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2024

Geospatial World Forum

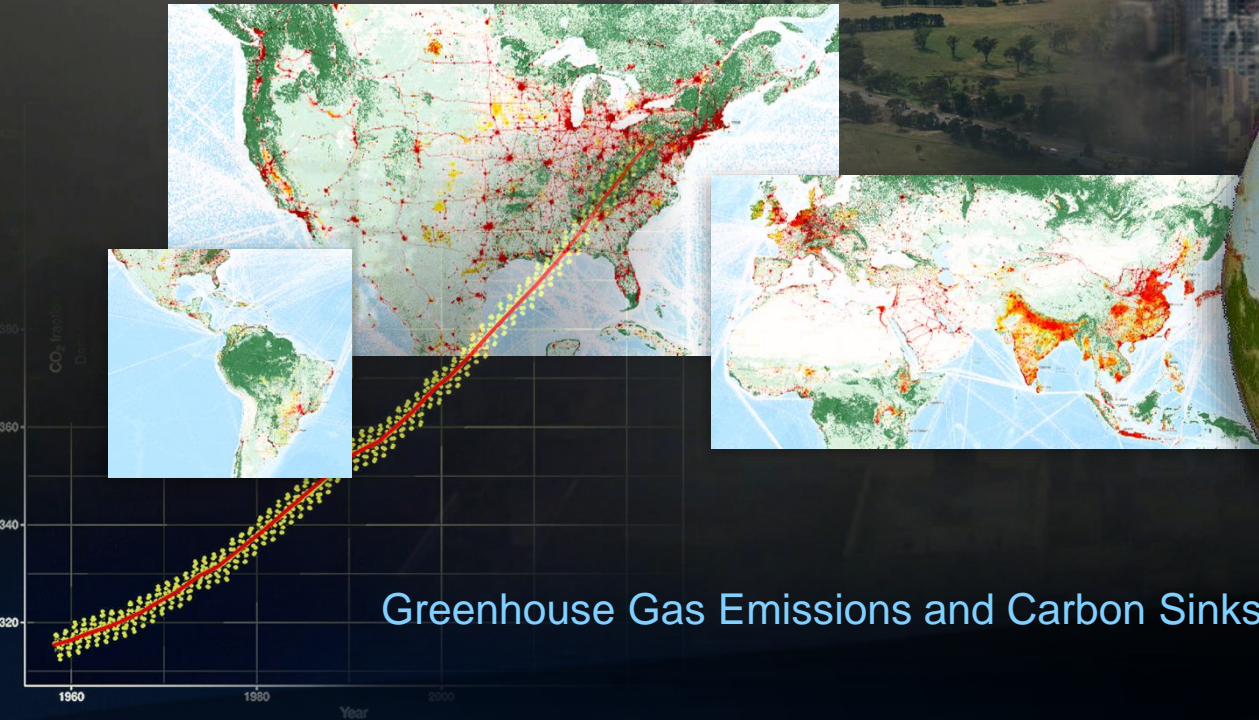
Rotterdam May 2024

GIS

CREATING THE WORLD
YOU WANT TO SEE

We Are Living Out of Balance with Nature

Threatening Our Future . . .



Greenhouse Gas Emissions and Carbon Sinks



European Space Agency CAMS,
Conservation International and Esri

Some Even Say . . .
We May Not Have a Future

We Have a Choice . . .

A Sustainable Future Is Still Possible . . .

We Need to Take Collective Responsibility . . .

Imagining, Designing and Creating Solutions . . .

And Implementing Them Everywhere . . .

Make Cities
Sustainable

Save Wildlands

Protect Biodiversity

Recycle

Scale Back Consumption

Decarbonize Energy

Conserve Oceans

Reduce Pollution

Carbon-Negative Solutions

Restore Nature

Create Green
Infrastructures

Improve Efficiency

Promote Equity

Develop Sustainable
Agriculture

Reduce Greenhouse
Emissions

. . . We Must Act Now!



Sustainability Starts with Geography . . .

Seeing the World as One Single Ecosystem



Sustainability Starts with Geography . . .

Seeing the World as One Single Ecosystem

Geography Provides the Science &
Fundamental Language



Organizing &
Integrating
All the Factors

Sustainability Starts with Geography . . .

Seeing the World as One Single Ecosystem

Geography Provides the Science & Fundamental Language

Illuminating Patterns & Discovering Relationships

Organizing & Integrating All the Factors

Social

Health & Welfare
Demographics
Population
Equity & Equality
Education

Economic

Industrialization
Energy
Development
Infrastructure
Financial

Environmental

Oceans
Ecosystem Services
Climate
Biodiversity
Forests
Water



Geography

... and The Geographic Approach

Provide a Way of Thinking and Problem-Solving ...

... That Integrates Geographic Information & Science



Mapping What Is
... And What Can Be

Collaborative

Integrated

Multidisciplinary

Holistic

Science-Based

Visual &
Understandable



... A Foundation for Positive Action

Helping Organizations Understand & Explain



GIS

Enables The Geographic Approach

A Powerful Platform for . . .

