GIS Day

Geography Matters™!

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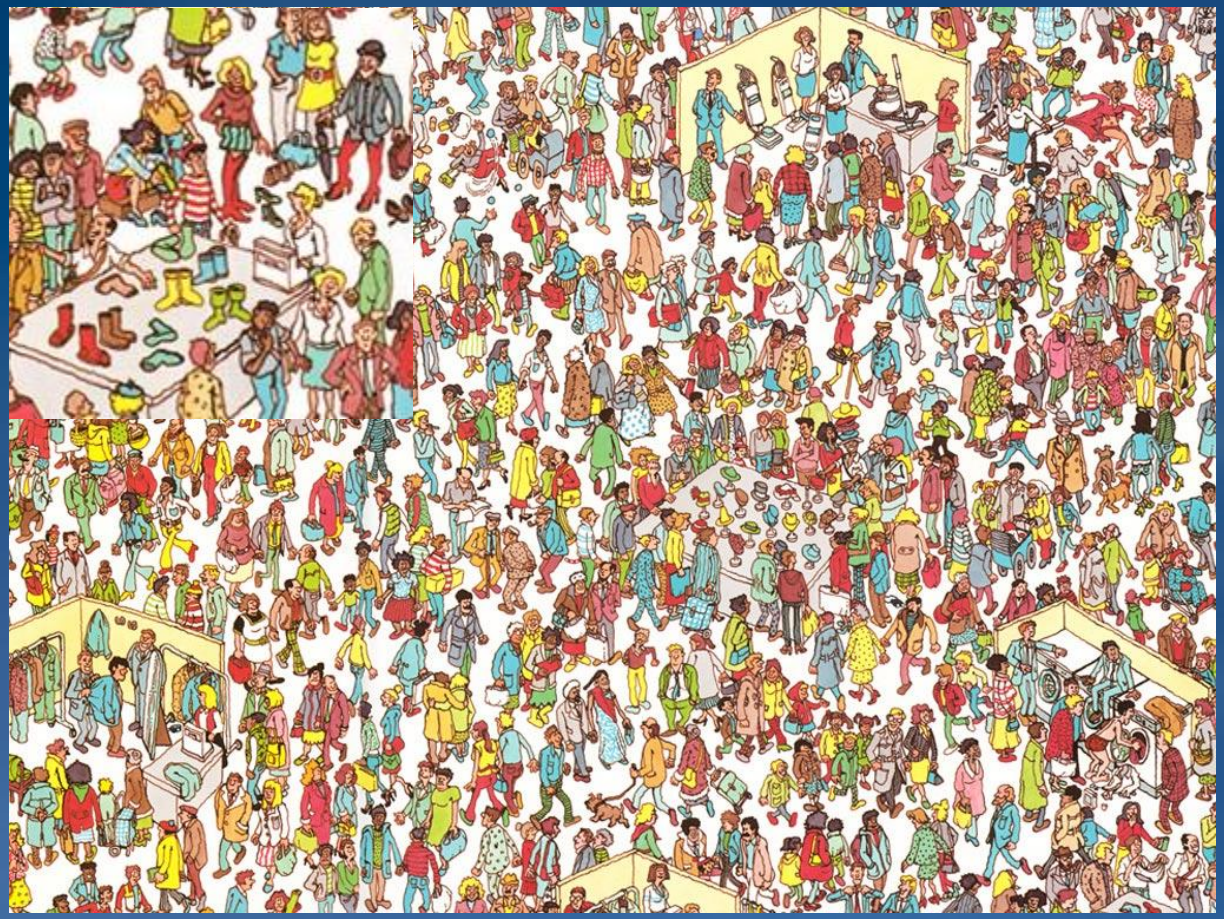


Where's Waldo?

What Is Geography?

Geography is a science that enables us to find answers to questions about the world around us.

Geography helps us to locate where things are and how or why they are there.

What is GIS?

GIS is an abbreviation for geographic information systems which is a set of tools that captures, stores, analyzes, manages, and presents data that are linked to locations. In the simplest terms, GIS is the merging of cartography, statistical analysis, and database technologies to develop better solutions and make better decisions.

How does GIS fit into your Future?

