

A globe is the central focus, showing continents in green and yellow against a blue ocean. A network of white dots and lines is overlaid on the globe, suggesting global connectivity. To the left of the globe, there is a red, semi-transparent visualization that looks like a data map or a network graph. The background is a dark blue gradient with faint circular patterns.

# Geospatial Infrastructure: Enabling Smarter Nations

Deqing UN-GGIM Session #1

Dean Angelides

Corporate Director, Esri

SEE  
WHAT  
OTHERS  
CAN'T

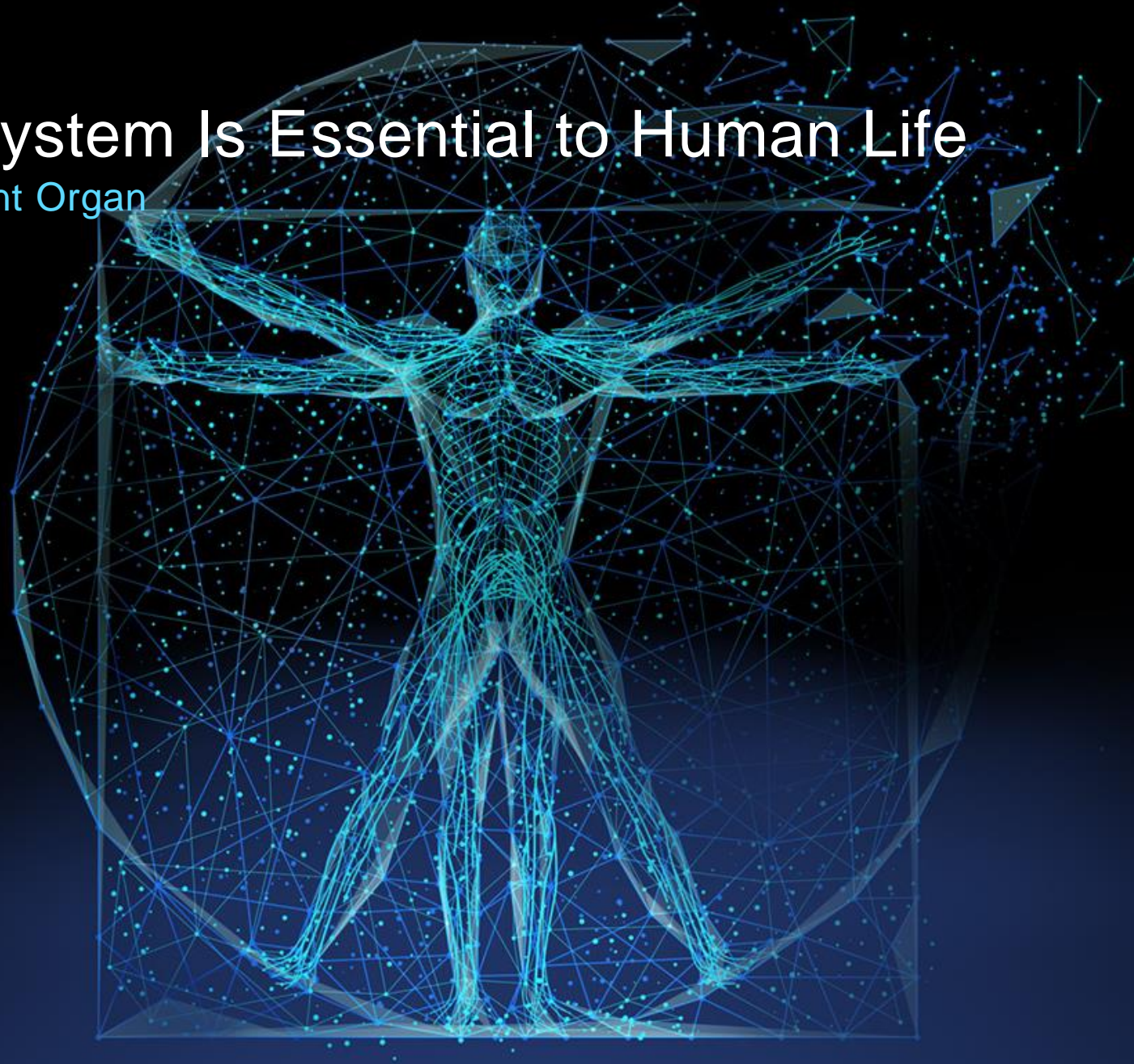


# VISION

GIS AS AN  
INTELLIGENT  
NERVOUS SYSTEM

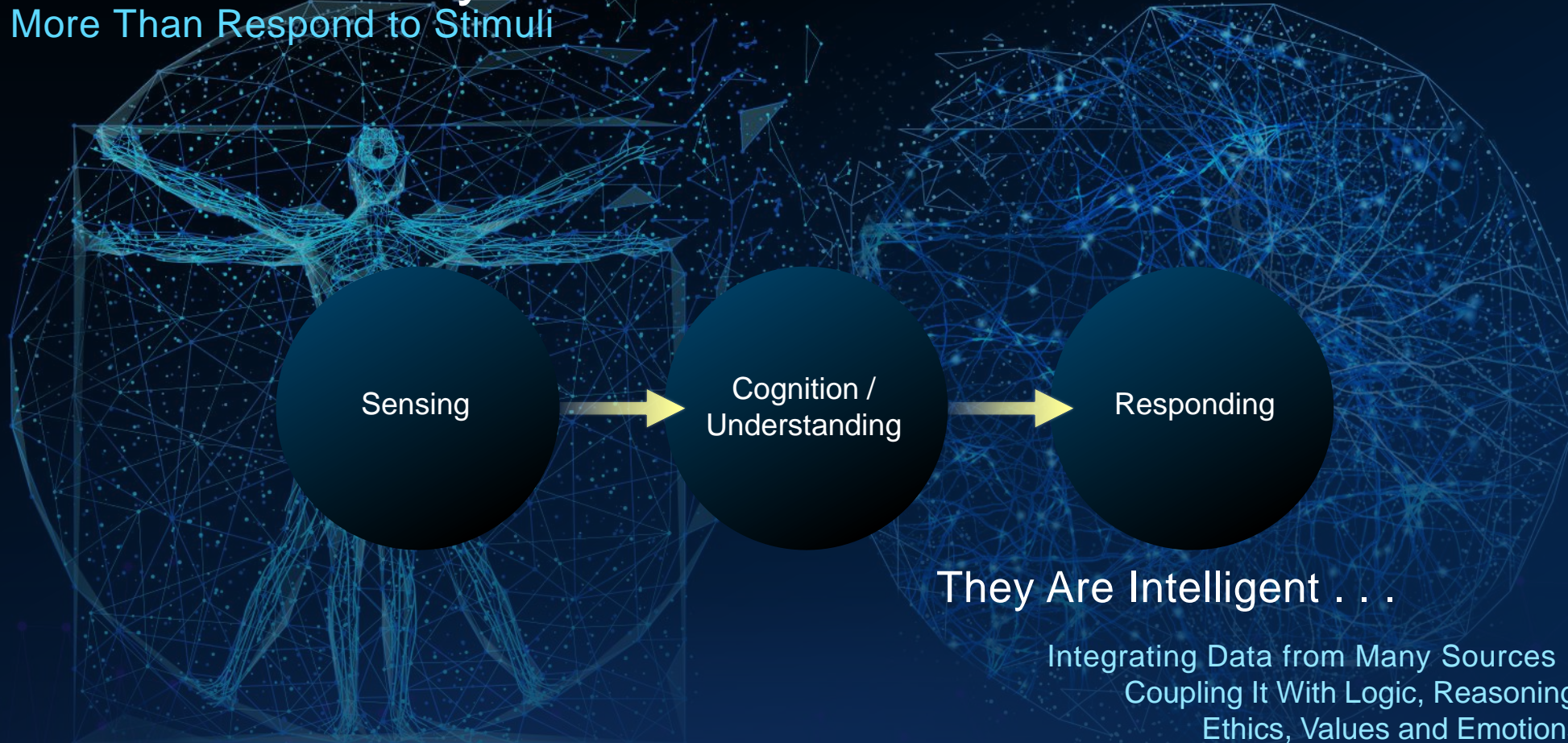
# A Nervous System Is Essential to Human Life

Our Most Important Organ



# Human Nervous Systems

Do More Than Respond to Stimuli



They Are Intelligent . . .

Integrating Data from Many Sources  
Coupling It With Logic, Reasoning,  
Ethics, Values and Emotions

And Carry out Coordinated Action . . .