Creating Understanding . . .

Exploring Alternatives . . .

Finding Solutions . . .

Explaining . . .

. . . and Taking Action



Data
Collection

Visualization &
Mapping

Analysis &
Modeling

Planning &
Geodesign

Decision-
Making

Action

Improving How We
Create the Future

GIS Enabling Living Digital Twins

Integrating
All Types of Content

Real-Time

Transactionally
Maintained

3D / 4D

Supporting Many
Applications

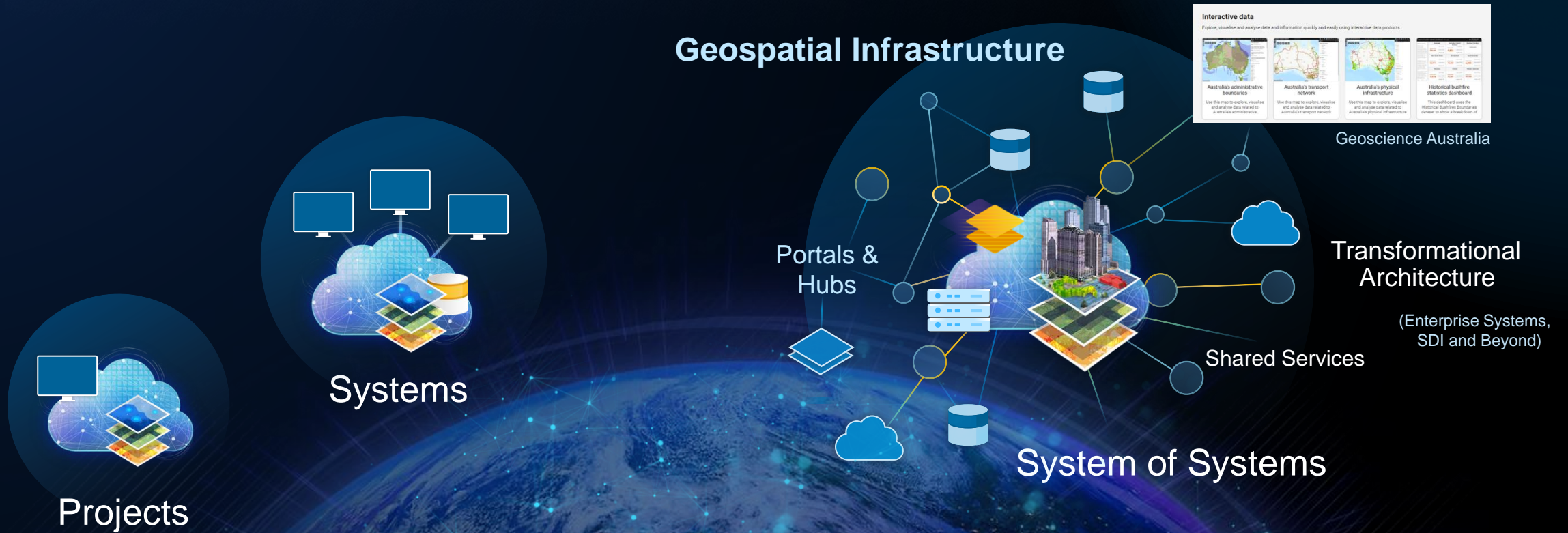
Accessible
Anywhere

A Foundation for Smart Cities



Distributed GIS Is Interconnecting Your Work

Creating a Platform for Shared Understanding & Collaboration



Opening Many New Opportunities
Across and Among Organizations

Integrated Geospatial Knowledge Infrastructure

Emerging and expanding beyond data to knowledge and understanding



Metadata catalogs



Federated portals



Digital ecosystems

Search & Discovery



Integration & Use at Scale

GIS Is Advancing Rapidly

Integrating Many Innovations

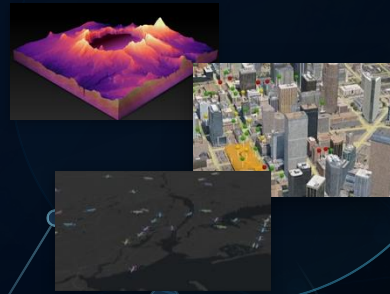
Interactive Data-Driven Maps



Distributed GIS (Geospatial Infrastructure)