- Critical thinking
- Cross-disciplinary problem solving
- Academic to real-world concepts
- Pathway for deciding best solutions
- Problem-based learning (PBL)
- Motivation with technology
- Builds workforce ready skills
- Growing demand in job market

Jobs Where People Use GIS

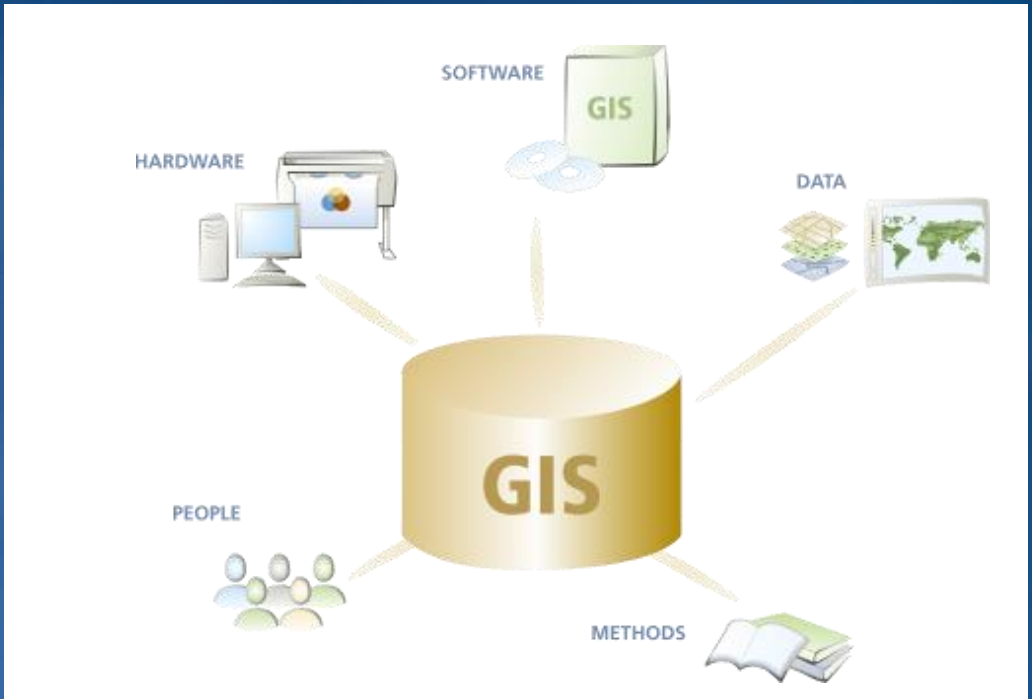
- Computer Science
- Electric/Gas Utilities
- Business/Marketing
- Telecommunications
- Transportation Logistics
- Petroleum & Mining
- Engineering
- Water & Wastewater
- Health Care
- Federal Government
- Economics
- Environmental Mgmt.
- Local Government
- School Districts
- Geology
- Military/Intelligence
- Archeology
- Sociology
- Community Planning
- Real Estate & Cadastral
- Site Location
- Agriculture
- Forestry
- Public Safety
- Risk Management
- Aerial Photography

What is the GIS Job Market?

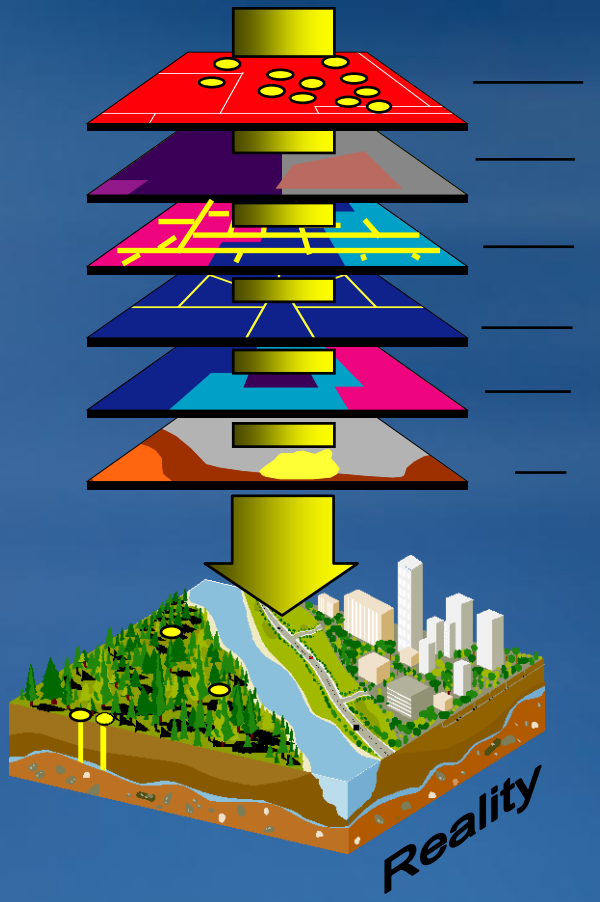
- Industry grew by double digits in early 2010‘s
- Is considered a “high growth industry“ (Dept. of Labor)
- Expected annual growth of 35% each year through 2020
- Florida was 4th of top 10 job postings states in GIS
- Can earn an annual salary of up to $70,000
- GIS Analyst (Information Technology Sector) rank in top 100 of Best Jobs in America (CNN Money)
- Diversity of available jobs based on all educational levels

What Are the Parts of a GIS?