. . . Learning Continuously

# OUR WORLD

RESEMBLES A  
LIVING ORGANISM

A Complex and  
Interconnected  
Ecosystem

Self-Healing  
and Resilient

... Always Changing

... And Humans  
Are Part of It



# Digital Technology Is Transforming Our World

Enabling Humans to Be Enormously Successful



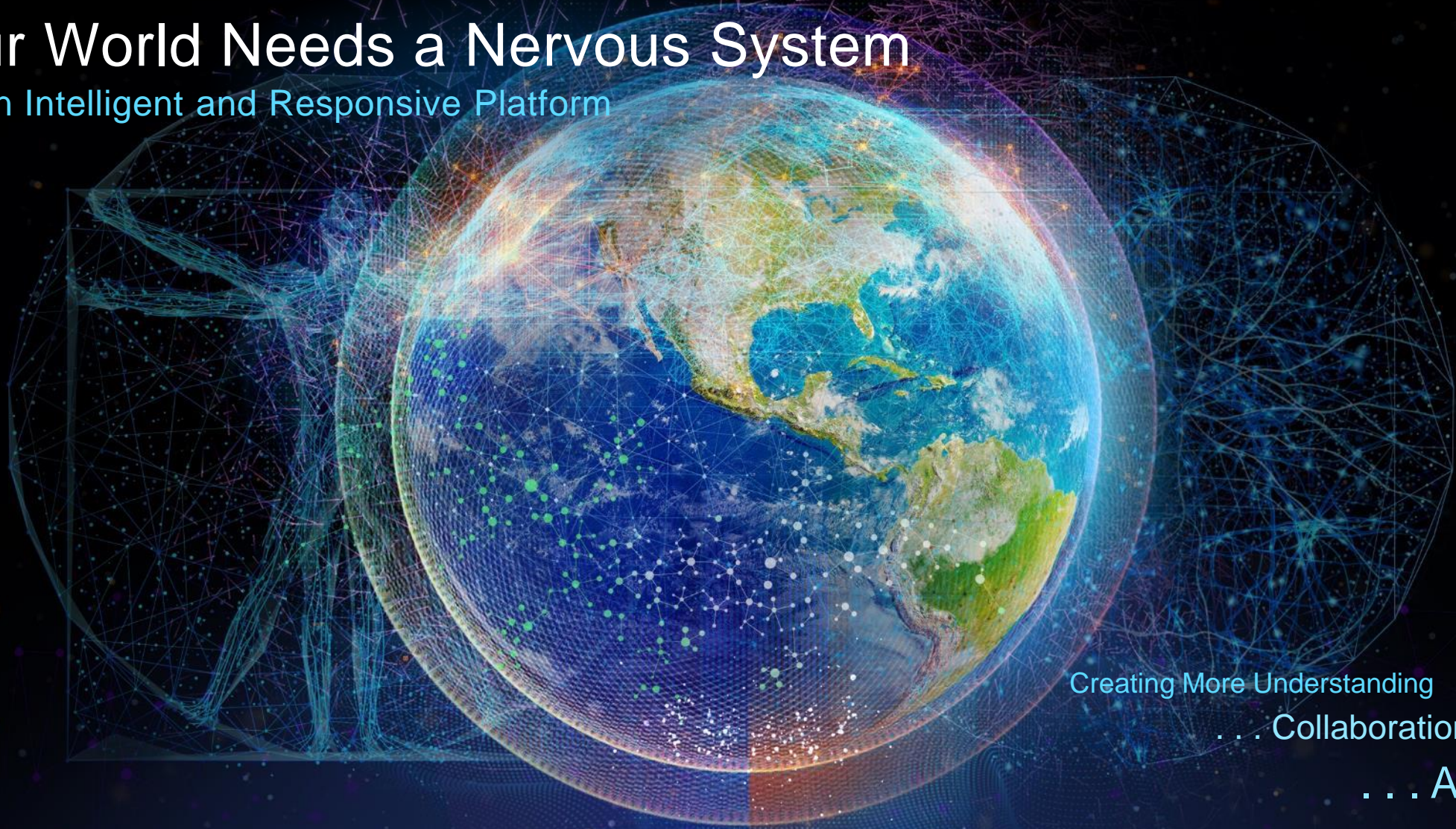
Every nation wants to be...



... Sustainability must be the outcome

# Our World Needs a Nervous System

An Intelligent and Responsive Platform



Creating More Understanding

... Collaboration and

... Action

... *Geography Is Essential*



# Geography Is the Science of Our World

. . . Providing Content and Context

. . . And a Common Reference System

Helping Us See . . . Complexity . . .

. . . Relationships, Patterns and Associations

. . . Bringing It All Together

Helping Us Understand . . .

