

IGME - 382 - Introduction to Geospatial Technology

Fall 2020

Class Overview

Overview of Geospatial Technologies

Spatial Thinking

Sense of Place

Contact Information

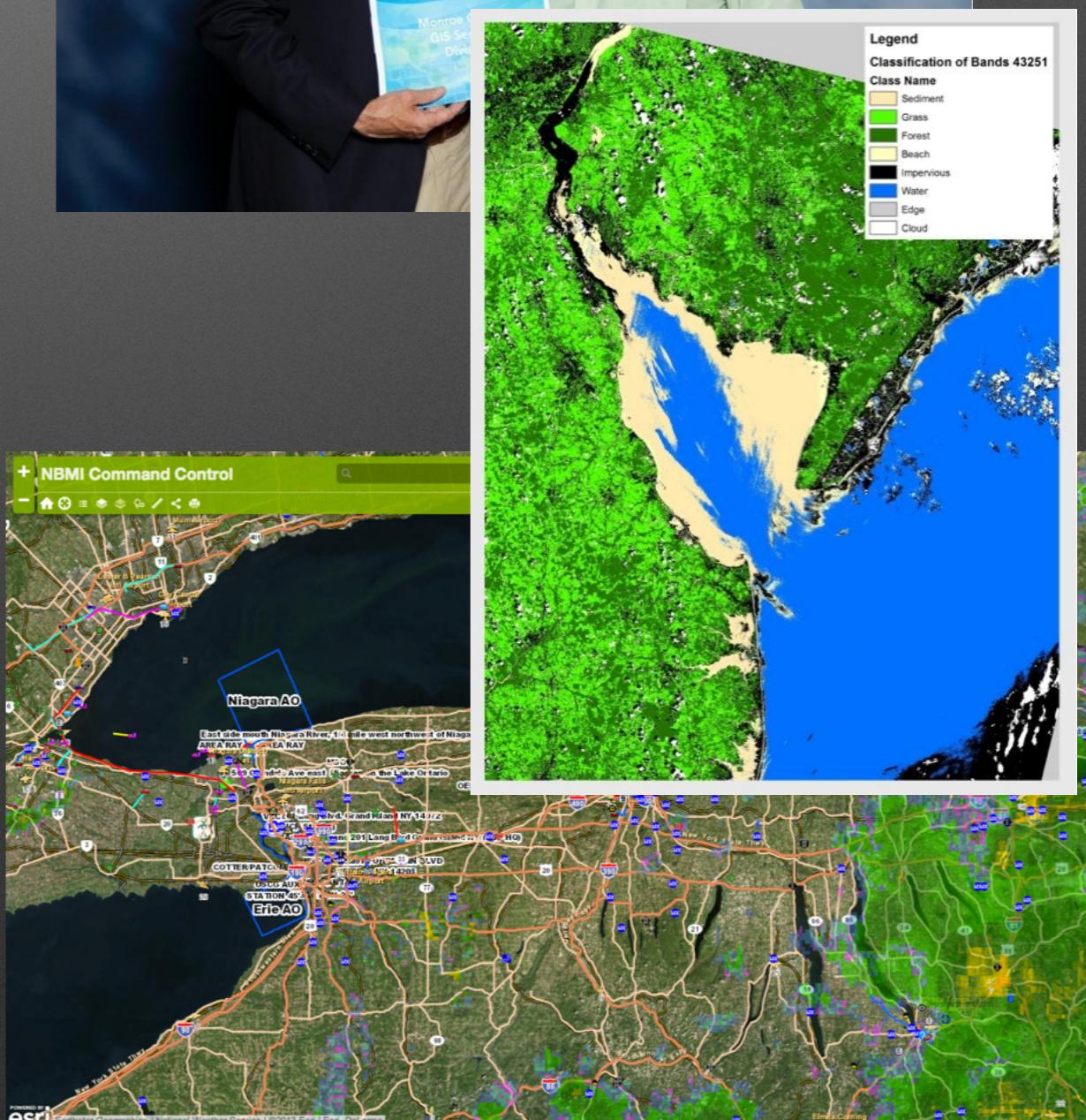
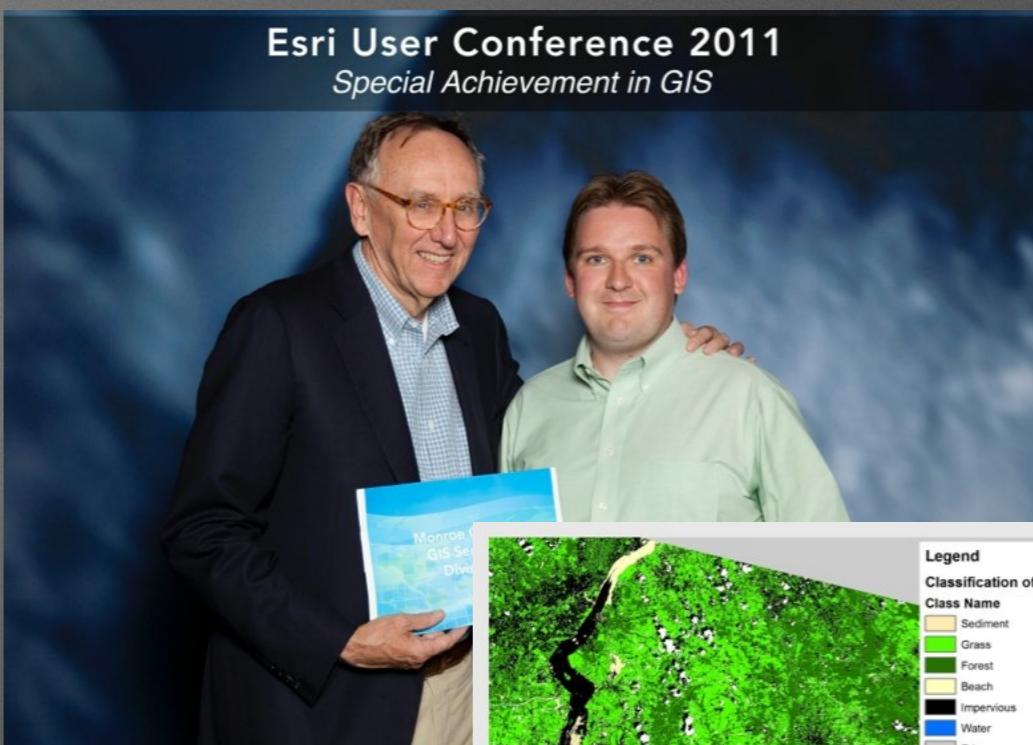
- Instructor: Justin Cole, GISP
- Email: jdcgla@rit.edu
- Twitter: [@JustinColeGIS](https://twitter.com/JustinColeGIS)
- Office Hours:
Zoom Web Conferencing By Appointment
- In Person Time (A/B) Tuesday and Thursday 8-9:15 in
MSS 3130

In person Time (A/B Split)

- The in person time that is scheduled is time for you to work in the lab
- No Instruction will be given during this time, but it is open for you to work as well as get help
- However this is not required as long as you meet these requirements
 - Have a computer that can run ArcGIS Pro (Windows Only)
 - Can utilize the RIT Virtual Machine

My Background

- Masters from RIT in 2007 in Environmental Science
- Worked for Monroe County Since 2003-2016 in the GIS Division
- Worked in Consulting
- Currently Full Time Faculty at University of Wisconsin and Adjunct at RIT, MCC, and Columbia College (SC)
- Part of many GIS organizations such as GISSIG(current President), ASPRS, NYSGIS Association, Society for Conservation GIS, and GISCorps Member



Major Course Topics

Fundamentals and principles of Geographic Information

Representing Geographic Information

Survey of Geospatial Technologies (GTs) and how they work

Applications of GTs to geographic problems

Ubiquitous GTs

Tentative Course Schedule

WEEK	TOPICS
1	Course Introduction and Overview of Geospatial Technology
2	Geographic Information
3	GPS
4	Geodatabase, tables, and geocoding
5	ArcGIS Online, Collector, Survey123
6	Web Maps and Story Maps
7	Remote Sensing / UAVs
8	Midterm Review - Geodesign - Project Introduction and Proposal Writing
9	Midterm and Geodesign
10	Data Management and Data Creation
11	Data Management and Data Creation Continued
12	Spatial Analytics
13 - 15	Final Project Working Time
16	Final Project Due

Assumptions

- Basic Windows operating systems use
- Basic file management skills – download and unzip
- Internet Use
- myCourses

Textbook and Readings

The GIS 20 - Great Resource and Tutorial Book (If you stay with GIS the concepts from this book will be used everywhere)

Readings to be assigned by Instructor as needed.

ArcGIS License

- You should receive an email from ESRI or ArcGIS Online. This is important as it is your license and access to the software for the class and ArcGIS Online
- The account is tied to your RIT login
- Our Organization is ritarcgis
- I will go into how to login in a later class

Tips for success....

- Do the readings and follow the lectures
- Develop self-help skills
- Develop time management skills
- Develop writing skills
- Ask questions
- Share resources and work together (email/discussion board)

Overview of Geospatial Technologies

- Technologies that represent the Earth
- Information used to create those representations
 - Geographic or Geo-Information

What's in a Name?

- Geospatial synonymous with Geographic
- Geospatial adopted by non-academics
- Geospatial implies more emphasis on tools, information

What's in a Name?

- Term variations
 - Geo-Information Technology (European)
 - Geospatial Technology
 - Geospatial Information Technology
 - Geographic Information Technologies
- Geomatics
- Geoinformatics

**Invitational Hiring Event - Apply Now**

The National Geospatial-Intelligence Agency is now accepting online applications for our November 2009 Invitational Hiring Event. If you are interested in performing exciting work that makes a difference everyday, then consider a career with NGA. We will be interviewing for a variety of entry to mid level opportunities. Apply by September 4 to be considered. For more details and to apply, please see the [Hiring Event Assignment Opportunity Notice](#).

Hiring Event FAQ's

The Office of Corporate Communications has created a product that captures the depth and breadth of NGA on June 25, 2009 in text and photos. This project was a collaborative effort, spanning nearly 30 directorates and includes many of our forward-deployed personnel. ([read more](#))

June 25, 2009 highlights

The National Geospatial-Intelligence Agency (NGA) is a Department of Defense combat support agency and a member of the national Intelligence Community (IC). NGA develops imagery and map-based intelligence solutions for U.S. national defense, homeland security and safety of navigation.

NGA provides timely, relevant and accurate geospatial intelligence in support of national security objectives. The term "geospatial intelligence" means the exploitation and analysis of imagery and geospatial information to describe, assess and visually depict physical features and geographically referenced activities on the Earth. Geospatial intelligence consists of imagery, imagery intelligence and geospatial (e.g., mapping, charting and geodesy) information.

Information collected and processed by NGA is tailored for customer-specific solutions. By giving customers ready access to geospatial intelligence, NGA provides support to civilian and military leaders and contributes to the state of readiness of U.S. military forces. NGA also contributes to humanitarian efforts, such as tracking floods and disaster support, and to peacekeeping.

Pathfinder - NGA's Corporate Magazine

July/August 2009
GEOINT In Action



May/June 2009
A Historic Role



March/April 2009
International Edition: Your Passport to GEOINT

Every Day is a Great Day at NGA!



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2009 GIS for Oil & Gas Conference

Register Now

See the Sold-out Exhibit Floor

Get Program Details

First Annual Blue Marble
Users Conference

Publications 2009

Order the 2009 GTR

Purchase the ROI workbook

2009 GISC Recorded Sessions

2009 GISC Proceedings

2010 Geospatial Infrastructure Solutions Conference

Submit Your Abstract

Purchase Recorded Sessions

2009 Wrap-up Information

CIP-ER Space

CIP-ER Space Home

Infrastructure Interdependences
White Paper

SDI White Paper

Emergency Response Symposium

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chapters

resources

solution providers

GITA in action

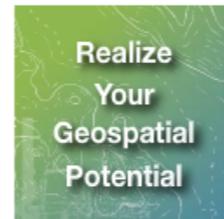


Welcome to the Premier Web site for Geospatial Solutions for Infrastructure

The Geospatial Information & Technology Association (GITA) is the professional association and leading advocate for anyone using geospatial technology to help operate, maintain, and protect the infrastructure, which includes organizations such as utilities, telecommunication companies, and the public sector. Through industry leading conferences—along with research initiatives, chapters, membership, and other programs—GITA provides education and professional best practices.

The **infrastructure** is all fundamental services, activities, and operations that sustain our communities and way of life—from keeping the lights on to creating safe drinking water to responding to an emergency.

Please note: GITA Headquarters in Aurora, CO, has switched to summer hours (7:00 am. - 4:00 p.m. mountain time) until Sept. 4, 2009. You can reach our office at 303... , or by e-mail: info@gita.org.



[Online Registration Closes Sept. 8th, at 5 p.m. Central Time](#)

[Abstract Submission Deadline has Been Extended to Sept. 14th](#)

OCTOBER 5-7 {09}

What is geospatial technology?

This exciting technology combines maps, geographic data, and descriptive information to form a geographic information system—[read more!](#)

Why become a GITA member?

The benefits of GITA membership extend far beyond our conferences and include discounts to all sorts of GITA offerings, access to our membership database, chapter events, and [much, much more!](#)



Industries ▾ Products ▾ Support & Services ▾ About ▾ Community ▾

Sign In



Demographics On Demand

Custom reports for market analysis... in minutes →



How Do You Find Hot Spots?

With the right tool (hint, it's easier than you think)



The Secret Ingredient at Wendy's

Wendy's tells *The Washington Post* how GIS saved them \$750,000





UCGIS

University Consortium for Geographic Information Science
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[Members Only](#)

Welcome to the Home Page
for the



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September 2009

Other: GIS and transportation in the year 2029: we need your input!