- **Hardware**
  computers, printers, servers
- **Software**
  programs, applications
- **Data**
  information, tables, spreadsheets, databases
- **Methods**
  how to ask questions
- **People**



GIS Integrates All the Parts…
to See the Whole Picture!



Students

Future Development

Streets & Transportation

School Attendance Zones

Cities, Zoning & Land Use

Aerial Photography

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Movie Trailer on Geospatial Technology from Penn State University (Geospatial Revolution Project)

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42 Amazing Maps

That help me understand the world around me and my place in it

by John Green

My Information

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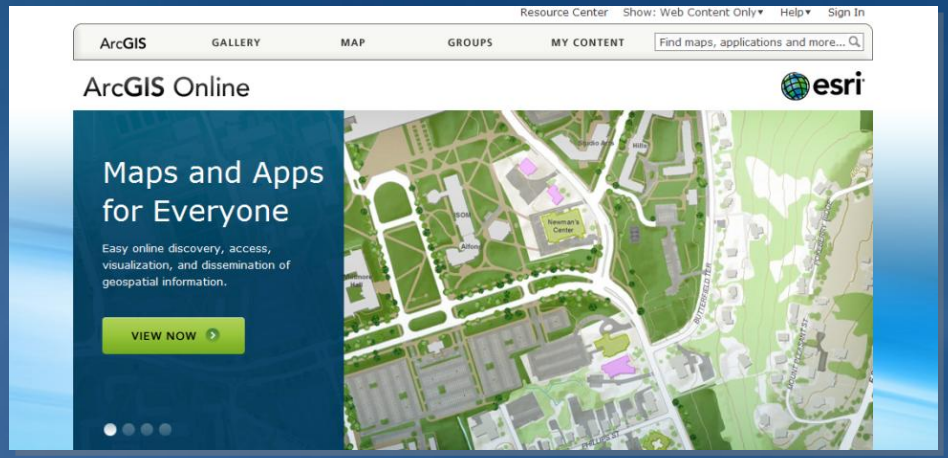
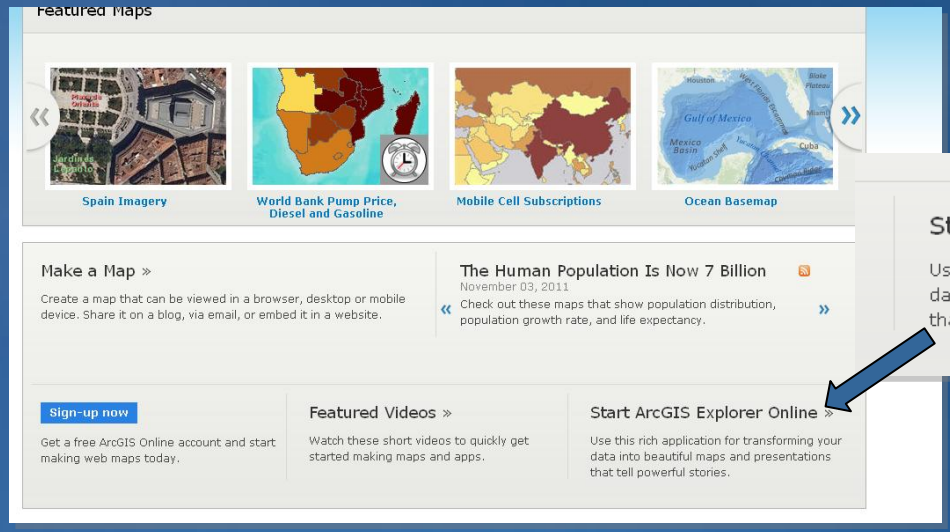
Materials for Intro into ArcGIS.com