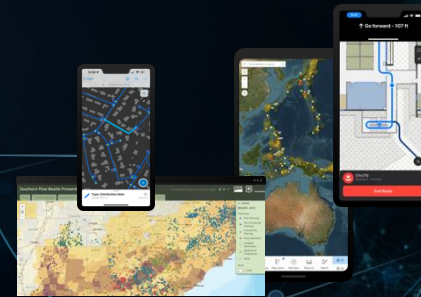
3D & Real-Time GIS



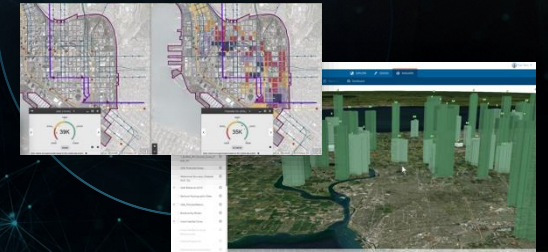
Imagery & Remote Sensing



Pervasive Web & Mobile Apps



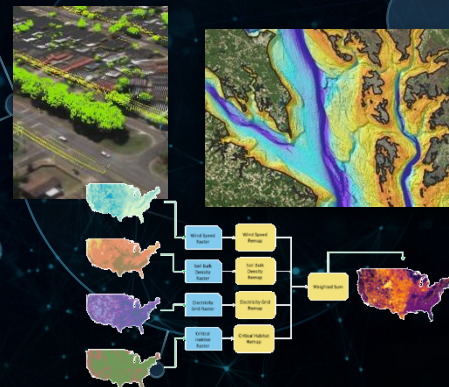
Geodesign



Reporting & Storytelling



Advanced Analytics & AI



Expanding Capabilities . . .
. . . and Creating New Insights

GIS Technology Is Already Contributing . . .

To a More Sustainable World

Your Work Provides the Evidence . . .

Urban Planning

Organizing Communities

Addressing Homelessness

Siting Renewable Energy

Conservation Planning

Habitat Restoration



Community Planning

Prioritizing Investment

Planning for Sustainability

Finding Equitable Outcomes

Supply Chain Optimization

Environmental Monitoring
and Assessment

Resource Management

Increasing Efficiency

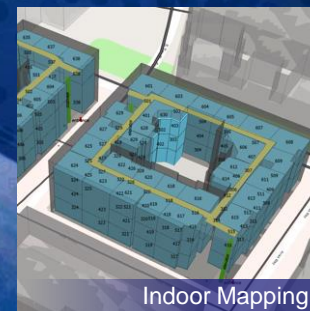
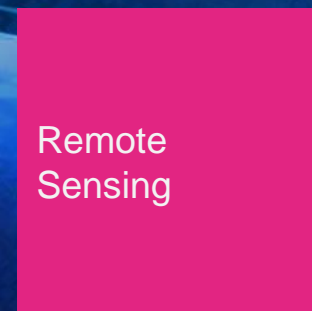
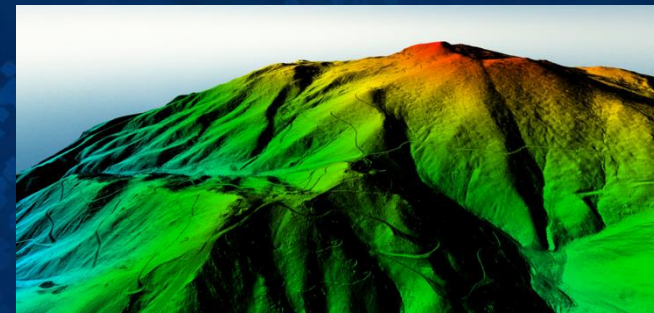
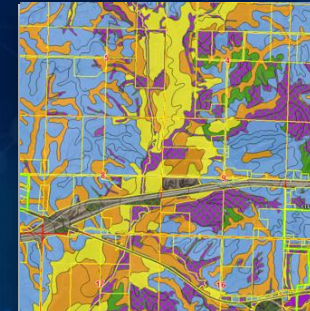
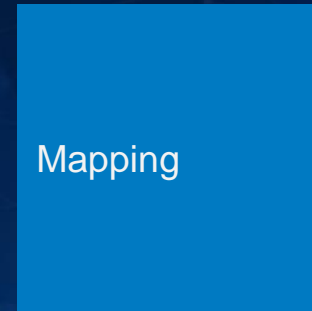
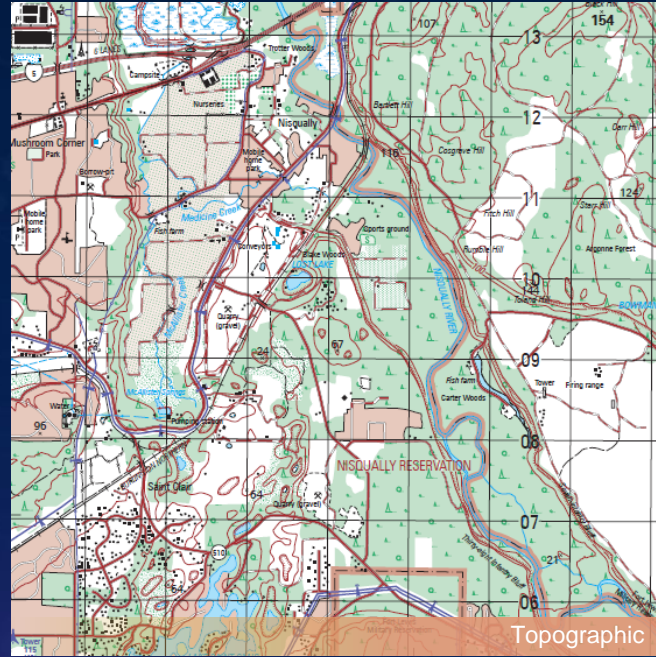
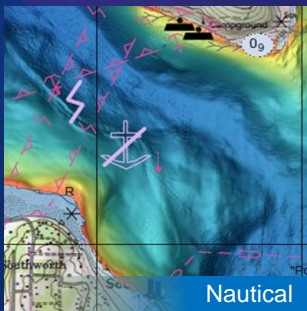
Conservation Planning



