Welcome

# Esri SENIOR EXECUTIVE

### GIS As Support For Smart Decisions

JACK DANGERMOND PRESIDENT, ESRI

Thank You for Coming

# **esri** Serving our users

#### ... Working Together to Make a Difference

Advancing GIS & The Geographic Approach

Engineering and Science Focused

Growing, Strong and Impactful

Promoting Geographic Thinking

Empowering Over 650K Organizations Worldwide

## The Geographic Approach

A Way of Thinking and Problem Solving That Integrates Geographic Science & Information

An Inclusive and Multidisciplinary Process

Science Based

Integrated

Providing a Framework for Understanding and Applying Our Knowledge

Collaborative

Holistic

Understandable

Impacting Every Sector of Our Society

## GIS Enables The Geographic Approach

Data Collection

Visualization & Mapping

Analysis & Modeling

Planning & Geodesign

Decision Making

Action

A Process for Creating Understanding & Facilitating Collaboration

### GIS and Mapping Provide a Fundamental Language

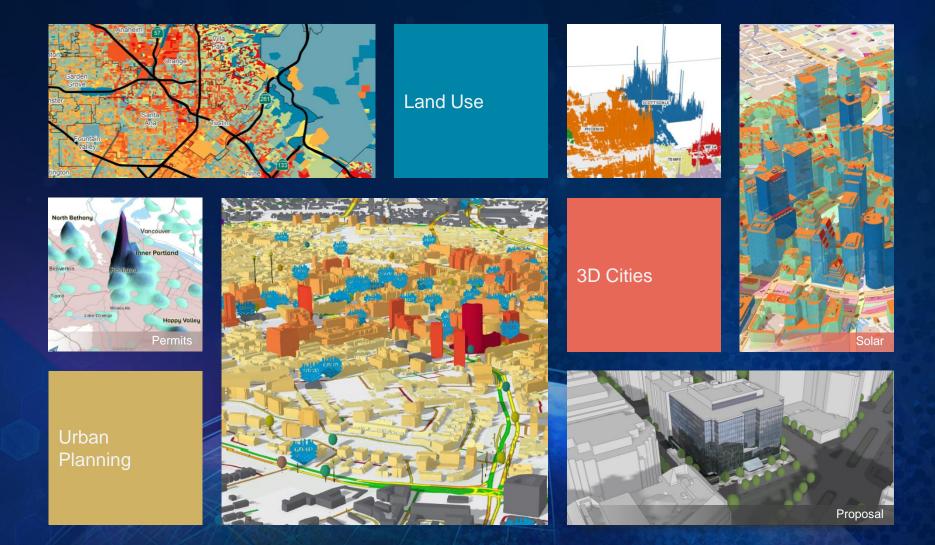
For Organizing & Telling Stories About Our World . . .

Helping Us Understand and Collaborate

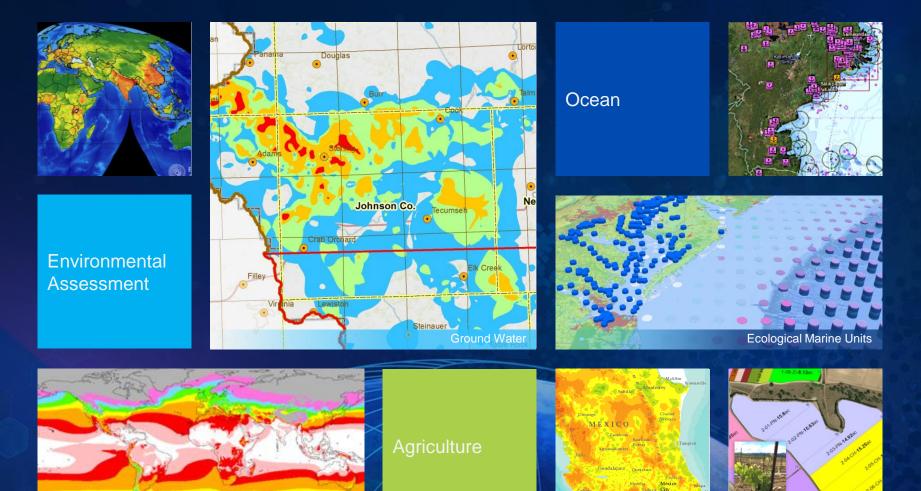
Mapping . . .

