2017

Esri Senior Executive Summit

Sharing
Creating
Learning
Connecting
Relationships
Applying
THE SCIENCE OF WHERE
PURPOSE
Helping You Succeed
Business Value
Concepts
Applications
Technology Trends
Implementation Patterns

Esri Serving Our Users

Advancing GIS and The Science of Where

Products

Services

Investing in the Future (R&D 31%+)

Support

Partners

Education

Strong and Growing

Engineering and Science Focus

Promoting Spatial Literacy

Supporting Employees

Working to Make a Difference

Esri Users

Over 1 Million Users

Organizations

1,200 National Government Agencies

11,500 States & Regional Agencies

30,800 Cities & Local Governments

32,000 Businesses

8,500 Utilities

12,600 NGOs

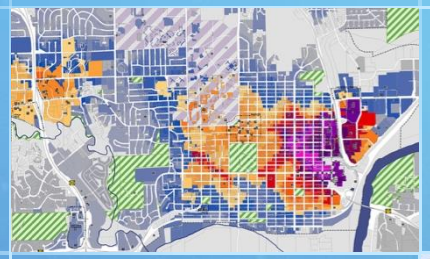
11,000 Colleges & Universities

GIS Is Transforming our World

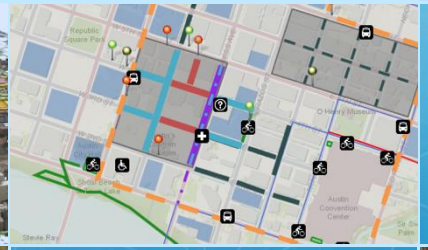
Helping Organizations Do Their Work Better
Delivering Business Value Everywhere