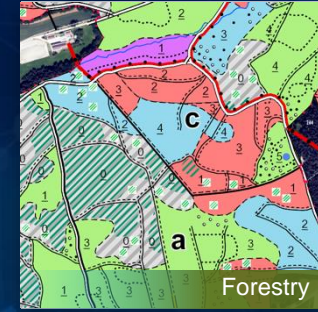
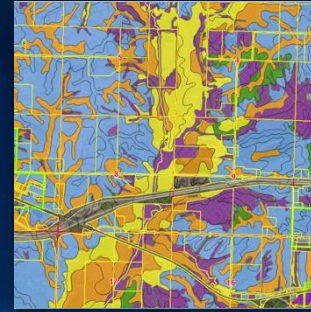
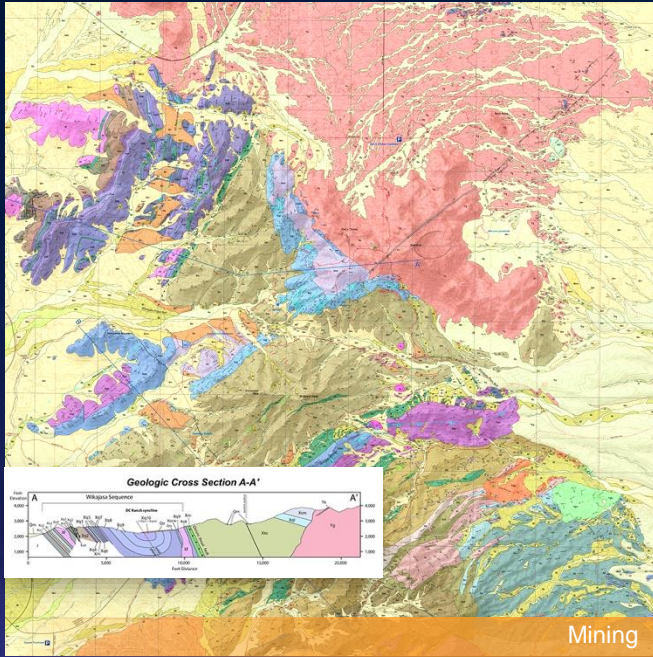
You Are Expanding
the GIS Profession Rapidly

But Much More Is Required . . .