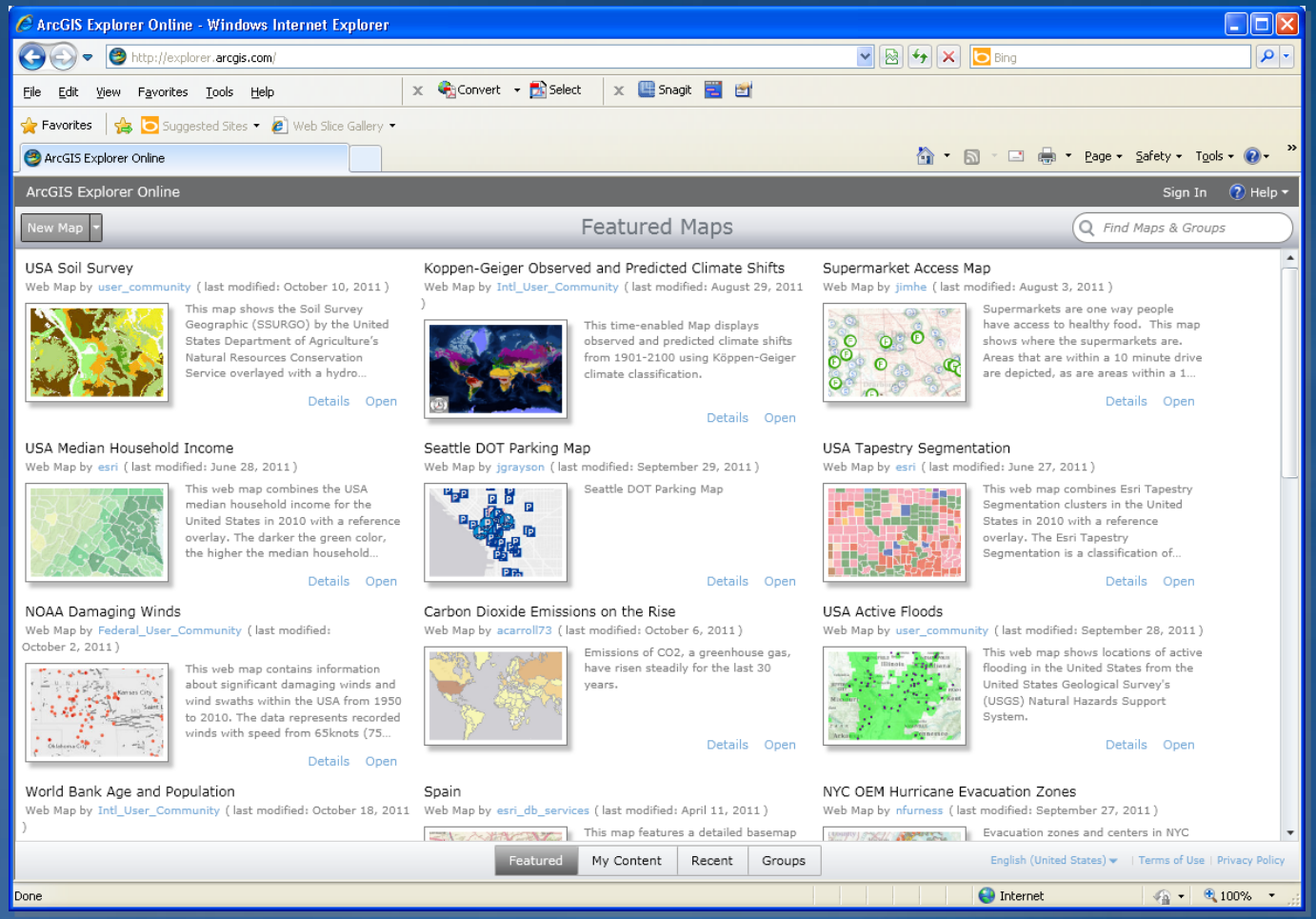
Type in www.arcgis.com on your browser; click Start ArcGIS Explorer Online at the bottom right





Start ArcGIS Explorer Online »
Use this rich application for transforming your data into beautiful maps and presentations that tell powerful stories.

