

Welcome to

GISday 2012

David Parry



University of Alberta

http://www.gisday.com/gis-day-events-map.html

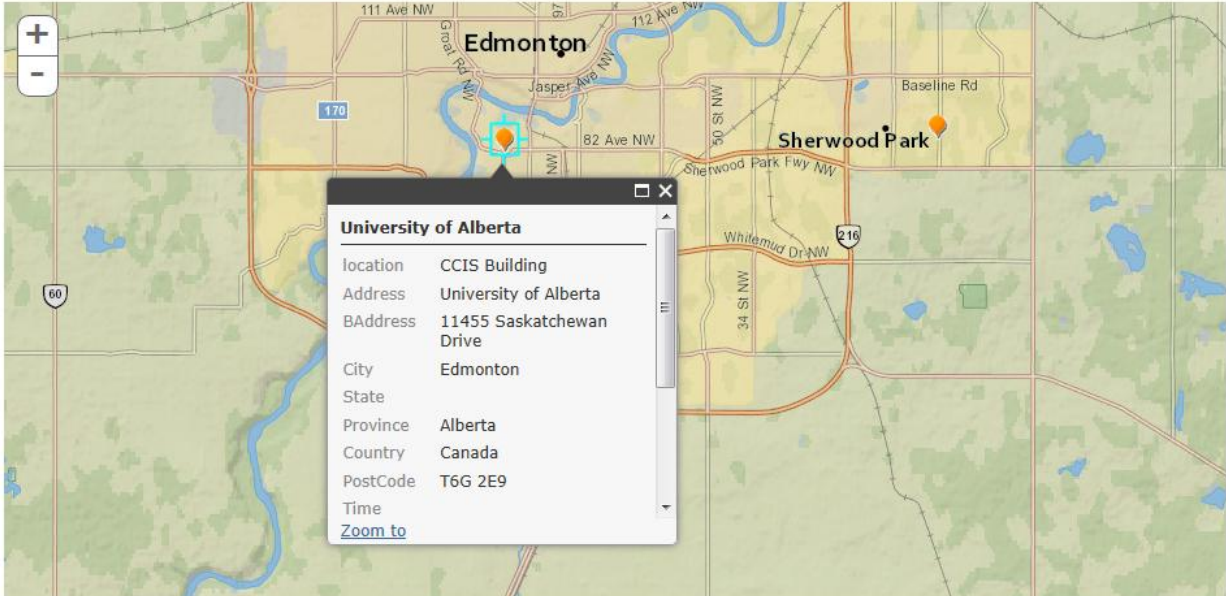
GIS Day Events Around the Globe

Discovering the World Through GIS | November 14, 2012

[Home](#) [Events](#) [About GIS Day](#) [Registration](#) [Resources for Hosts](#) [Discover GIS](#)

GIS Day Events Around the Globe

GIS Day will be celebrated across the world on Wednesday, November 14, 2012. Take a look at the map below to find the nearest GIS Day event to you. [Register your event](#) to promote it on the map!



University of Alberta

location	CCIS Building
Address	University of Alberta
BAddress	11455 Saskatchewan Drive
City	Edmonton
State	
Province	Alberta
Country	Canada
PostCode	T6G 2E9
Time	
Zoom to	

Join  **esri** Canada and

Celebrate 50 years of GIS !