. . . And Intelligently Respond



# Your Work

Is Already Creating  
Geospatial Infrastructure

Intelligent and Responsive . . .

Integrating All Sources of Data . . .



. . . Creating Digital Nervous Systems  
for Your Organizations

Connecting Everything  
. . . And Everyone

*Applying The Science of Where . . .*

# Your Work

Is Also Contributing to  
Global Geospatial Infrastructure

Sharing Data, Apps  
... and Geographic Knowledge

... At Scale

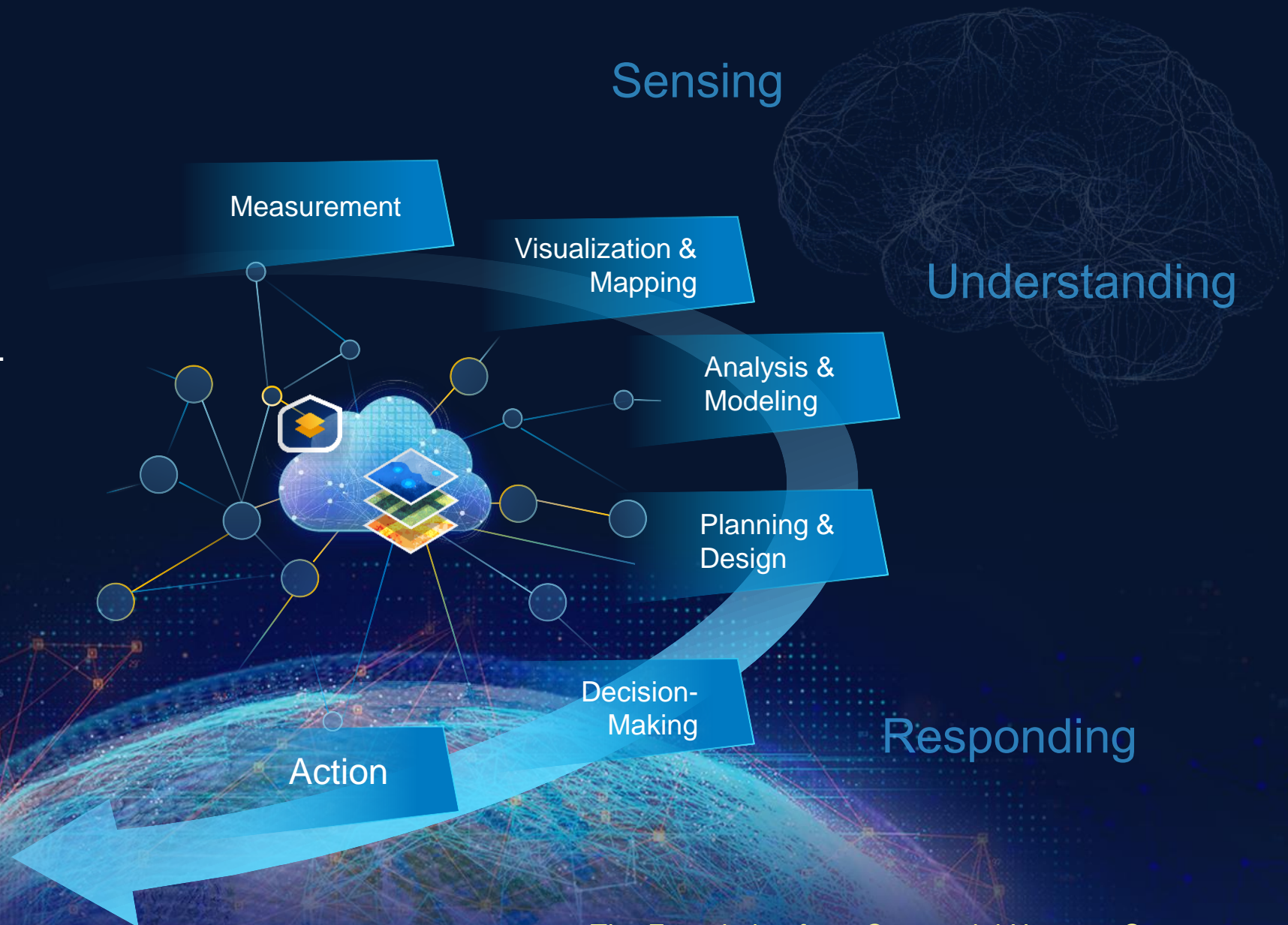


Creating a Global Nervous System

*A System for Understanding . . . And Collaborative Action*

# THE SCIENCE OF WHERE

Provides the Framework . . .  
. . . And Process



*The Foundation for a Geospatial Nervous System*

# Geospatial Infrastructure Delivers Value

A System for Managing, Analyzing  
