Resilient Counties Forum

NACo Annual, July 2017 Franklin County, Ohio



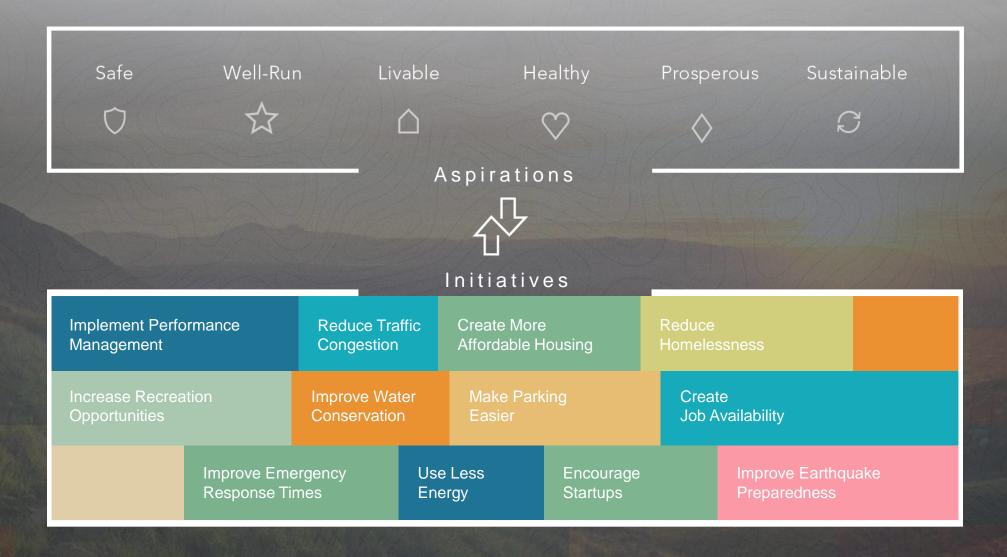
Welcome to...

The Science of Where.



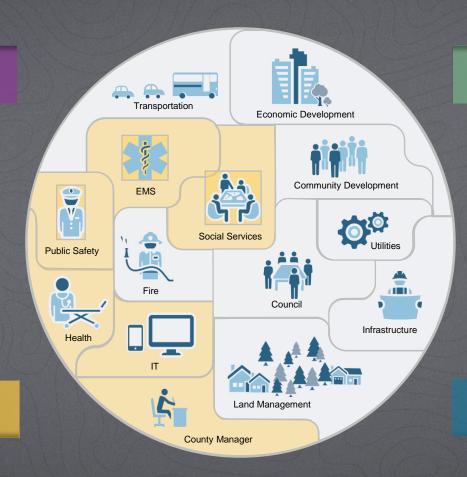


Aspirations get translated into actionable, real-world Initiatives



Initiatives Cross Departments

Sound Economics



Affordable Housing

Economic Development

Clean Water



Geography Enables New Types of Collaboration

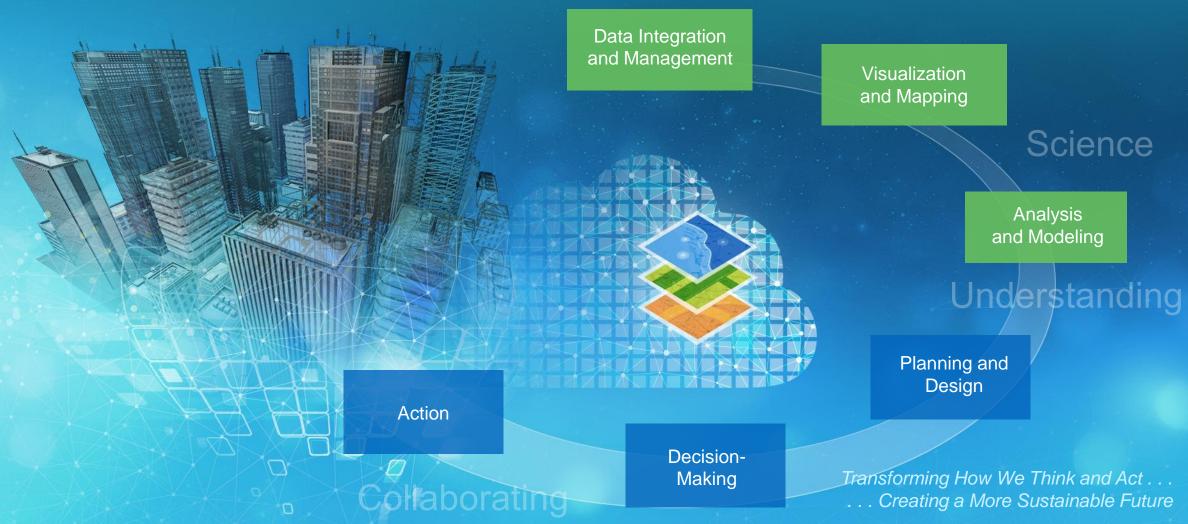
Connecting Individuals, Organizations and Communities