Esri supports geography in education everyday

Supporting Geoliteracy during Geography Awareness Week, November 12-16th



GIS Day
November 14

GeoMentor

DISCOVERING THE WORLD THROUGH GIS

GISday



Monitoring Environmental Change

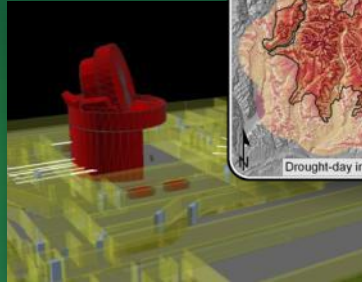
Threatened Species



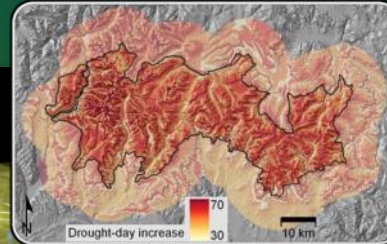
IUCN Red List Mapper

Drought

Radiation

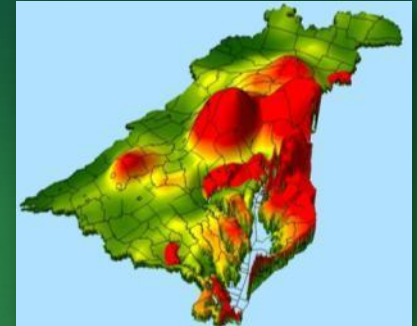


Chernobyl, Russia



Colorado

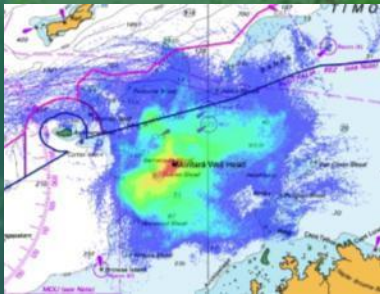
Nutrient Pollution



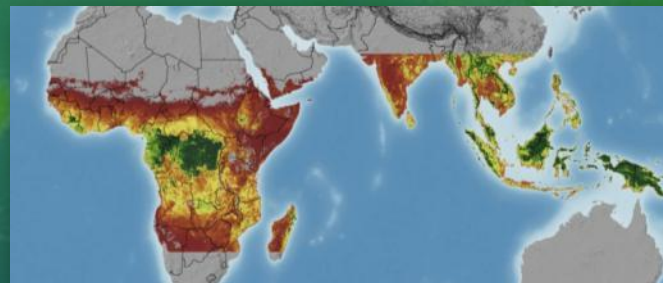
Chesapeake Bay

Biomass

Oil Spill



Timor Sea



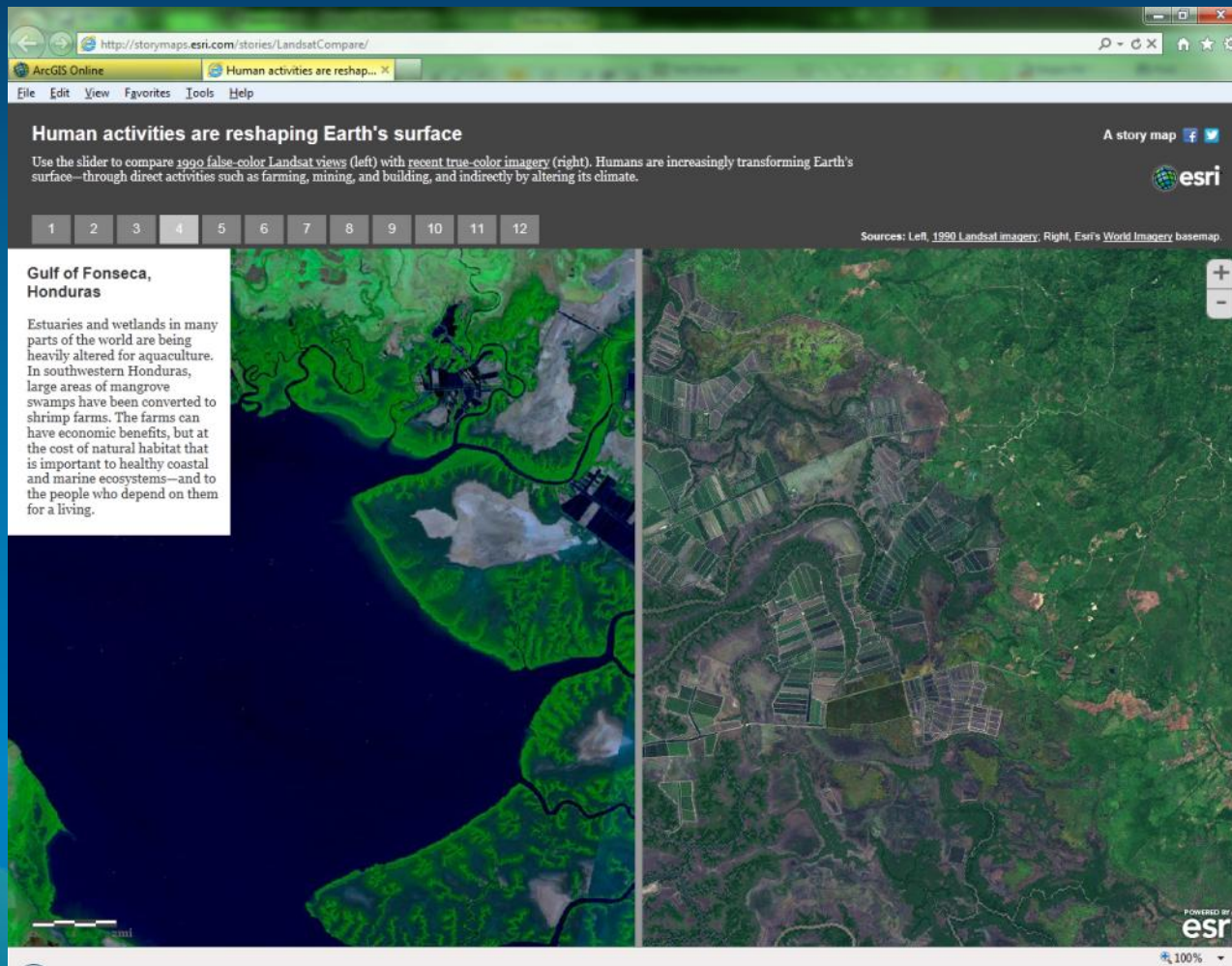
Woods Hole Research Center

Noise Assessment



Stuttgart, Germany

Change Detection / Remote Sensing



<http://storymaps.esri.com/stories/LandsatCompare/> #3, #8

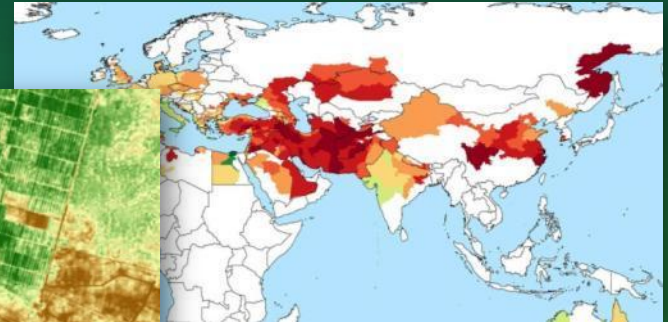
Managing Natural Resources

Oil and Gas Pipelines



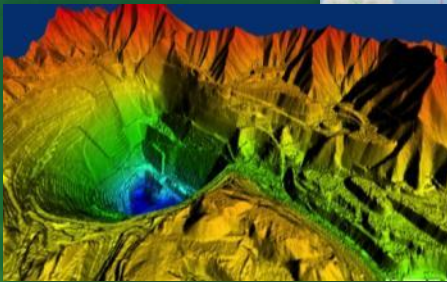
North Sea

Water Productivity for Agriculture



eLEAF

Open Pit Mining



Bingham Canyon, Utah



Segou, Mali

Tiger Habitat Conservation



World Wildlife Fund, India

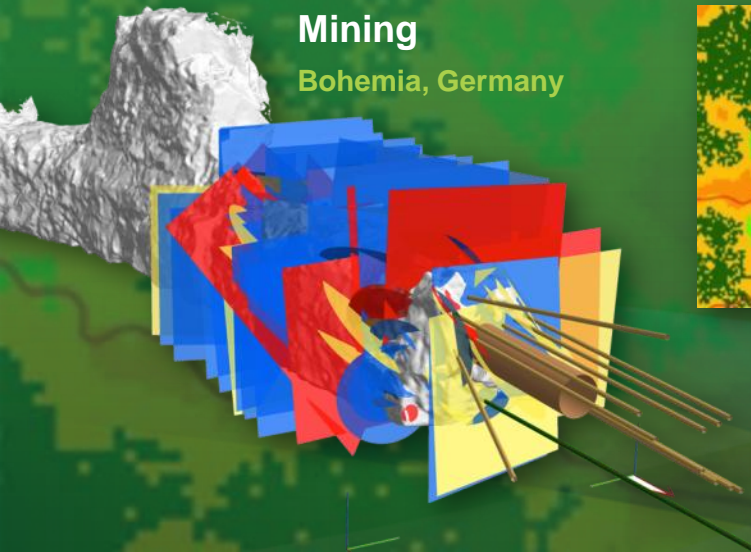
Reforestation



Green Belt Movement, Kenya

Mining

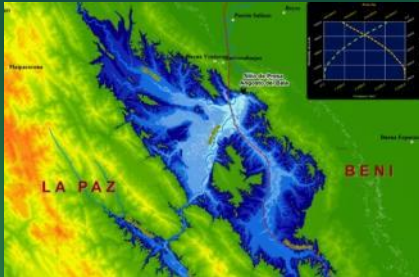
Bohemia, Germany



Developing Renewable Energy

<http://gis.cityofboston.gov/SolarBoston/#>

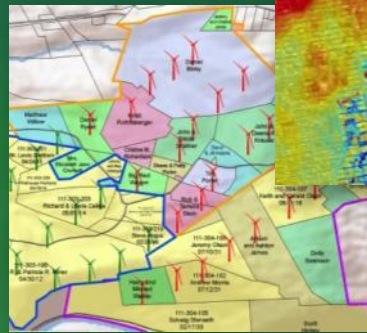
Hydropower



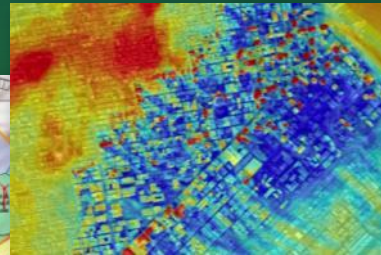
Bolivia

Wind Potential

Wind Farm

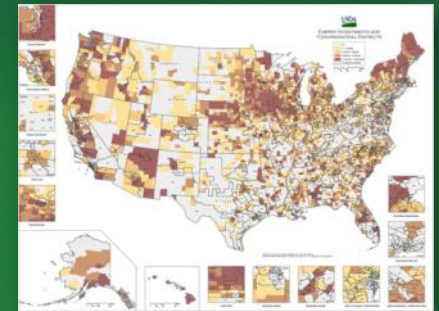


Pennsylvania



San Francisco,
California

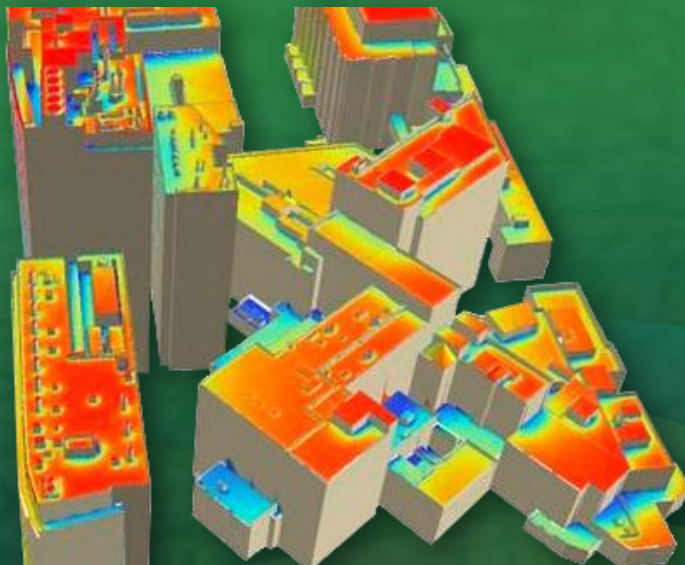
Energy Investment



USDA

Solar Potential

Harvard University



Tidal Energy



Southeast Massachusetts

Planning for the Future

Land Use/Zoning



Tyrol, Austria

Urban Design



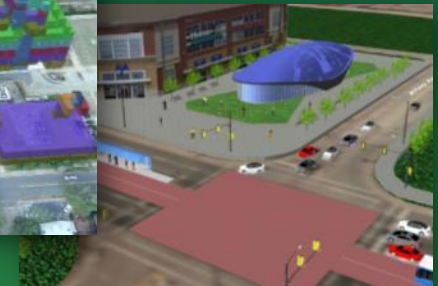
Rochester, New York

Space Planning



South Carolina

Subway Planning



Vaughan, Oregon

School Districts



Hawaii

Trails and Open Space



Rocky Mount, N. Carolina

Streetscapes



Calgary, Canada

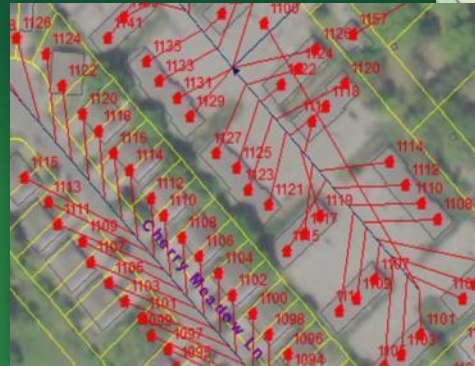
Managing Land Information

Property Value Change



Houston, Texas

Address Management



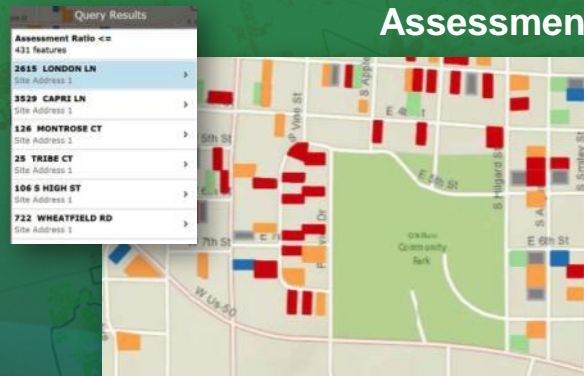