Deadline: 12/31/2009

The Transportation Research Board Committee on Geographic Information Science and Applications (ABJ60) is developing a strategic vision for the next 20 years of research, development and application o...[more information](#)

October 2009

Request for Applications: Marble-Boyle Undergraduate Achievement Awards in Geographic Science

Deadline: 10/15/2009

The Association of American Geographer's Marble Fund for Geographic Science is pleased to announce the 2010 Marble-Boyle Undergraduate Achievement Awards. These awards promote and recognize excell...[more information](#)

Call for Papers: AAG-sponsored sessions on place names and gazetteers

Deadline: 10/28/2009 Washington, DC

The Association of American Geographers (AAG) is sponsoring a special set of sessions at its upcoming Annual Meeting in Washington, DC, April 14-18, 2010 on the geography of place names and the relate...[more information](#)

[...more events](#)

News

[UCGIS Board Member Receives NSF CAREER Award](#)

Washington DC, June 18, 2009 Shaowen Wang, serving on the UCGIS Board of Directors, has recently been awarded a National Science Foundation (NSF) CAREER Award to study spatially oriented theories and methods for enabling computationally intensive spatial analysis and modeling to establish a next-generation Geographic Information Systems (GIS) framework. [...more](#)

[Integrating HSD Goals into Core SBE Programs](#)

Arlington, VA, Dec 9, 2008 Following the innovations of the recently ended Human and Social Dynamics (HSD) priority area, the Directorate for Social, Behavioral & Economic Sciences (SBE) now encourages submission of research proposals to the regular SBE programs covering three areas. There will be new funds available in the Divisions to support these activities where they differ in scope or scale from the traditional core of the programs. [...more](#)

[UCGIS Endorsement of California Data Access Amicus Brief](#)

Santa Clara County, CA, May 7, 2008 UCGIS has endorsed an Amicus Brief filed in California involving questions of geographic information access. [...more](#)

[UCGIS President Named to National Geospatial Advisory Committee](#)

Washington DC, Feb 01, 2008 Sean Ahearn, President of UCGIS, has been appointed to the National Geospatial Advisory Committee by Interior Secretary Dirk Kempthorne [...more](#)

[UCGIS Listserve Instructions](#)

[Subscribe to UCGIS List](#)

What's New
08/19/2009

Feb. 4-5, 2010
[Winter Meeting](#) at Doubletree Hotel, Washington, DC

June 15-16, 2010
[Summer Assembly](#) at Crown Plaza Beach Resort, Hilton Head Island, SC

UCCGIS/USGS Ontology for the National Map Specialists Meeting Presentations

UCGIS 2009 Awards

[Research Award](#)

[Hanan Samet](#)

[Education Award](#)

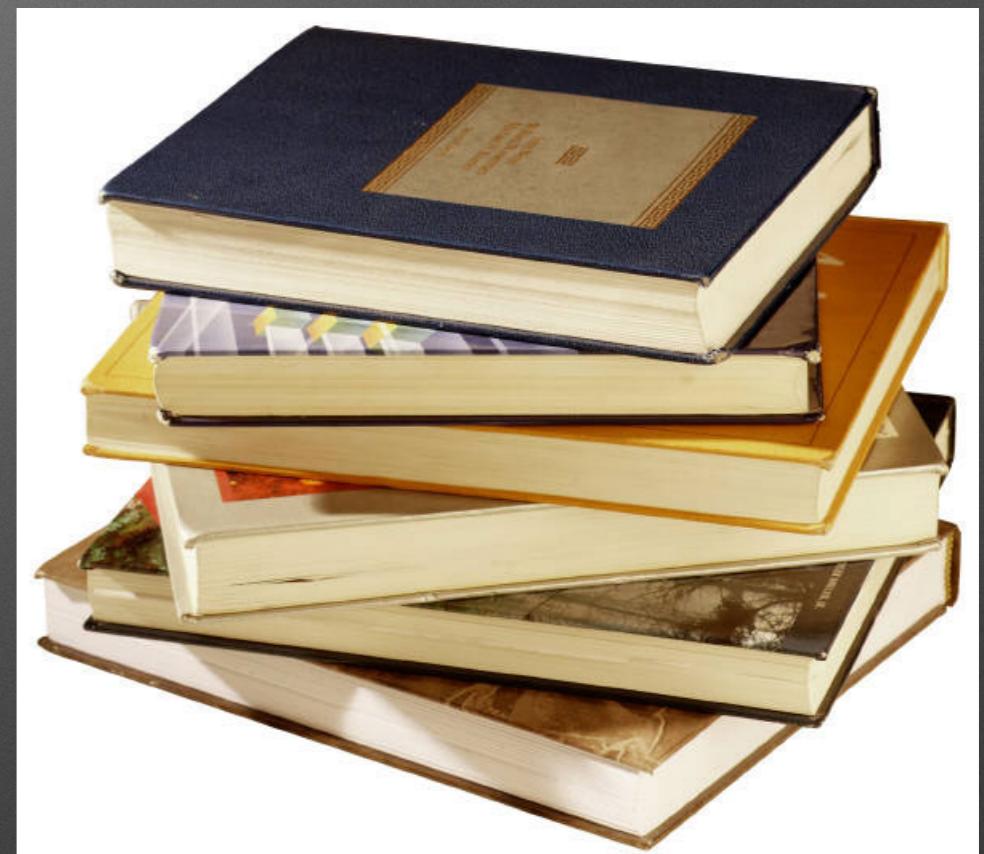
[David M. Mark](#)

[Past Awards](#)

[E-Alerts](#)

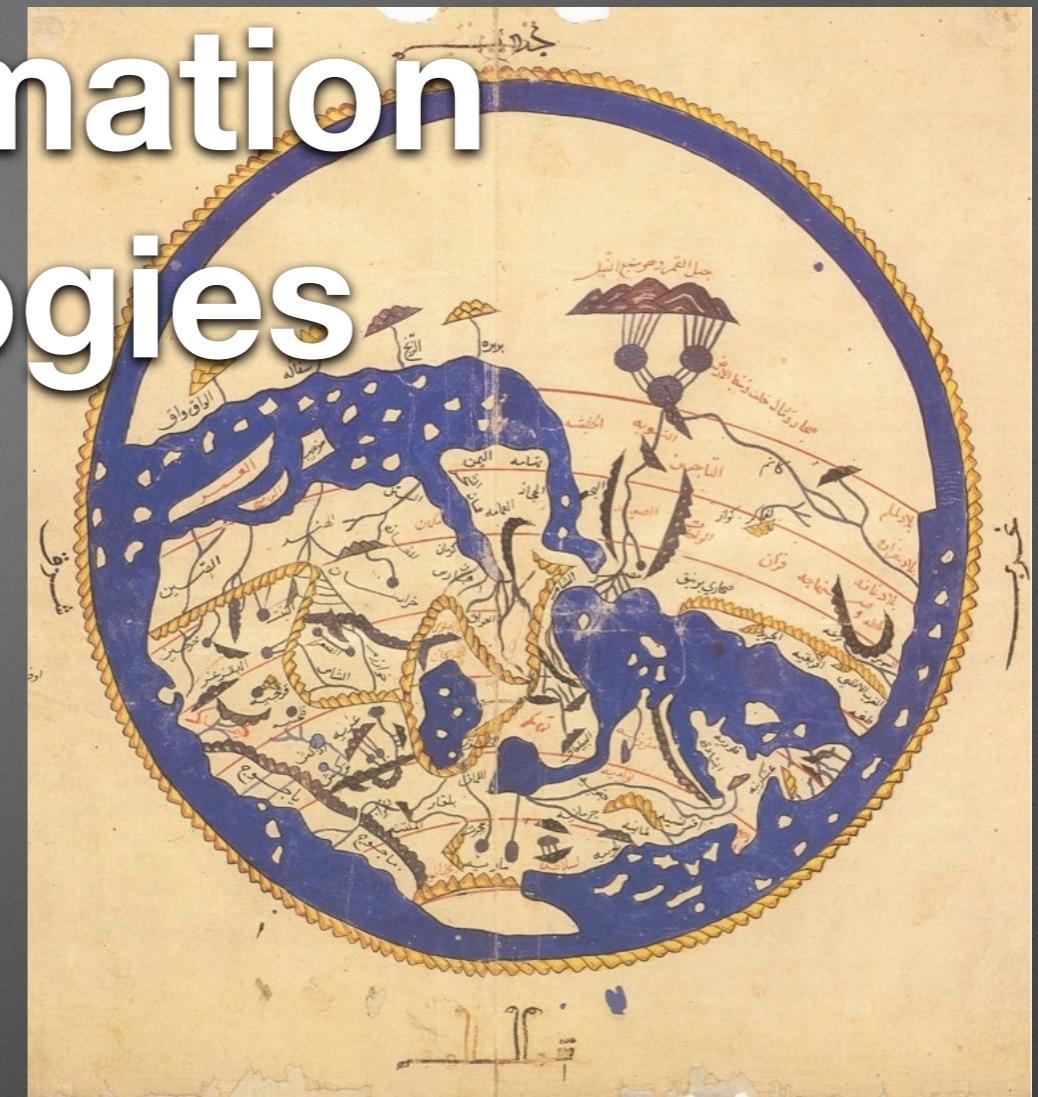
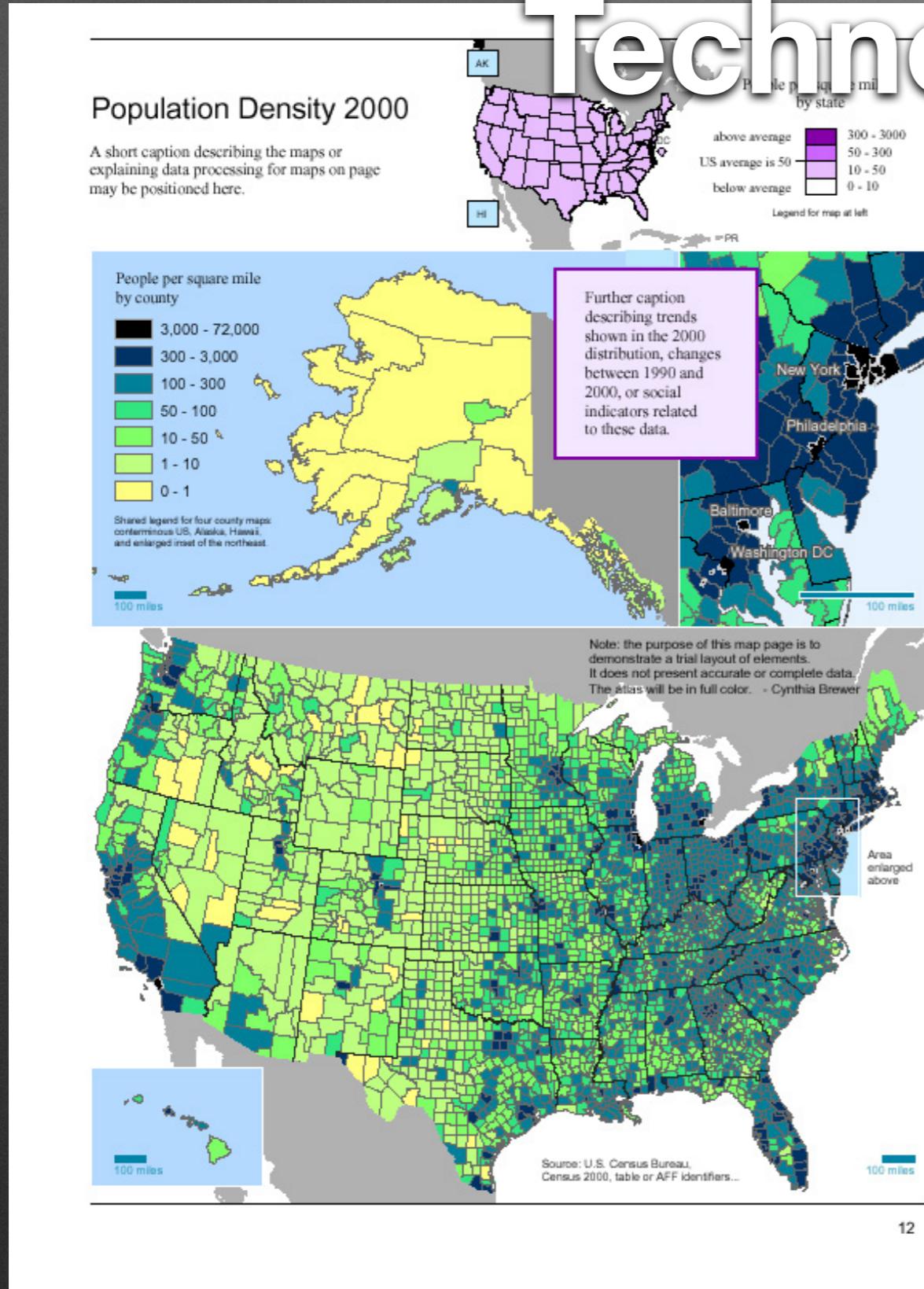
Geo-information Technologies

- Geo = The earth
(geography, geology)