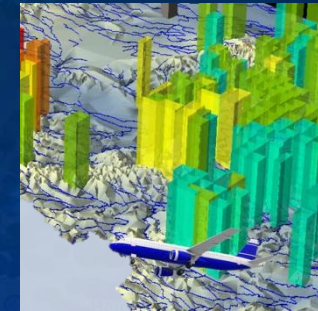
GIS | Delivering Value



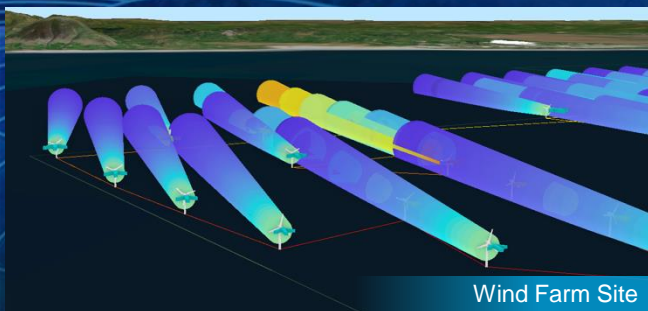
GIS | Delivering Value



Infrastructure



Natural Resource

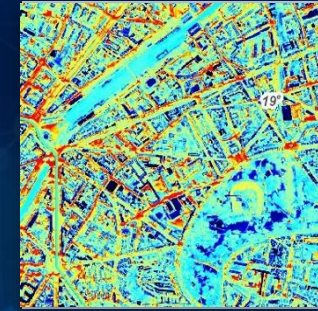


Renewable Energy

GIS | Delivering Value



Land Use



Permits



3D Cities



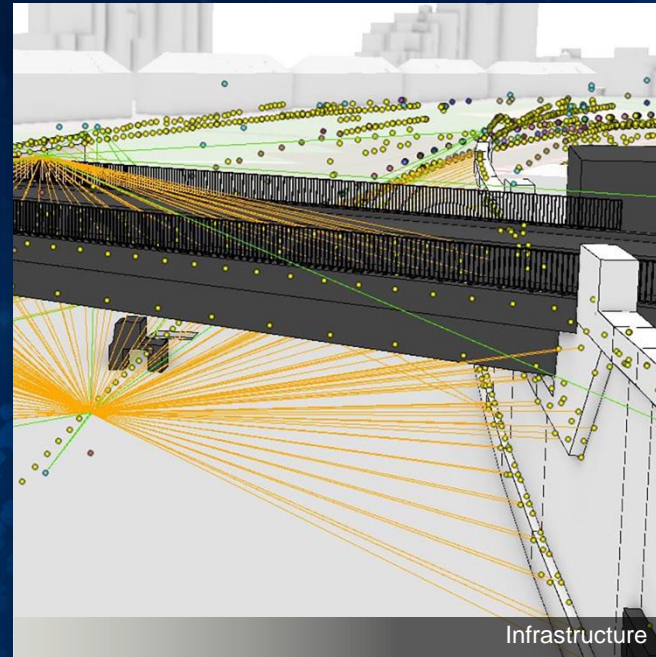
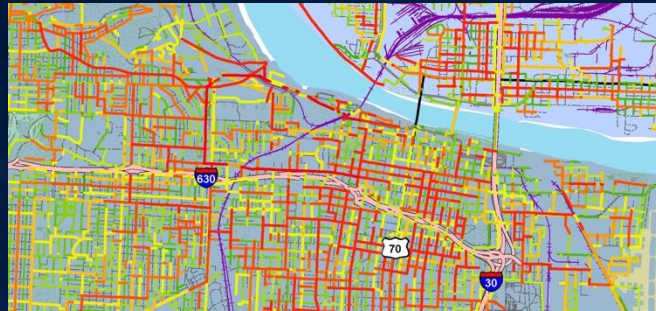
Urban Planning



Proposal

GIS | Delivering Value

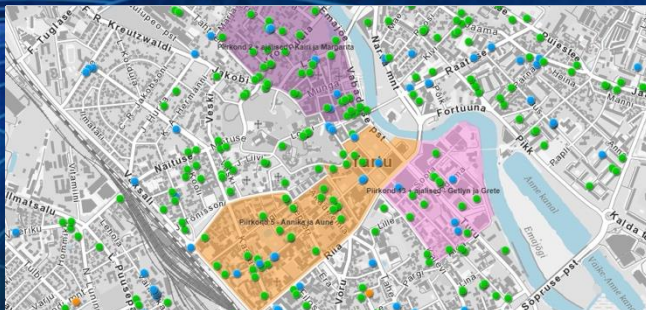
Engineering



Infrastructure

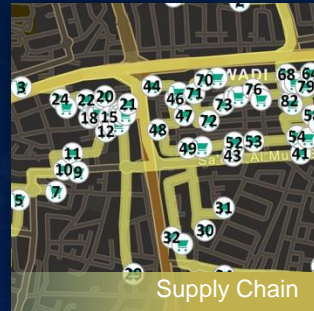
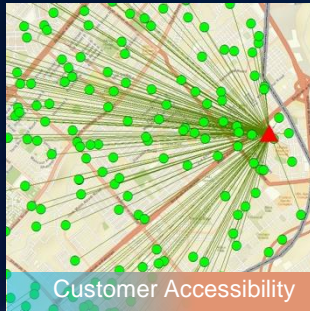


Infrastructure

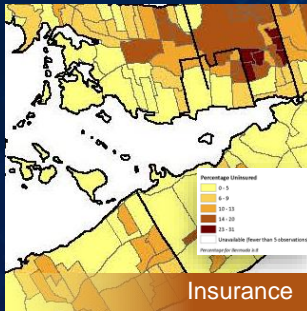
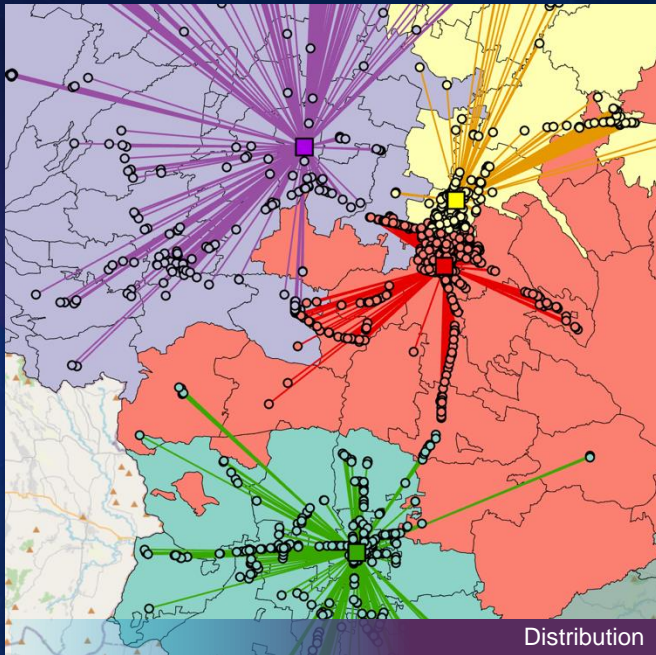
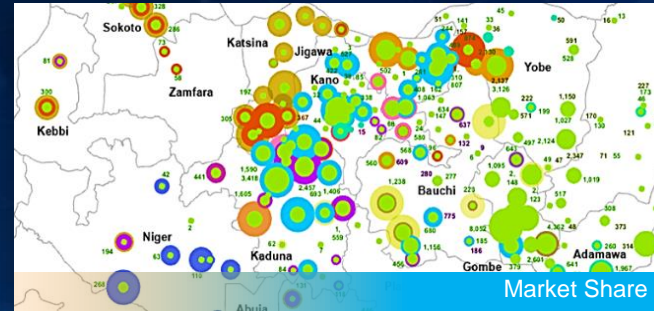


