

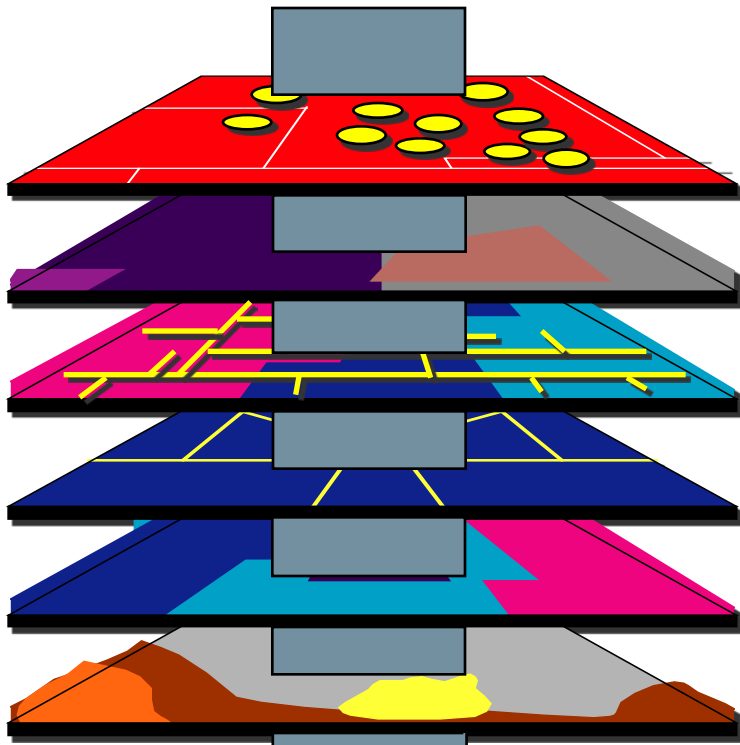
# Center for Applied Research and Environmental Systems (CARES)

Facilitating New Ways to Strengthen Decision Making



Christopher Fulcher, CARES Co-Director  
Division of Applied Social Sciences, University of Missouri  
Updated July 2011

# Interactive Mapping



**Points** – hospitals, social services

**Areas**– neighborhoods, cities, counties

**Lines** – Roads, paths, trails

**Networks** – Public transportation

**Imagery** – Satellite, Aerial images

**Spatial Analysis** – Proximity, buffer

Mapping is a representation  
of the real world...

We may tell a better story by  
overlaying more data...

