Visualizing What We Know

Noodles and Co.

February 2017

A New Map of the Whole World, by Herman Moll 1736

Inset from *Map of the Internet*, by Martin Vargic

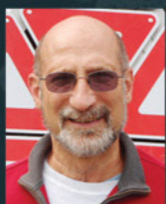
PLACES & SPACES
MAPPING SCIENCE

CNS Cyberinfrastructure for Network Science Center

cns.iu.edu

Places & Spaces On Display

Meet the international advisory board that helps select the maps that make up the exhibit


Gary Berg-Cross


Bob Bishop


Kevin W. Boyack


Donna J. Cox

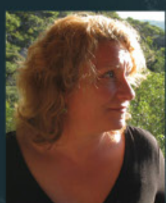

Bonnie DeVarco


Sara Irina Fabrikant


Marjorie M.K. Hlava


Peter A. Hook


Manuel Lima


Deborah MacPherson


Lev Manovich


Carlo Ratti


Eric Rodenbeck


André Skupin


Moritz Stefaner


Stephen Uzzo

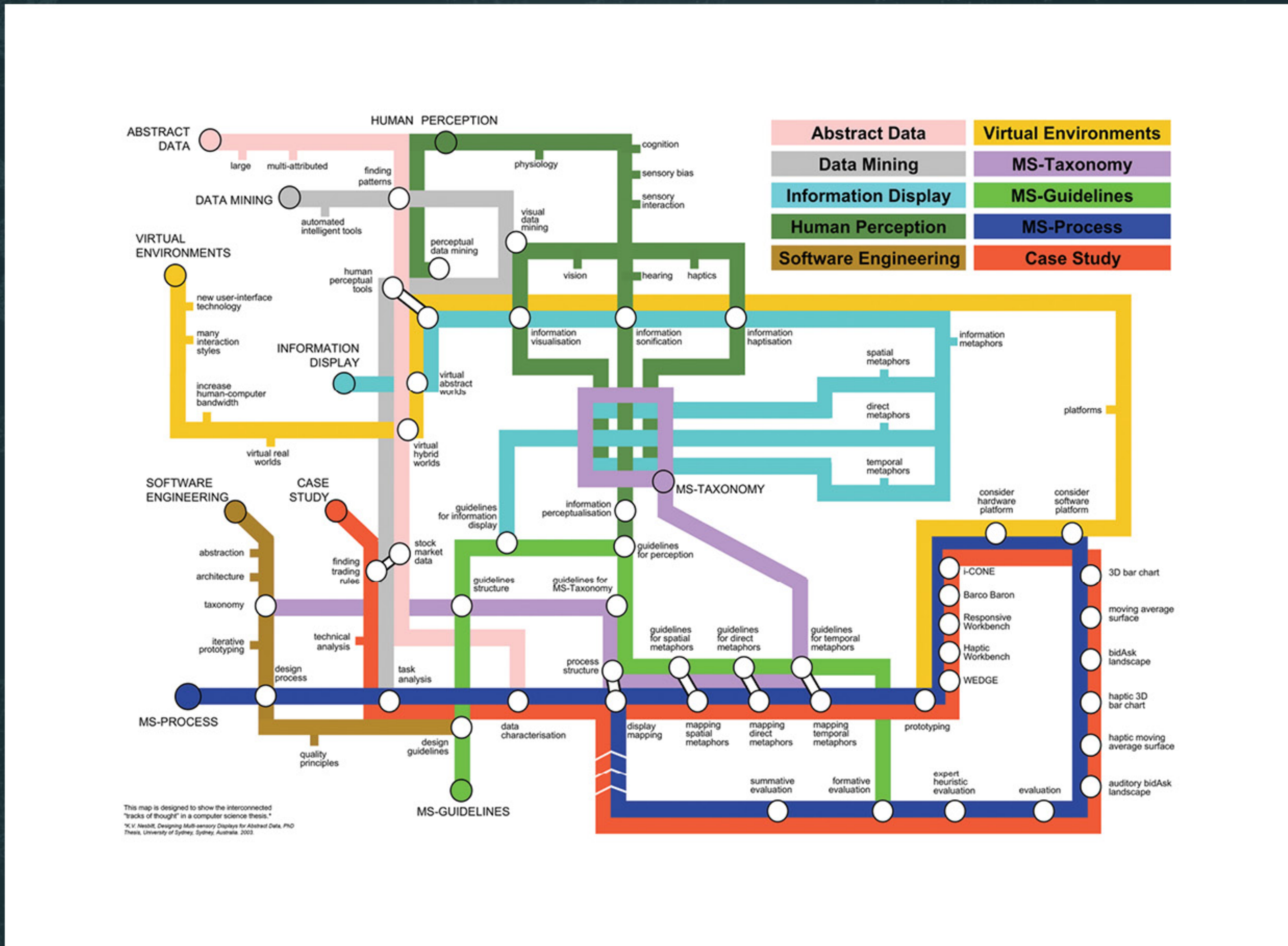

Caroline Wagner


Benjamin Wiederkehr

The process of selecting the exhibit's pieces begins each year with a call for maps corresponding to a particular theme or addressing the needs of a particular audience. Once the submissions have been gathered, a team of international reviewers and exhibit advisors select the ten most articulate and innovative maps for entry into *Places & Spaces*.

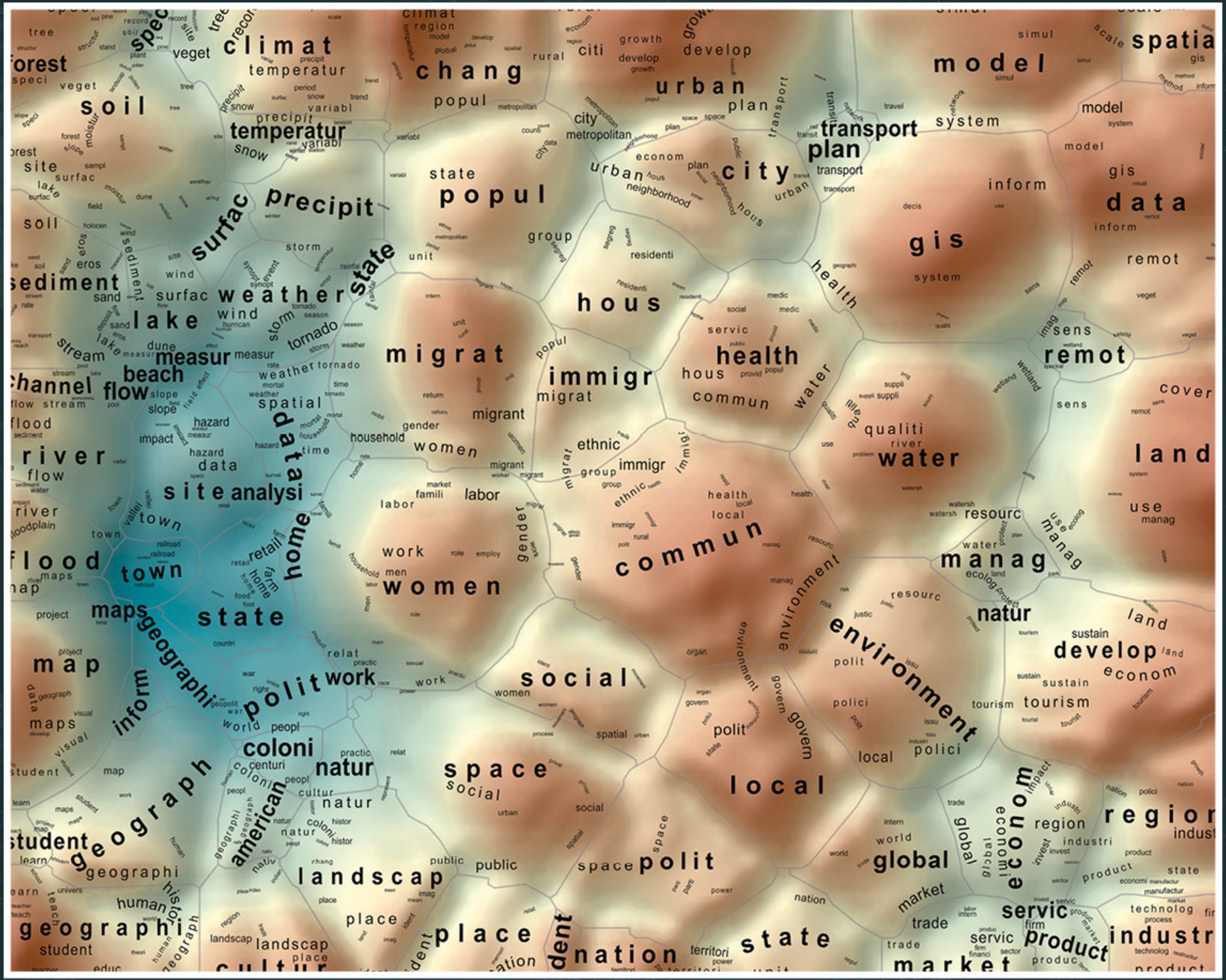
The *Places & Spaces* Exhibit Ambassadors