GIS

Is Delivering Value



land-use planning



urban design

transportation

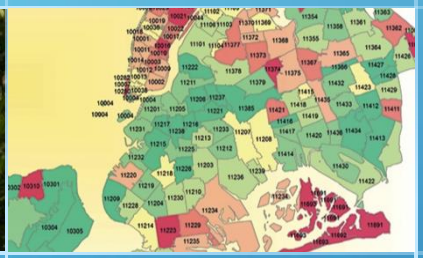
renewable energy

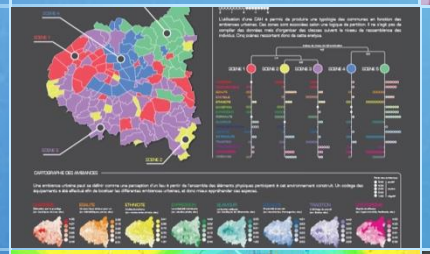
GIS

Is Delivering Value

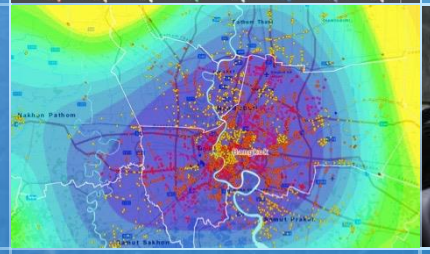
human health

agriculture

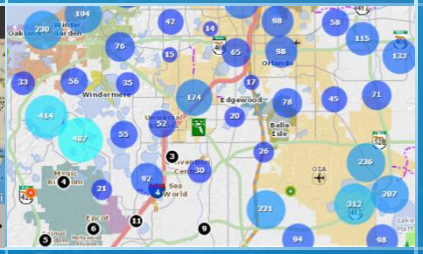




economic development



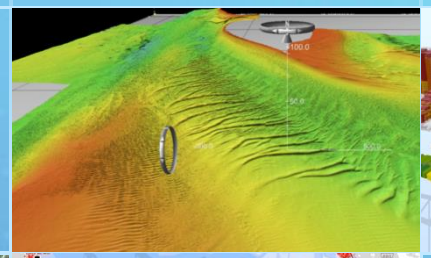
education

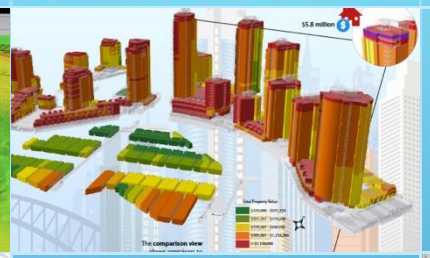


GIS

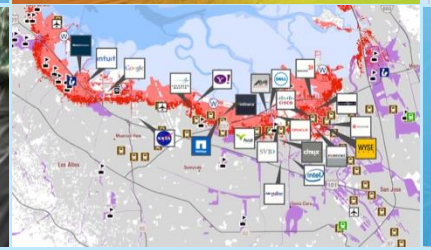
Is Delivering Value

environmental conservation





utilities



business management

public safety

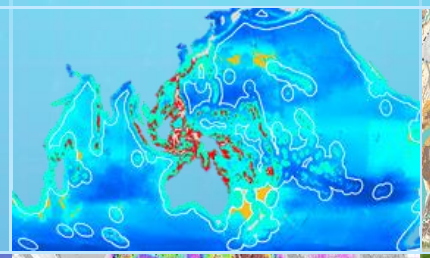
facility management

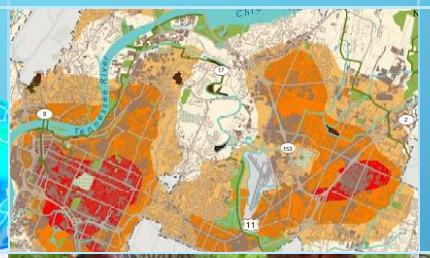
land information

GIS

Is Delivering Value

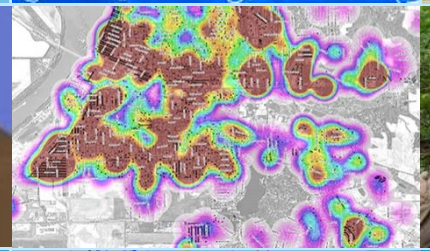
marine management

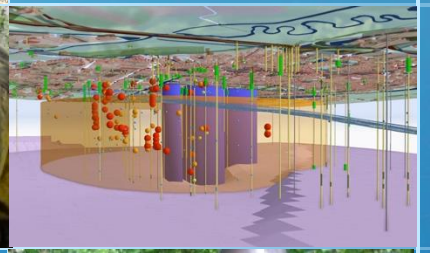


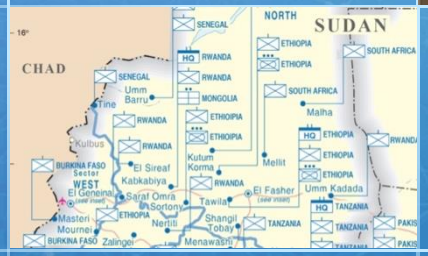


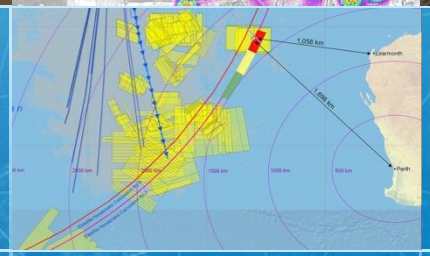
natural resources

national security





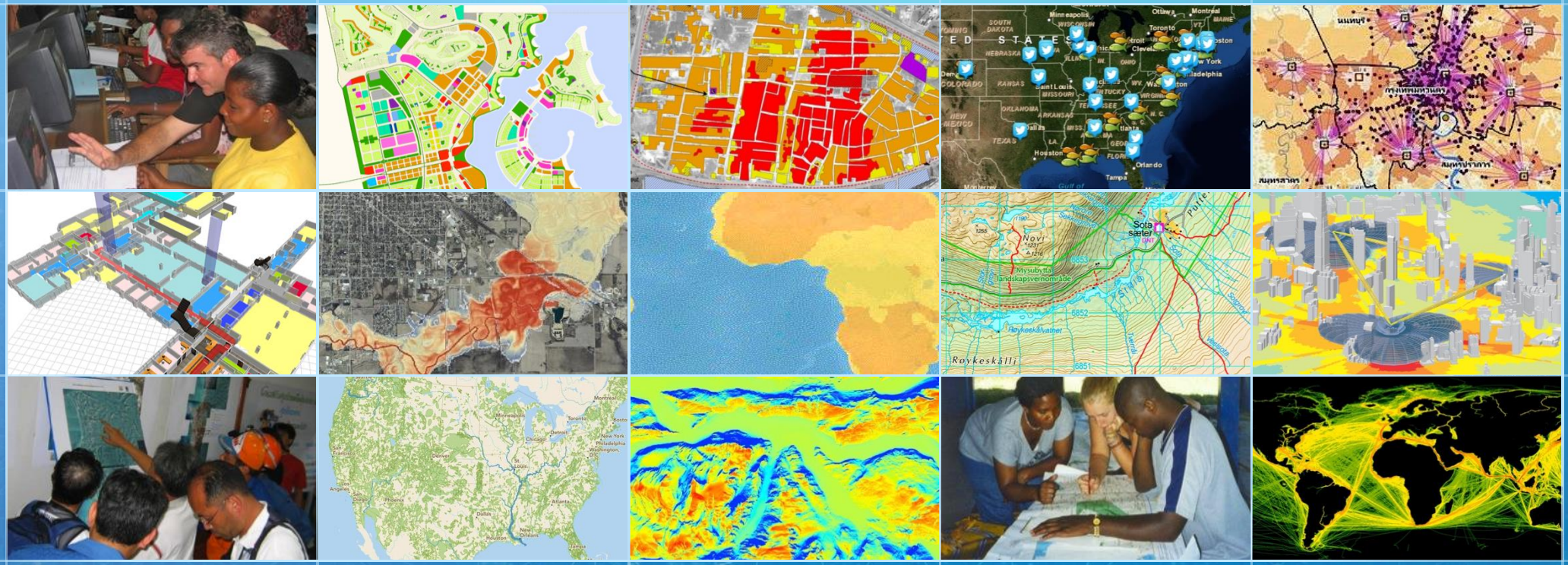




disaster response

GIS

Is Delivering Value



Improving Efficiency, Communication, and Decision Making

What Is a GIS?