Sign in to your account



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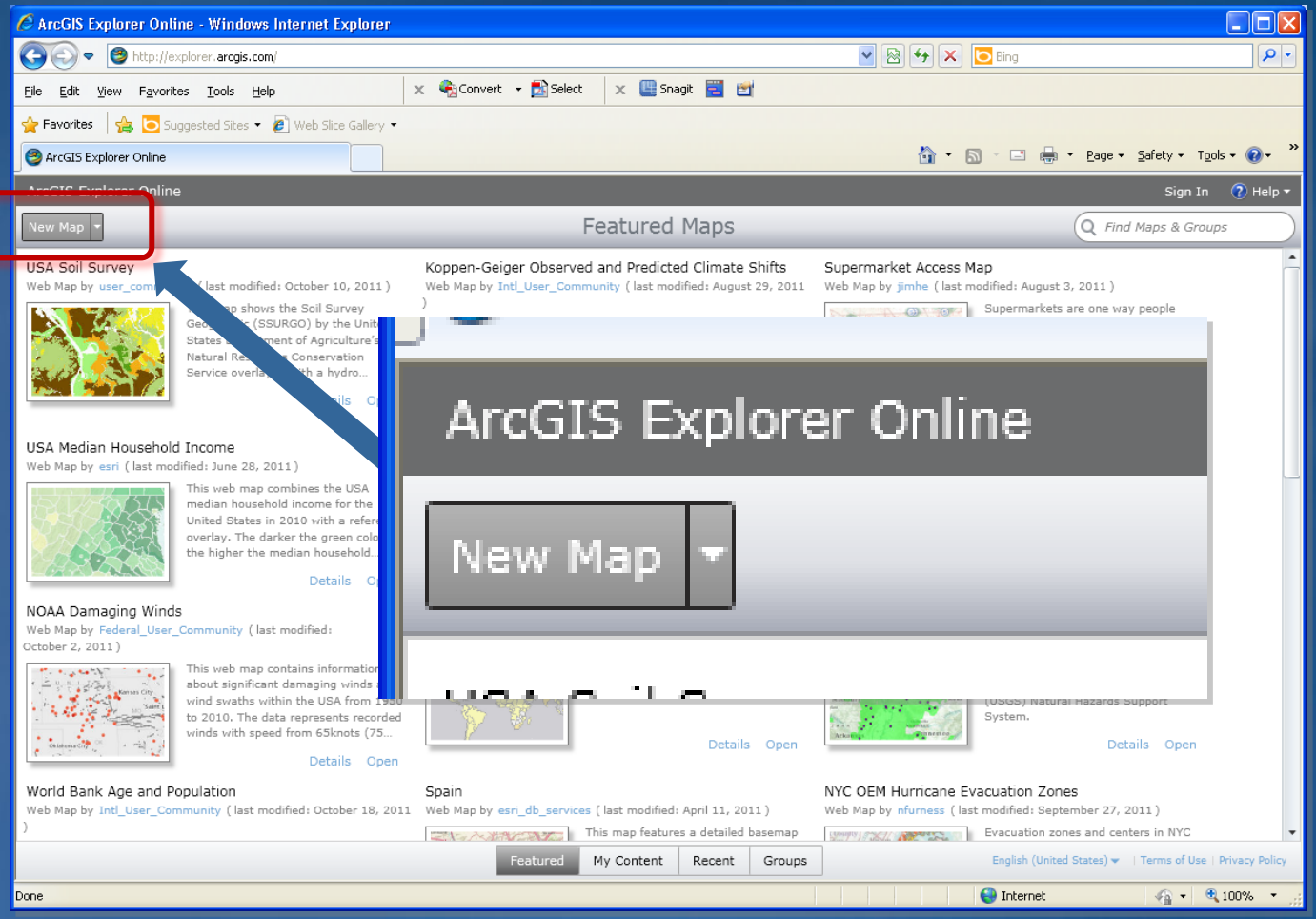
Select “New Map” at top left in ArcGIS Explorer Online