and Applying Geographic Information



... And Solving  
Problems Holistically

## **Integration**

Leveraging Location . . .  
. . . and Technology

## **Communication**

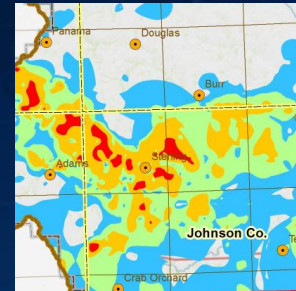
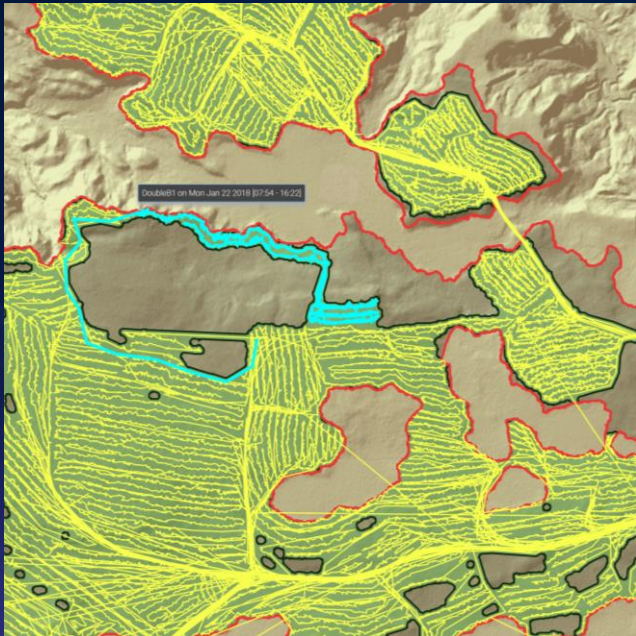
. . . Maps and Visualization

## **Analytics**

Geographic Sciences . . .  
. . . and Modeling

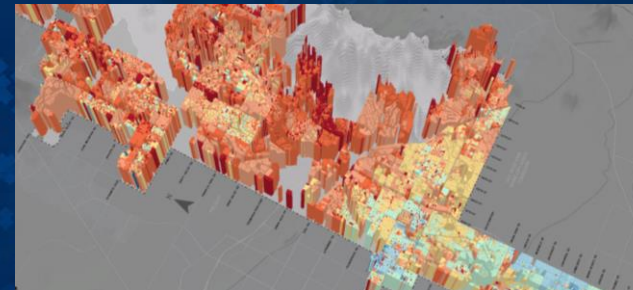
A Platform for Organizations. . .  
. . . And Society

# Geospatial Infrastructure | Delivering Value



Environmental Assessment

Land Information



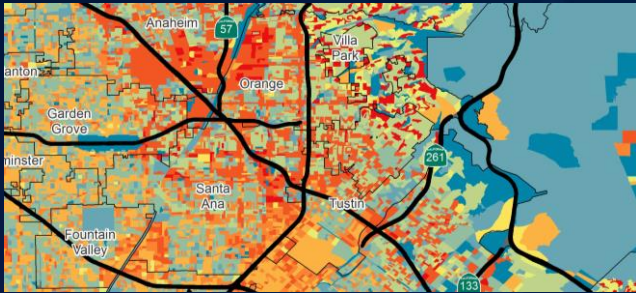
Natural Resource



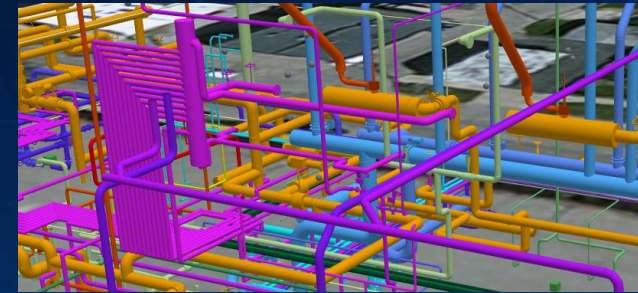
Renewable Energy

... And becoming sustainable

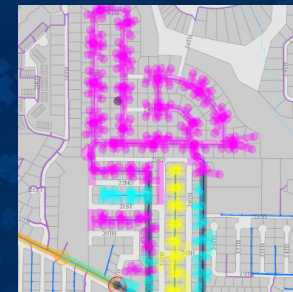
# Geospatial Infrastructure | Delivering Value