Rock Hill, South Carolina

Parcel Management



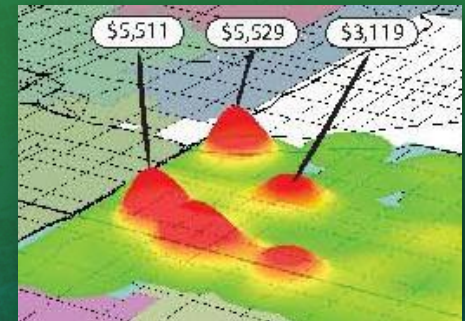
Kitchener, Canada

Assessment



O'Fallon, Illinois

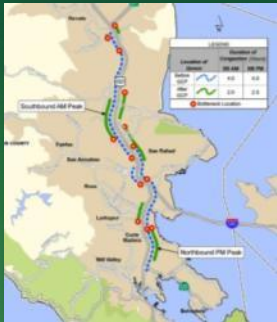
Changes in Tax Revenue



Mesa, Arizona

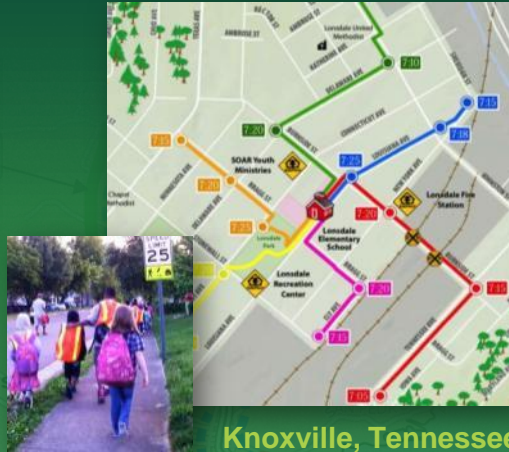
Managing Transportation

Traffic Congestion



California

Walking School Bus



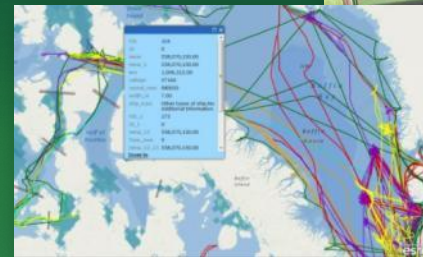
Knoxville, Tennessee

Airport Management



LAX

Ship Monitoring



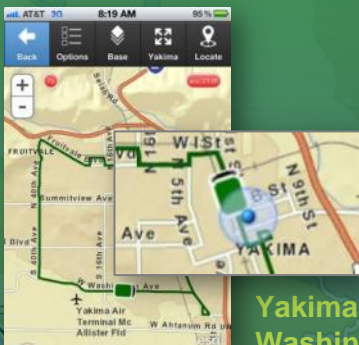
Baffin Bay

Transit Rider Density



Northeastern Illinois

Bus Transit App



Yakima, Washington

Bus Routes



Israel

Rideshare



Los Angeles

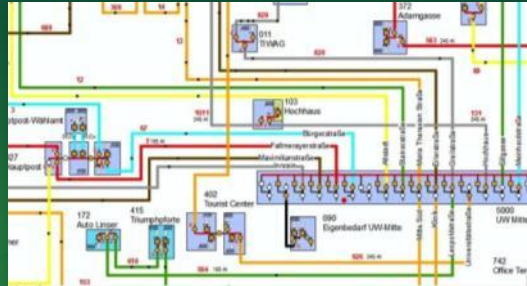
Managing Utilities and Telecommunications

Sewer Overflows



Temple, Texas

Power Station Schematic



Germany

Energy Use



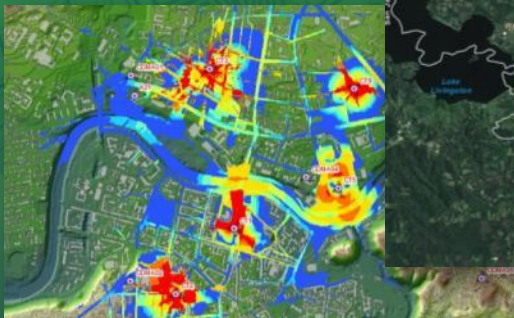
New York City, New York

Pipeline Planning



Texas

Cellular Network Planning



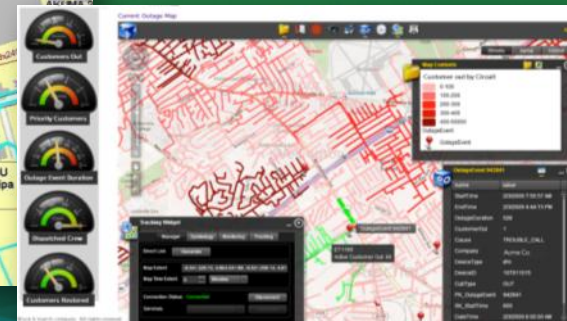
Lithuania

Electrical Modeling



Czech Republic

Electricity Outage



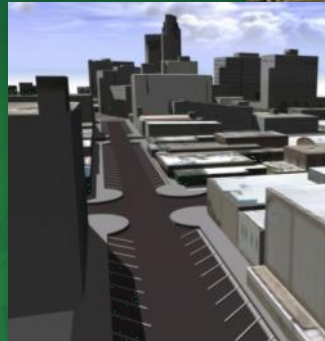
Visualizing and Managing Buildings

Public 3D Viewer



China

Cityscape



Corpus Christi, Texas

Campus Design



University of Rochester,
New York

Urban Modeling



City of Paris,
France

Apartment Complex



Indiana

Virtual City



Dubrovnik, Croatia

Providing Defense and National Security

Conflict Mapping



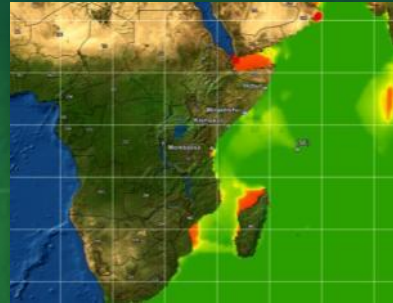
Egypt

Incidence Density



Brazil

Piracy



NAVOCEANO

Security Visualization



Langley AFB

Situational Awareness



California

Basemaps



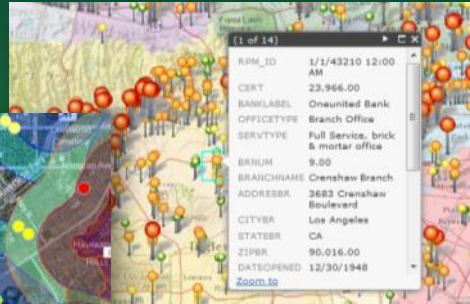
NGA



NATO

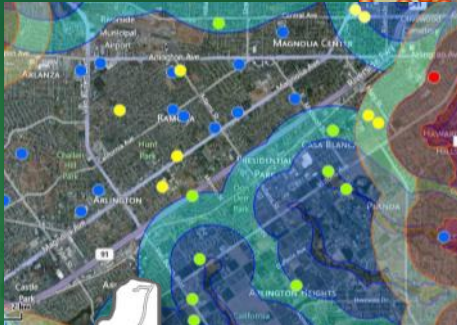
Improving Business Management

Bank Locations



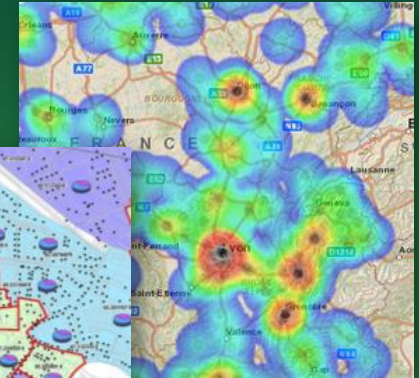
Los Angeles, California

Insurance



Riverside, California

Retail Market Potential



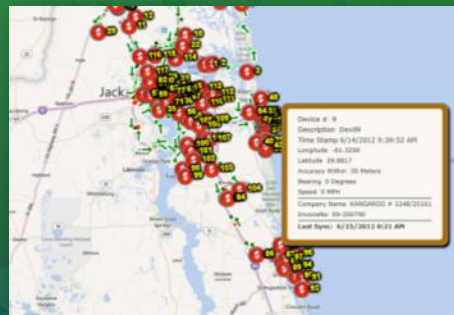
France

Market Analysis



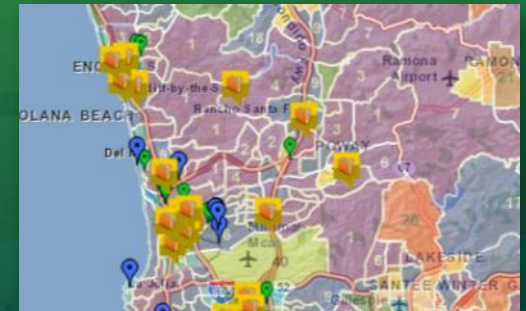
Spain

Transportation Dispatch



Jacksonville, Florida

Sales Management



Oceanside, California

Develop or Not?
Missoula, Montana



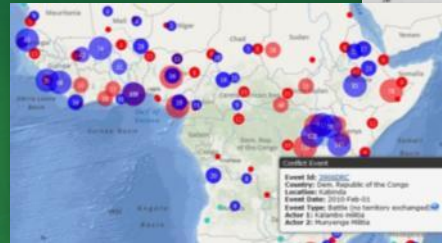
Understanding Demographics and Human Health