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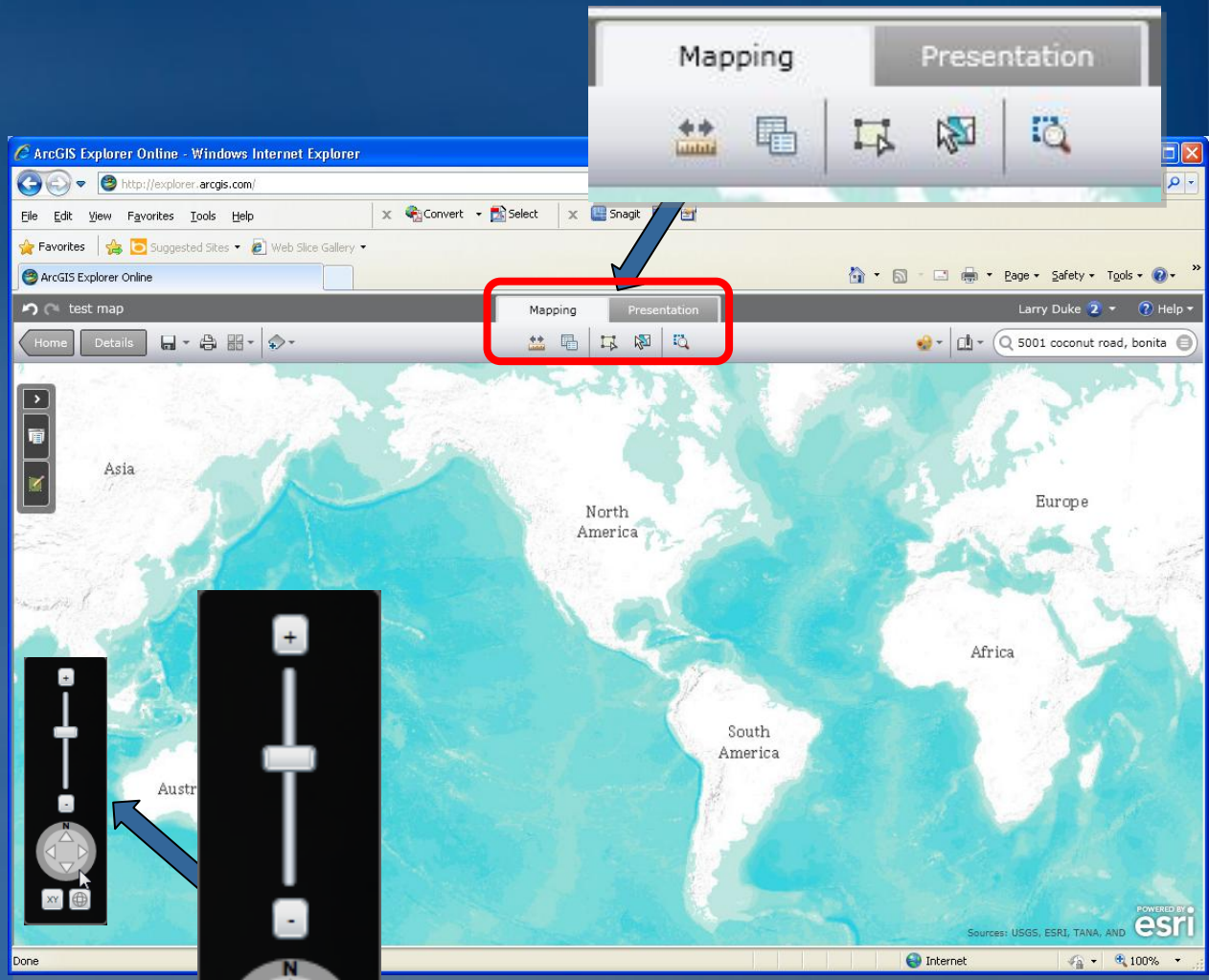
Customize Your Map (continued)

You can:

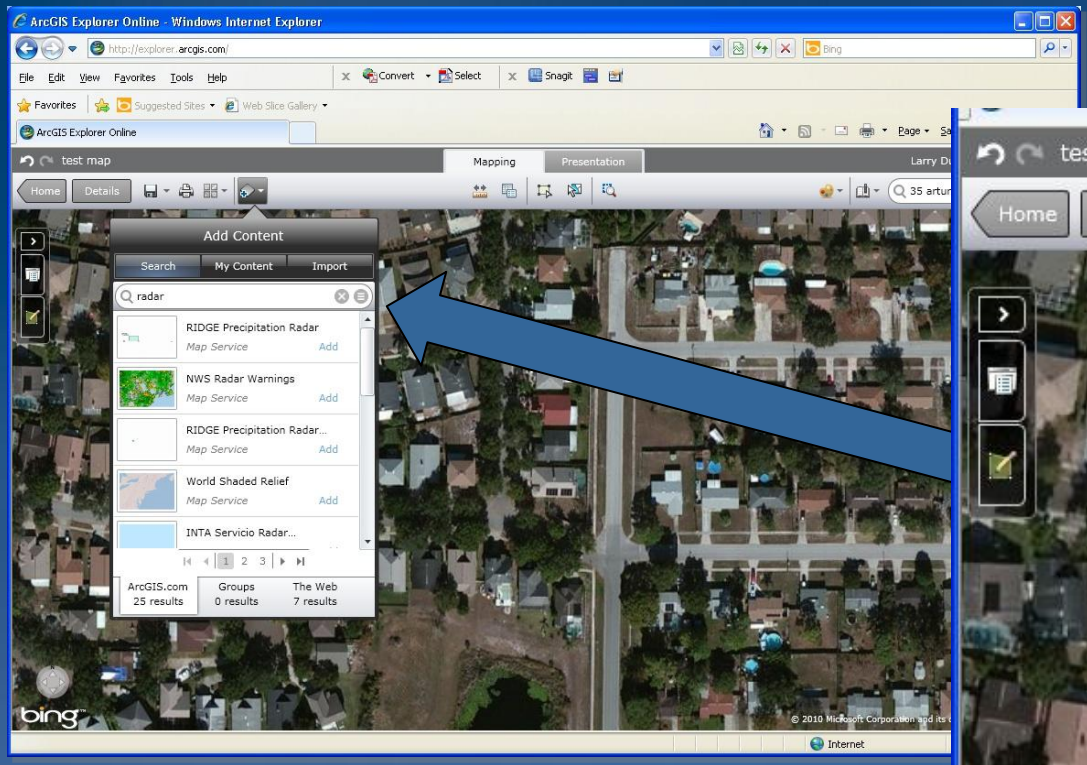
- Measure Distance
- Measure area
- Query
- Draw on the Map
- Create a Map Presentation