Information = data with context

Geo-information Technologies



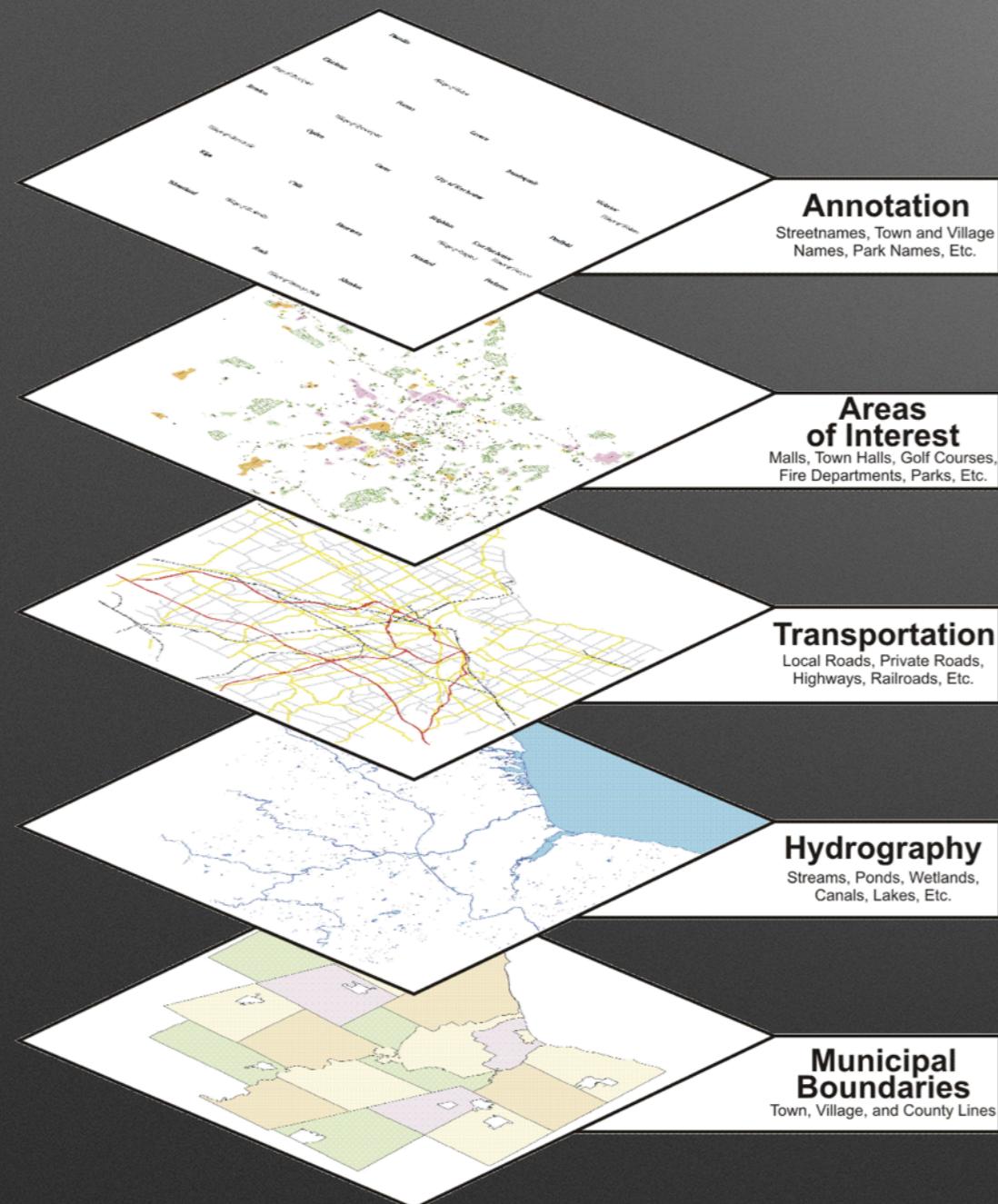
http://upload.wikimedia.org/wikipedia/commons/d/db/Al-Idrisi%27s_world_map.JPG



Geospatial Technologies

Maps have been used for centuries
Fundamental purpose of modeling the Earth
Decision making, spatial reasoning
Computing age
New technologies that represent G.I.
New issues

Geographic Information System

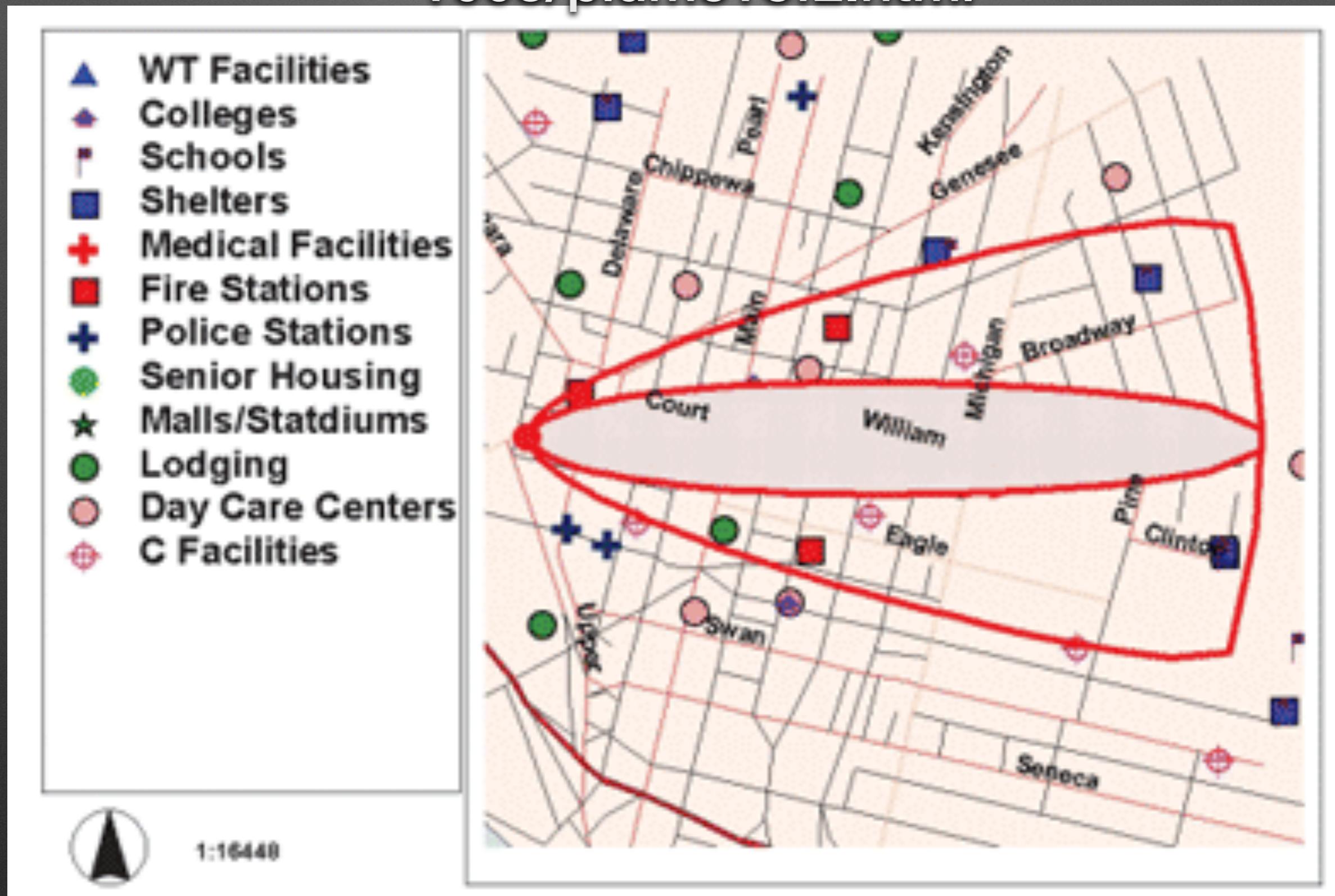


GIS
Combines layers of information
(data) to have better
understanding of a location

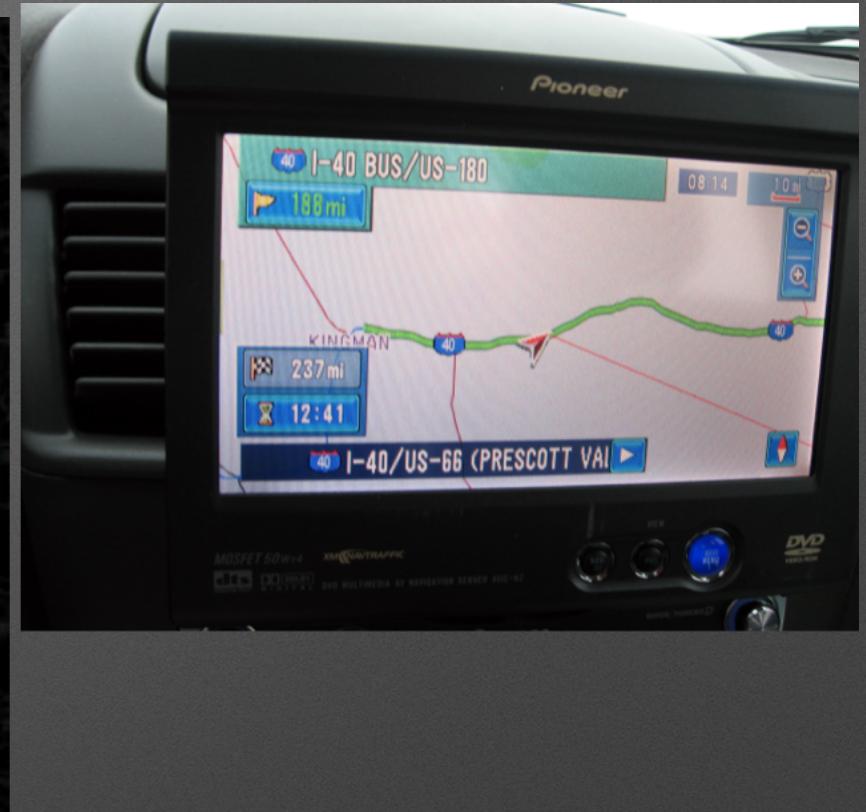
Requirements:
Hardware
Software
Data
People
Training

Plume Impact

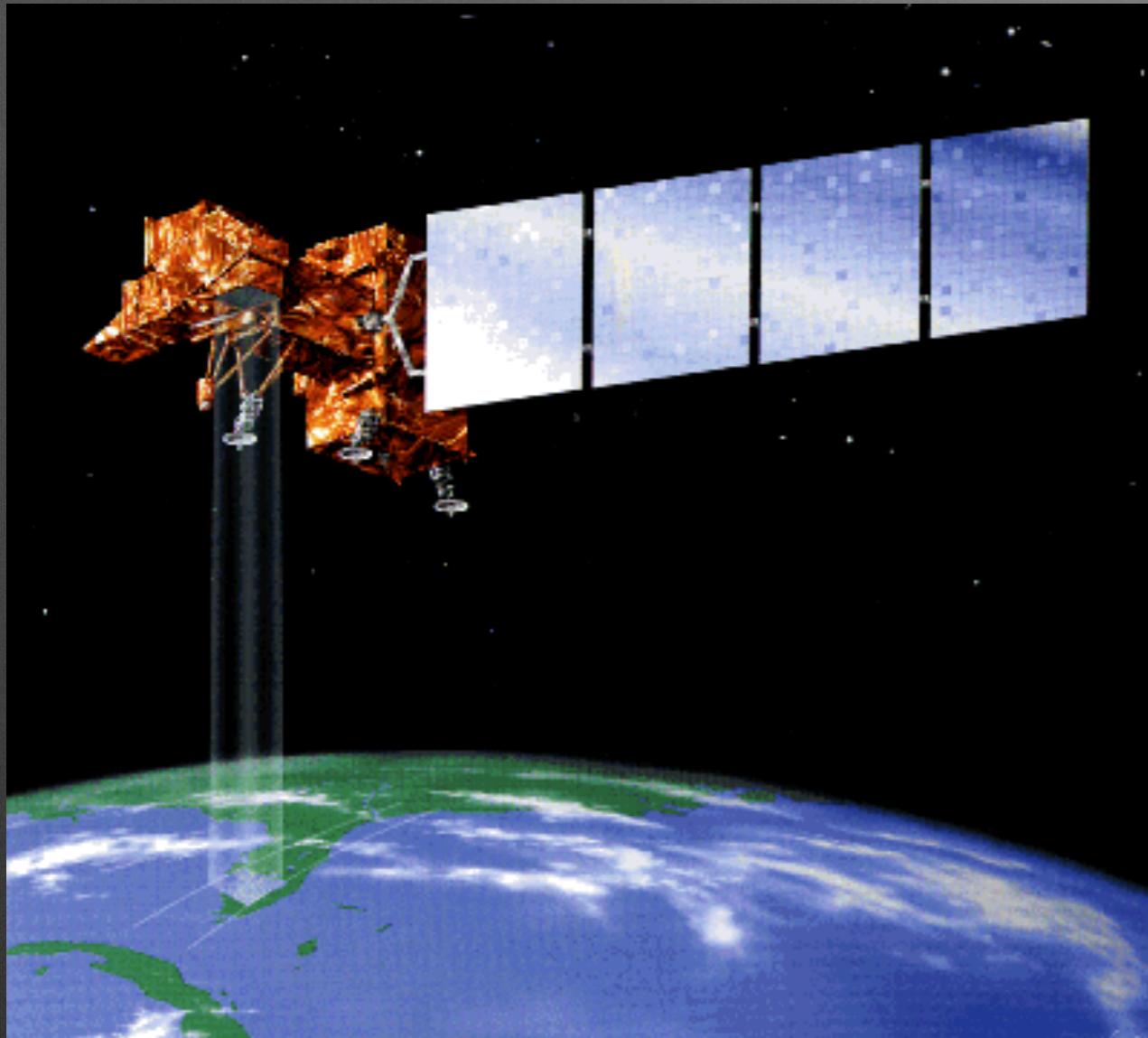
[http://www.esri.com/news/arcuser/
1003/plume1of2.html](http://www.esri.com/news/arcuser/1003/plume1of2.html)