What Is

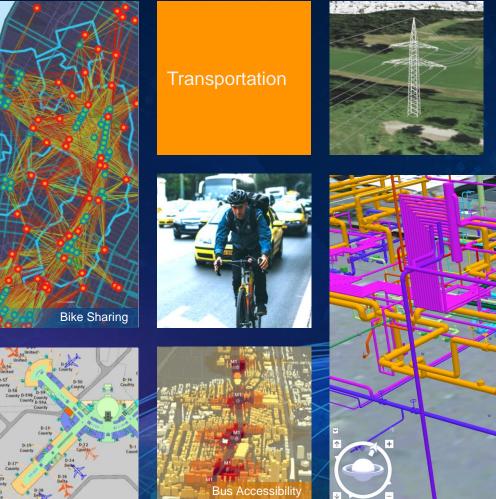
What Could Be















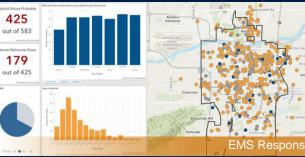




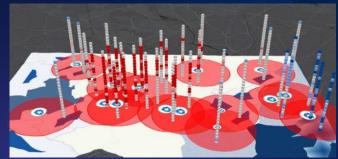


Public Safety

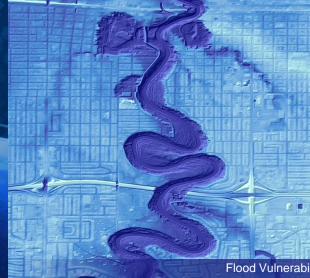






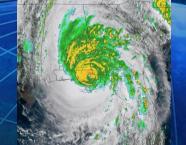


Disaster Response

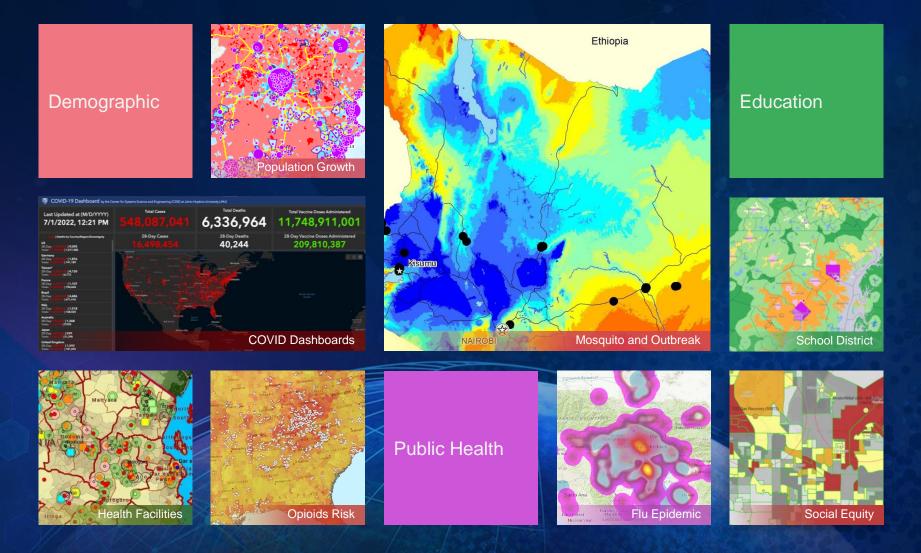








Flood Vulnerability





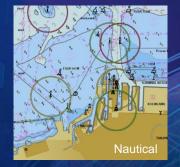
Charting



Mapping



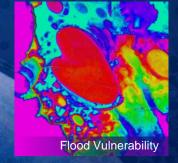








Remote Sensing



### What Is a Modern GIS?

A System for Managing, Sharing and Applying Geographic Information