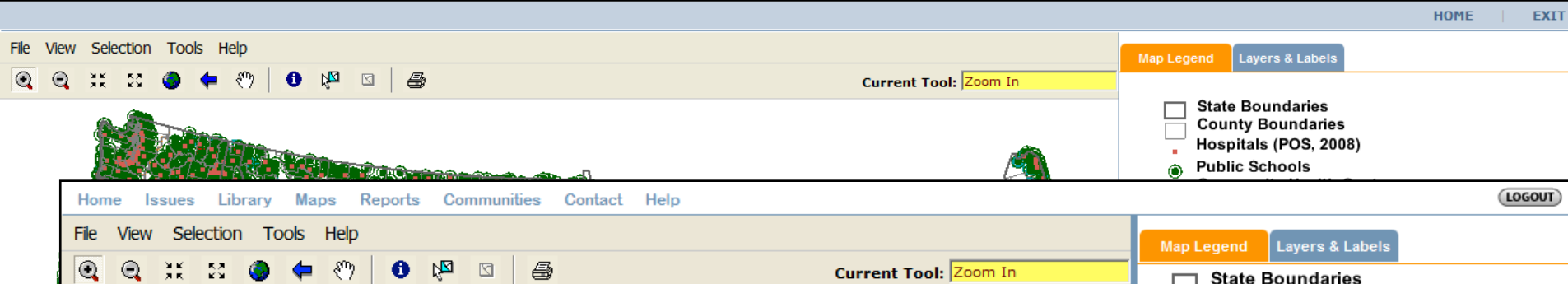
# CARES Core Mapping Engine



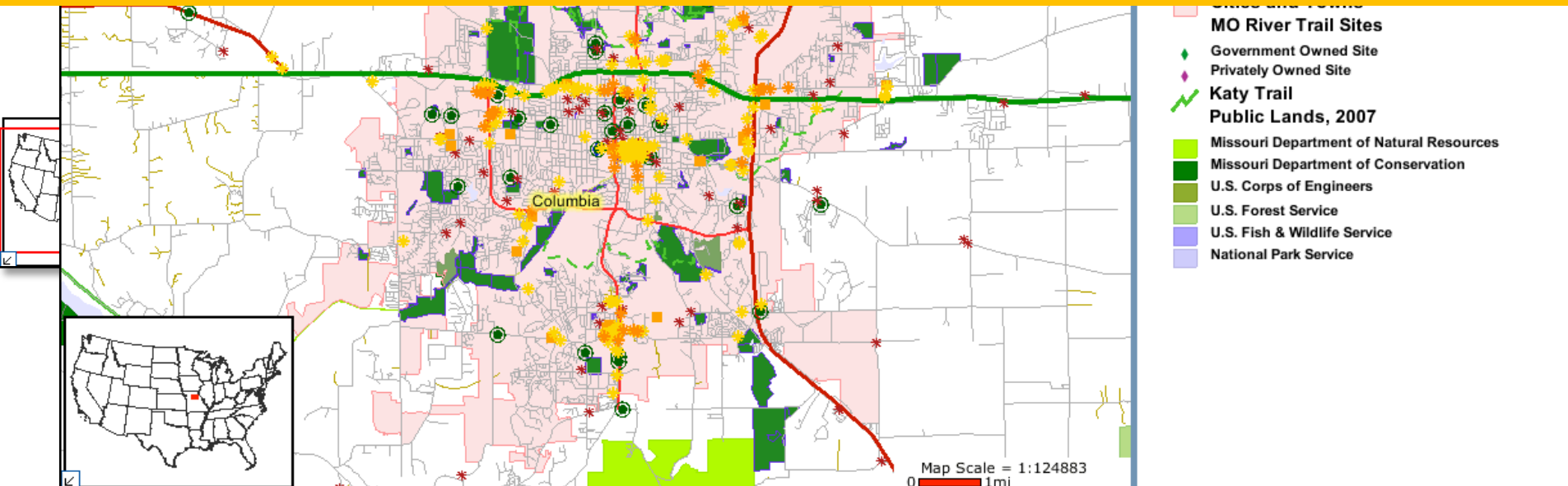
**All public data from all CARES contracts are housed in one national “Commons” Engine to benefit all communities**



# Multiple Levels of Geography...

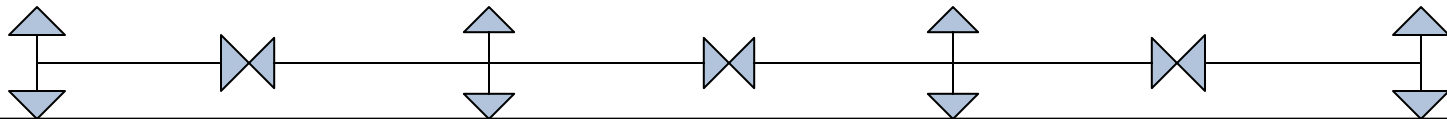
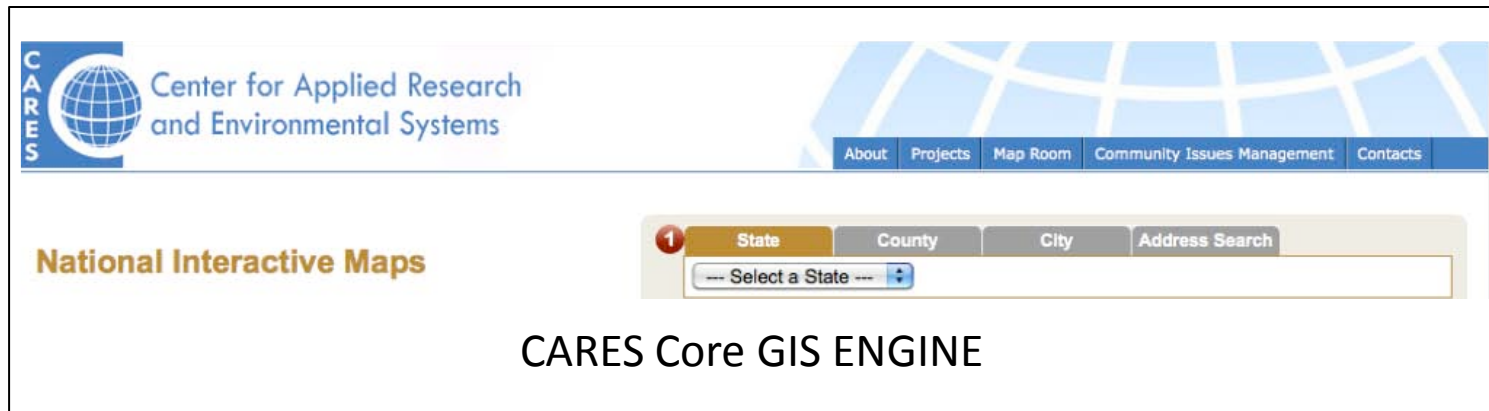