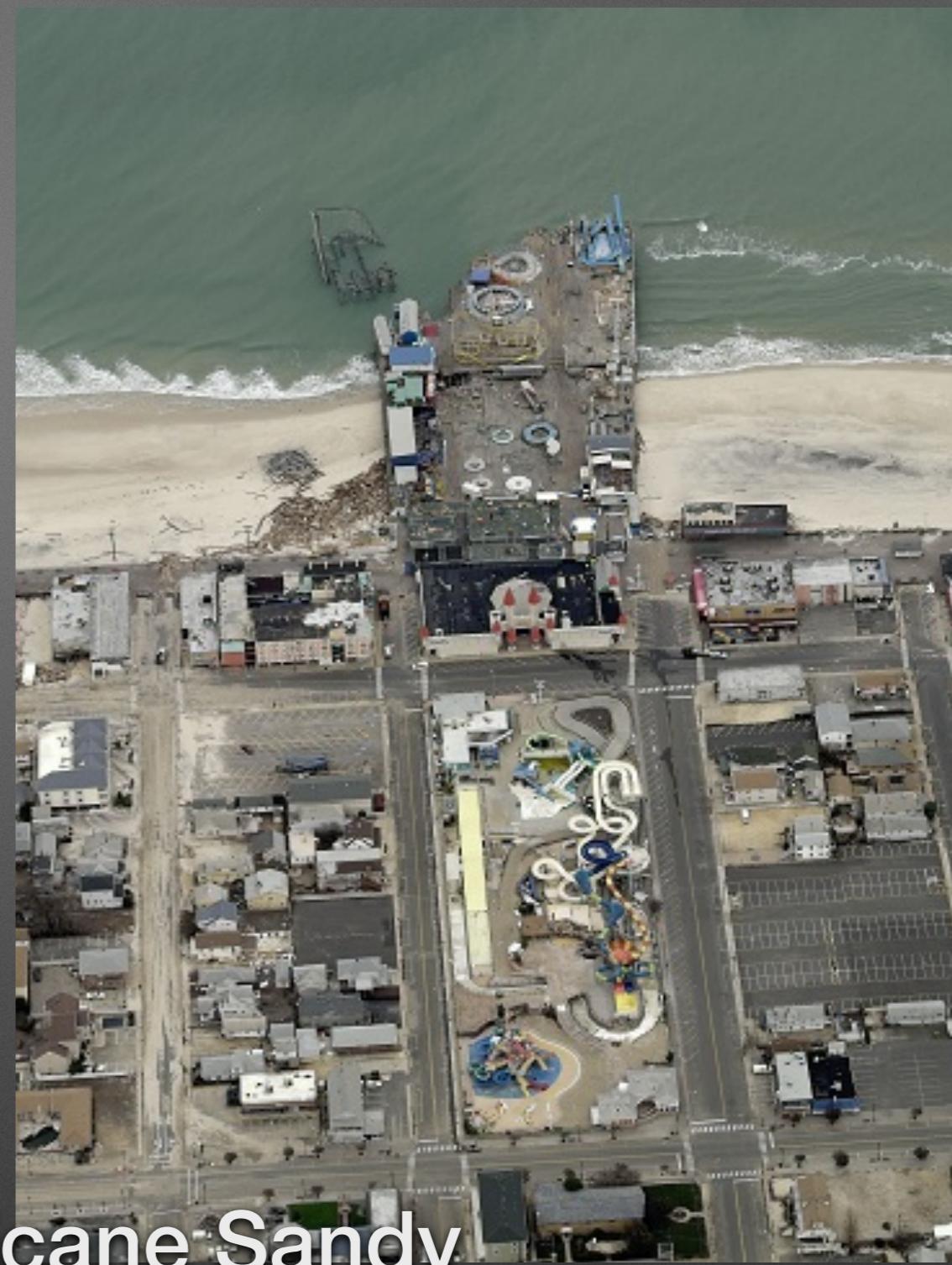


Global Positioning System (GPS)



Remote Sensing





Pre and Post Hurricane Sandy Pictometry Imagery of Seaside Heights, NJ Boardwalk

<http://www.fastcoexist.com/1680903/the-amazing-aerial-photos-of-sandys-destruction-that-are-helping-rebuild-the-region#1>



Beirut, Lebanon, Explosion - Before/After

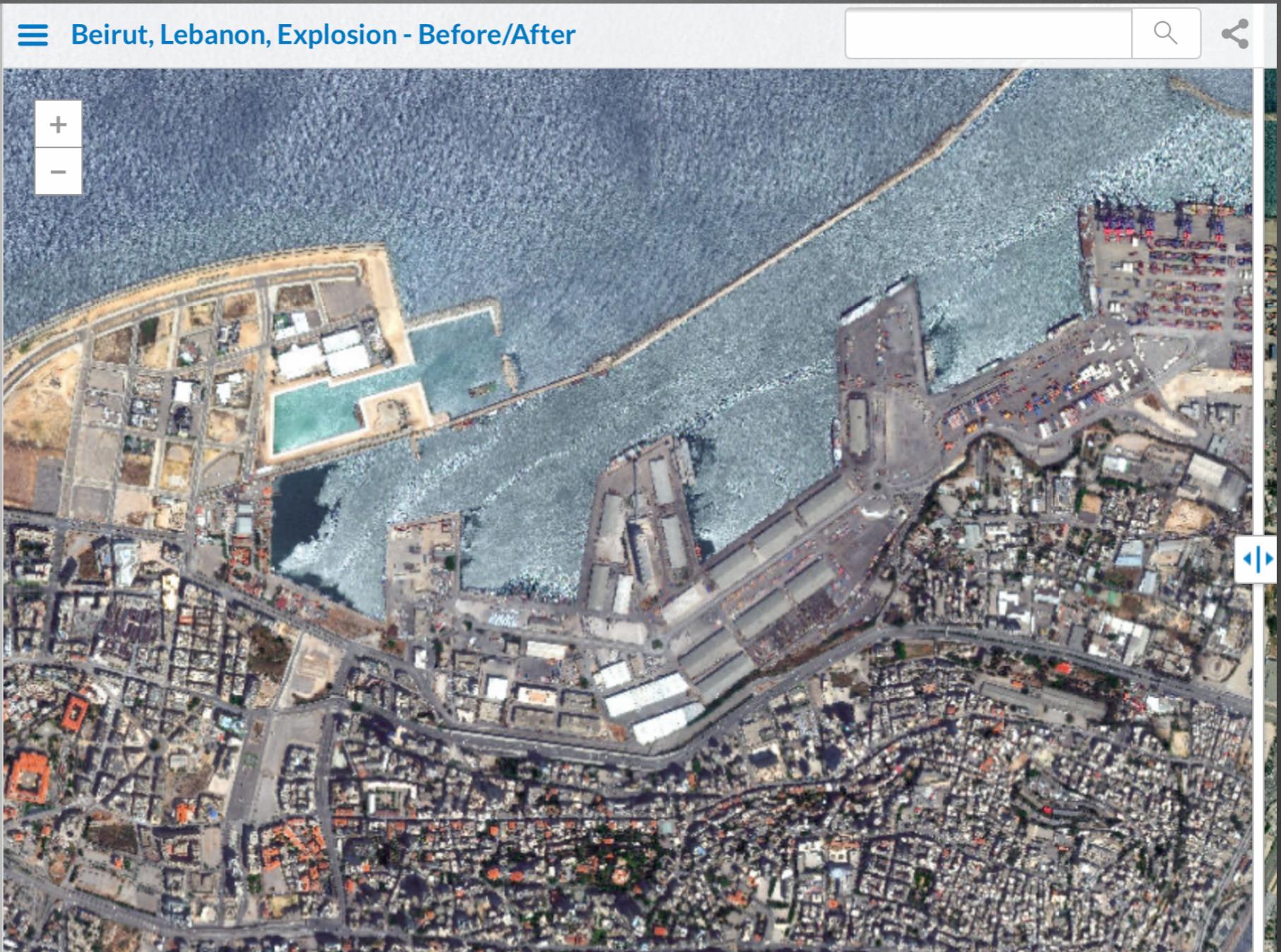
On August 4, 2020, a major explosion devastated the city of Beirut, Lebanon.

This map includes imagery captured several days before, on July, 31 2020 (left), and the day after, on August 5, 2020 (right).

Imagery provided by [Maxar Technologies](#) is a critical component in Esri's support of disaster response. For more information, visit Esri's [Disaster Response Program](#).

Satellite images © 2020 Maxar Technologies

Last modified 8/6/20, 2:39 PM



[https://esri.maps.arcgis.com/apps/PublicInformation/index.html?
appid=365bc49221cc4969afd773715abb6bdb](https://esri.maps.arcgis.com/apps/PublicInformation/index.html?appid=365bc49221cc4969afd773715abb6bdb)

21st Century Developments with Geospatial Technologies

- More maps created and used by non-specialists
- More applications emphasizing place/location (Google etc)
- Ubiquitous Mapping

Ubiquitous Mapping

- “the use and creation of maps by users anywhere and at anytime” – Morita (2005)
- Mapping “everywhere”
- Integrated more into daily life cell phones, PDAs etc



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Pure Google.TM

The newest Sprint 4G smartphone: Next generation Nexus STM 4G from Google.

A central black Nexus S smartphone is shown against a white background. A network of light gray lines connects various features of the phone to callout boxes. The callout boxes include:

- New! Gingerbread
- Google Voice™
- Hummingbird
- Dual cameras
- Image gallery
- Sprint 4G
- Latest Google apps
- Near field communication

On the right side of the phone, there is a large callout box labeled "nexus S_{4G}" which contains the text "Lean, mean Android™ machine." and "Latest Google apps". Below this box are three video thumbnail links: "Voice Actions", "Google Maps", and "Google Earth", each with a "Watch video" button.

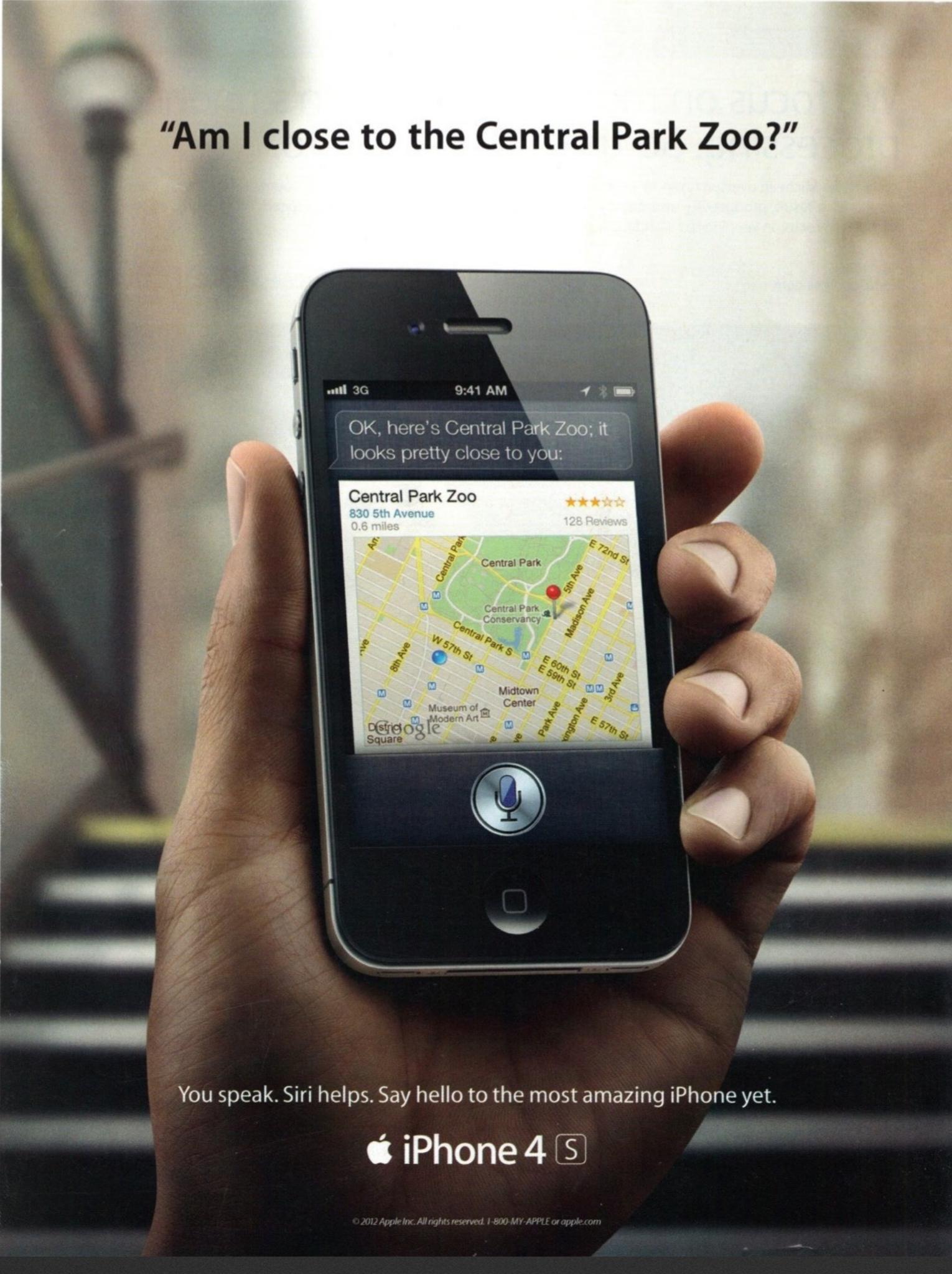
Lean, mean Android™ machine.



Comes pre-loaded with the best Google apps:
Google Search™, Google Maps™ with Navigation
(Beta), Voice Actions, Gmail™, Google Earth™ and
access to over 150,000 apps in Android Market™.



"Am I close to the Central Park Zoo?"



You speak. Siri helps. Say hello to the most amazing iPhone yet.

iPhone 4 S

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FOURSQUARE I'm looking for... Rochester Log In Sign Up

Introducing the all-new Foursquare, which learns what you like and recommends places you'll love. Get it now!