These men and women from around the globe work selflessly to make the exhibit a success. Their intellectual guidance and commitment to promoting science mapping are what has made *Places & Spaces* the vital exhibit it is today.



Ph.D. Thesis Map, by Keith V. Nesbitt

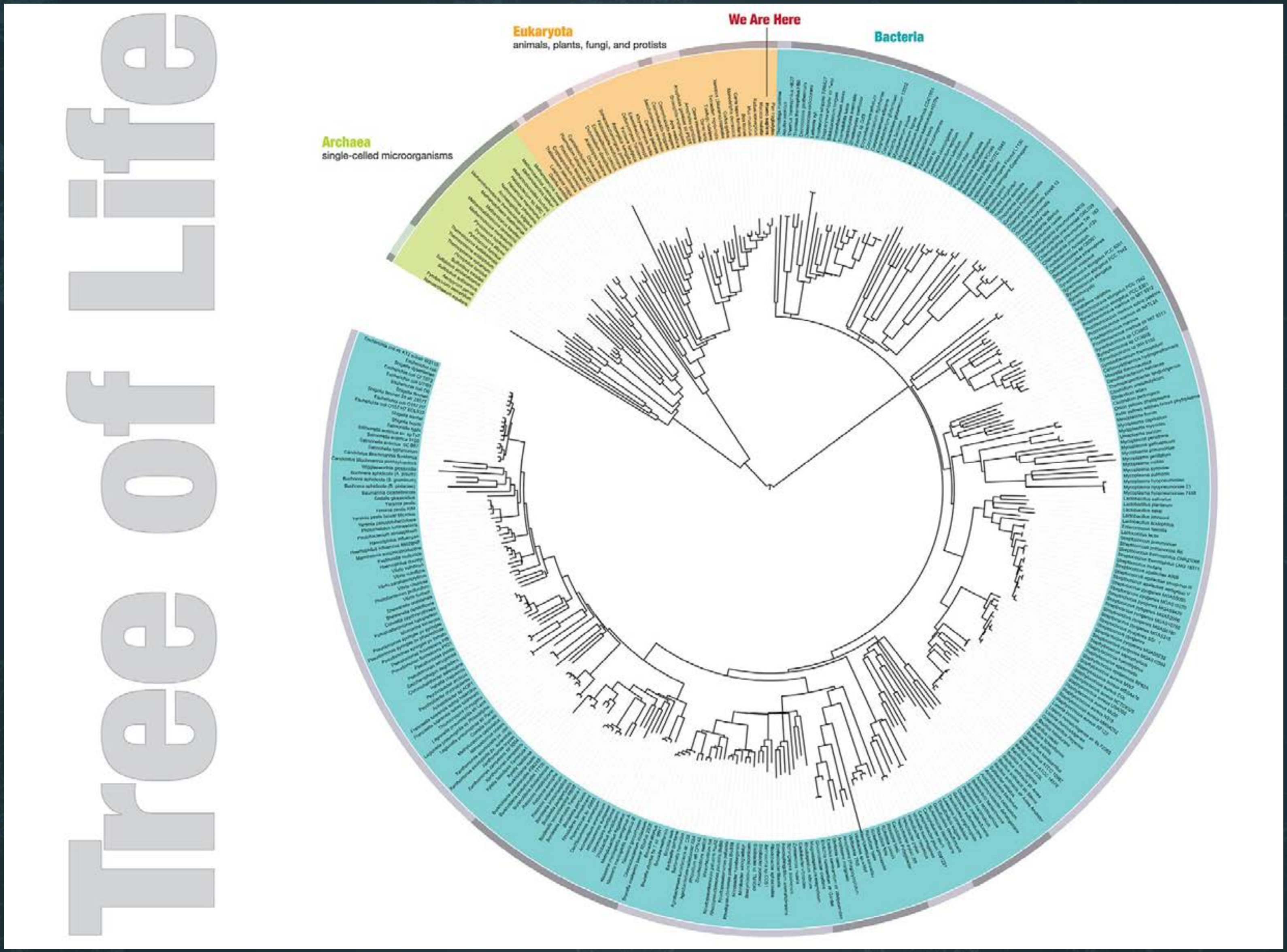
Being a Map of Physics, by Bernard Porter