Chronic School Absenteeism



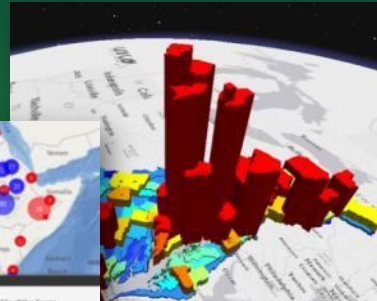
Oakland, California

Political Stability



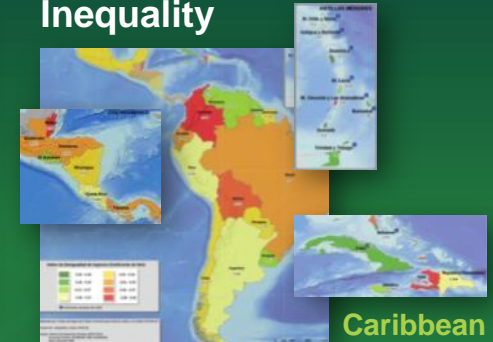
Africa

Population Density



Chesapeake Bay

Income Inequality



Latin America

Caribbean

Domestic Violence



Madrid, Spain

Chromosome Mapping



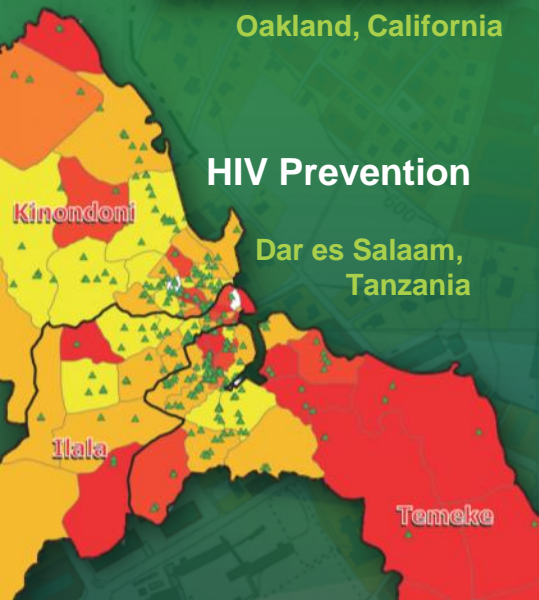
California

Lead Poisoning



Detroit, Michigan

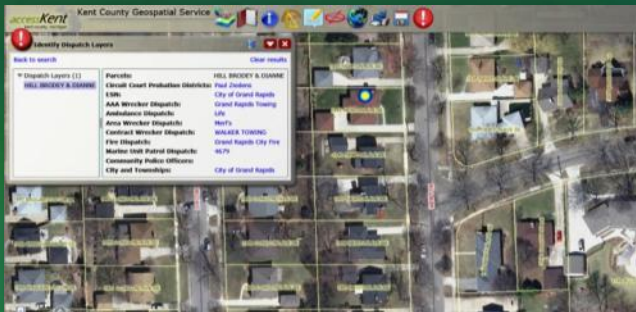
HIV Prevention



Dar es Salaam, Tanzania

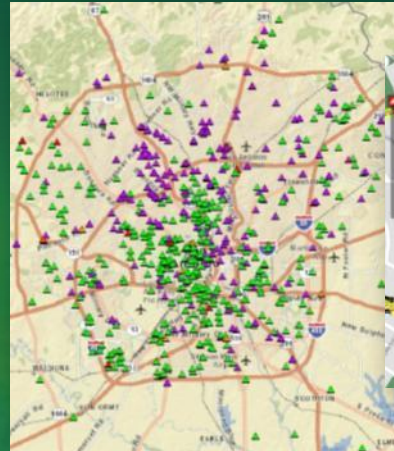
Empowering Law Enforcement and Public Safety

Incident Response



Kent County, Michigan

DWI Fugitives



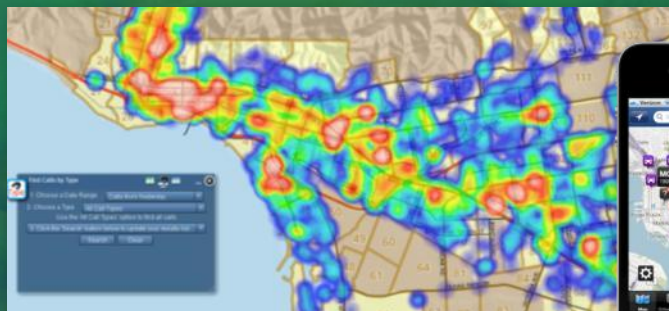
San Antonio, Texas

Crime Analysis



Kuala Lumpur

Call Density



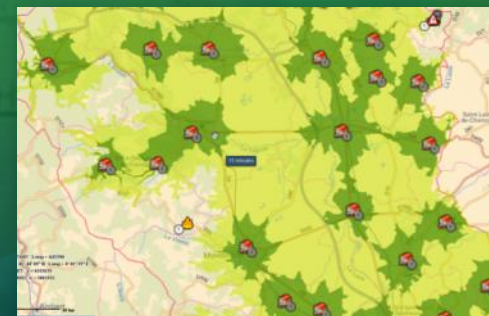
Ventura, California



Crime Mapping

San Diego, California

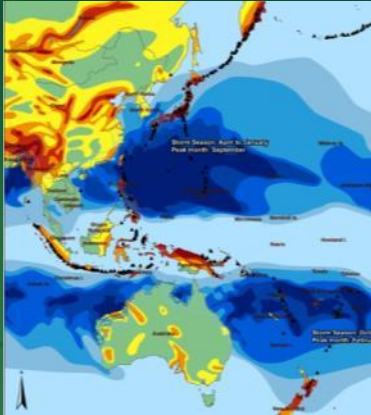
Fire Station



France

Planning for and Responding to Natural Disasters

Risk Areas



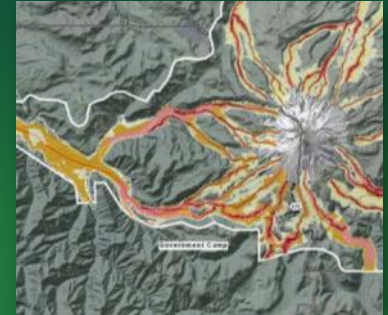
South Asia

Severe Weather



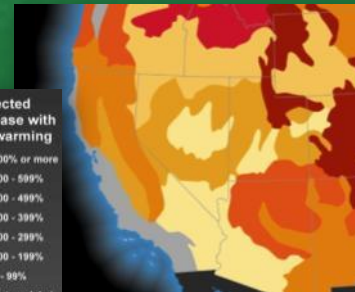
Southeast US

Volcanic Hazards



Mt. Hood, Oregon

Forecasted Wildfire



Western US

Waldo Fire



Colorado

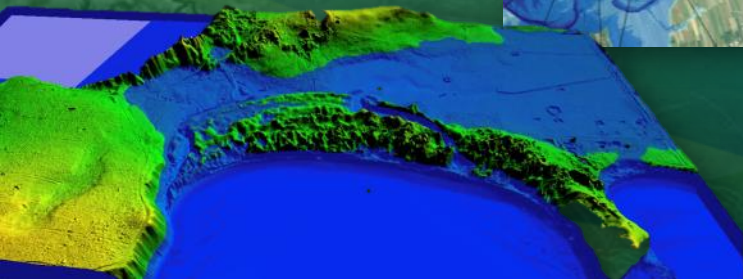
Flood Hazards



Romania

Coastal Flooding

New South Wales,
Australia



Humanitarian Support

Red Cross Facilities



Global

Tracking Projects



US Government

Shelter Concentrations



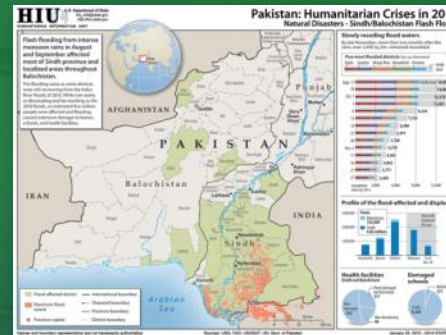
Somalia

Climate Change, Conflict, and Aid



Africa

Flood Response



Pakistan

Displaced Villages



Thailand & Burma

Cartography

Lidar Rendering



Winnebago County, Illinois

Aeronautical



US-FAA

Nautical
Charting



US-NOAA

Topographic



Switzerland

Road Map



Michelin Guide Maps



Geology



Czech Republic

Creating GIS Infrastructure


Firefox Geospatial platform

esricanada.maps.arcgis.com/home/index.html


Most Visited Outlook Web App ArcGIS Online | ArcGIS ... Folder: / Esri Support ArcGIS Resource Cente... ArcGIS Resource Center Esri Customer Care Po... ArcGIS Staging Viewer


