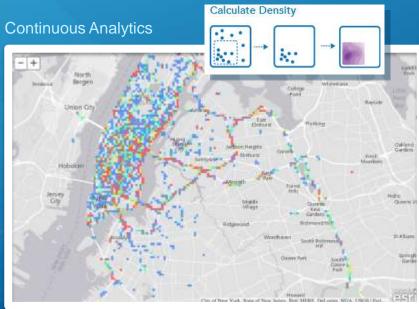


- Facilities Management
- Insurance
- Building Contractors
- Open Pit Mining

Big Data • Geoanalytics and Visualization of Massive Data

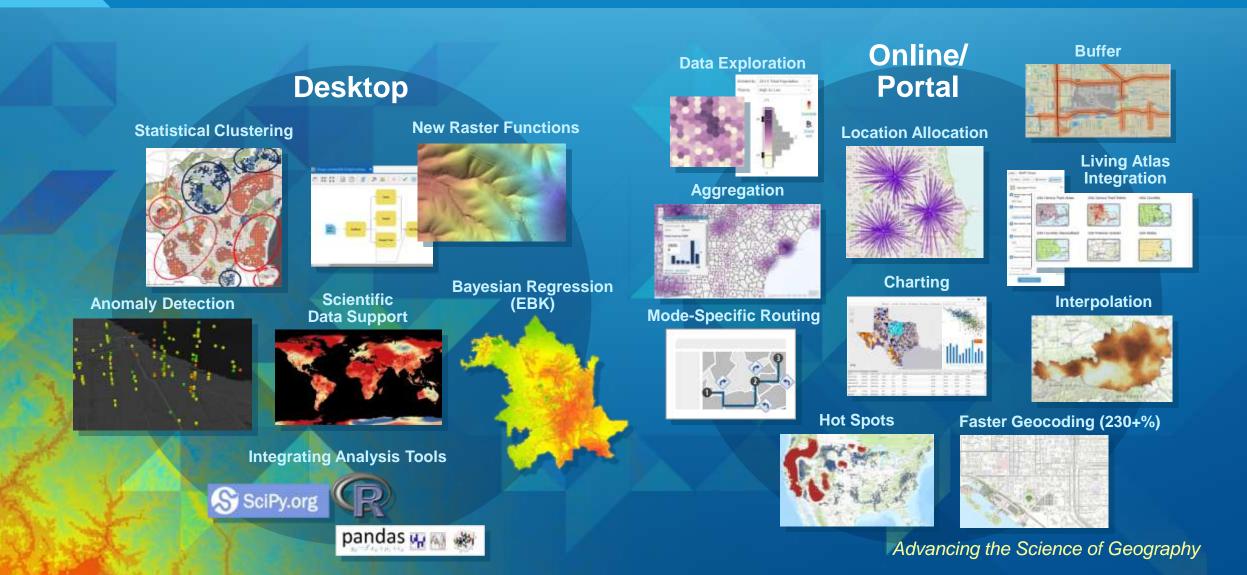


NYC Taxi Data



Coming . . . GeoAnalytics Extension

Spatial Analysis Providing Insights and Understanding



Real-Time High-Velocity Monitoring and Alerting

Many Performance Improvements



Boston Marathon

Analytics Analytics Analytics Analytics