A System for Managing and Applying Geographic Information

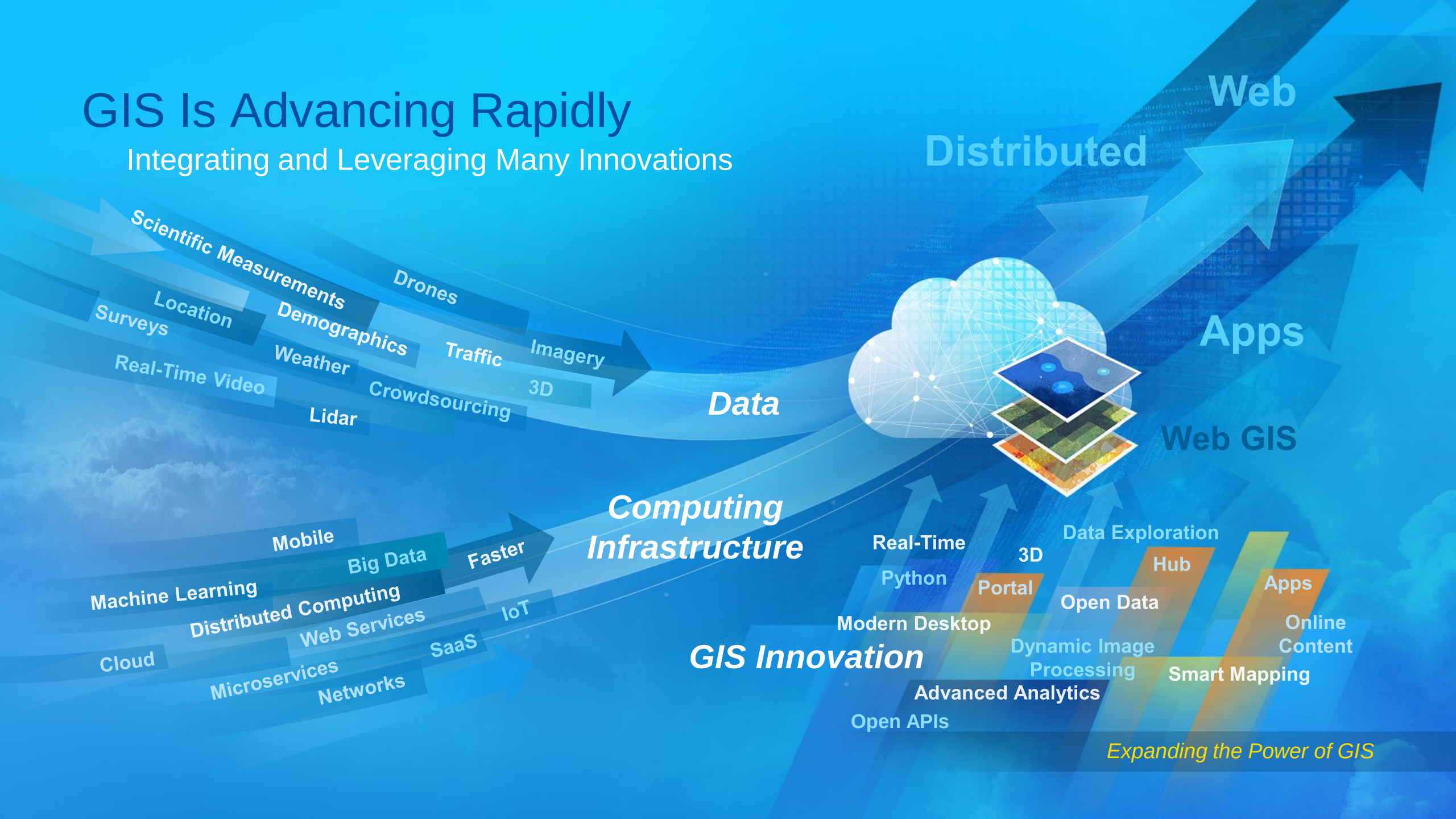
GIS Is a Platform

Integrating People,
Processes, Things,
and Data About Them

Using the Power of Where
to Integrate Everything

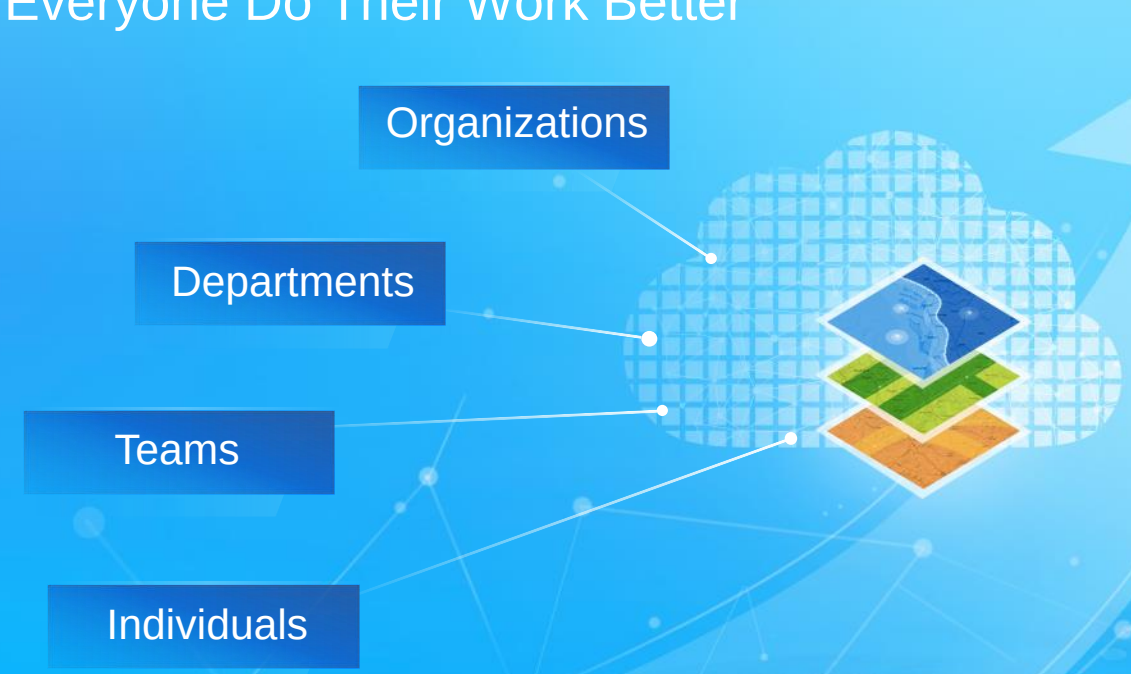
GIS Is Advancing Rapidly

Integrating and Leveraging Many Innovations



Web GIS Is the Modern GIS Pattern

Helping Everyone Do Their Work Better



Growing Exponentially

Sharing Knowledge

Collaboration

Leveraging Web Services

Improving Productivity and Efficiency

Web GIS Is

Expanding the Impact of GIS Across the Organization

Providing Everyone the Geographic Advantage

GIS

Is an Enterprise Business Platform

Providing for Faster and Better Decision Making . . .
. . . and More Agile Organizations

GIS

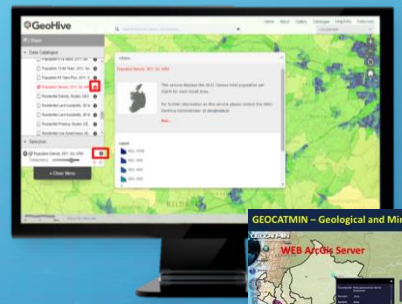
Is an Enterprise Platform for Government