Land Use



Urban Planning



Utilities

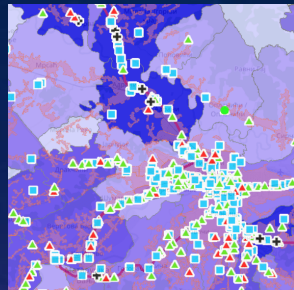
3D Cities



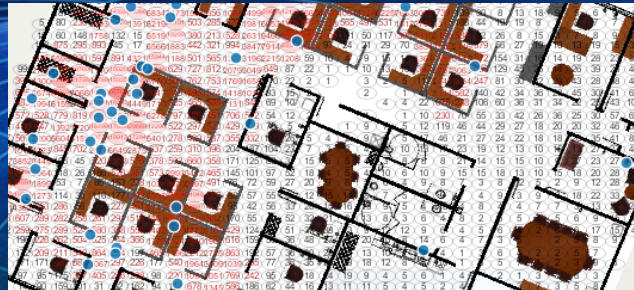
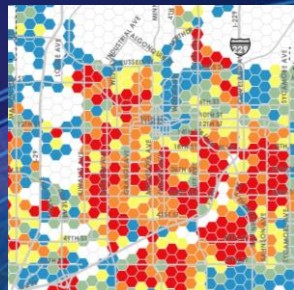
... And becoming sustainable

# Geospatial Infrastructure | Delivering Value

Engineering



Public Works

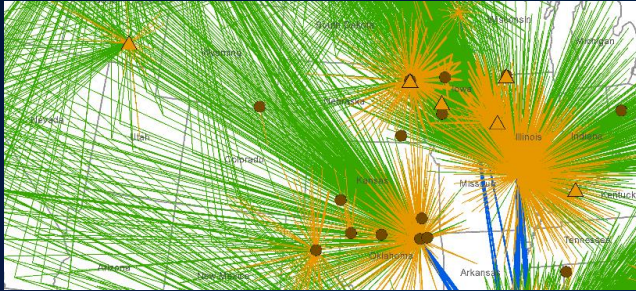


Facility Management

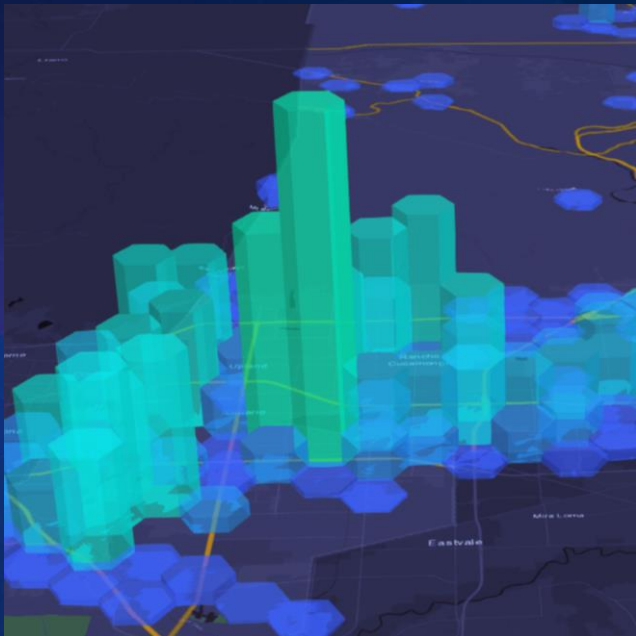
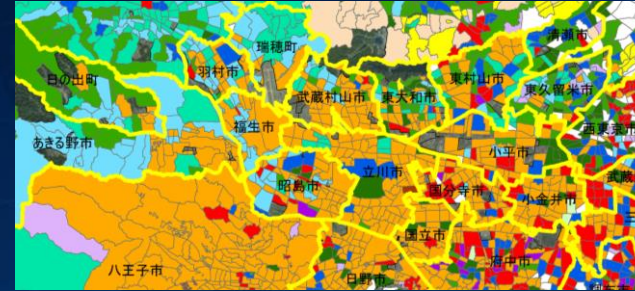
... And becoming sustainable



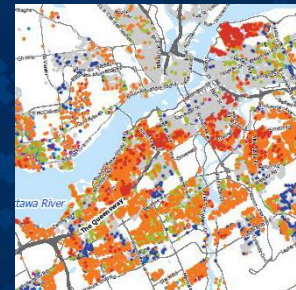
# Geospatial Infrastructure | Delivering Value