• ... Creating a Nervous System for Our Planet

Geography Provides the Framework and Process

For Enabling a Smarter World



The Gaps

Government Executives



Have limited awareness of the tools and technology and how it could be applied.

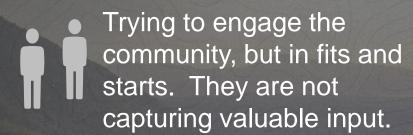
Technology Managers

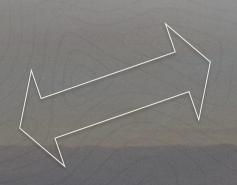


Are consumed by their regular departmental work. Don't always seek out policy issues.

The Gaps

Government Executives



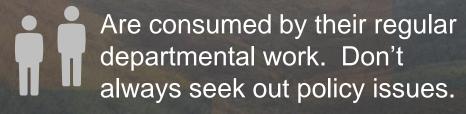




The Community

Not as aware or engaged as they could be. Not maximizing potential to help causes that matter.

Technology Managers



Bridging The Gaps



The Community

Government Executives



Initiative working environment

Everything in one place

In the language of executives

GIS Managers



Bridging The Gaps



The Community

Government Executives



Systematized engagement

Add data to existing system

Participate in an ongoing basis

Initiative working environment

Everything in one place

In the language of executives

GIS Managers







A Hub connectsDepartments ...Community





VISION

Applying . . .

THE SCIENCE OF WHERE

The Science of Geography
The Technology of GIS

VISION

Why is . . .

THE SCIENCE OF WHERE

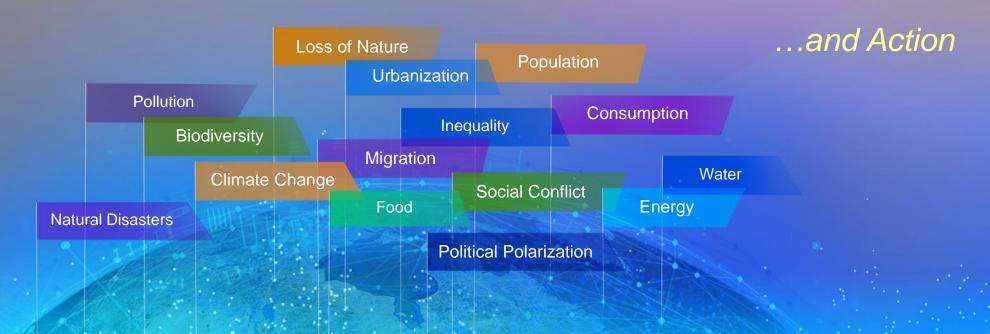
...So Important Now?

OUR WORLD

Is Increasingly Challenged

The Evidence Is Clear...

We Need Better Understanding...
...and More Collaboration









The Field of GIS Is Advancing Rapidly Distributed Integrating and Leveraging Many Innovations Scientific Measurements Drones Location Demo