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 Geospatial Platform for the Federal Government of Canada Plateforme géospatiale pour le gouvernement fédéral du Canada

Featured Maps

 Saskatchewan SGIC Ortho-Photography Project

 Canadian Wetland Inventory

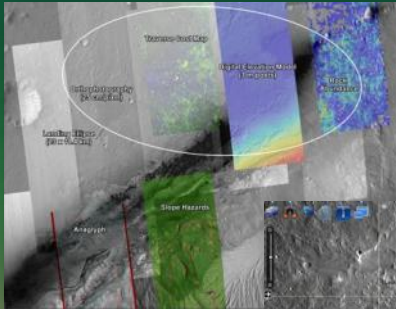
 Canadian Digital Elevation Data

 Environment Canada Weather Stations

The Geospatial platform provides shared and trusted geospatial data, services and applications for use by federal government agencies of Canada.

Exploring Remote Places

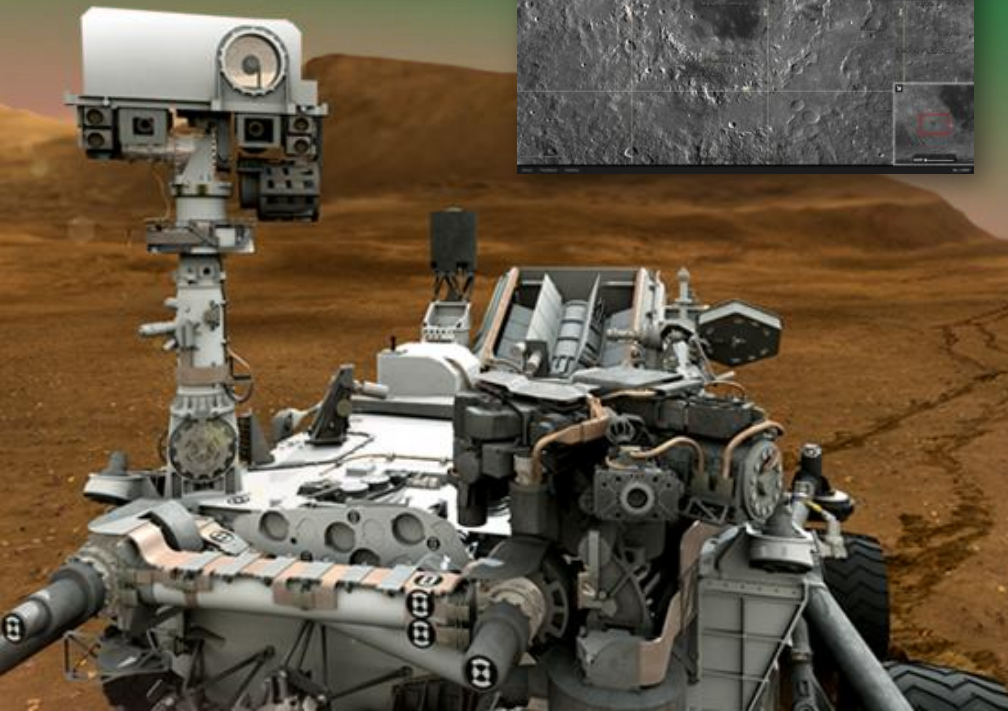
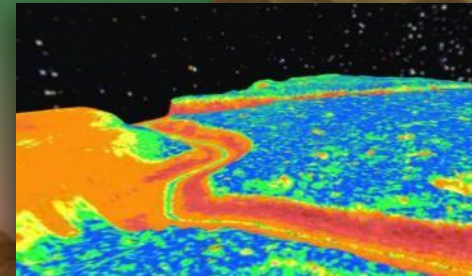
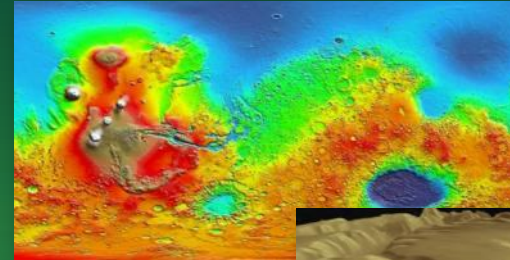
Mars Landing Site



Lunar Mapping



Imagery



Jet Propulsion Laboratory
California Institute of Technology

Geographic Information

Systems Solving Sharing Synthesis

Climate Change

Natural Disasters

Utilities

Business

Environment

Science & Technology

Energy

Population Growth

Nature Conservation

Mapping

Pollution

Water Resources

Infrastructure

Defense & Security

Economic Recovery

Government

Human Health

Education

Social Conflicts

Oceans

Urbanization & Development

Agriculture

Transportation

... Is deepening the understanding of Our World

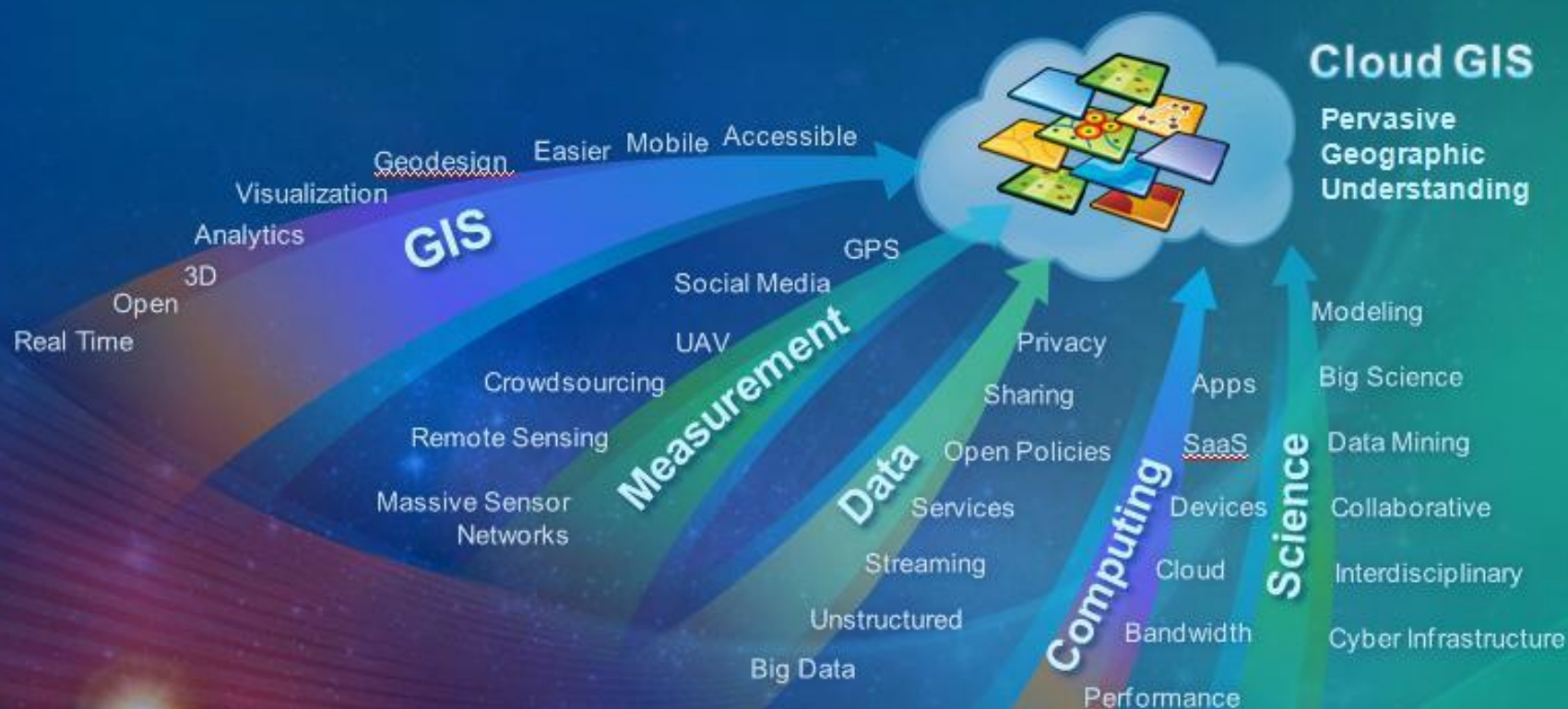
Our World Is Changing Rapidly



***We Need Integrated Knowledge . . .
. . . and Ways to Create Better Outcomes***

GIS Technology is Advancing Very Rapidly

Leveraging Multiple Trends



Enabling Us to Reimagine Our World . . .