Economic  
Analysis



Business  
Analysis

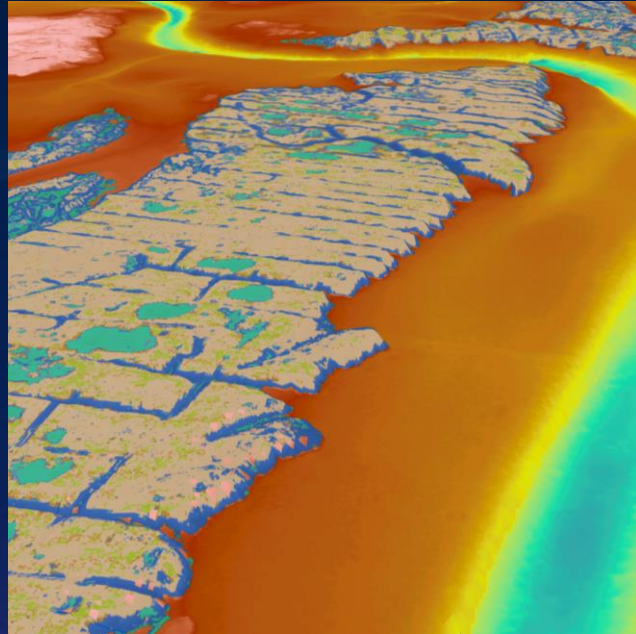
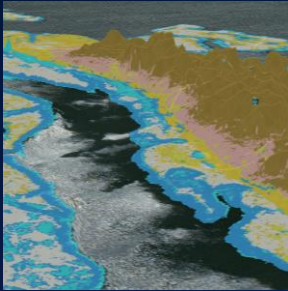


Location  
Intelligence



... And becoming sustainable

# Geospatial Infrastructure | Delivering Value



Ocean



Remote Sensing



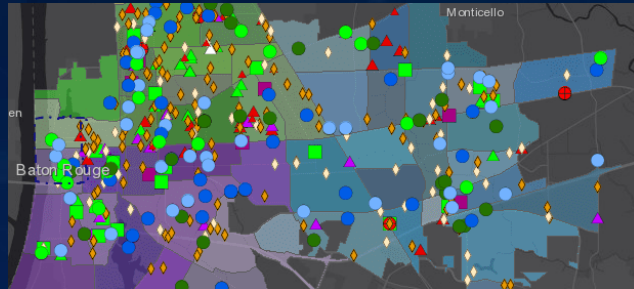
Agriculture



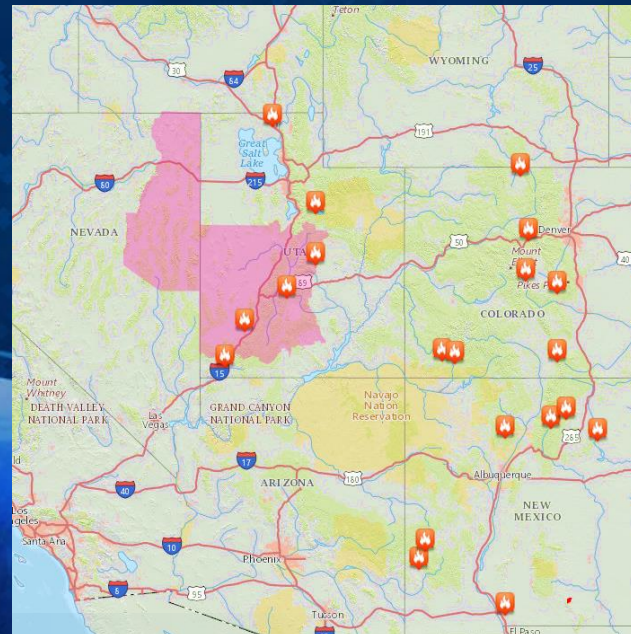
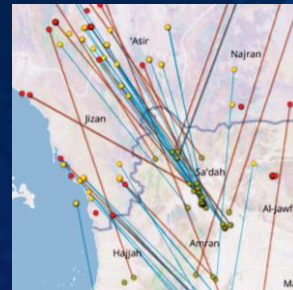
... And becoming sustainable