Web GIS Is the Modern GIS Architecture

Helping Everyone Do Their Work Better

Departments

Teams

Individuals

Leveraging Web Services

Growing Exponentially

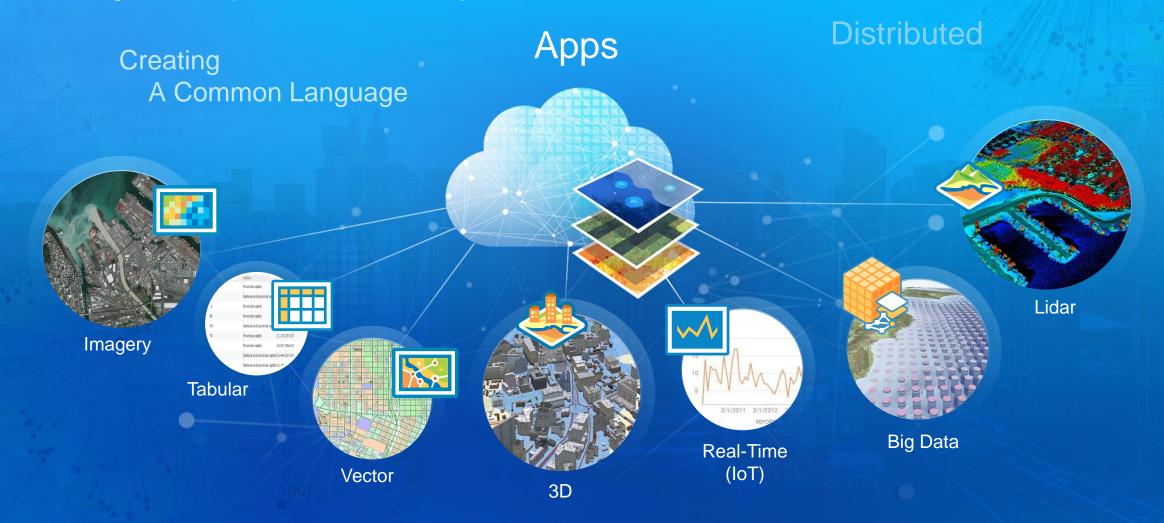
Sharing Knowledge

Collaboration

Improving Productivity and Efficiency

Web GIS Simplifies Working With All Types of Data

Using Web Maps, Scenes, and Layers





Apps Are Bringing the Power of Geography to Everyone

Extending the Reach of GIS



Web GIS Is Revolutionizing How We Plan and Design

Integrating Science Into the Design Process



Agriculture

Nature Conservation

Science & Technology

Pollution

Water Resources

Climate Change

YOUR WORK

Addressing All Our World's Challenges

Social Conflicts

Natural Disasters

Infrastructure

Urbanization & Development

National Security Energy

Business

Environment

Transparent Government THE SCIENCE OF WHERE

Economic Development Natural Resources

Making A Difference

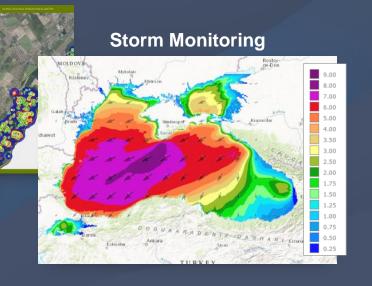
Environmental Modeling and Assessment

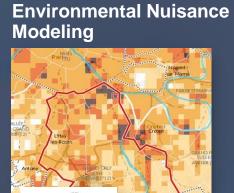
Endangered Insect Habitat

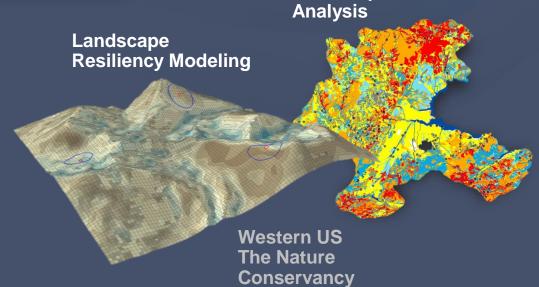
Landscape Character

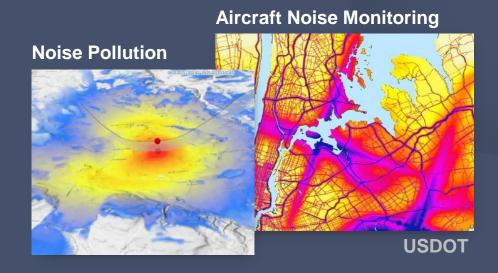








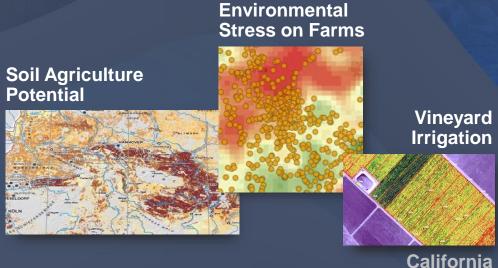




Natural Resource Management

Oil Well Analysis (Using IBM Watson Deep Learning)