City Service - California

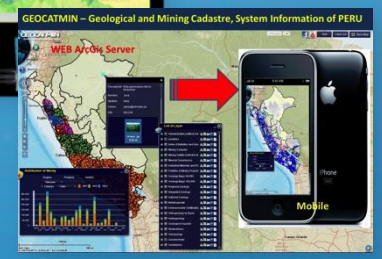
THE UN

Columbus, Ohio

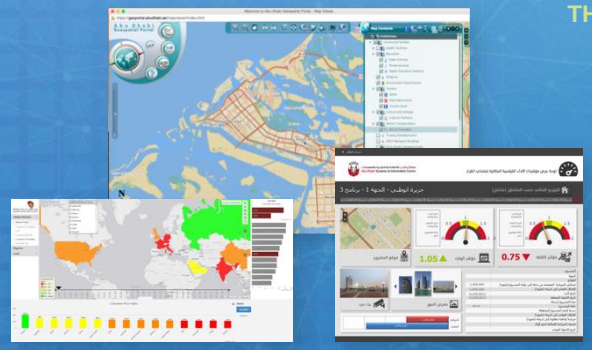
USDA



Ireland



Geology and Minerals, Peru



Abu Dhabi

Land Information - Wisconsin

Los Angeles

Manaus, Brazil

NOAA

Improving Productivity, Decision Making, and Transparency

Web GIS

Connects Individuals, Organizations, and Communities

Individuals

Breaking Down Barriers

Organizations

Sharing Geographic Knowledge

System of Systems

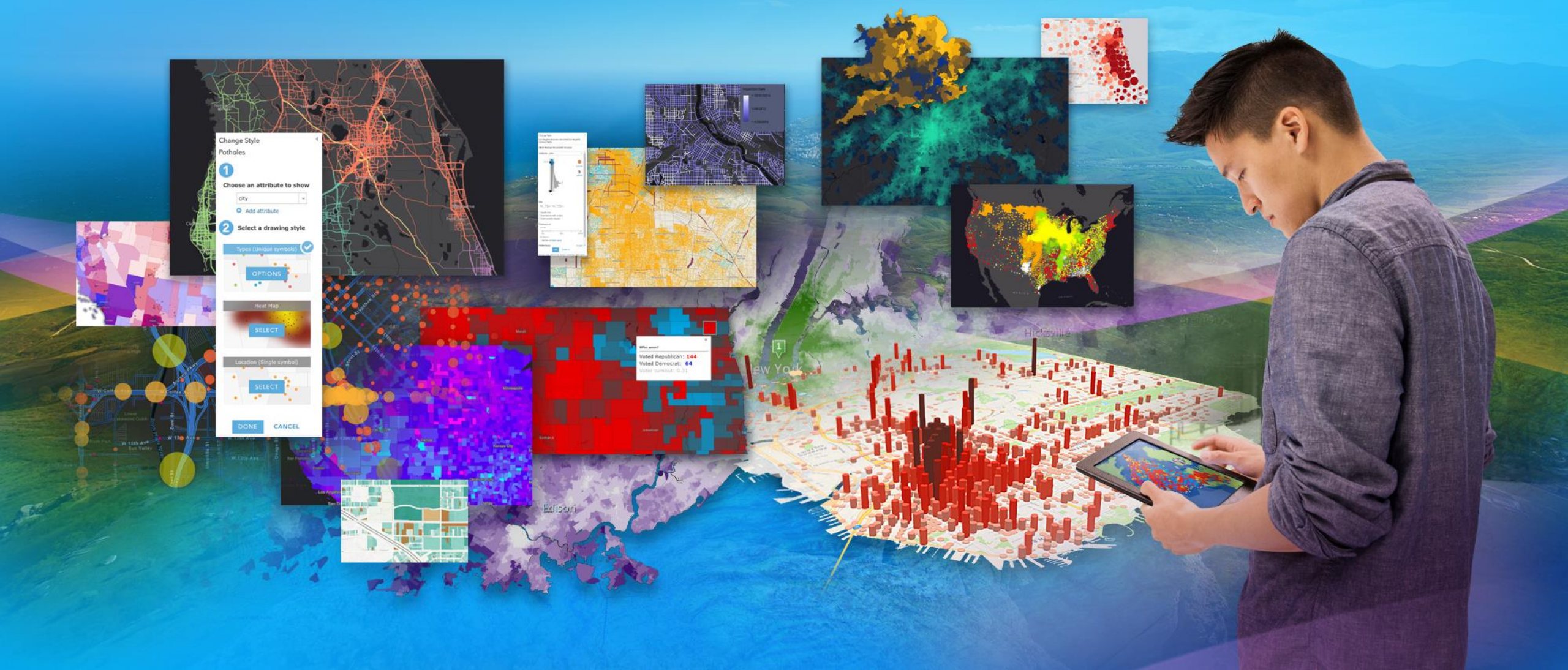
Networks of Organizations

GIS Integrates Real-Time Information

Leveraging Dynamic Data About Everything

GIS Supports Smart Mapping

Creating Beautiful Maps



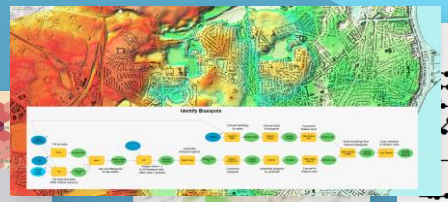
GIS Supports Spatial Analytics

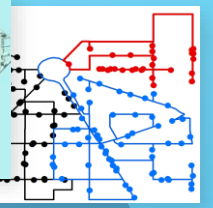
Powerful Tools for Analyzing
Patterns and Relationships in Data

Analysis and Modeling

Model Builder

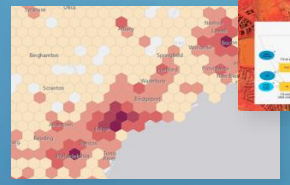
Dynamic Aggregation





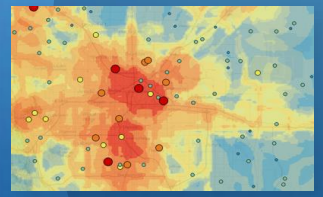
Optimized VRP Clustering

Density

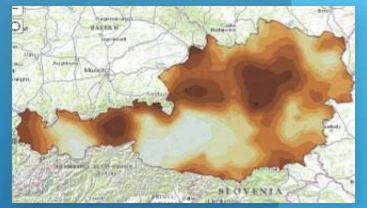


Optimum Site Selection

EBK Regression Prediction

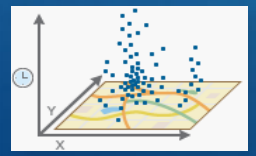


Network Analysis



Suitablity Modeling

3D Analysis



4D Pattern Mining

Geocoding

Providing Insights and Understanding

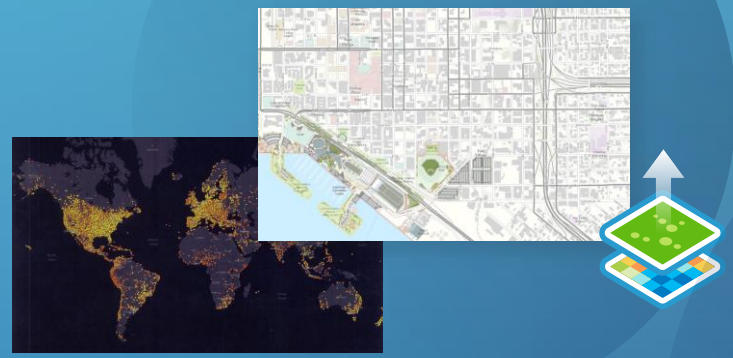
GIS Supports Location Analytics

Business Decision Making

Exploratory Spatial Analysis (Spatial BI)