Improving Efficiency, Communications, Decision Making and Collaboration

# Integrating All Types of Data

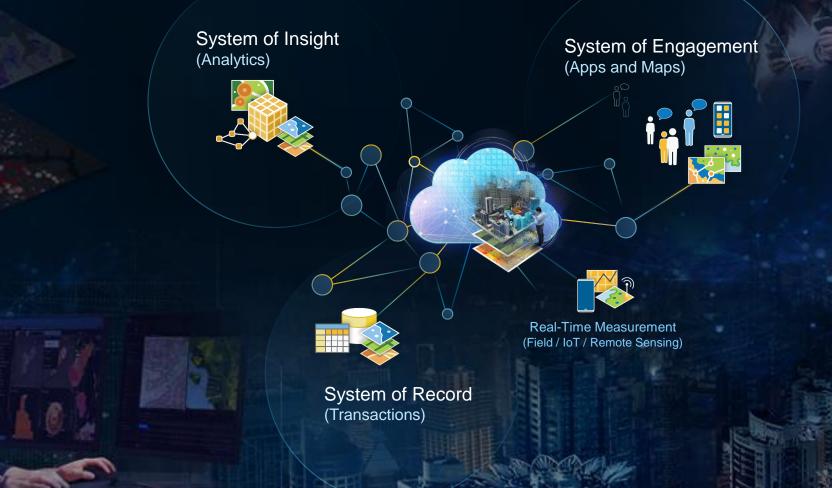
Making Them Available and Immediately Usable



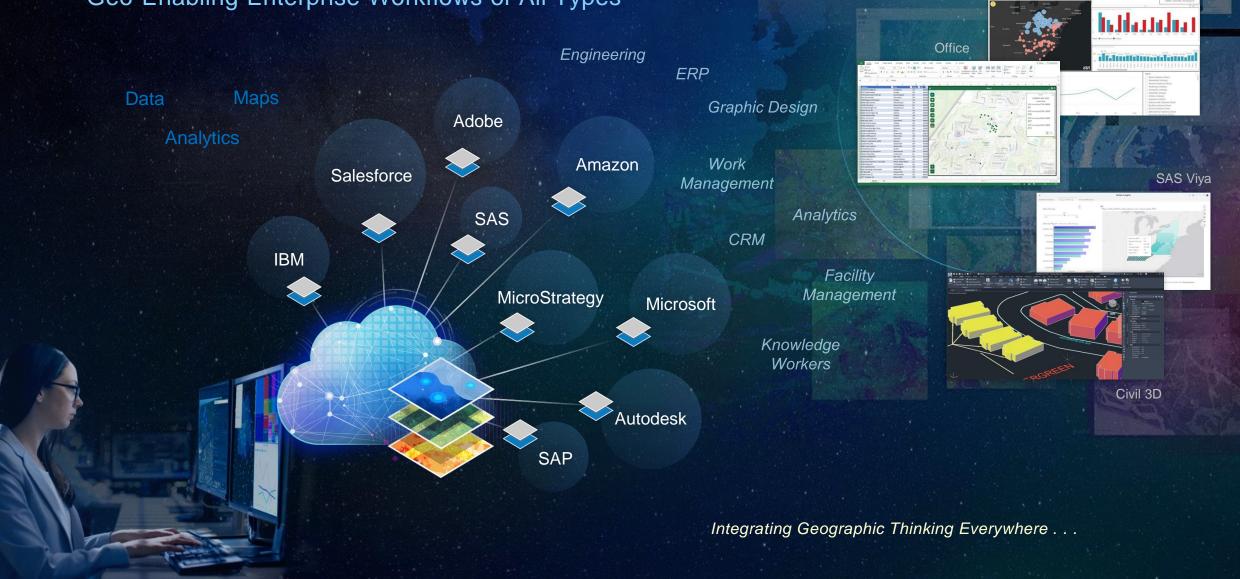
### GIS Is an Enterprise System







#### GIS Is Open and Interoperable Geo-Enabling Enterprise Workflows of All Types



Power BI

### **GIS Supports Multiple Implementation Patterns**

Integrating Cloud and On-Premises Systems

Leveraging Web Services



Projects



Systems

System of Systems

Connecting and Streamlining . . . Collaboration, Workflows and Decision Making

GIS at Scale . . .