. . . Integrating Geographic Knowledge into Everything We Do

Cloud GIS is Integrating All Types of Geospatial Data

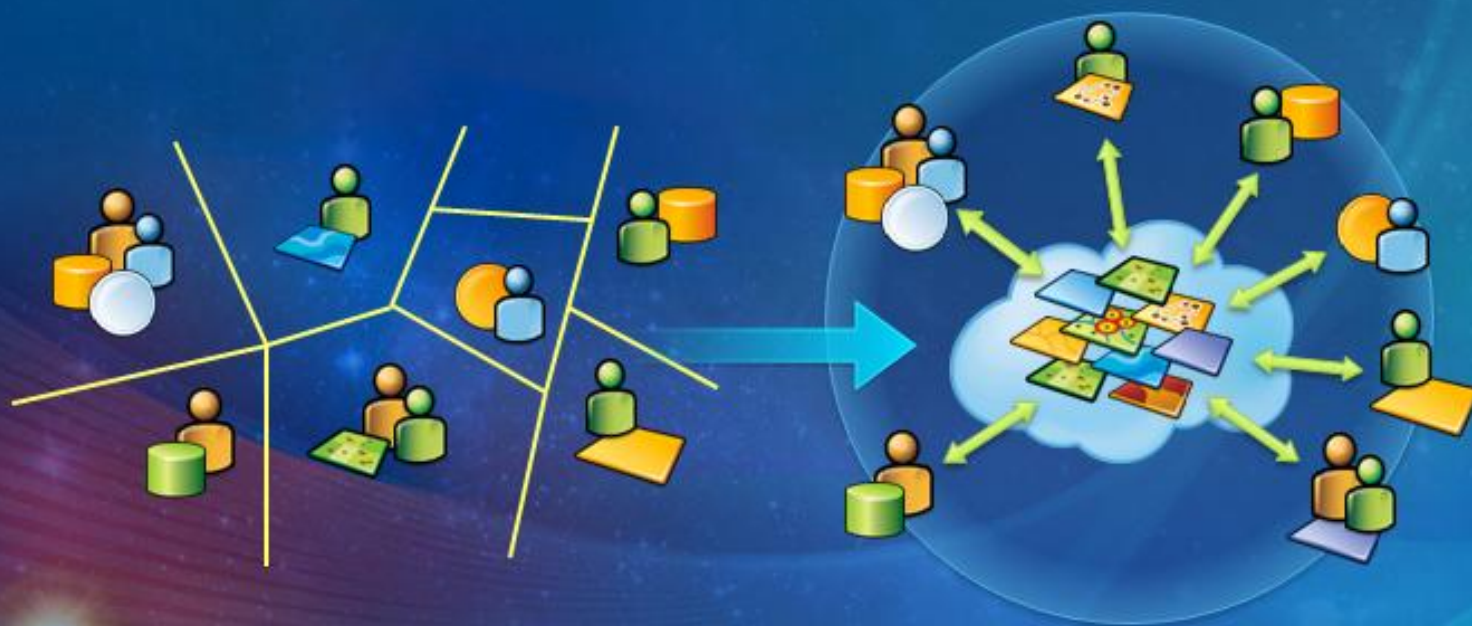


... Web Maps Make This Information Accessible Widely

Cloud GIS changes the way we Collaborate

Breaking Down Barriers Between Workflows, Disciplines and Cultures

Web Maps Provide
A New Medium



Enabling Collaboration, Sharing and Holistic Approaches

Cloud GIS has enabled Pervasive Access

Integrating Traditional GIS with a Whole New World of Apps



Cloud GIS Is Now a Fundamental Part of ArcGIS

Providing

- Content Management
- Intuitive Mapping
- Sharing and Collaboration
- Web and Mobile Apps
- Enterprise Integration
- Open Interoperability



Integrating ArcGIS with Cloud Computing

The Mapping Platform for Your Organization

Create interactive maps and apps and share them with the rest of your organization. Realize new opportunities and gain insight into your data. Do this quickly and easily with nothing to install or setup.

30-DAY FREE TRIAL



Reach Your Users

Share your maps and data through blogs, social media, or custom apps. [Learn more](#)



Go Mobile

Your maps and information can be accessed from anywhere. [Learn more](#)



Ready-to-use Content

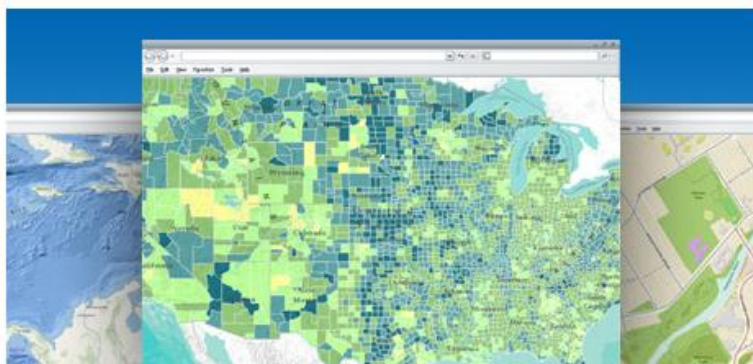
Choose from a variety of beautiful basemaps to kick-start your projects. [Learn more](#)

Maps for Personal Use

Discover useful maps, data, and other information. [Home](#) | [Map](#) | [Gallery](#)



<http://www.arcgis.com/about/>



Ready-to-Use Content

Access a rich collection of basemaps, demographic maps, image services, and data. These maps are a great foundation for your work and are created only from the authoritative content from commercial data providers and the GIS user communities around the world.

Make Maps Directly in Excel

Create interactive maps of your data directly inside Excel with the Esri Maps for Office add-in. Quickly map addresses or locations and other geographic data such as sales by territory. Add the map you created in Excel as a slide to your PowerPoint presentation. Or publish and share your map in ArcGIS Online for others to use.

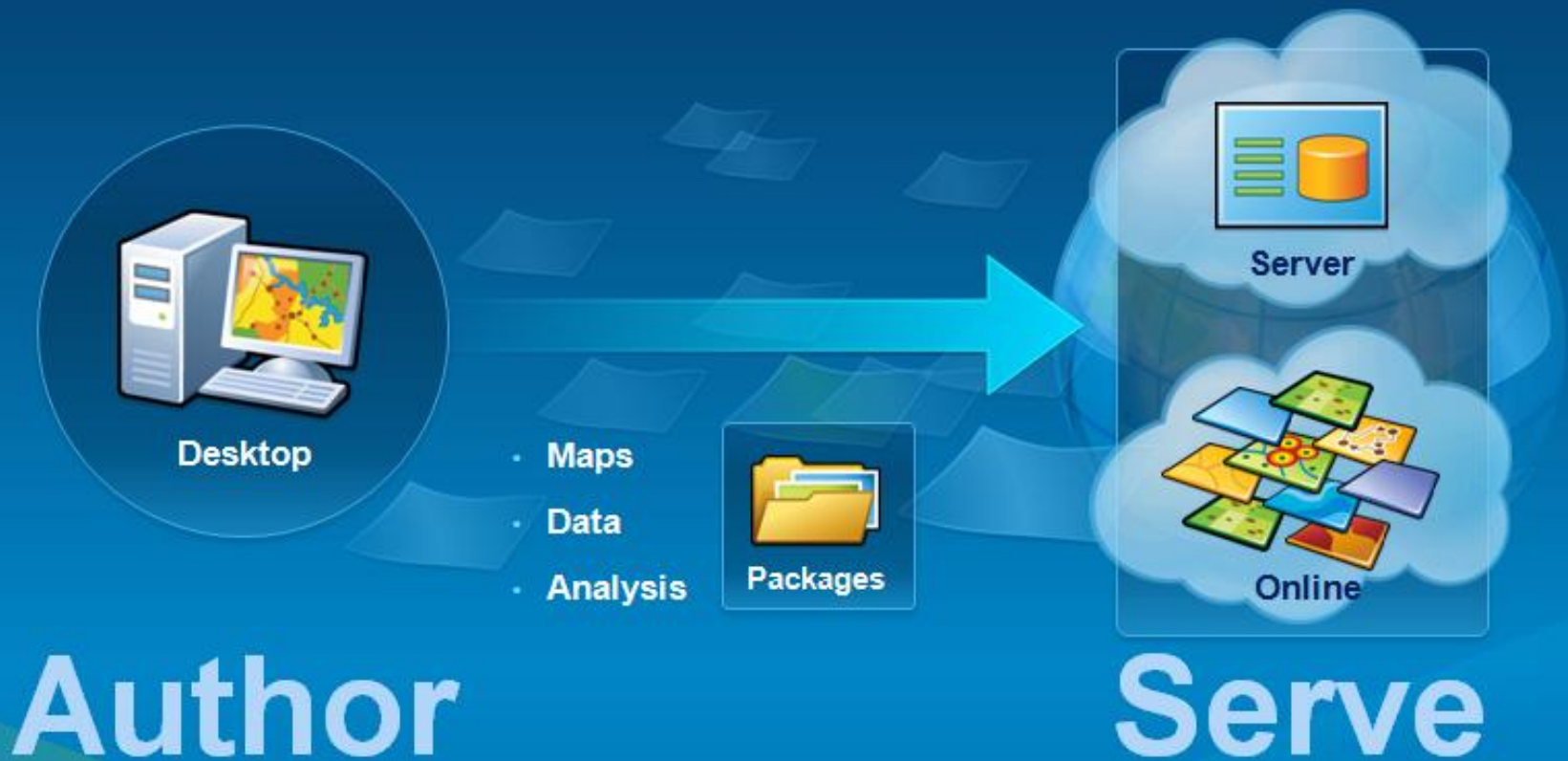


Easily Add Data

Turn your data into useful information by creating content-rich intelligent maps that tell your story. Add your data, create mashups with maps and data shared by other users. Add pop-ups to your map to highlight information including photos or links to web pages.