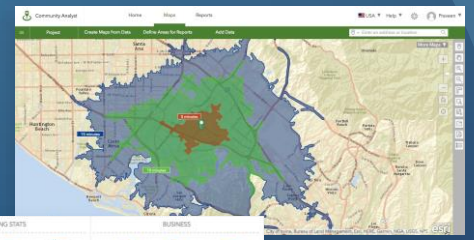
Insights:
A Spatial BI

Geocoding & Geoenrichment



Business Decision Support

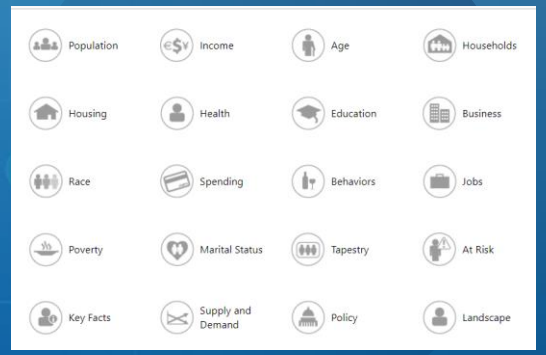
Demographic Analysis



Location assessment

Infographics

Focused Content



For Analysts and Data Scientists

GIS Is a Complete Imagery Platform

Providing Content, Processing, Analysis, and Management

Landsat

High-Resolution Satellites

Drones

Small Satellites

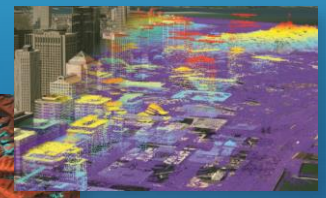
Weather

Aerial Photos

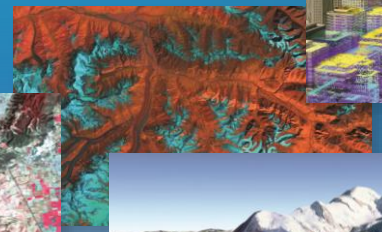
Radar

Many Sources

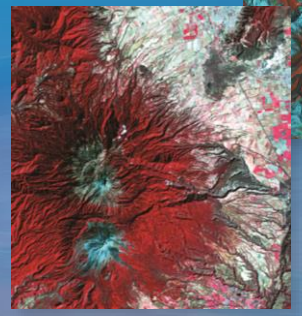
Urban Lidar



Vegetation Health



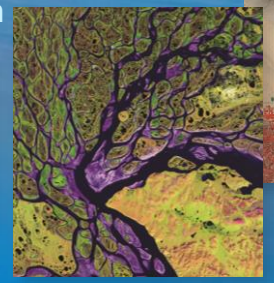
Volcano Monitoring



Surveillance

3D Visualization

Storm Tracking



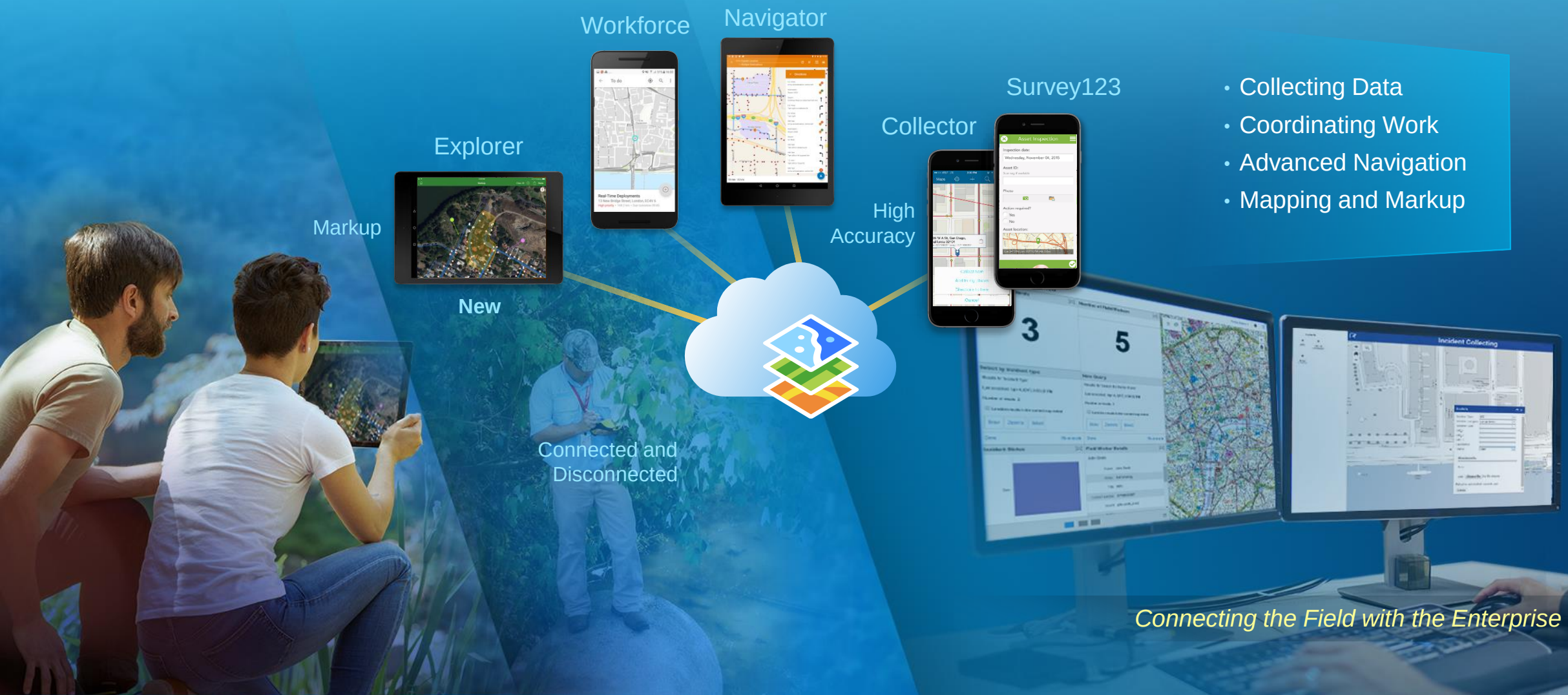
Agriculture

Hydrography

Powerful Analytics