**CARES provides free access to the  
CARES Mapping Engine**



# Collaborative Management Systems (CMS)

# National Collaborative Management Systems Are Built on the Public Good Engine



**Community Issues Management**

Diverse Network  
Flexible to adapt to different Organizations

**YUSA GIS**

Network specific  
Integrated into SharePoint

**RWJF Childhood Obesity GIS**

Focus on Obesity Work  
RWJF NPO/Grantee frame  
Designed w/ NPO & Grantee Input

**Public Health Data Solutions**

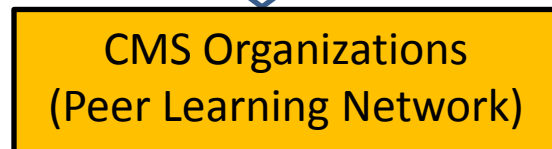
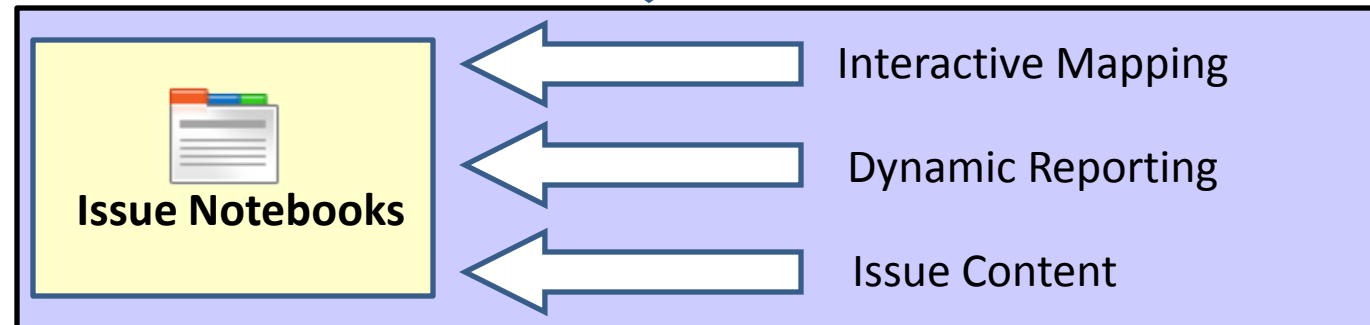
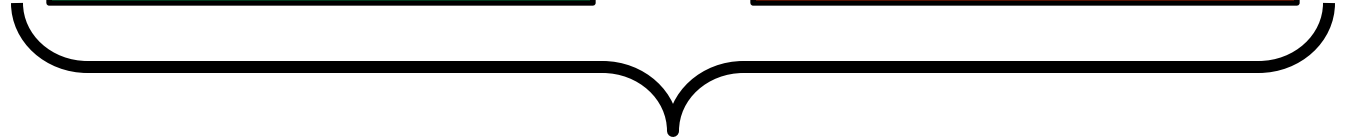
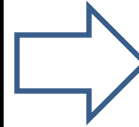
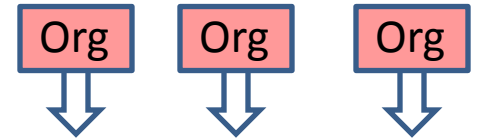
Collaborative Management Systems

# Components

## Collaborative Management System

- **Data Visualization:** To generate highly intuitive interactive maps and custom reports (*dashboards and animations coming soon...*)
- **Data Integration:** To rapidly integrate local and regional data
- **Content Management System:** To organize maps, reports, documents, maps, images, videos, etc.
- **Collaborative Role Based Access Control:** To provide flexibility in assigning access roles to users and security levels for data, maps, reports or other content that is uploaded or hyperlinked to the CMS
- **Peer Learning:** To provide robust search tools to learn what others are doing within and peer learning networks