Asset Management

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Economic
Development

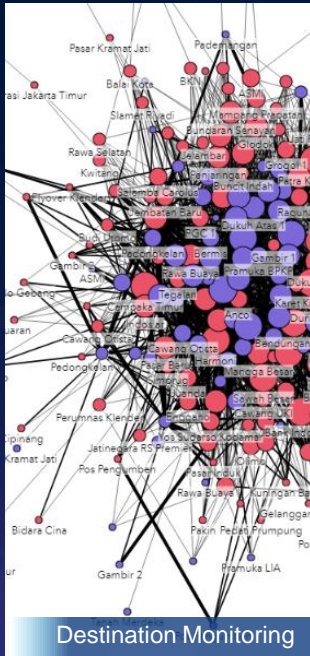


Location
Intelligence

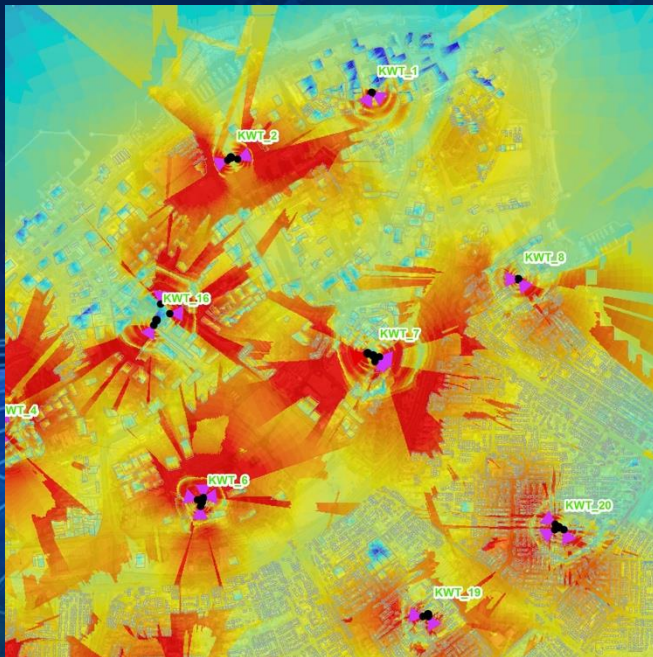
Business
Development



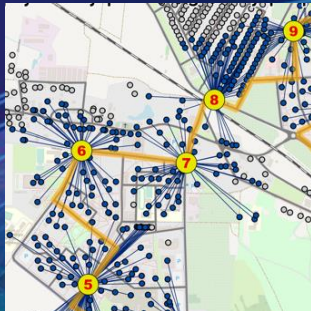
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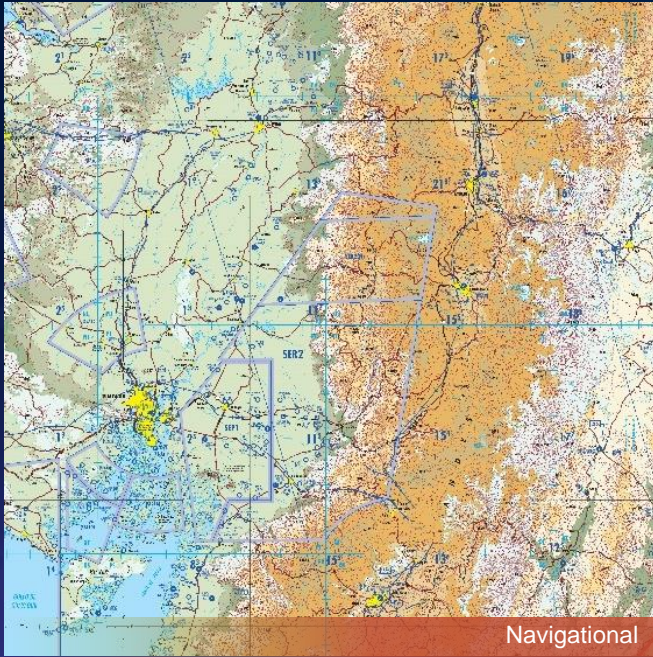
Transportation