Interconnecting Distributed Services

Geospatial Infrastructure

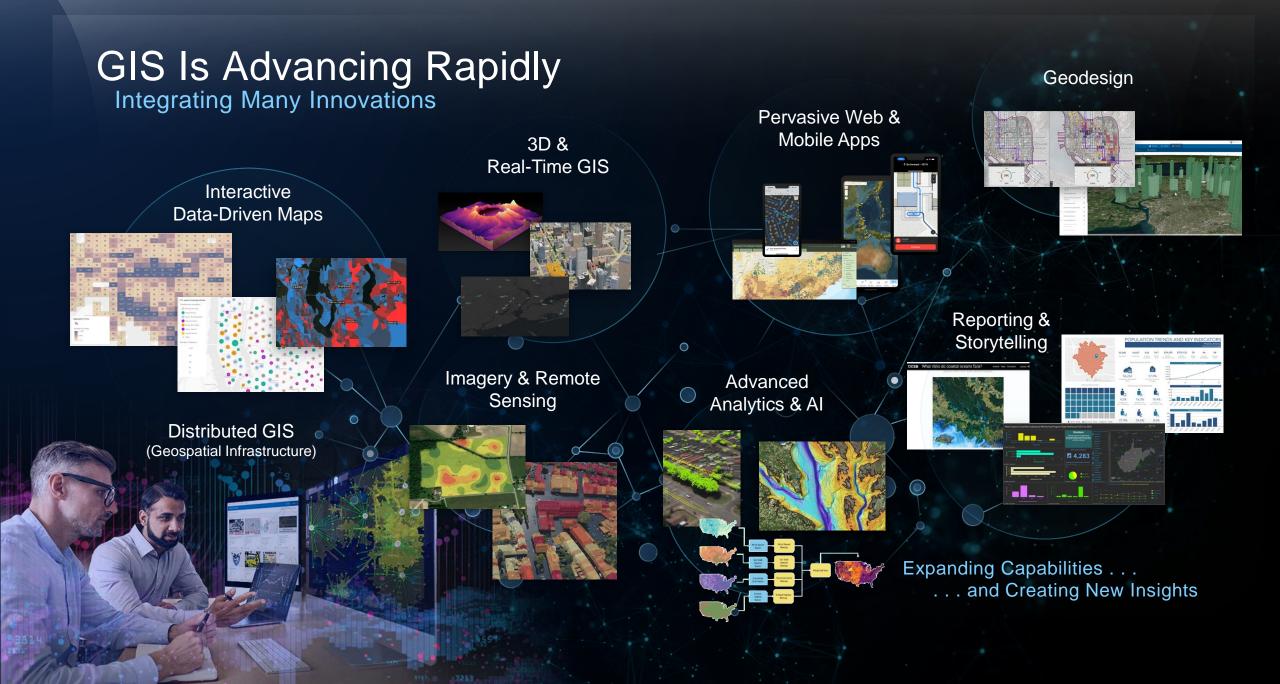
### **GIS** Portals

#### Organize and Make Available Content, Apps and Capabilities



#### FEMA Disaster Response

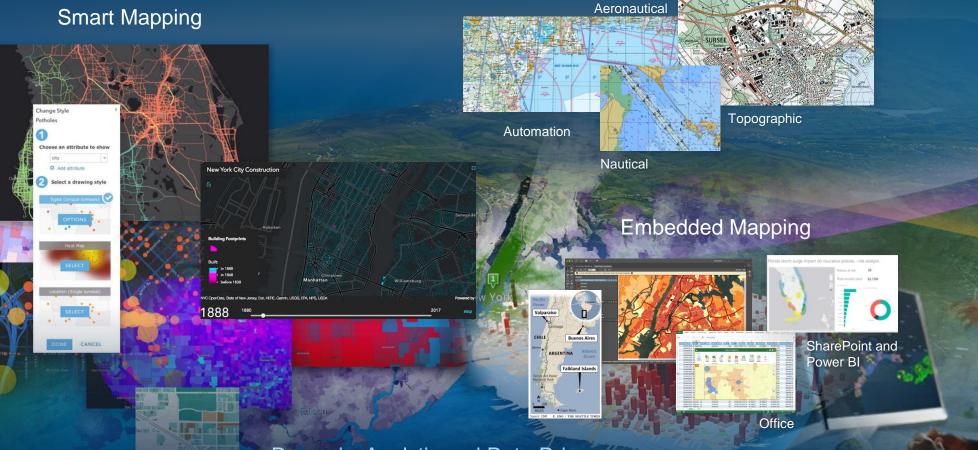
FEMA Geospatial Resource Center