What's happening in Rochester? Let's explore nearby:

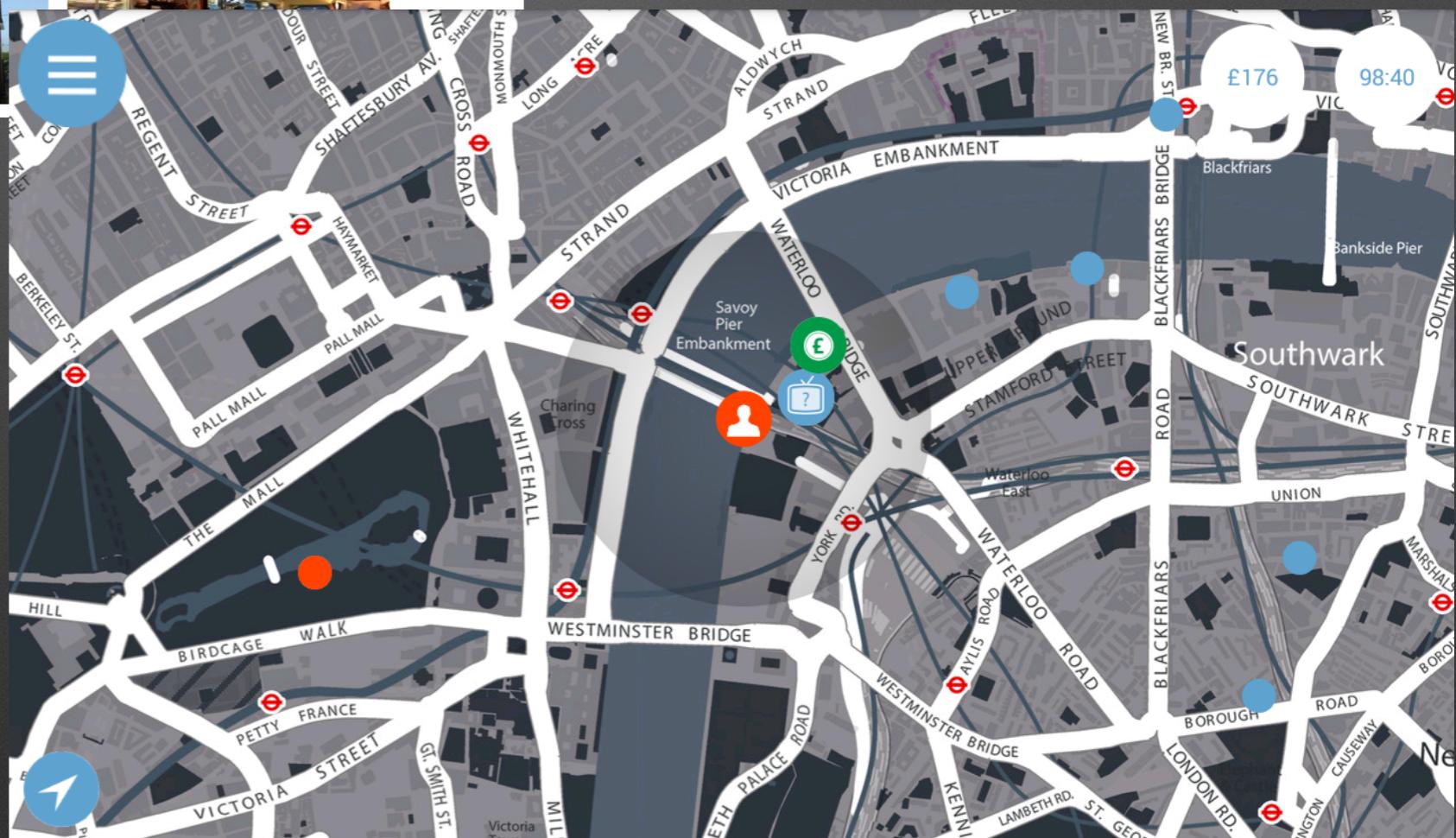
"Cool retro diner. Must stop for visit to Rochester"
Ivy Pan @ Highland Park Diner

Pizza American Café Bar Tea Room Coffee Shop Beer Garden

Foursquare helps you find the perfect places in Rochester to go with friends:

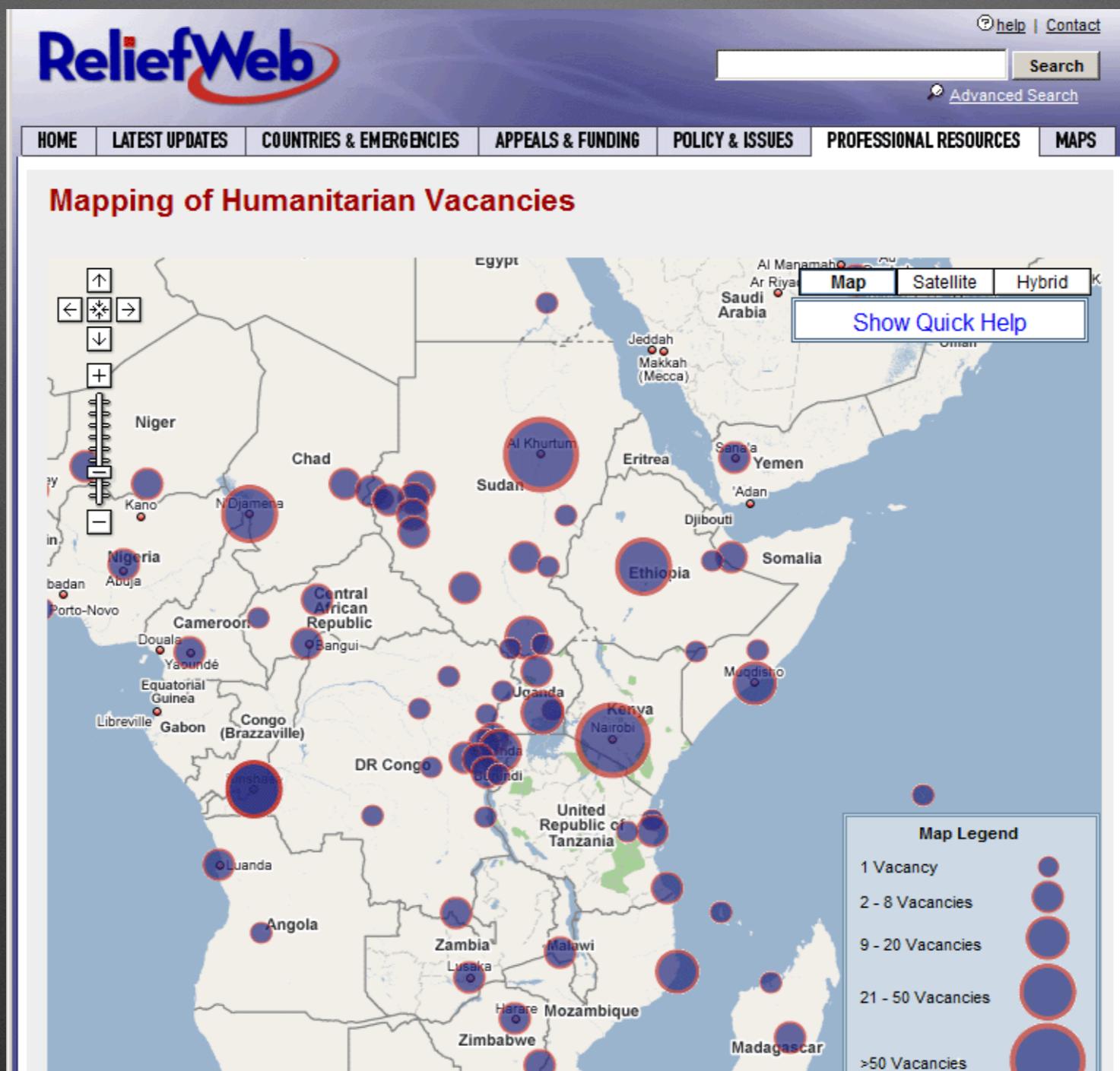


<http://foursquare.com/>



Sherlock - The Network

Mapping Mashups

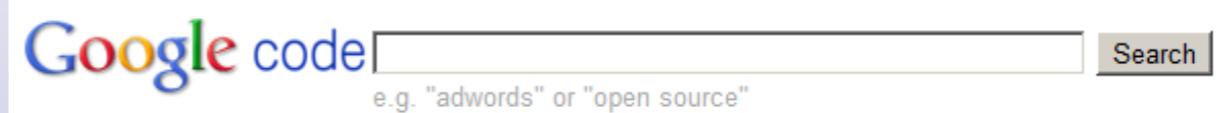
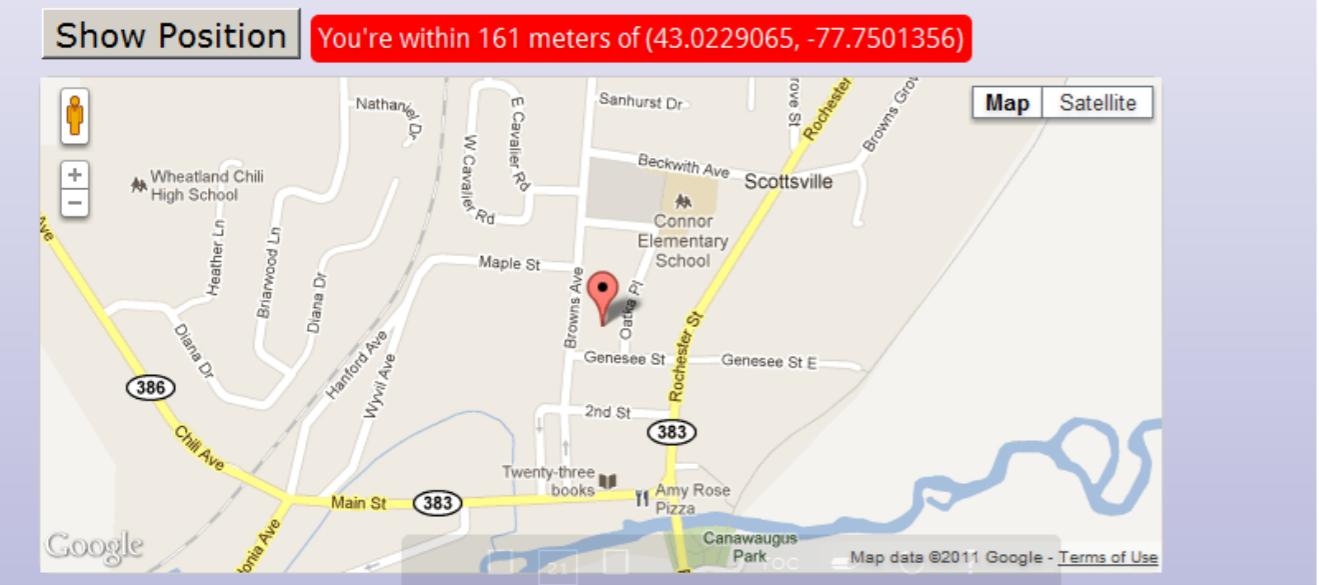


Tomaszewski, B. (2009). Managing Multiple Point-based Data Instances on a Single Coordinate in Mapping Mashups. Paper presented at the Proceedings of the 24th International Cartography Conference (ICC), Santiago, Chile.

Mapping Mashups – HTML 5/Mobile

JS Geolocation

```
if (navigator.geolocation) {  
    navigator.geolocation.getCurrentPosition(function(position) {  
        var latLng = new google.maps.LatLng(  
            position.coords.latitude, position.coords.longitude);  
        var marker = new google.maps.Marker({position: latLng, map: map});  
        map.setCenter(latLng);  
    }, errorHandler);  
}
```



★ Google Maps JavaScript API V3

V3: The Solution for Maps Applications for both the Desktop and Mobile Devices

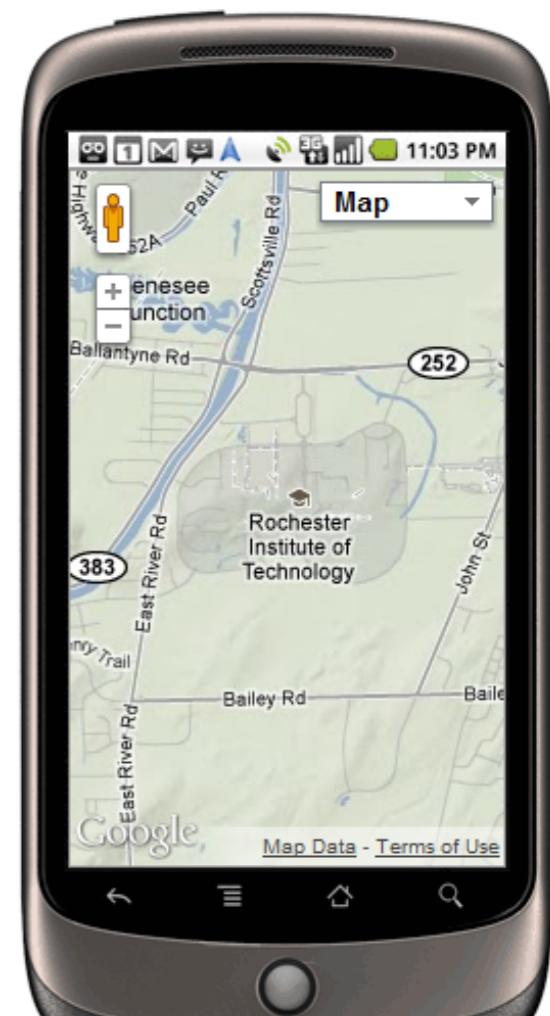
Note: The Google Maps Javascript API Version 3 documented within these pages is now the official Javascript API. Version 2 of this API has been officially deprecated as per our deprecation policy. We encourage you to migrate your code to this newly updated and enhanced version!

The Google Maps Javascript API lets you embed Google Maps in your own web pages. Version 3 of this API is especially designed to be faster and more applicable to mobile devices, as well as traditional desktop browser applications.

The API provides a number of utilities for manipulating maps (just like on the <http://maps.google.com> web page) and adding content to the map through a variety of services, allowing you to create robust maps applications on your website.

The JavaScript Maps API V3 is a free service, available for any web site that is free to consumers. Please see the [terms of use](#) for more information.

New! Search for and display detailed Places information on your map, including addresses



[Login](#)

English (US)



Unemployment in the USA

Crowdmap instance to teach Rochester Institute of Technology (RIT) students about crowd sourcing and mapping via an unemployment study.