**What is the issue?**



**What Organization(s) will address the issue?**

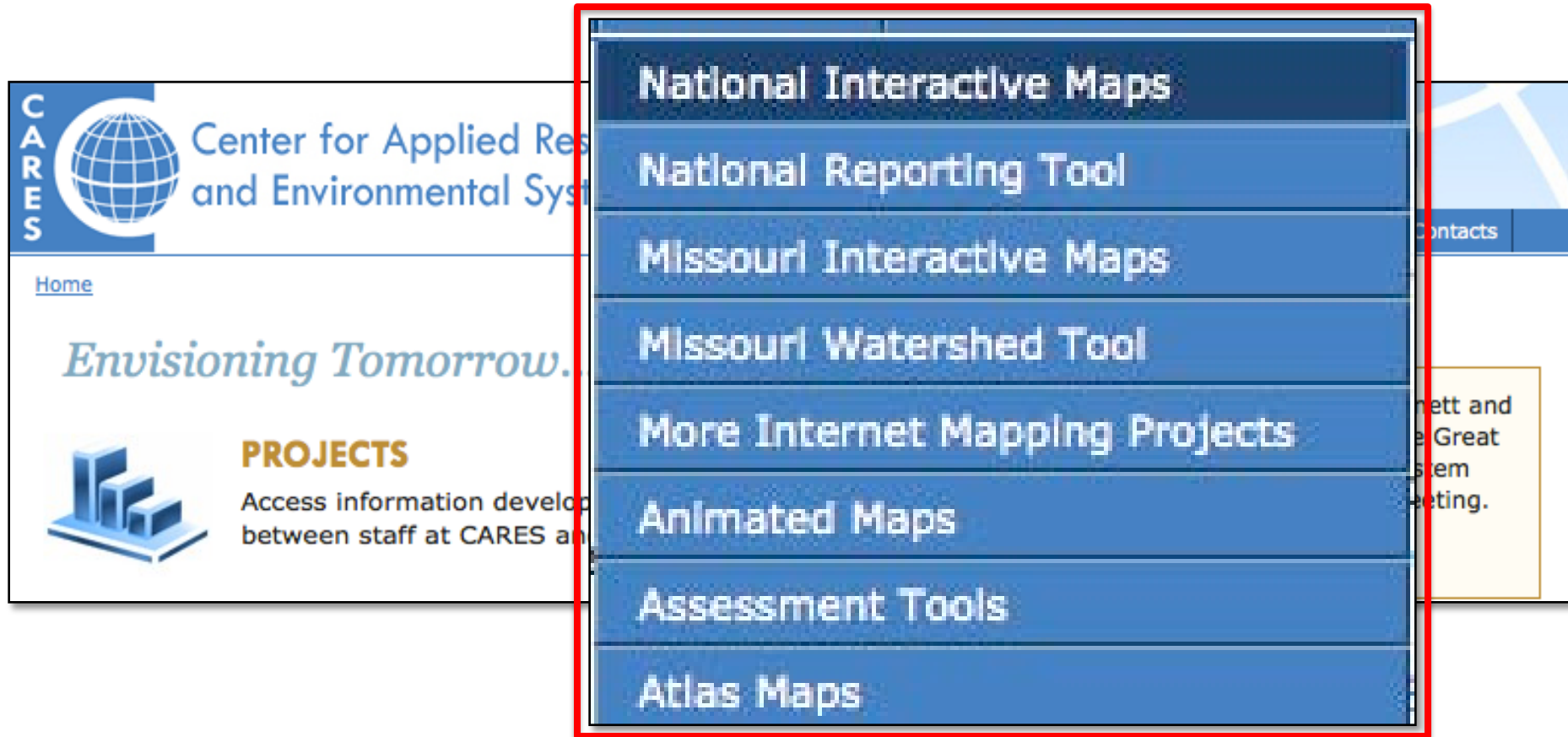
**Where will the data & information come from to address the issue?**

**How do we organize and pull it all together?**

**How will the story be shared?**



# Public Good Components: Mapping and Reporting Tools



The screenshot displays the CARES website interface. On the left, the CARES logo (a globe) and the text "Center for Applied Research and Environmental Systems" are visible. Below this is a "Home" link and the tagline "Envisioning Tomorrow." A "PROJECTS" section is also present, with a sub-header "Access information developed between staff at CARES and..." and a small bar chart icon. On the right, a dropdown menu is open, listing the following tools: National Interactive Maps, National Reporting Tool, Missouri Interactive Maps, Missouri Watershed Tool, More Internet Mapping Projects, Animated Maps, Assessment Tools, and Atlas Maps. The menu is highlighted with a red border. To the right of the menu, a "Contacts" link is visible, and a yellow box contains the text "Nett and e Great stem eting."

CARES Center for Applied Research and Environmental Systems

[Home](#)

*Envisioning Tomorrow.*

**PROJECTS**  
Access information developed between staff at CARES and...

Contacts

Nett and e Great stem eting.

- National Interactive Maps
- National Reporting Tool
- Missouri Interactive Maps
- Missouri Watershed Tool
- More Internet Mapping Projects
- Animated Maps
- Assessment Tools
- Atlas Maps

[www.cares.missouri.edu](http://www.cares.missouri.edu)