### **Powerful Mapping**

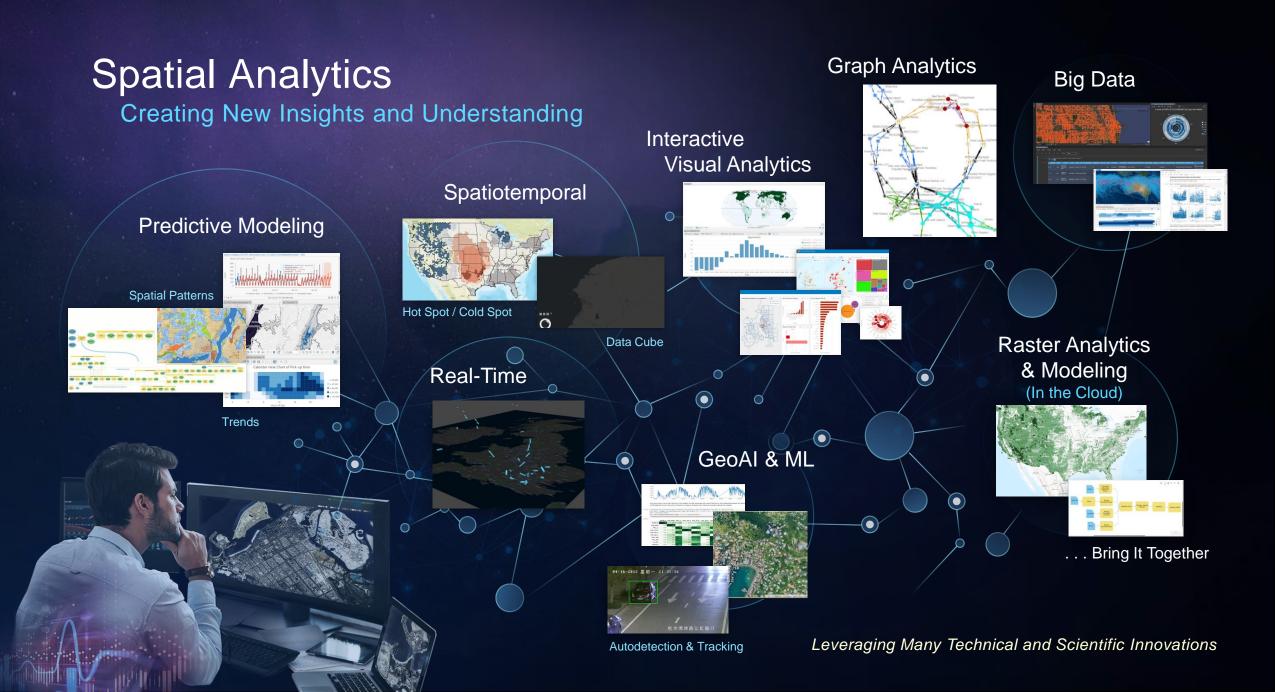
Creating Beautiful & Impactful Maps

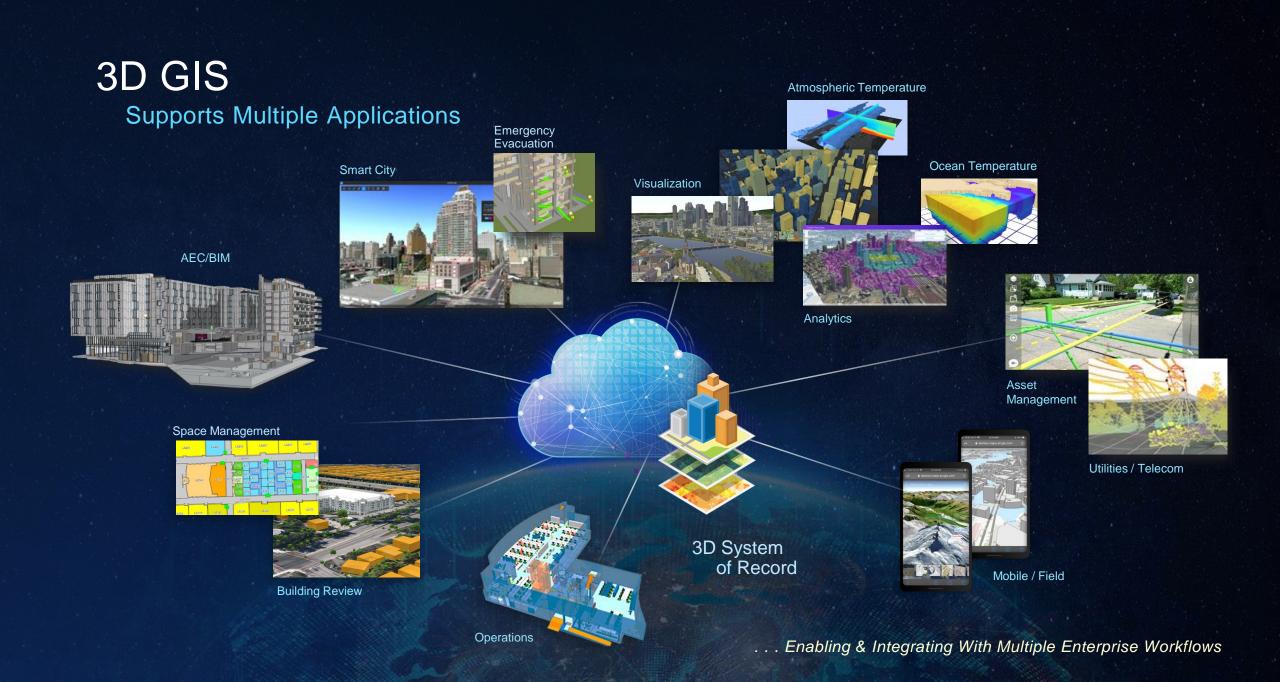
#### Production Mapping & Charting



Dynamic, Analytic and Data-Driven

Microsoft 365

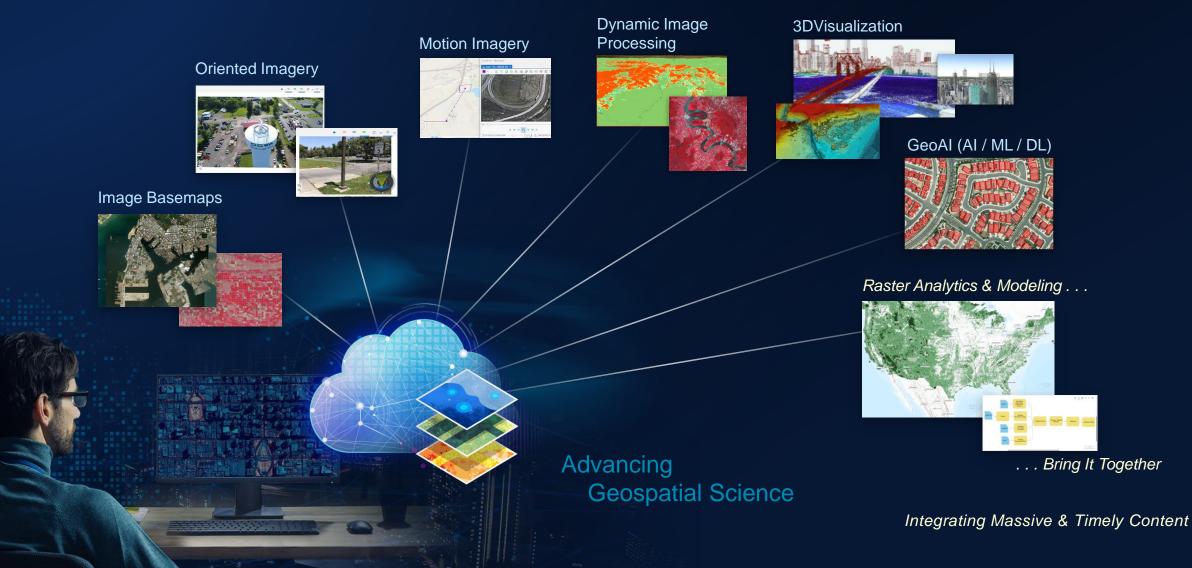




Data Courtesy: City of Boston, Boston Planning and Development Agency, Massachusetts Bay Area Transportation Authority, Massachusetts Department of Transportation, and Bluesky Internation



# Integrating Imagery and Remote Sensing Transforming All Aspects of Geospatial Work



#### Includes Ready-to-Use Content

Petabytes of Basemaps, Imagery, Demographics and Thematic Content . . .

