



## IU's Advanced Visualization Lab enables interactive iteration of Places & Spaces: Mapping Science.

Exhibit in the CDC Museum in Atlanta enabled by IU cyberinfrastructure open until June 17, 2016.

May 11, 2016 | [News & Events](#)

**PI or project leads:** Dr. Katy Börner, Victor H. Yngve Professor of Information Science and David Reagan, Sr. Analyst/Programmer

**ITS Research Technologies' (RT) group involved:** ITS's Research Technologies' Advanced Visualization Lab

**RT system:** IQ-Table

The staff of Indiana University's Advanced Visualization Lab (AVL) collaborated with the Cyberinfrastructure for Network Science Center (CNS) to present interactive data visualizations in a multi-touch kiosk. The visualizations were submitted to the CNS by experts around the world as examples of "macroscopes," interactive tools that help the user focus on patterns in data that are too large or complex to see unaided. The microscope kiosk debuted at the David J. Sencer Centers for Disease Control (CDC) Museum in Atlanta on February 4, 2016, as the 11<sup>th</sup> iteration of the traveling exhibit, Places & Spaces: Mapping Science.

Interactive data visualizations, or macroscopes, have great potential as tools for exploring, understanding and communicating science. They empower individuals to interact with data and to make their very own maps. In the first 10 years of Places & Spaces, the exhibit was shown at 290 venues around the world and generated nearly 3.5 million website visits. In its 11<sup>th</sup> year, the exhibit will spend five months at the CDC Museum, which hosts about 90,000 visitors each year.

The microscope kiosk was based on the design of the AVL's IQ-Table v2 (version 2), a low-cost multi-touch table built with commercial, off-the-shelf hardware and open-source software. AVL staff provided guidance on hardware purchase and assembly, and created software to allow users to explore the macroscopes. The microscope kiosk is the first deployed instance of the AVL's new multi-touch software framework, an approach for building touch applications with modern web development tools.

AVL is a group within University Information Technology Services' Research Technologies, an affiliate of the Pervasive Technology Institute.

**Dr. Katy Börner** will help formally open the [Places & Spaces: Mapping Science](#) exhibit on February 4-5, 2016, at the CDC Museum in Atlanta. In a time where people long to find answers to health questions, the exhibit explores ways to find answers through tools of information visualization.

Here are excerpts from the Centers for Disease Control and Prevention announcement:

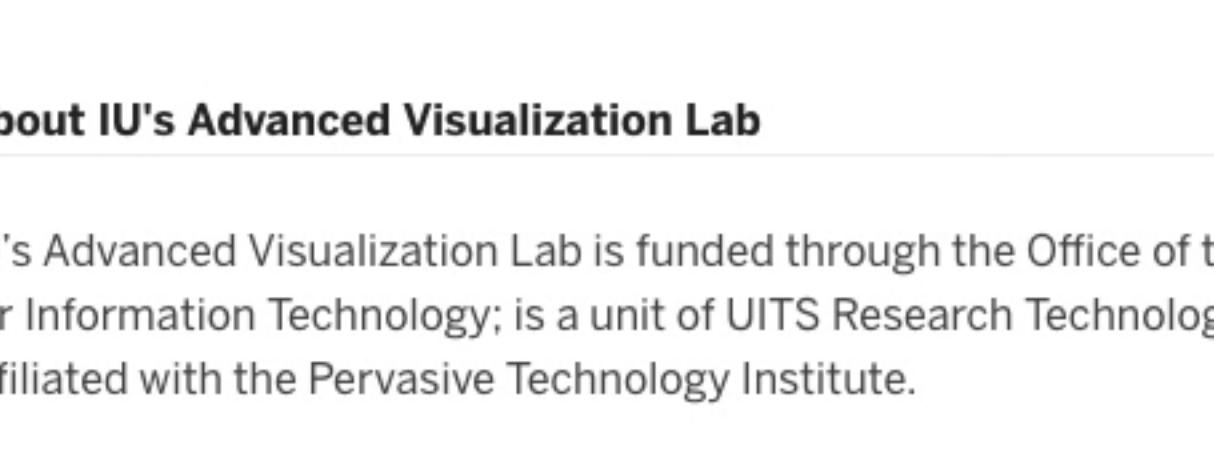
**David J. Sencer CDC Museum: In Association with the Smithsonian institution – Upcoming Exhibit: Places & Spaces: Mapping Science (January 25 – June 17, 2016)**

Drawing from across cultures and across scholarly disciplines, the Places & Spaces: Mapping Science exhibition demonstrates the power of maps to address vital questions about the contours and content of human knowledge. Created by leading experts in the natural, physical, and social sciences, visual arts, and the humanities, the maps in Places & Spaces allow us to better grasp the abstract contexts, relationships, and dynamism of science, technology, and innovation. Individually and as a whole, the maps of Places & Spaces allow data to tell stories which both the scientist and the layperson can understand and appreciate.

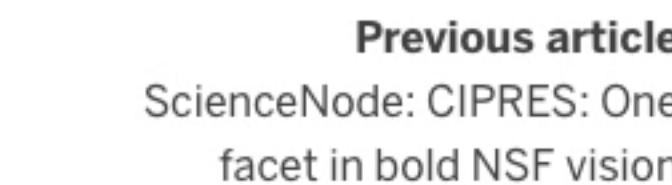
Complementing Places & Spaces are some recent examples of CDC's mapping and data visualizations for use by public health professionals and policy makers, as well as infographics designed to communicate with the general public.

Places & Spaces is organized by the [Cyberinfrastructure for Network Science Center](#) at Indiana University. In Atlanta, the exhibition is presented by the David J. Sencer CDC Museum and CDC's Office of Public Health Scientific Services, with additional support from Thomson Reuters through the CDC Foundation.

### Multimedia



**Education, Outreach, and Training (EOT)**



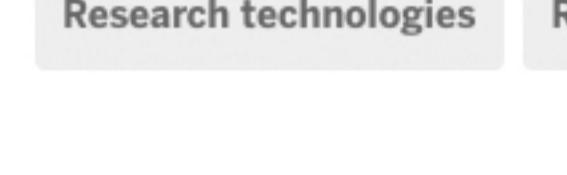
**Visualization Facilities and Services**



Source: IT News

<https://itnews.iu.edu/articles/2016/ius-advanced-visualization-lab-enables-interactive-iteration-of-places--spaces--mapping-science.title.php>

### Share this article



### Tags

PTI Education Outreach and Training

Research technologies

Research

PTI

### Related Articles

[Tech entrepreneur gives \\$30M for immunotherapy center](#)

[IU innovations on display at international supercomputing conference](#)

[Indiana University at SC16: Scheduled presentations](#)

[OpenSFS reinvents itself with a focus on user needs](#)

[LUG 2017 at Indiana University](#)

### About IU's Advanced Visualization Lab

IU's Advanced Visualization Lab is funded through the Office of the Vice President for Information Technology; is a unit of ITS Research Technologies; and is affiliated with the Pervasive Technology Institute.

#### Previous article

[ScienceNode: CIPRES: One facet in bold NSF vision](#)

#### Next article

[IU departments team up to create interactive exhibit of Angel Mounds State Historic Site](#)