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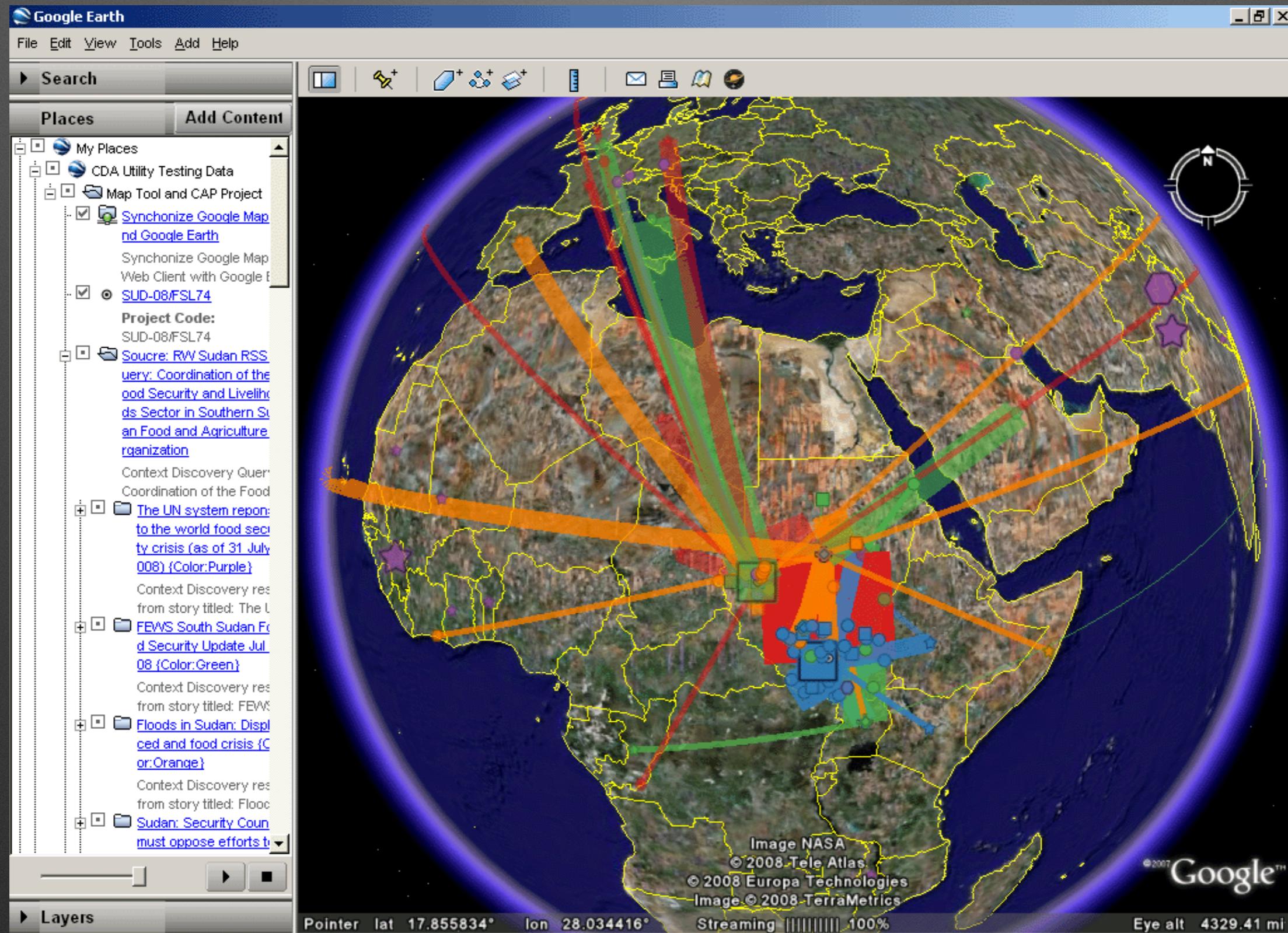
↳ CATEGORY FILTER [HIDE]

- █ ALL CATEGORIES
- █ NEGATIVE BUSINESS ACTIVITY
- █ POSITIVE BUSINESS ACTIVITY
- █ INDIVIDUAL STORY
- █ ANALYSIS AND STATISTICS

How to Report

1. By filling this form

Virtual Globes - Google Earth



B. Tomaszewski, "Situation Awareness and Virtual Globes: Applications for Disaster Management,"
Computers and Geosciences, vol. 37, pp. 86-92, 2011.

wikimapia Edit map Map type Categories Login EN search

Add place

Nurabad

Al-Farwaniya Governorate

as-Saqiyah / al-Jubayl , 91 km from center (الجبل)

Farsi Island

Coordinates: 27°59'12"N 50°10'32"E

Wikipedia article: http://en.wikipedia.org/wiki/Farsi_Island

This article is protected.

Category: [island](#)

[Permalink to this place](#)

Reminder: 05 sec to click

[DOWNLOAD](#)

place comments:

Nick (guest) wrote 6 months ago
This island belongs to Iran not Saudi Arabia so please change the direction above this page.

خليجي (guest) wrote 5 months ago
كل زق بالبرانى

28.6905877N 50.9490967E
POWERED BY Google Maps
Waiting for router.tvmmedia.com...

Lake Tashk

Darab

Lar

© WikiMapia.org - [Terms of Use](#)

place comments:

Nick (guest) wrote 6 months ago -1
This island belongs to Iran not Saudi Arabia so please change the direction above this page.

خليجي (guest) wrote 5 months ago 0
كل زق بالبرانى

Social Implications

- Interaction with/understanding of people and places
- Privacy
- Accuracy
- Re-enforcing existing social orders
- Other?

<< [Antitrust Lawsuit Wants To Force Apple To Add WMA Support To iPods](#) | [National Motorists Association Challenges Cities To Prove Red-Light Cameras Are Safer](#) >>

**Stupidity**by **Mike Masnick**

Fri, Jan 4th 2008 7:23pm

Share This 

Filed Under:
driving directions, gps, trains

Permalink.

Driver Blames GPS For Driving On Railroad Tracks, Getting Hit By Train

from the **common-sense? dept**

What is it about turning on a GPS system that makes people lose just about any bit of common sense they may have had? Last year, we wrote about a woman who **blamed her GPS device** for getting her into a train accident. You see, the GPS device told her to go straight, even though there was a gate blocking the train tracks. Now we've got a similar case. As pointed out by the folks over at **the Tech Liberation Front**, a California man who was in New York for work, and driving a rental car, apparently **turned onto the railroad tracks for the MetroNorth line** because his GPS told him to turn. To his credit, the guy eventually realized that maybe the tracks weren't where he was supposed to turn, but he was unable to get his rental Ford Focus to reverse back down the tracks. At that point he "abandoned" the car, leaving it for the next train to hit. At least the MetroNorth spokesperson seems to have a sense of humor about the whole thing. When talking about how the guy tried to warn the oncoming train, he deadpanned: "He tried to stop the train by waving his arms, which apparently was not totally effective in slowing the train." Not totally effective indeed. When noting that the driver worked in the computer field, the spokesman also noted: "One computer brain listening to another." Time to reprogram some of the logic, however.

NATIONAL GEOGRAPHIC NEWS

REPORTING YOUR WORLD DAILY

Saturday, February 21, 2009

MAIN ANIMAL NEWS ANCIENT WORLD ENVIRONMENT NEWS CULTURES NEWS SPACE/TECH NEWS WEIRD

PHOTOS VIDEO

Terrorist Use of Google Earth Raises Security Fears

Kelly Hearn
for National Geographic News

March 12, 2007

Part of the Digital Places Special News Series

[More Digital Places Stories>>](#)

Detailed Google Earth images of British military bases were found in the homes of Iraqi insurgents, a London newspaper reported in January.



[Enlarge Photo](#)

[Printer Friendly](#)

[Email to a Friend](#)

A British army official told the *Daily Telegraph* that the confiscated images showed Land Rovers, buildings, tents, and bathroom facilities inside the military compound in Basra, Iraq.

British officials reportedly complained to California-based Google, and the software firm replaced the images with pre-war data on its downloadable globe.

While the extent of insurgents' use of Google Earth is unknown, the news underscored what some experts see as a growing conflict



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[TB's Jump From Humans to Mongooses Studied](#)



LATEST VIDEO NEWS

[Mastiffs Enlisted to Save Cows](#)

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LATEST PHOTOS IN THE NEWS

Open Street Map

Which one is
accurate?



Google Maps





Got an iPhone or 3G iPad? Apple is recording your moves

A hidden file in iOS 4 is regularly recording the position of devices.

[Print](#) 
[Listen](#) 

by [Alasdair Allan](#) | [@aallan](#) | [+Alasdair Allan](#) | Comments: 247 | 20 April 2011



5,199



9

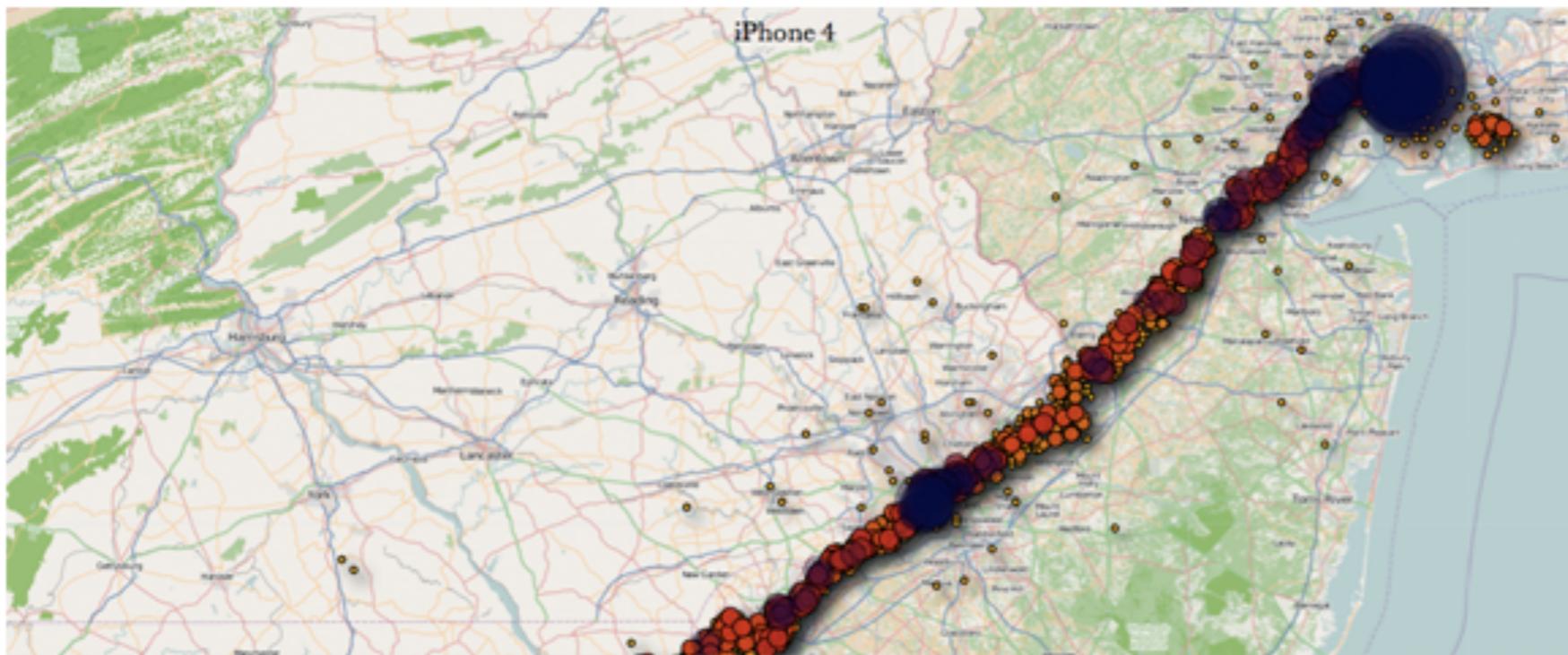


12k

Update, 4/27/11 — Apple has posted [a response](#) to questions raised in this report and others.

By [Alasdair Allan](#) and [Pete Warden](#)

Today at [Where 2.0](#) Pete Warden and I will announce the discovery that your iPhone, and your 3G iPad, is regularly recording the position of your device into a hidden file. Ever since [iOS 4 arrived](#), your device has been storing a long list of locations and time stamps. We're not sure why Apple is gathering this data, but it's clearly intentional, as the database is being restored across backups, and even device migrations.



<http://radar.oreilly.com/2011/04/apple-location-tracking.html>

Spatial Thinking



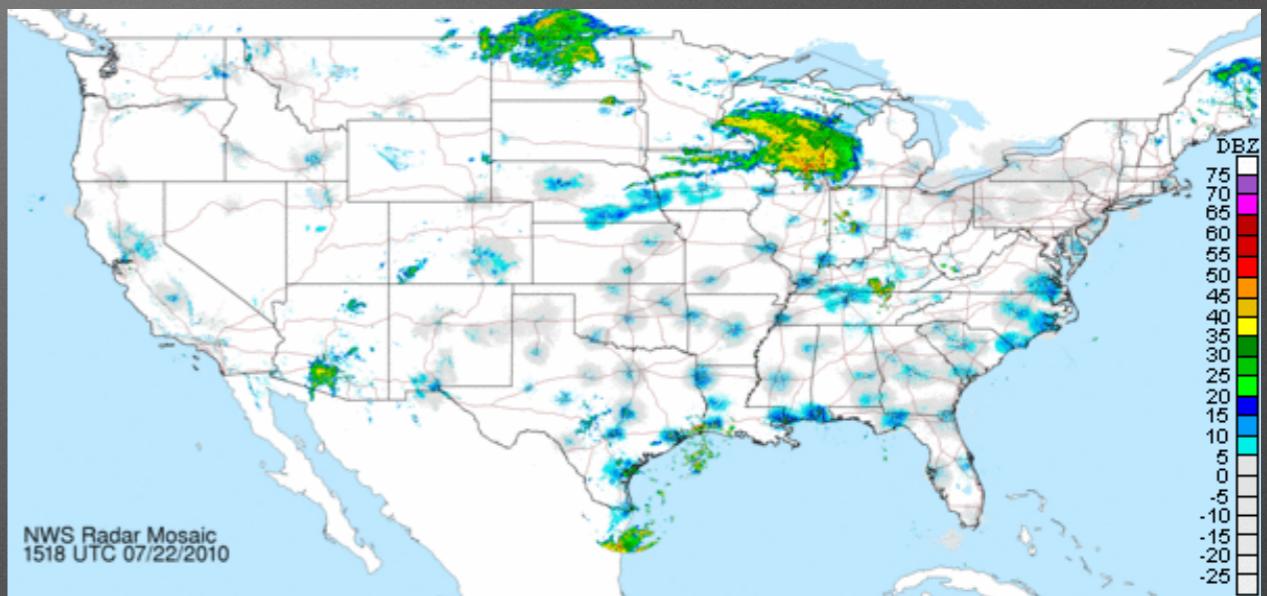


We learn spatial thinking starting at a young age..