ArcGIS Monthly Unemployment Living Atlas **Biodiversity** Land Cover Habitats Landscape **Basemaps** Transportation **Real-Time** Movement Infrastructure Environment Observations Hydro Traffic Business **Elevation** Boundaries **Demographics** Imagery POI Oceans Hazards Weather Soils **Authoritative Community Content User Shared** Maps & Data



Global & Local Geographic Content . . . About Everything

### **Geospatial Apps**

Supporting Many Types of Workflows and Engagements



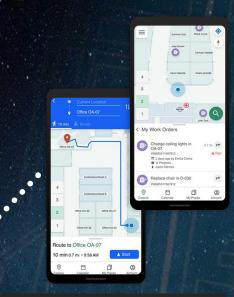
Indoor GIS Supporting All Types of Buildings & Campuses

Facility Operations

Occupant Experience

Space Management





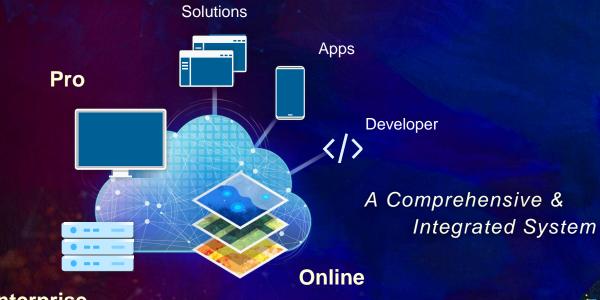


Indoor Positioning

Supporting Mobile Apps & Developers.

> Improves Location Awareness . . . Streamlines Indoor Operations





Enterprise

Software, SaaS and PaaS

### GIS is Becoming a Powerful Force

Transforming Work Everywhere...