GIS Supports Field Operations

Taking GIS Beyond the Office



- Collecting Data
- Coordinating Work
- Advanced Navigation
- Mapping and Markup

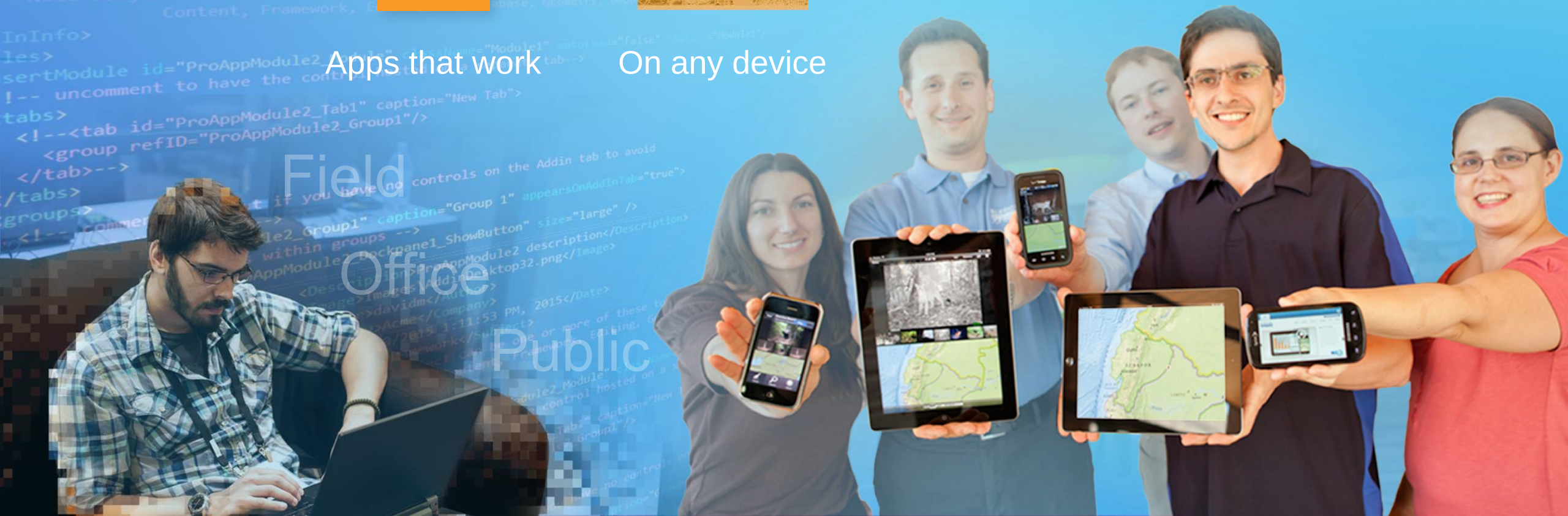
Connecting the Field with the Enterprise

GIS Supports Apps That Empower Everyone

Easy-to-Use Apps That Work On Any Device, Anywhere, Anytime

Apps that work

On any device



GIS Enables Community Engagement

Organizing and Managing Community Interactions

Citizens Need Information . . .
. . . Leaders Need Input

Our Work

Creating Useful Technology and Supporting Our Users

Spatial Analysis
Content
Mapping
3D
Solutions
Data Management
Editing
ArcGIS
Apps
Usability
Security
Cloud
Big Data
Open Data
Developers
Quality
Real Time
Enterprise Integration
Performance
Identity
Standards
Geodesign
Administration
Interoperability
Imagery