A Lot of Exposure to Geospatial Information *Every Day*



© 2009 CBS Entertainment found on
<http://www.nycgameindustry.com/ncis-features-forterra-systems-technology/>



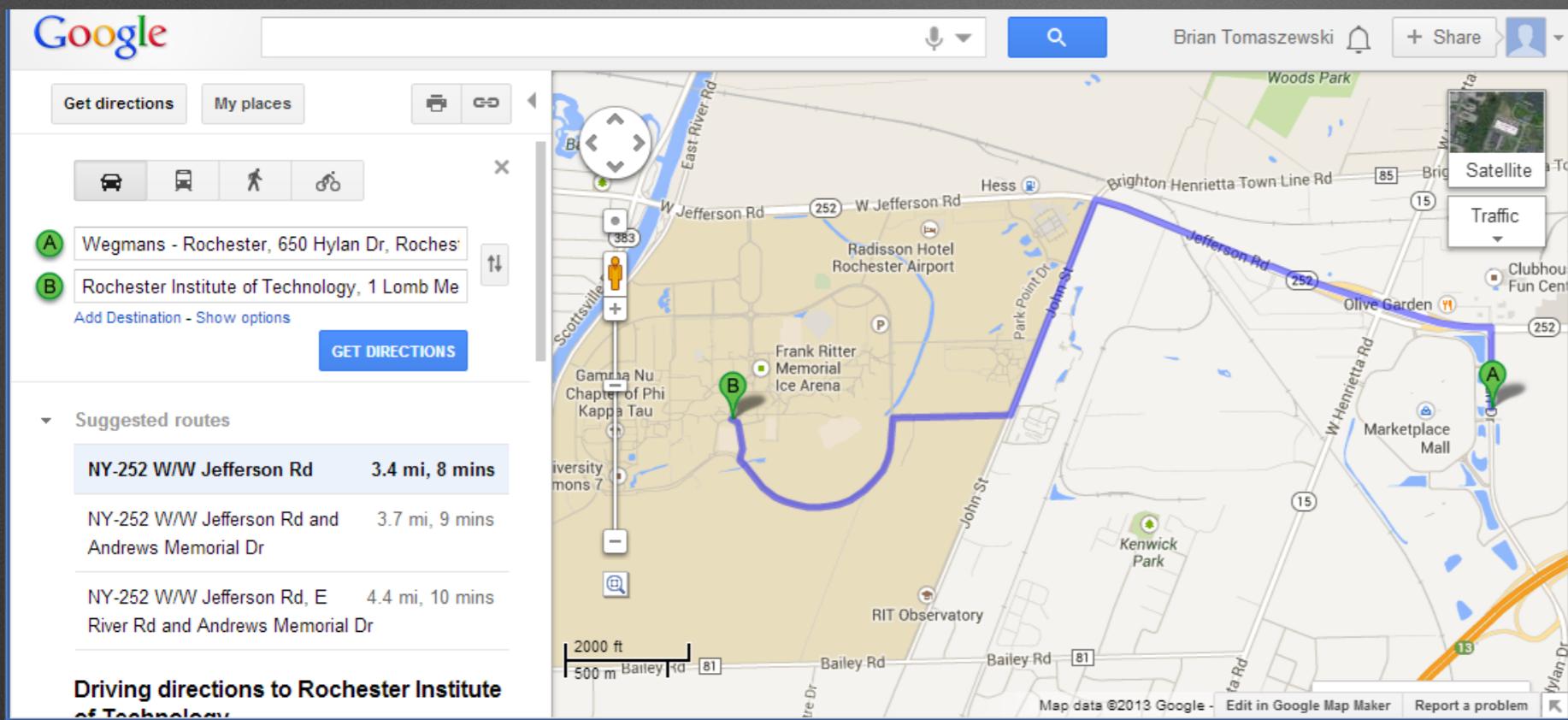
What is Spatial Thinking?

Elements of Spatial Thinking:

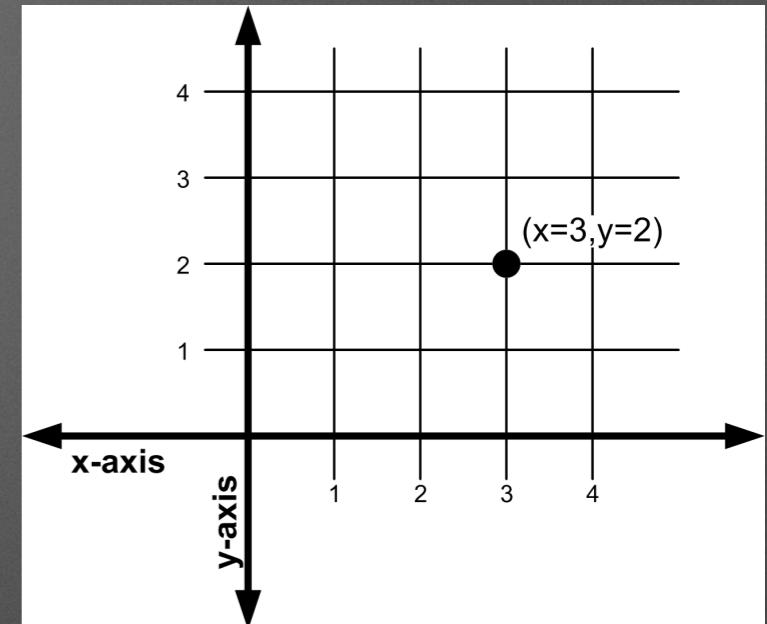
1. concepts of space
2. tools of representation
3. processes of reasoning

National Research Council 2006. The Nature of Spatial Thinking. Learning to Think Spatially: GIS as a Support System in the K-12 curriculum. Washington, DC: The National Academies Press.

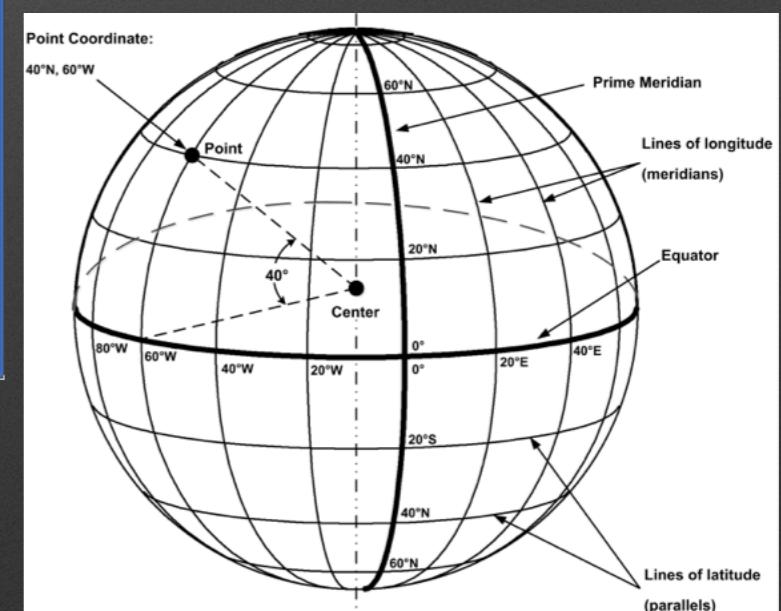
- 1. Concepts/Knowing about space: Calculating Distance (miles vs. time vs. travel cost, Cartesian vs. spherical)



<http://goo.gl/maps/T0rcZ>

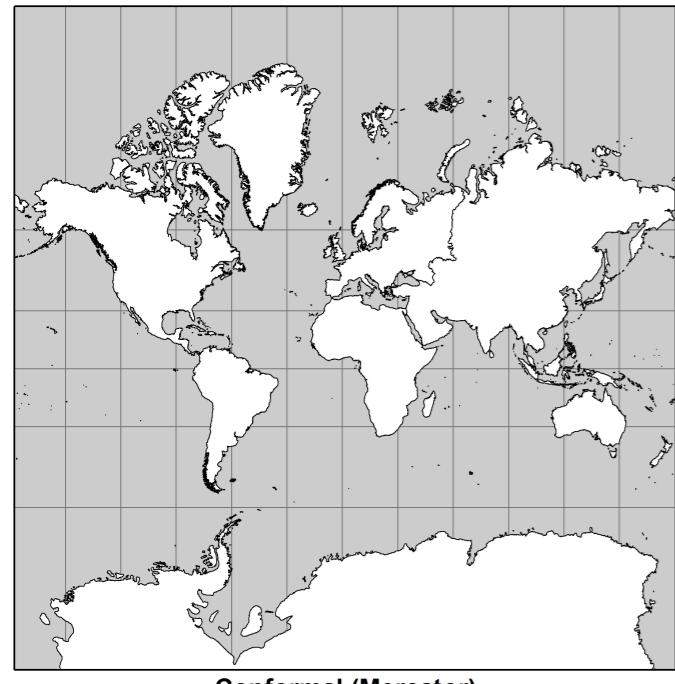


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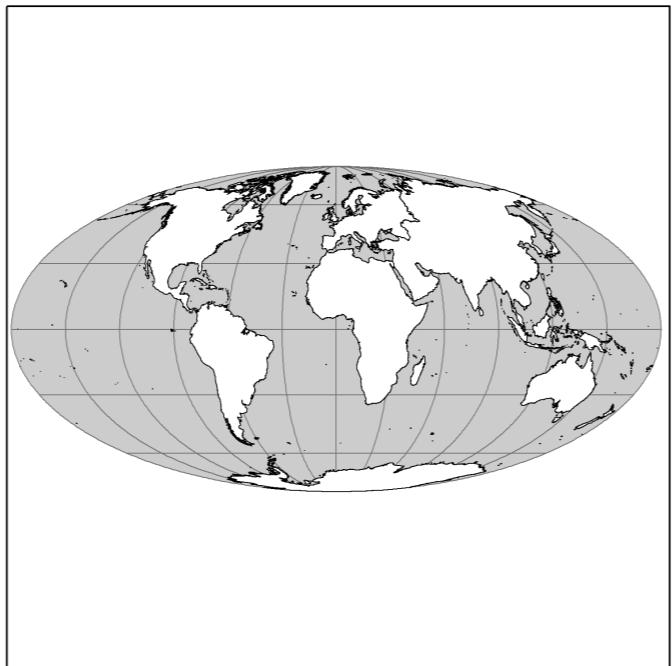


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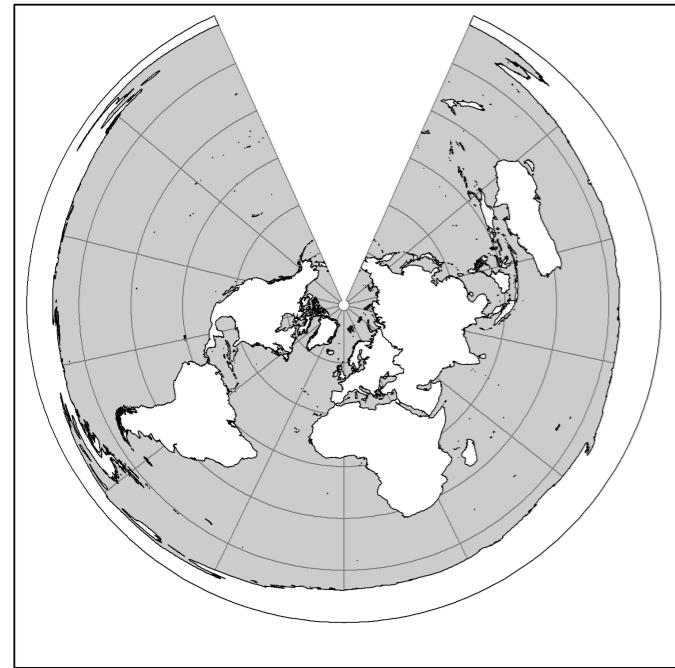
- 2. Representations – map projection effects/figure ground



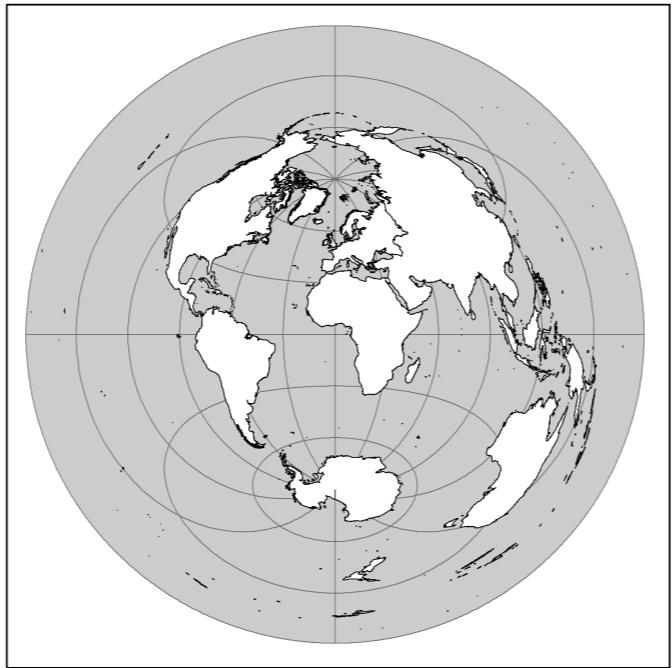
Conformal (Mercator)



Equal Area (Mollweide)

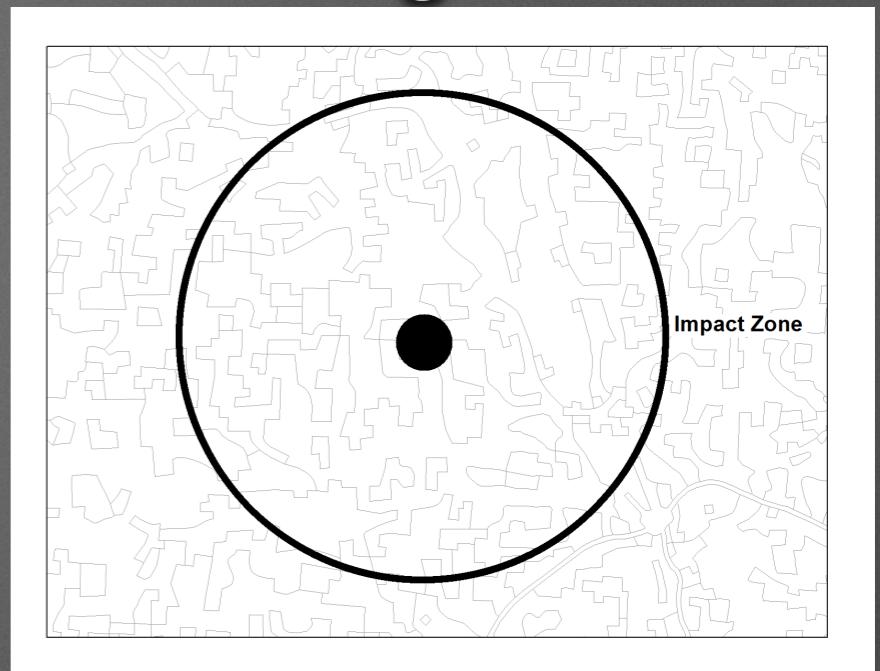


Equidistant (Equidistant Conic)