Simplifies Authoring and Serving

Automating the Process of Creating Services

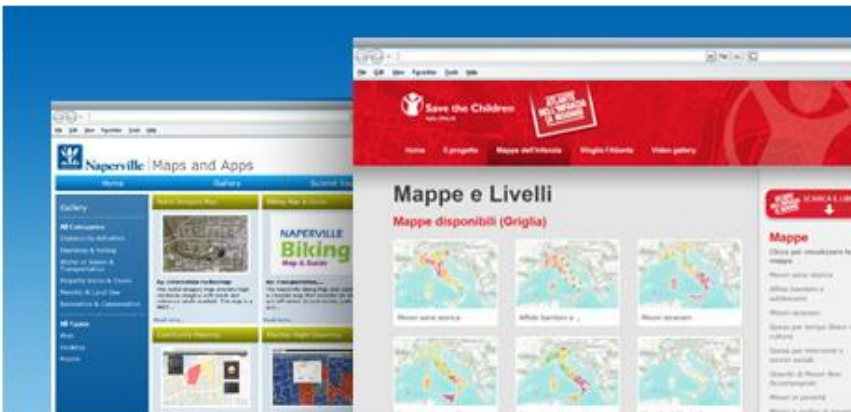
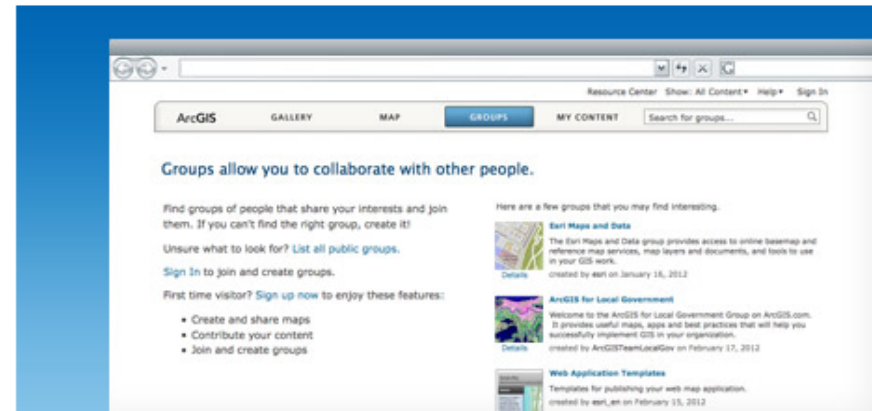


Making It Easier to Share

Collaborate in Private Groups or Share with Public

Collaboration Made Easy

ArcGIS Online gives you an easy-to-use and intuitive workspace for collaborating with others in your organization. Users can create groups and invite others to work together on projects of common interest. Groups can be either private or public, and group members can share maps, data, and other content with each other efficiently and quickly.



Reach Your Users

Effortlessly share your maps and data on blogs, web pages, and web applications, or to Facebook and Twitter.

Coming soon: Create maps in Microsoft Excel and share them through PowerPoint presentations or publish them to the ArcGIS System.

Once your Maps, Content is in ArcGIS Online you can make it accessible from smartphones & tablets

Go Mobile

With the free downloadable ArcGIS app for smartphones and tablets you and your organization can access your maps and information wherever you are, at any time. Or simply use the browser on your mobile device to discover content, collect and report data, and perform GIS analysis. All with no additional work.



Go Mobile – download “ArcGIS for iOS”/ “ArcGIS for Android” or “ArcGIS for Windows Phone”

<http://www.esri.com/software/arcgis/smartphones>

Organizations Are Rapidly Adopting This Pattern

Rio+20 Opening Up and Liberating Geospatial Data



<http://www.uncsd2012.org/>

Creating Geography as a Platform

<http://video.arcgis.com/watch/916/arcgis-online-overview>

http://video.arcgis.com/watch/916/arcgis-online-overview

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Center for Hawaii Island Analysis

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Center for Hawai'i Island Analysis

Hawaii Island Latest Maps and Applications

An Interactive Map of Hawaii Island Volcanism Hawaii Island Historical Comparison Application Land Cover Elevation Ranges

The Center for Hawaii Island Analysis is an organization dedicated to the collection, study, and publication of geospatial data for Hawaii Island, also known as the Big Island or simply the Island of Hawaii.

Make a Map »

Create a map that can be viewed in a browser, desktop or mobile device. Share it on a blog, via email, or embed it in a website.

ArcGIS Online for Developers »

Build custom web and mobile applications that incorporate your maps and data.

00:00 04:13 HD

ArcGIS Now Works Within Microsoft Office

Providing Intuitive Mapping with Maps from AGOL for Organizations



... Extending the Reach of GIS



What's New in 10.1

Key updates from International User
Conference, July 2012



A Better Desktop

Improving Mapping, Visualization, and Editing



Dynamic Legends



Maplex Labeling



Generalization



Map Automation



Streamlined Editing



QA/QC Tools



Edit Tracking



Workflow



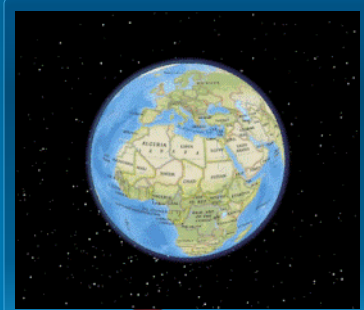
Saving Time and Increasing Productivity

Expands 3D Capabilities

Improving 3D Visualization and Analytics

- Faster
- Scalable

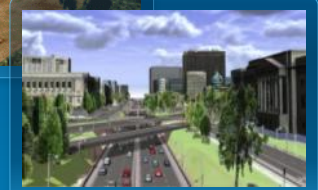
Globes



Buildings



Editing & Content Generation

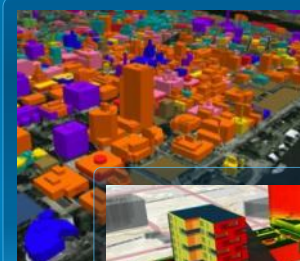


CityEngine

Landscapes



3D Analytics



Virtual Cities



GeoDesign & CityEngine 2012

<http://www.esri.com/technology-topics/geodesign/videos>

<http://www.esri.com/software/cityengine/>

Smart 3D City Models

CityEngine transforms 2D GIS data into smart 3D city models.

30-Day Free Trial

Top Videos, Demos, Tutorials



CityEngine Web Scenes

Publish CityEngine scenes directly on the web.



ArcGIS Integration

CityEngine fully supports the Esri file geodatabase and the shapefile format.



3D Land Use Zoning

CityEngine allows you to specify, visualize, analyze, and store zoning regulations in 3D.