ArcGIS | A Complete GIS Platform

A System for Managing and
Applying Geographic Information

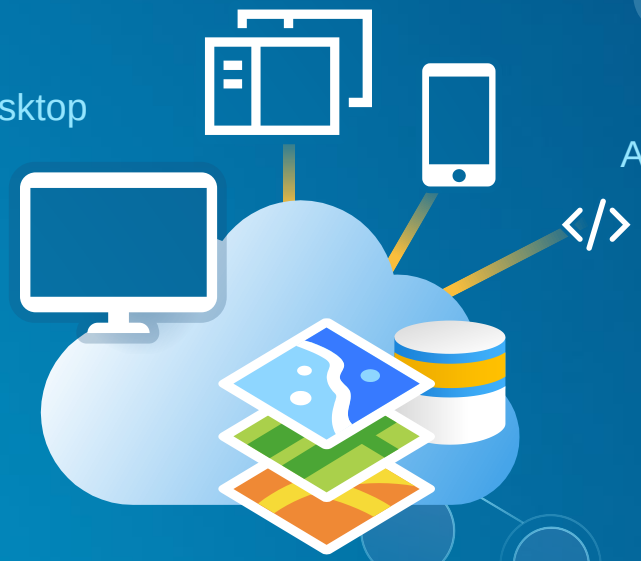
Apps

Open

Desktop

APIs

Services Based



Deployable On-Premises
and in the Cloud

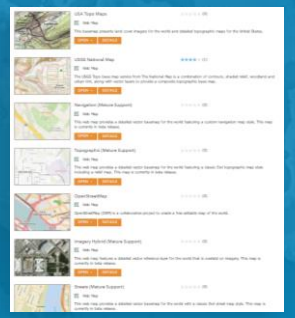
Available as SaaS

Distributed

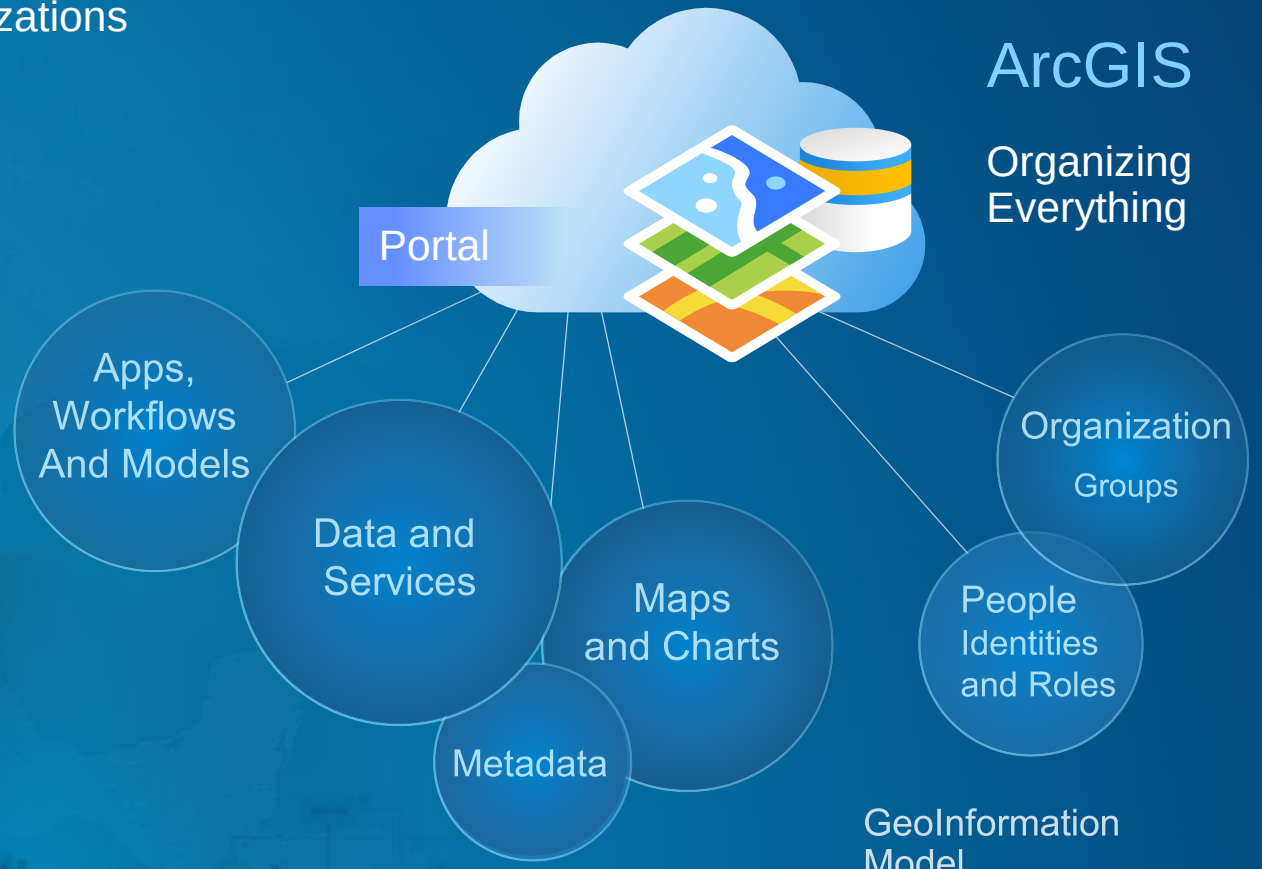
Supporting Individuals, Teams, and Organizations

ArcGIS | Organizes and Manages All Aspects of a GIS

Data, Information Products, Apps, Models . . .
. . . and People and Their Organizations