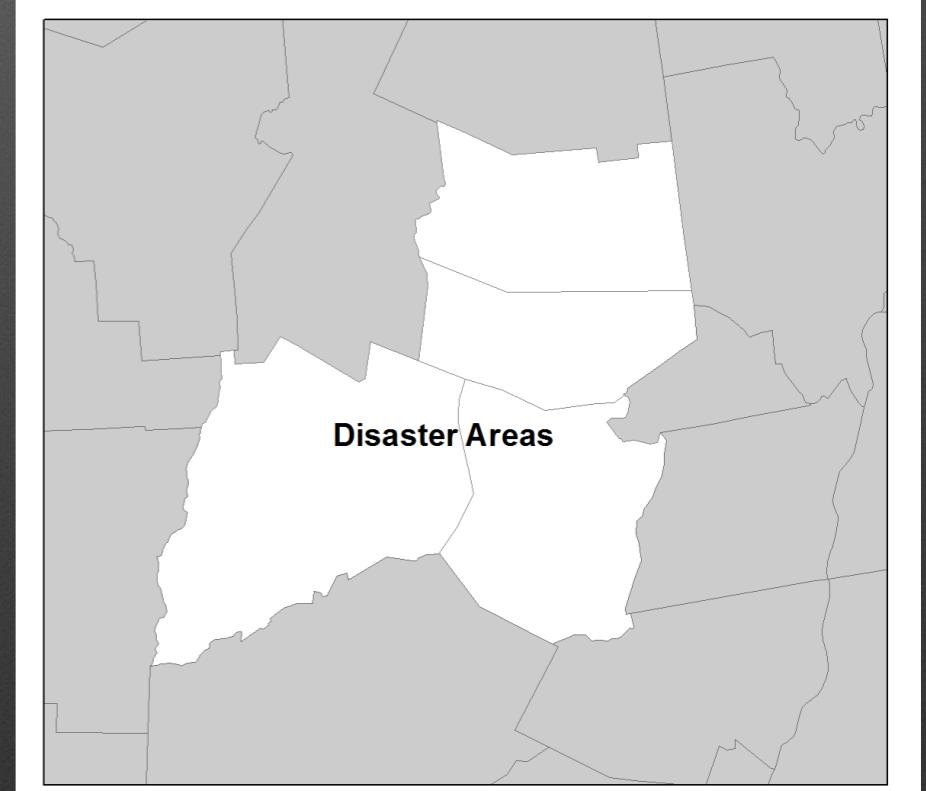


Azimuthal (Azimuthal Equidistant)

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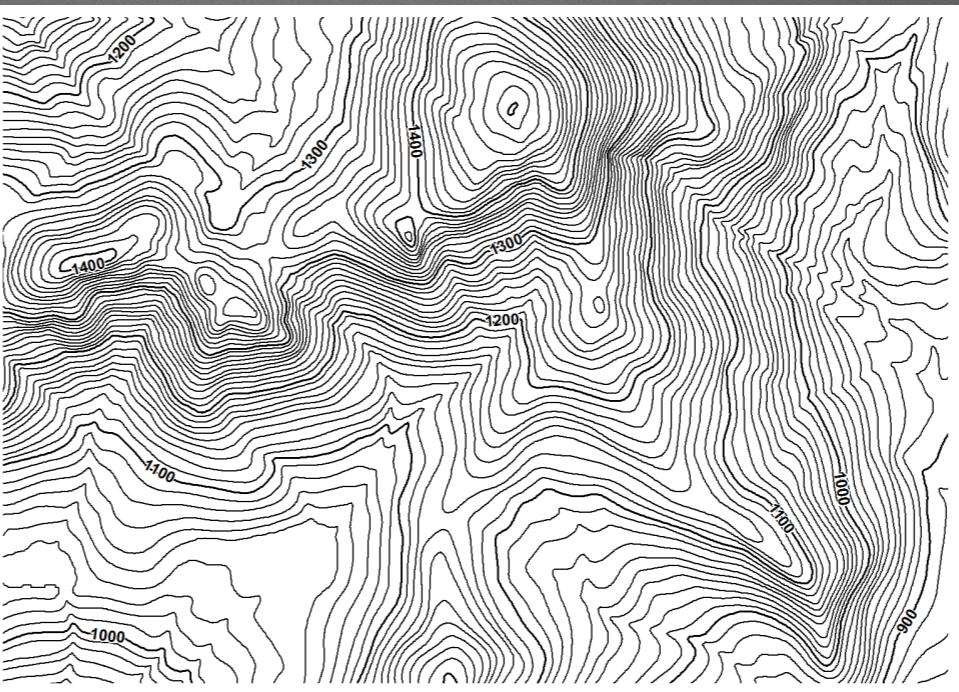


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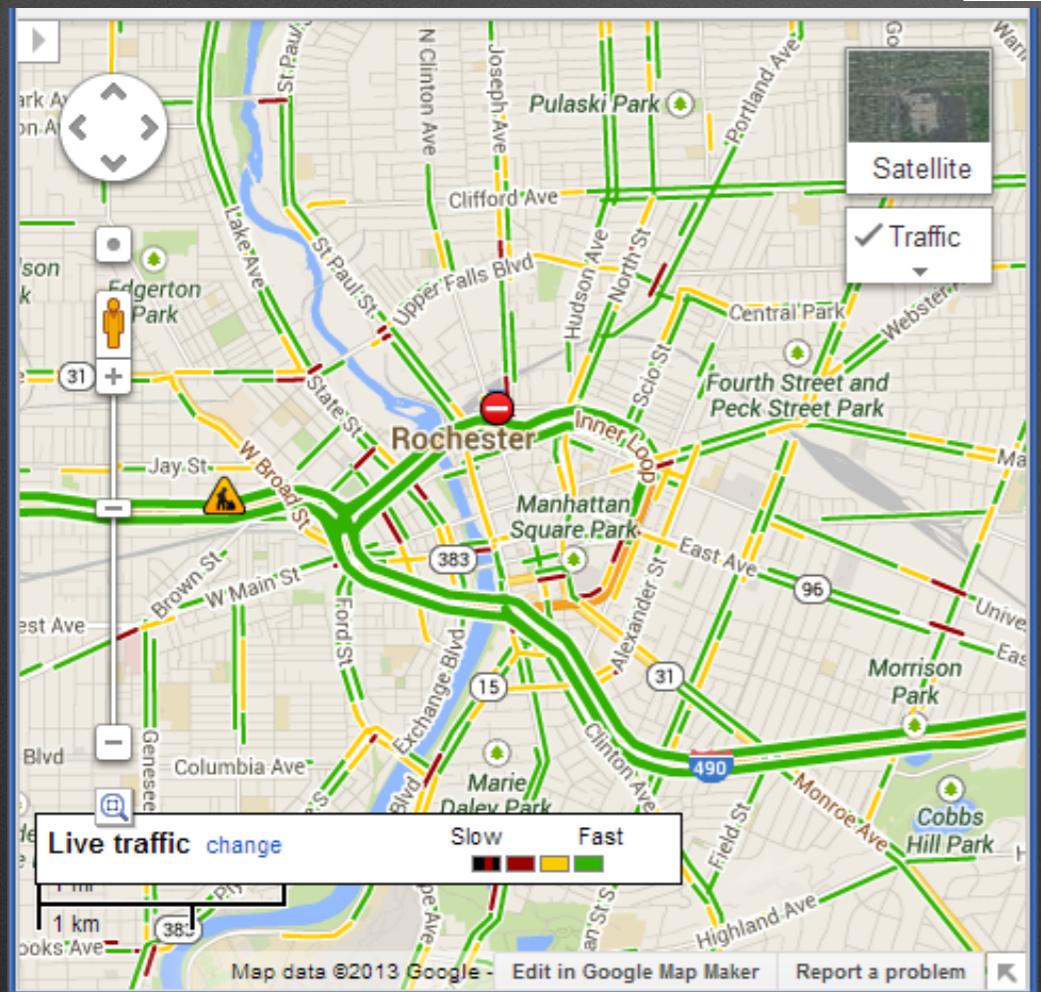


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- 3. Reasoning – spatial decisions



What is the slope?



How do I avoid traffic?

Sense of Place

- What is Sense of Place?
- “A faculty that connects us to the world” – Relph 2001:208
- “A well developed sense of place looks carefully at local idiosyncrasies, keeps an open mind about them, and sees through them to larger processes, patterns they signify” – Relph 2001:212
- “The village is in the same location I grew up, but really is a different place” – Relph 2001:215

Placelessness



Which one is Rochester?

- Modernism – Looking to the future, standardization, ignoring the past
- Everything starts looking the same!



Postmodernity

- “places can look like anywhere developers/designers want them to, usually a function of market research, what attracts consumers, what sells..” - Relph
2001:220

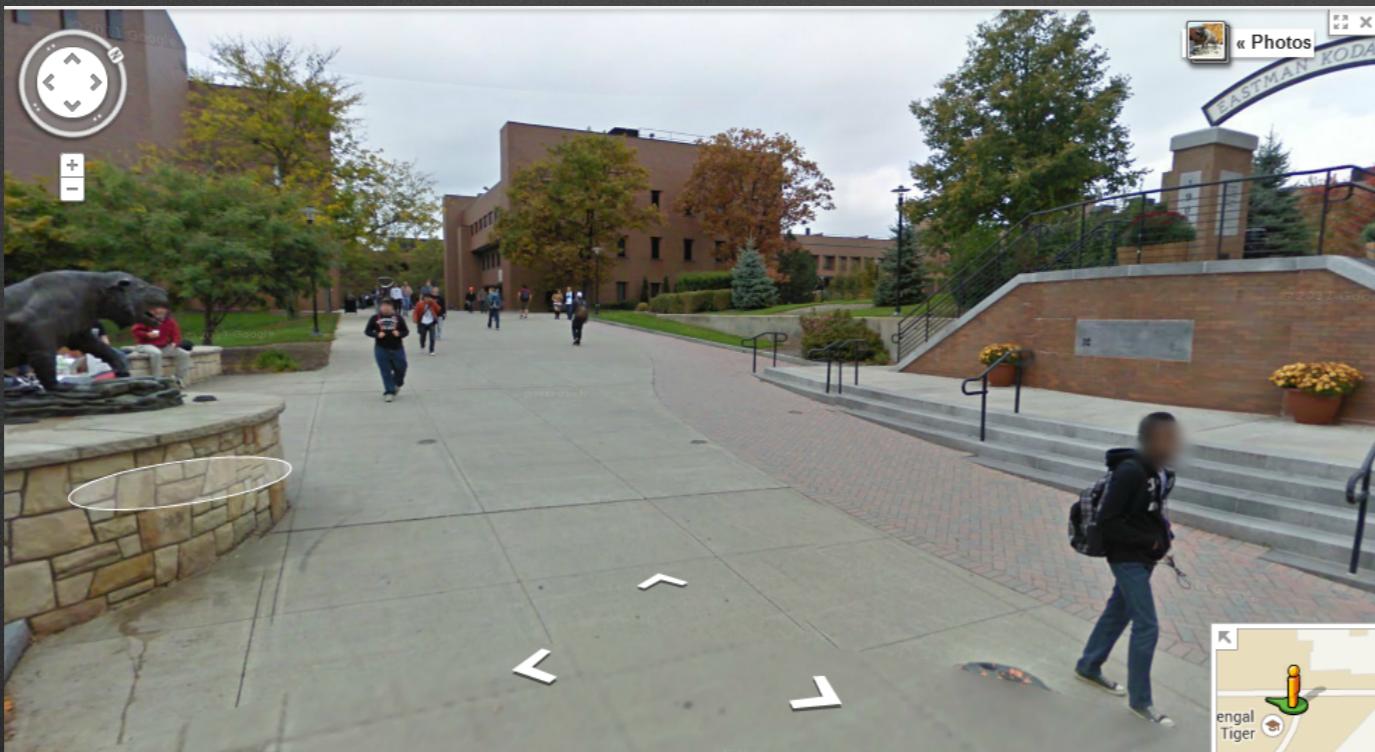


<http://esthersteinfeld.files.wordpress.com/2010/05/las-vegas-luxor.jpg>



http://upload.wikimedia.org/wikipedia/commons/1/16/Las_Vegas_NY_NY_Hotel.jpg

- “It is important to know what belongs, what has been imported and what has been invented in a place” – Relph 2001:221
- Pierce Lewis – human-made landscapes valuable clues to culture – investments in time, effort, and money



What does the
RIT campus say
about RIT
culture?

Activity GeoGuesser

<https://geoguessr.com>

Assignment: After playing around with GeoGuesser write a short writeup on how a sense of place helped you in finding locations in the game.

Assignment

- Reading for next week's class:
 - Video (1): Geospatial revolution video (13:45) <http://geospatialrevolution.psu.edu/episode1/complete>
 - Video (2): Geography lecture video (10:12) <http://youtu.be/9mTmXhsKEK8>
 - Video (3): Spatial Thinking lecture video (7:54) <http://youtu.be/zOvpNest3Qs>
 - Video (4): Sense of Place lecture video (7:30) <http://youtu.be/mnp4glOTeU>
 - The ArcGIS Book Chapter 1 <https://learn.arcgis.com/en/arcgis-book/>
 - Relph_2001_Sense_of_Place
 - Kimerling_2009
 - <http://bit.ly/YGnpdF>