Coalitions

Organizations

Geospatial Infrastructure

**Creating Holistic Solutions** 

**Understanding Complexity** 

Missions

Improving Communication & Collaboration

Projects

Organizing & Automating Work

Delivering Value Across Organizations . And Beyond

# Leveraging Your GIS Investment

### Provide Leadership and Vision

Enabling Your Organization to Be Successful

Seeing What's Possible

Learning, Sharing Collaborating

Creating Organization Vision Leveraging GIS Technology for Impact

### Driving Towards Outcomes

Helping Deliver Value

. Strategic Leadership Requires Intent

### Develop a Strategic Plan

Solidify Your Organizations Vision

**Driving Outcomes** Quick Wins **Build on Success** Shared . . . and Revisited



🔆 Raleigh

Smar Infrastructure

Data

Our Progress So Far

6%

Digitally-enabled

Initiatives

74

Products



novations: 3D. A

AR/VR, IoT, Big Data

### **Recognize and Leverage**

GIS as an Enterprise Asset

Supporting Cross Cutting Missions

Mapping & Location Enablement

Data Management Analytics & Planning

Field Mobility Operational Awareness

C 1 C 1 C

Constituent Engagement

**Integrated GIS Platform** 

### Supporting Mission Critical Workforces

Focus on What Matters











# Empower Everyone in Your Organization with Mapping and Geospatial Apps

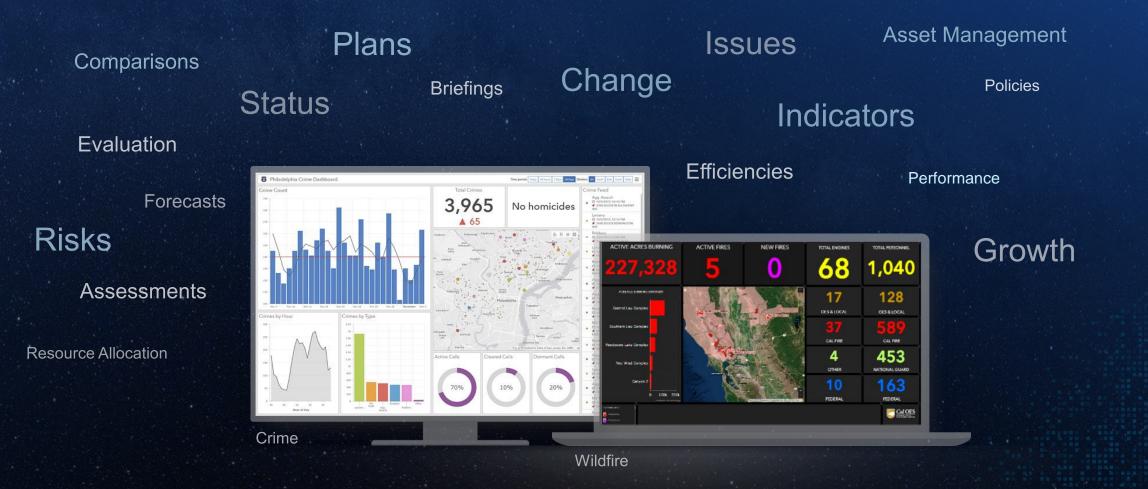
Providing a Common Language



Create and Deploy Useful Information Products

Using Maps & Dashboards To Illustrate Your Business Objectives and Performance

**Dynamic Visual Reporting & Analytics** 



### Create a Destination

Organizing and Making Available Ready to Use Maps and Authoritative Knowledge About Your Assets and Resources



Internal & External





Welcome to the City of Reno Geospatial Hub. The Geospatial Hub is the City's public platform for exploring, visualizing, and downloading location-based Open Data. Anyone can use this data to participate in and improve government by conducting research and analysis or by creating applications.

#### City of Reno Public Maps



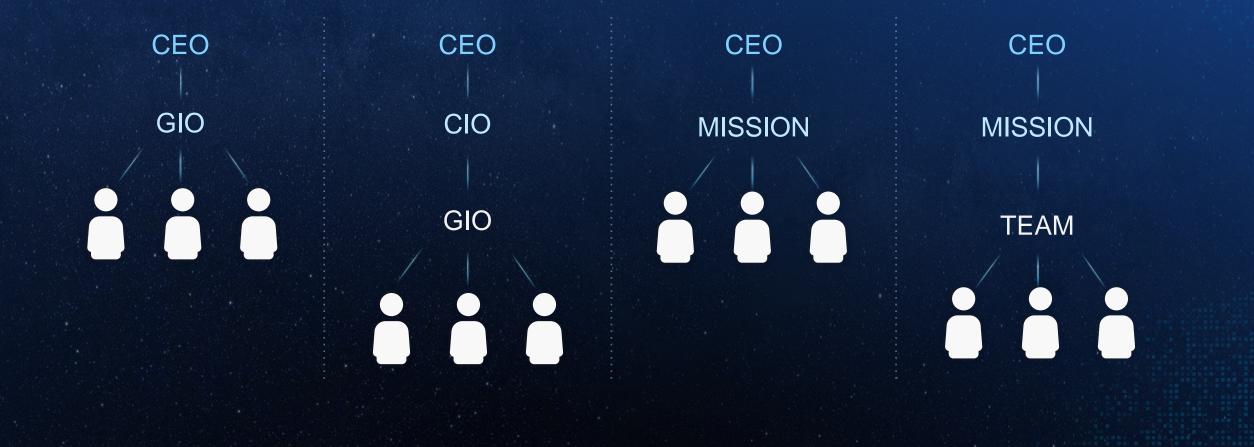
### Focus Your GIS Professionals

On Helping Your Organization Apply Geographic Science and Technologies



### Organize Effectively

Place Your GIS Resources Appropriately to Match Desired Outcomes



### Promote a Culture of Sharing and Collaboration

Enable People to Work Together by Sharing Data, Apps and Knowledge



## GIS Requires More Than Technology

- Vision, Leadership and Involvement
- Developing a Strategic Plan
- Assessing Costs and Risks
- Planning and Governance
- Apps That Are Strategic and Engaging
- Good People

Shared boots on the second s

"Executive Sponsorship" Is Important, But Being an Active Participant and Contributor Is Priceless

. . Create a Culture of Service and Innovation

## THANK YOU



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