Integrated User Experience



ArcGIS | Supports Multiple Implementation Patterns

Desktop

Server

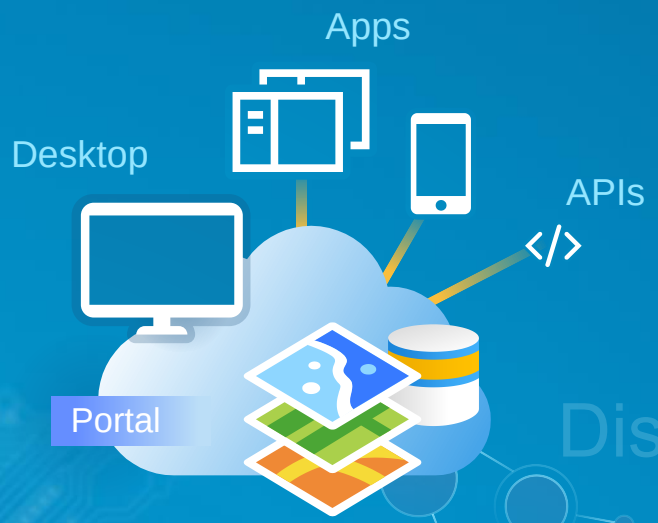
Enterprise/Online

Distributed

System of Systems

Web Services Are Interconnecting Everything

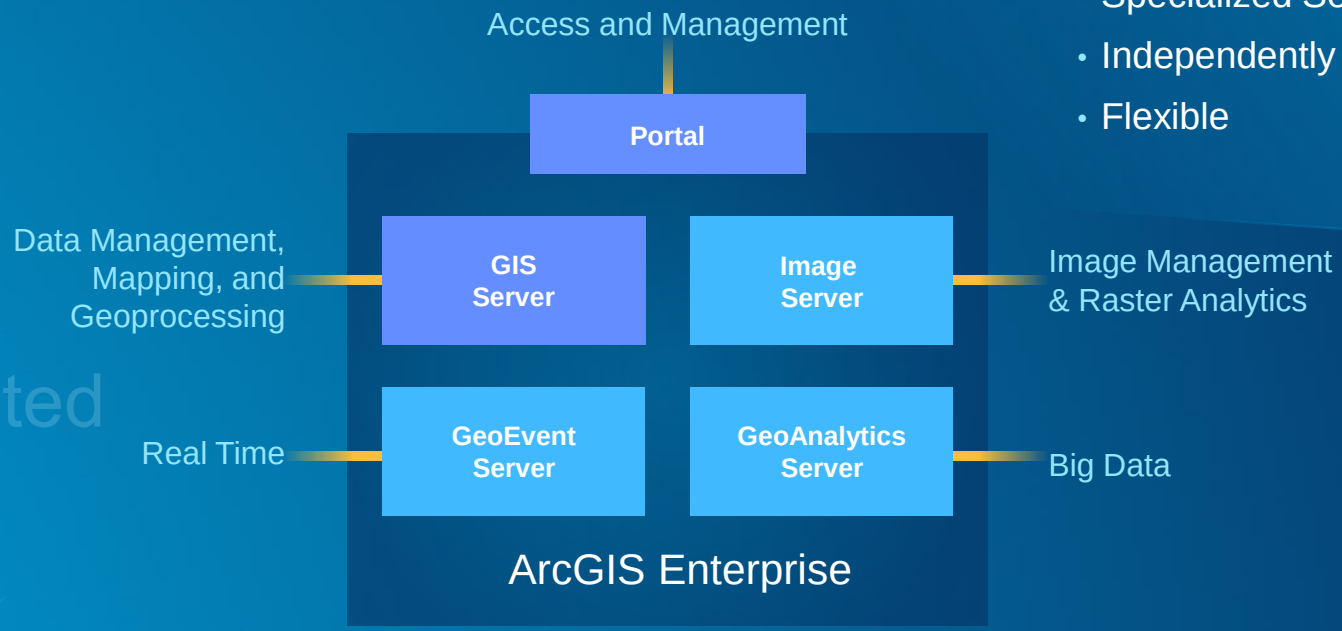
ArcGIS Enterprise | Next Generation Server Platform (10.5)



Enterprise Data Management, Analysis, and Mapping

Modular and Massively Scalable

- Specialized Servers
- Independently Scalable
- Flexible



. . . Enabling Organizations to Take GIS to Scale

ArcGIS | An Open, Interoperable, and Standards-Compliant Platform

Any System

Open Standards and Formats

KML
WFS
GML
WCS
WMS
WWW
IFC
SQL
Web Scene (I3S)
OPeNDAP
SLD
SOAP
WMTS
LERC
JSON
LAS
CSW
REST
WaterML
INSPIRE
WPS
NetCDF
Shapefiles
ISO
GeoPackage
OneGeology
CityGML

OGC® Principal Member

Product Integration

SQL Server
Adobe Creative Cloud
SharePoint
MS Office
Azure
AutoCAD
AWS
Netezza
Teradata
IBM Cognos
SAP HANA
Oracle

Open Software

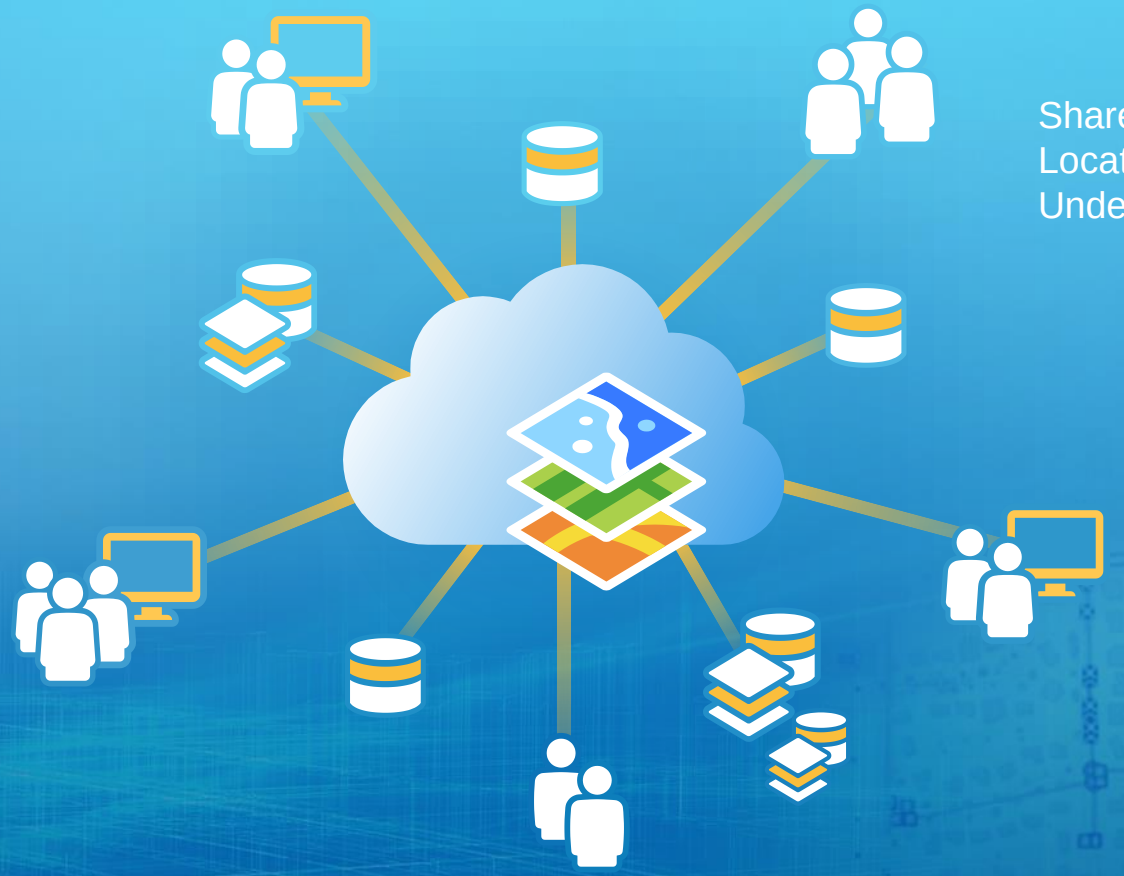
Open Data Access
Open APIs & SDKs
Extensible Architecture
Embeddable Components
Open-Source Contributions (500+)
Open-Source Integration

. . . Successfully Integrated into Thousands of Systems

Implementing GIS

Requires More Than Technology

- Vision, Leadership, and Involvement
- Strong Business Case
  - Value and Impact
  - Cost, IT, Risk Assessment
  - Realistic Timeline
- Ongoing Governance
  (Business, IT, Security, and GIS)
- Good People



Shared
Location
Understanding

. . . and a Culture of Sharing and Engagement

2017

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