Measure, Query, Draw features, Create Presentations



Pan/Zoom Tool, Coordinates

Customize Map (continued)



You can add data from contributors all over the world, or data you create.

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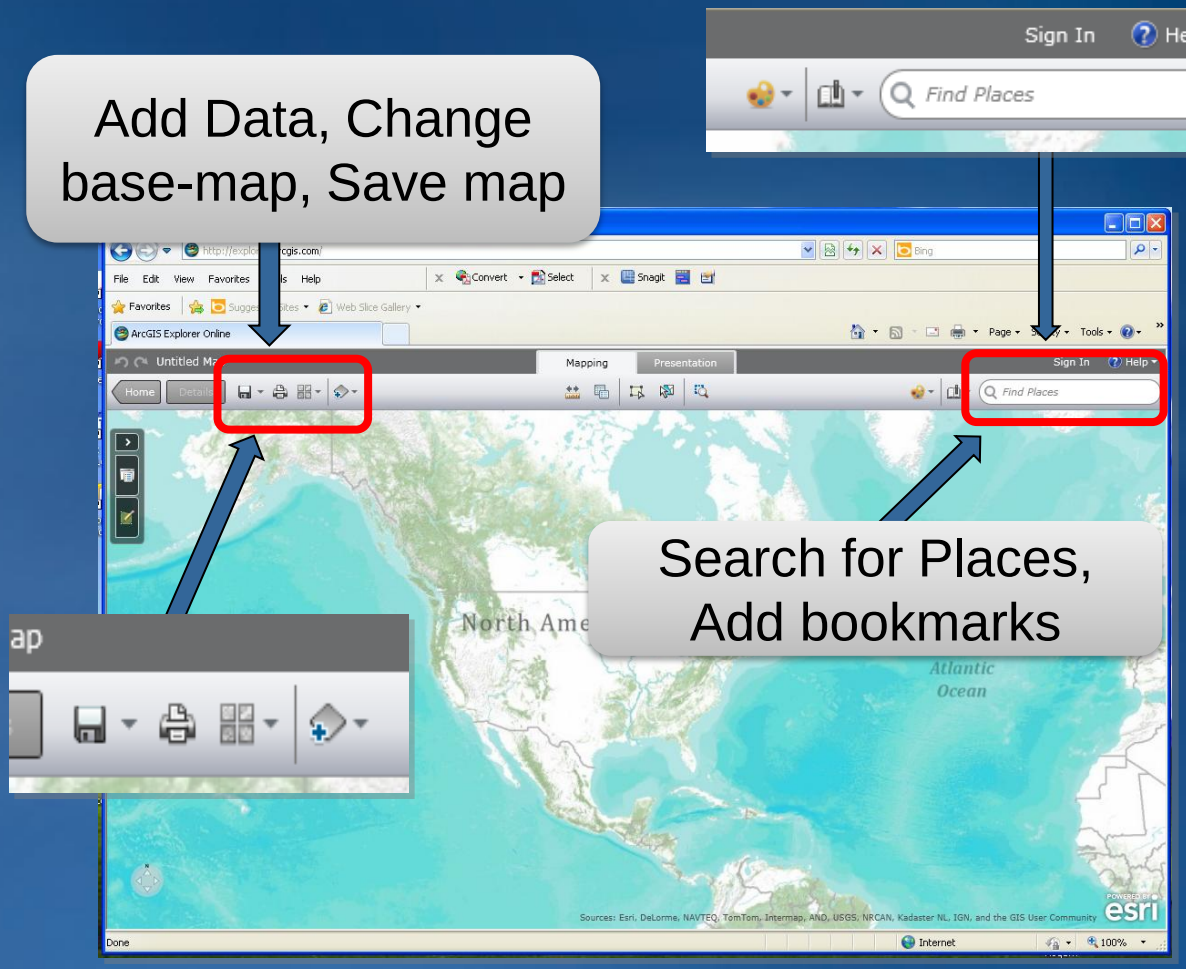
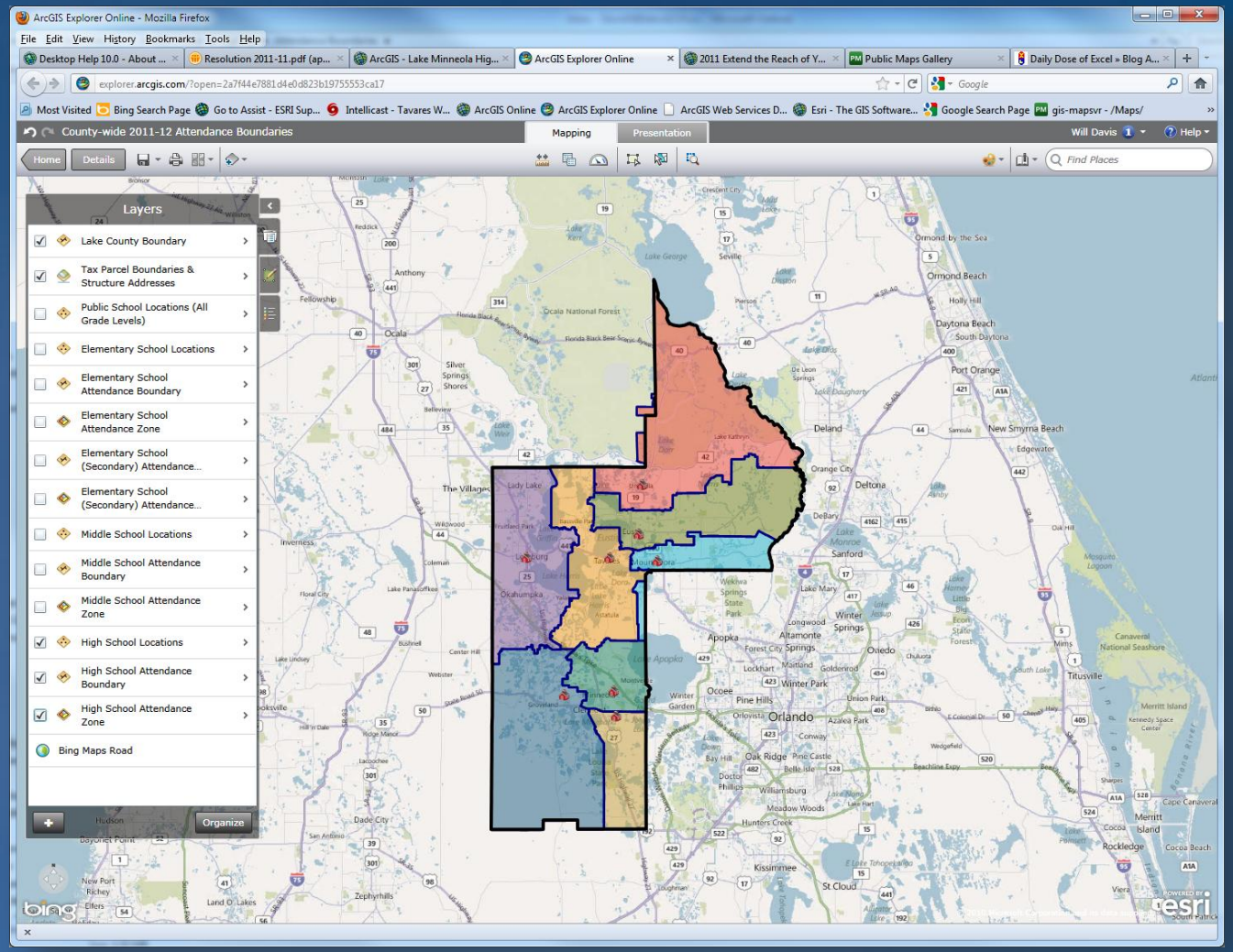
Your first Map

Customize your map:

- **Change Base-map**
- **Add data**
- **Add Bookmarks**
- **Find Places**
- **Save Your Map**



ArcGIS Explorer Online Demo



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Web sites of interest

- *www.lakecountyfl.gov/*
- *www.lake.k12.fl.us/GISDay*
- *GIS Information – www.gis.com*
- *GIS Day – www.gisday.com*

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