Utilities



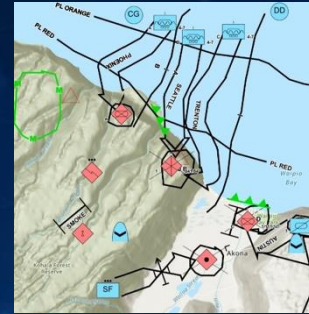
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Navigational



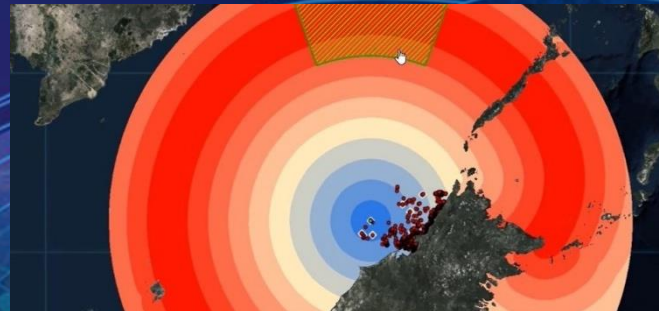
Defense



Global Risk



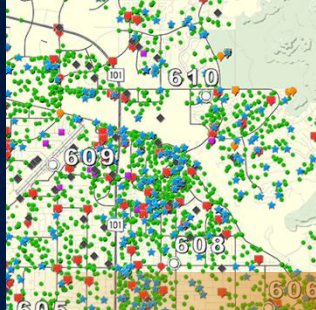
National Security



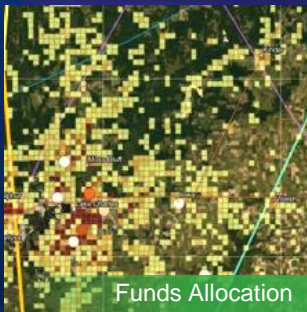
Humanitarian

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Public Safety

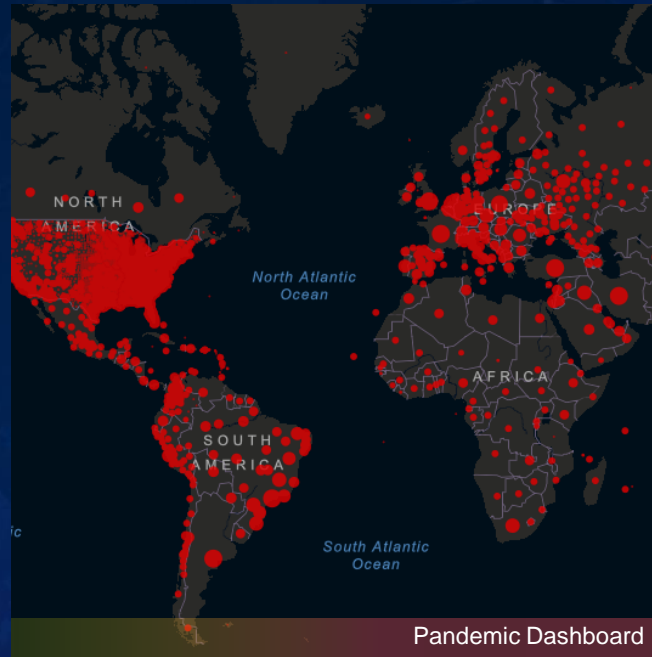
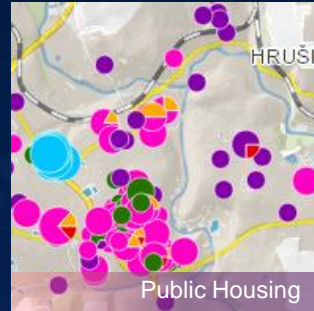


Disaster Response

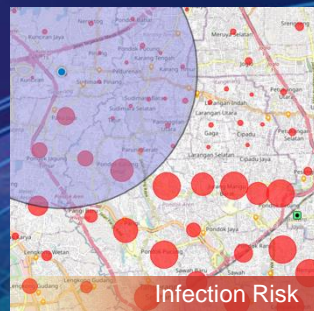
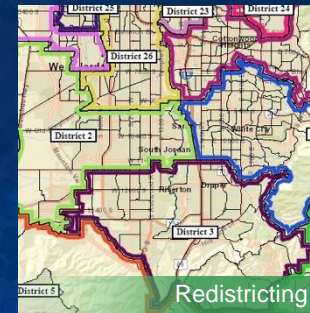
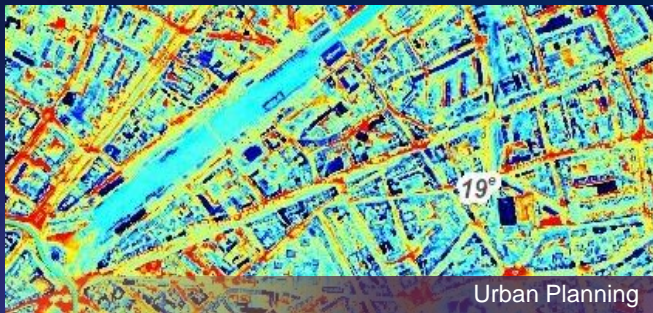