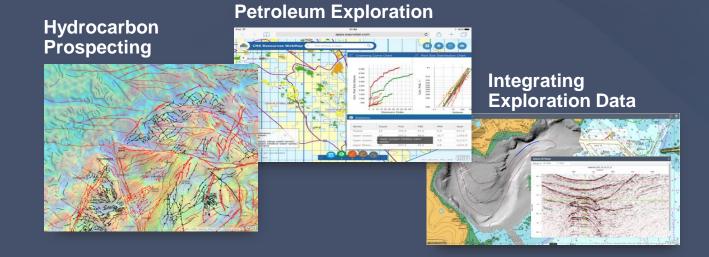


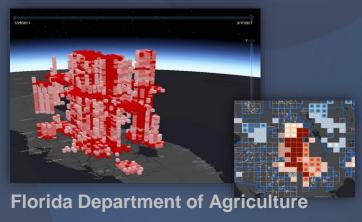


California Scheid Vineyards

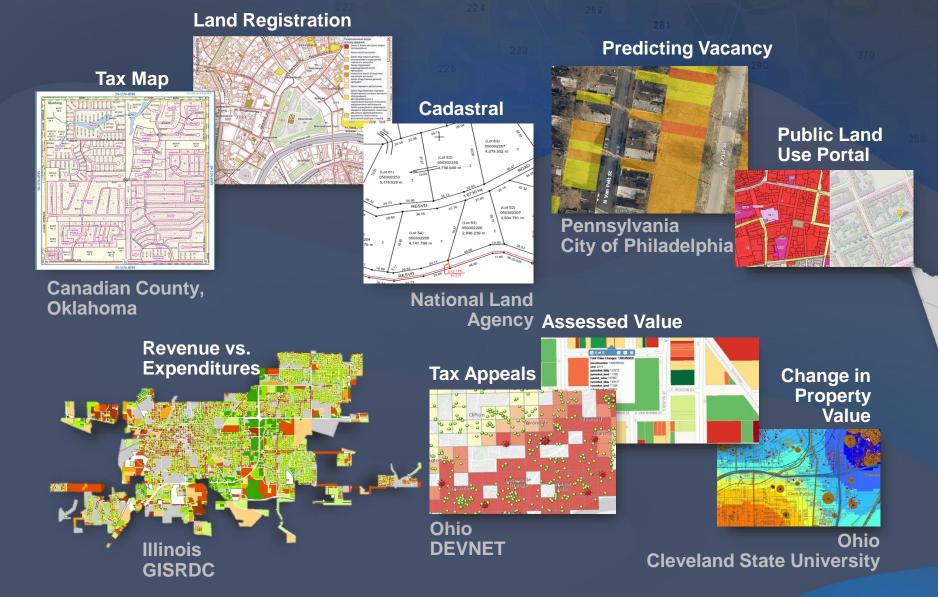
Modeling Citrus Disease

State Forests



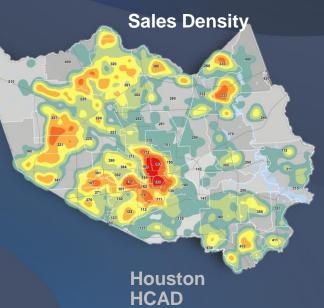


Managing and Analyzing Land Information



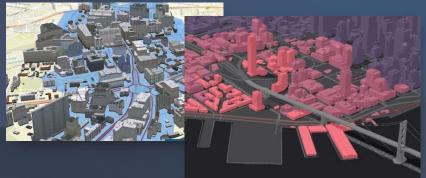
Interagency Collaboration





Urban Design and Planning

Transit Stop Walk Times



San Francisco
Resort Suitability
Planning





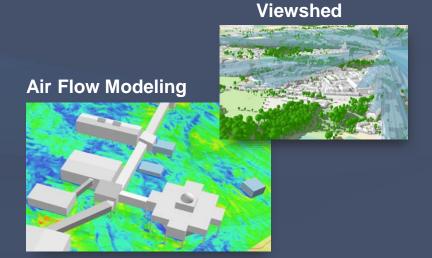
Colorado Design Workshop

Change Detection





Boston
The Trust for
Public Land





Umatilla

Urban Design



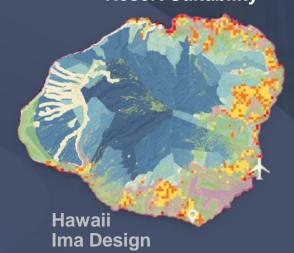
Comprehensive Plan

Northwest area

Control are

Control are

Control are

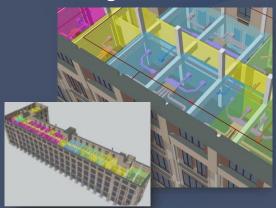


Nevada MDA Information Systems

Visualization

3D Building and City Modeling

Building Asset Management



Planned Housing



New York Bingham University

Zoning Height Analysis





Singapore Land Authority

City Visualization

Integration of BIM and GIS

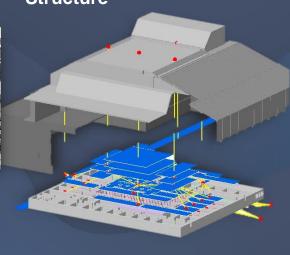


Historical Viewer



Blue Raster

Chernobyl Containment Structure

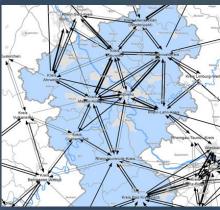


Transportation Planning and Management

Transit Usage Transit and Population