Advances in Analytics

Adding New Tools and Methods

- Faster
- Simplified

Exploratory Regression

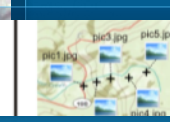


	V_1	V_2	V_3	$V...$
V_1				
V_2				
V_3				
$V...$				

$$V_1 = f(V_2) + f(V_3) + f(V...) + \dots$$



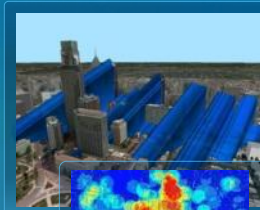
GPS Photos



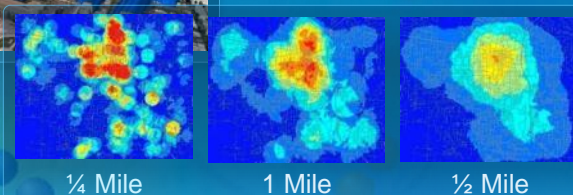
Better Kriging



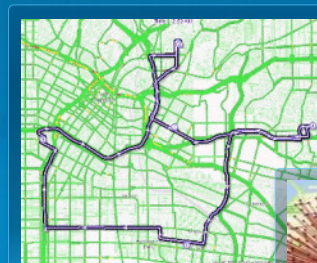
3D Analysis



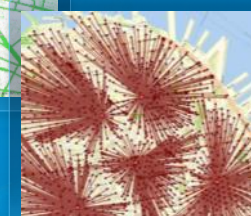
Cluster Analysis



Time Aware Routing



Fast Allocation



64-Bit Geoprocessing
for the Desktop ...with SP1

Advancing Geographic Science . . .
. . . Solving Complex Problems

Location Analytics

Geoenables Business Systems



Providing Geographic Insights for Business Intelligence

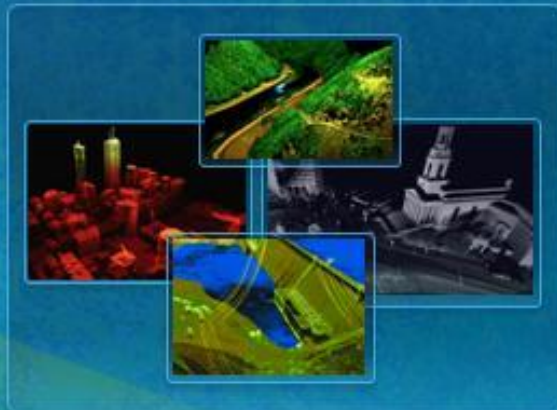
101 Unlocks Lidar Data

- Direct Read
- Fast Display
- Analytic Tools

Data Management



Visualization

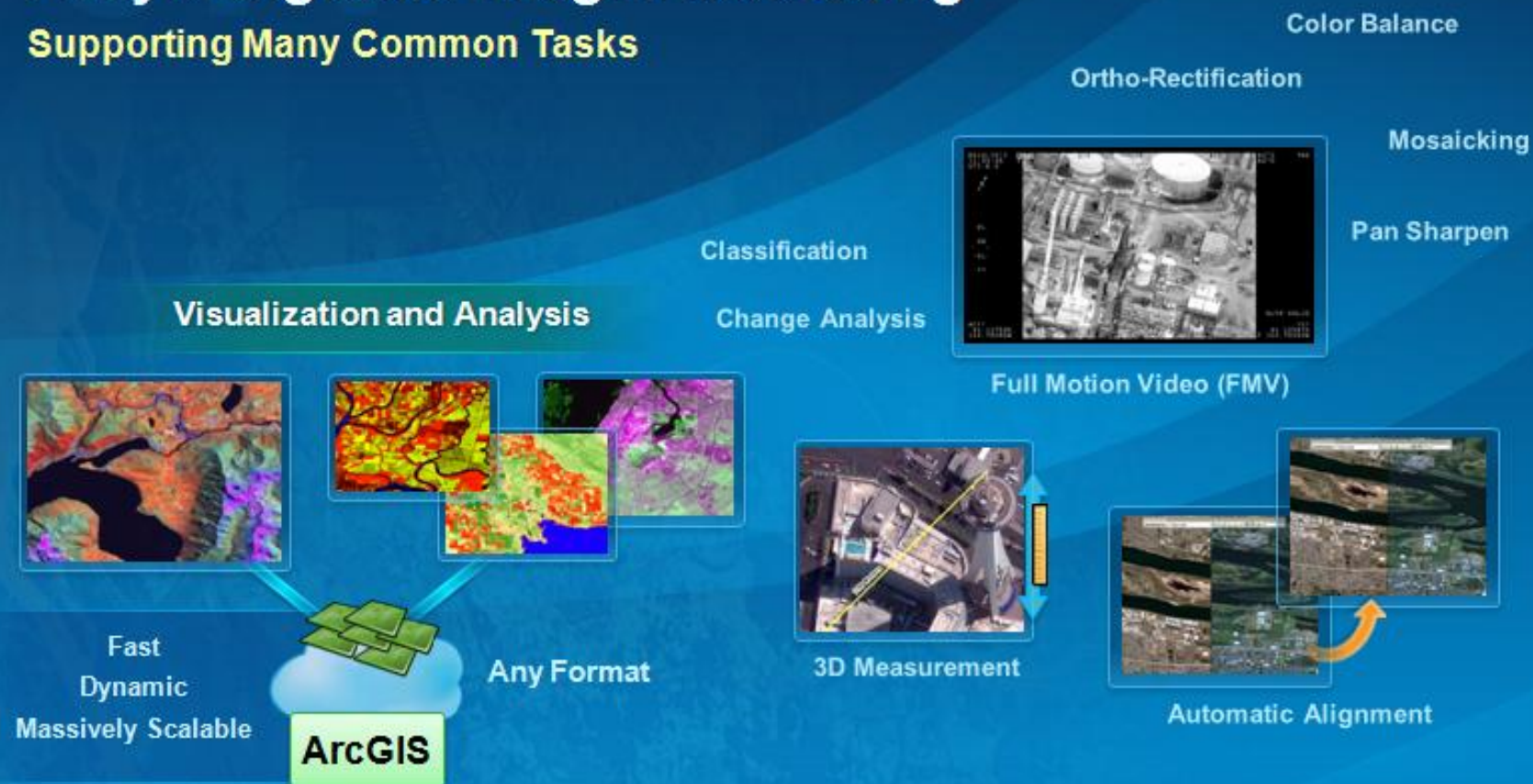


Analysis



Fully Integrates Image Processing

Supporting Many Common Tasks



Data Management and Serving

Open and Supported by Partners

ArcGIS Includes Many Ready-to-Use Lightweight “Apps” Enabling Pervasive Access



... Extending the Power of Your System

ArcGIS Mobile Apps Run On All Popular Devices

Enabling Enterprise Mobility



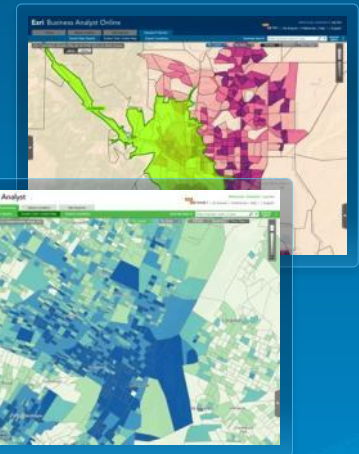
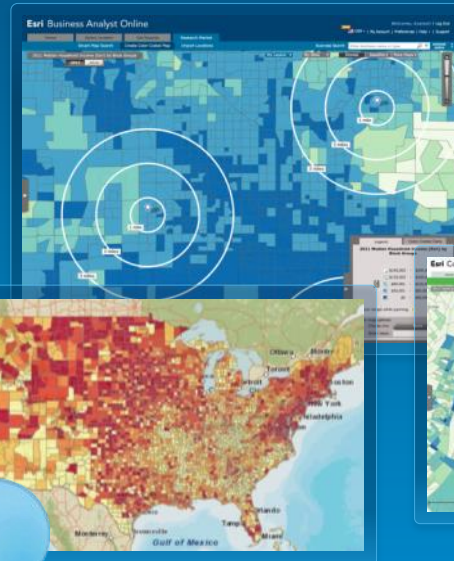
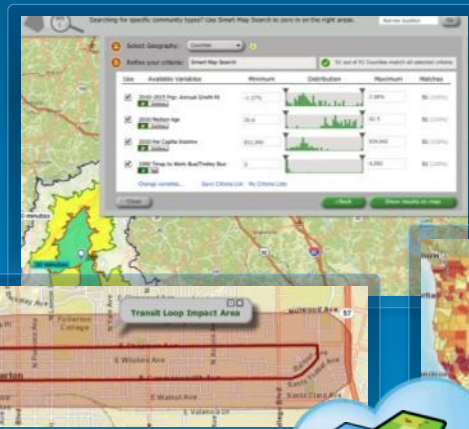
Business Analyst and Community Analyst

Provide Easy-to-Use Solutions for Business and Policy Analysis

SaaS

Analytics

Extensive Data
(4,500+ variables)



ArcGIS
Online

Mapping

Reaching New Audiences . . .

. . . And Empowering GIS Professionals

What's Next?

Incremental Updates (Fall/Spring)

- 64-Bit Desktop Geoprocessing
- Online Geoprocessing
- Disconnected Apps
- Mobile 3D
- Additional Content
- More Solution Templates . . .

Continued Improvements

- Full 64-Bit
- Fast Display
- Multiple Windows
- Integrated 2D/3D App
- Powerful Analytics
- Geodesign



Research

ideas@esri.com

ArcGIS Is a Platform for Your Entire Organization



Integrating Everything . . .

. . . Enabling Everyone to Participate

Self Serve Apps that give answers quickly

Web Apps & ArcGIS Online

Examples:

<http://www.devon.esri.ca/mdsii>

http://tmappsevents.esri.com/website/pim_severe_weather/index.html

More examples:

<http://gis.cityofboston.gov/SolarBoston>

<http://pug.maps.arcgis.com/home>

www.esri.com/software/cityengine
(3 new videos)

<http://video.arcgis.com/watch/916/arcgis-online-overview>

Enjoy the Discovery



GISday