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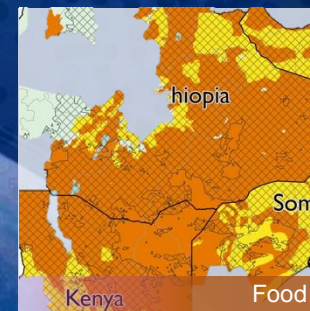
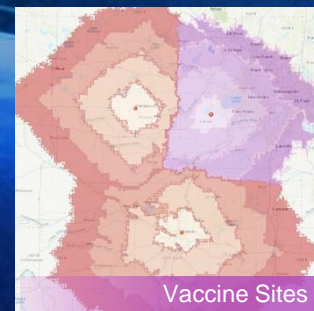
Demographic



Education



Public Health



GIS

Helping to Address
the World's Challenges

RESILIENCY



EQUITY



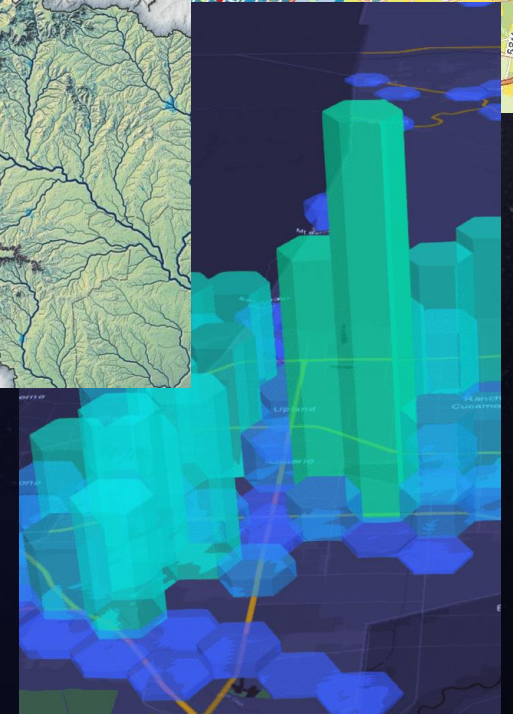
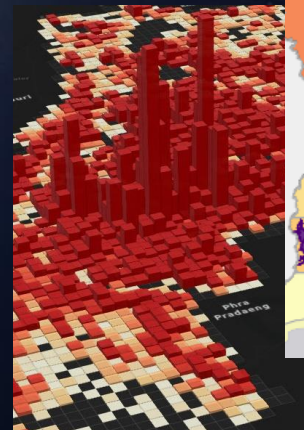
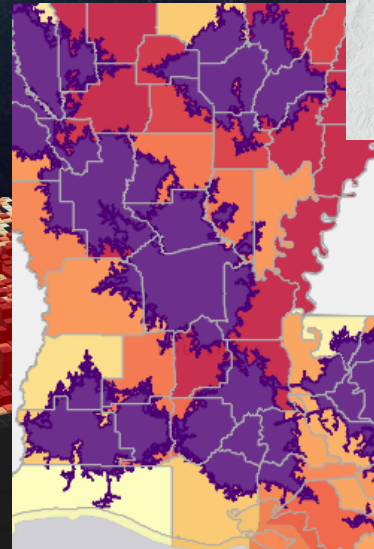
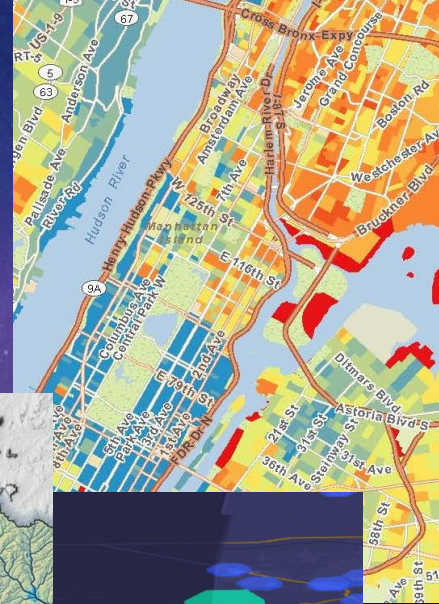
SUSTAINABILITY



EFFICIENCY



GROWTH



We Have an Incredible Responsibility . . .

To Contribute to Every Organization
Around the World . . .

. . . to Help Create a World
We All Want to See

Healthy

Equitable

Prosperous

Peaceful

In Balance with Nature

Secure

Sustainable

Where People Make Better Decisions
Based on Science and Understanding





esri

THE
SCIENCE
OF
WHERE