Northern Kentucky LINK-GIS / PDS

Commuter Traffic Modeling



Port Monitoring



ng Pedestria

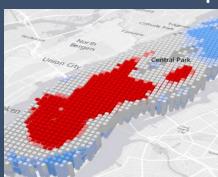


California Mobileye

Parking Capacity



Taxi Pick-Ups

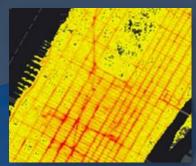


New York University of California

Traffic



Human Movement



New York SafeGraph

Waze Integration



San Francisco Waze

Public Health and Demographics

Population Modeling

Healthy Food Access



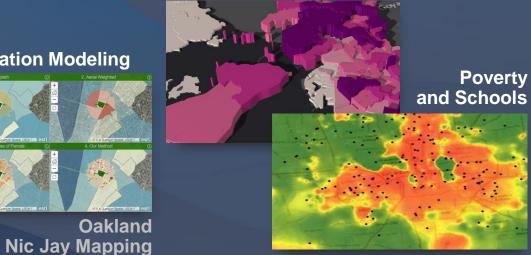
Maryland **Johns Hopkins** University

Modeling Community Well Being



Philadelphia OIT

Population Change



Columbus **NCES**

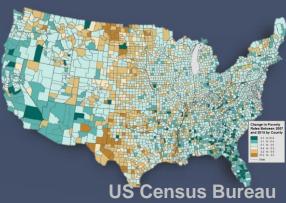
Modeling Voter Characteristics

Oakland

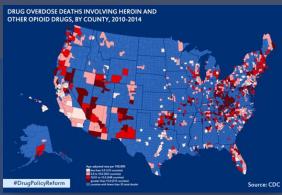


Sacramento **County of Sacramento**

Change in Poverty



Opioid Addiction



Office of National Drug Control **Policy**

Access to Care



New York MobiGIS

Public Safety and Security

Bicycle Collisions



San Francisco **Nic Jay Mapping**

Marathon Tracking HSAC LA Marathon 2017 Map 圆可真母果怎么最 **Event** Management 63,628

HSAC

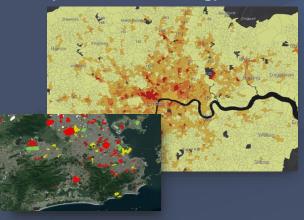


Real-Time Officer Tracking

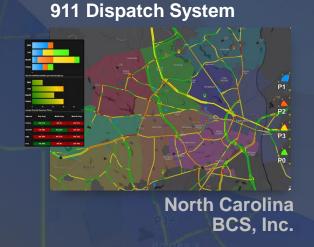


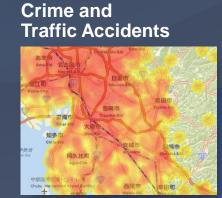
Oklahoma **Department of Public Safety**