# Geospatial Infrastructure | Delivering Value

Public Safety



Disaster Response

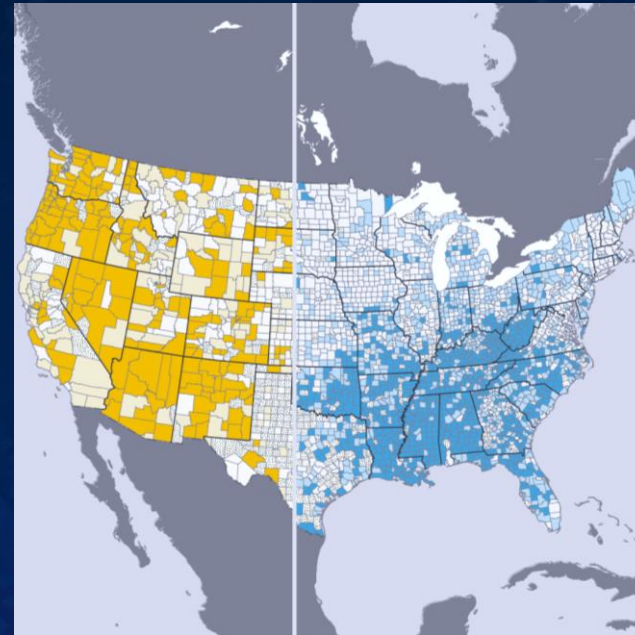
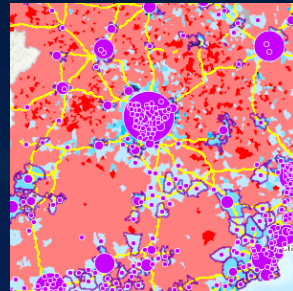


Transportation

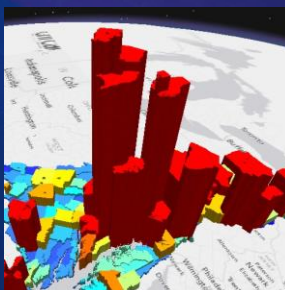
... And becoming sustainable

# Geospatial Infrastructure | Delivering Value

Demographic



School



Public Health

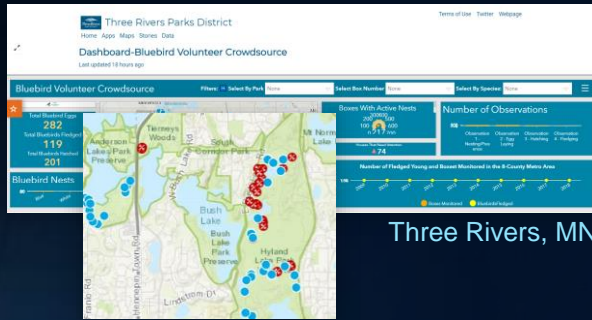


... And becoming sustainable

# Responsive Geospatial Infrastructure

## Is Transforming Organizations of All Sizes

### Integrating Citizen Science



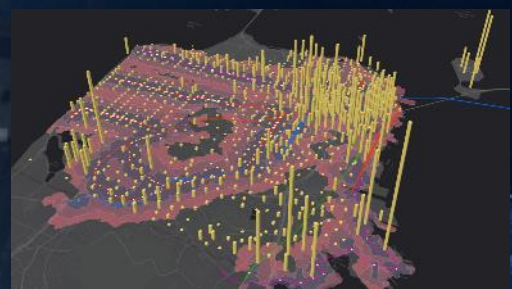
### Reporting Performance



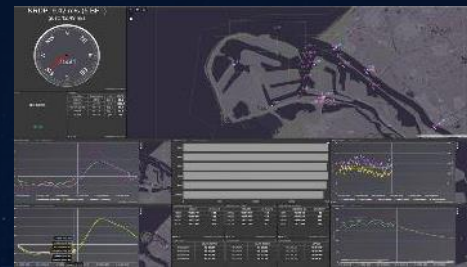
### Real-Time Flu Analysis



### Communicating Growth Policy



### IoT Integration



### Organizing Sustainability



# The Geospatial Revolution Is Just Beginning . . .

The Geospatial Nervous System . . .

. . . That Emerges



. . . Will Profoundly Transform Our World

# Your Work Is Essential . . .

Building an Intelligent Nervous System Is More Than Just Technology

It Will Take Leadership . . .

**Envisioning What's Possible**  
Learning, Sharing & Collaborating

Strategic Thinking

**Engaging Communities**

A Passion to Create Understanding . . .

. . . And to Create a Better World

Leveraging *The Science of Where* . . .

. . . To See What Others Can't