Crime Prediction (Machine Learning)











Online Crime

San Diego crimemapping.com

Preparing for and Responding to Disasters

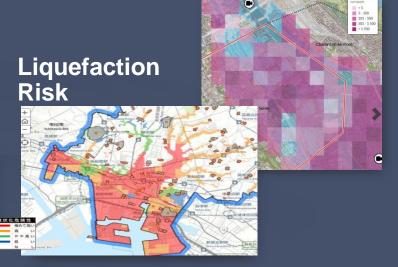
Interactive Plume Modeling



Tsunami Evacuation Routes



Wildfire Risk



Hurricane Modeling



GeorgiaGlynn County GIS

Flood Impacts



Disaster
Preparedness
Emergency



Hailstorm Tracking



Web GIS Is Making Spatial Analysis More Accessible

Advancing Analytics and Geo-Enabling Data Science



Web GIS Is Connecting Everyone

Using Web Maps and Apps to Share and Collaborate





Organizing and Managing Community Interactions

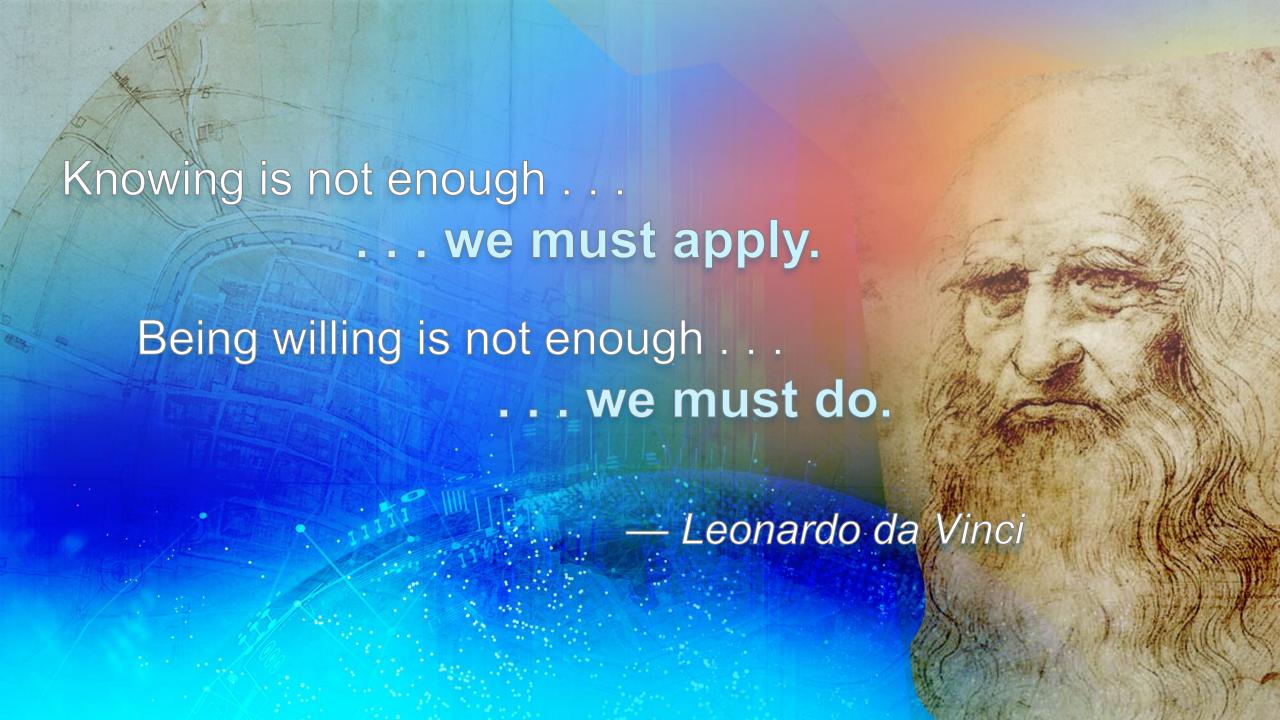


Web GIS Enables a Whole New Scale of Science

Interconnecting Systems and Expanding Collaboration







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