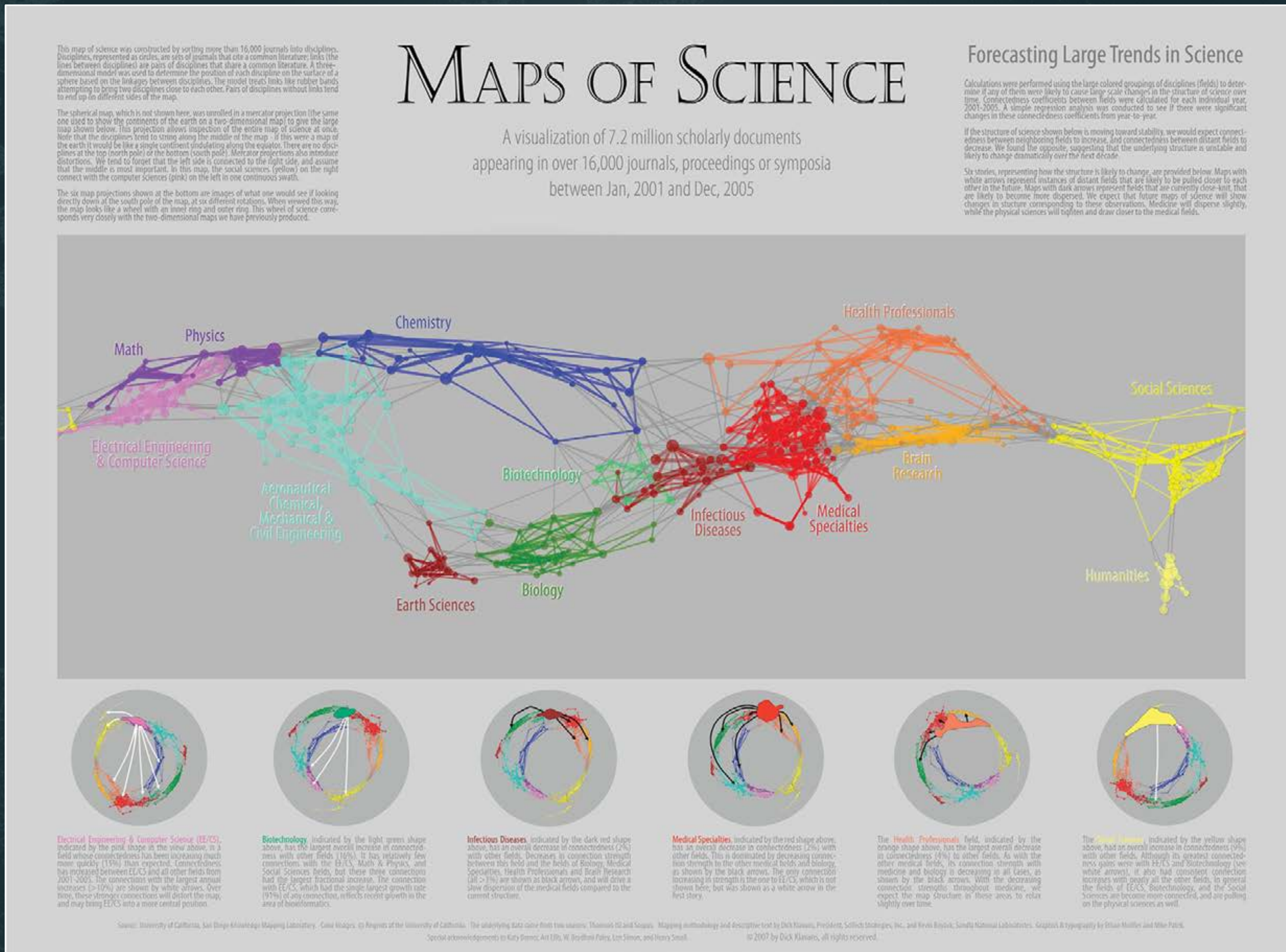
In Terms of Geography, by André Skupin

"When you're lost in information, an information map is kind of useful."

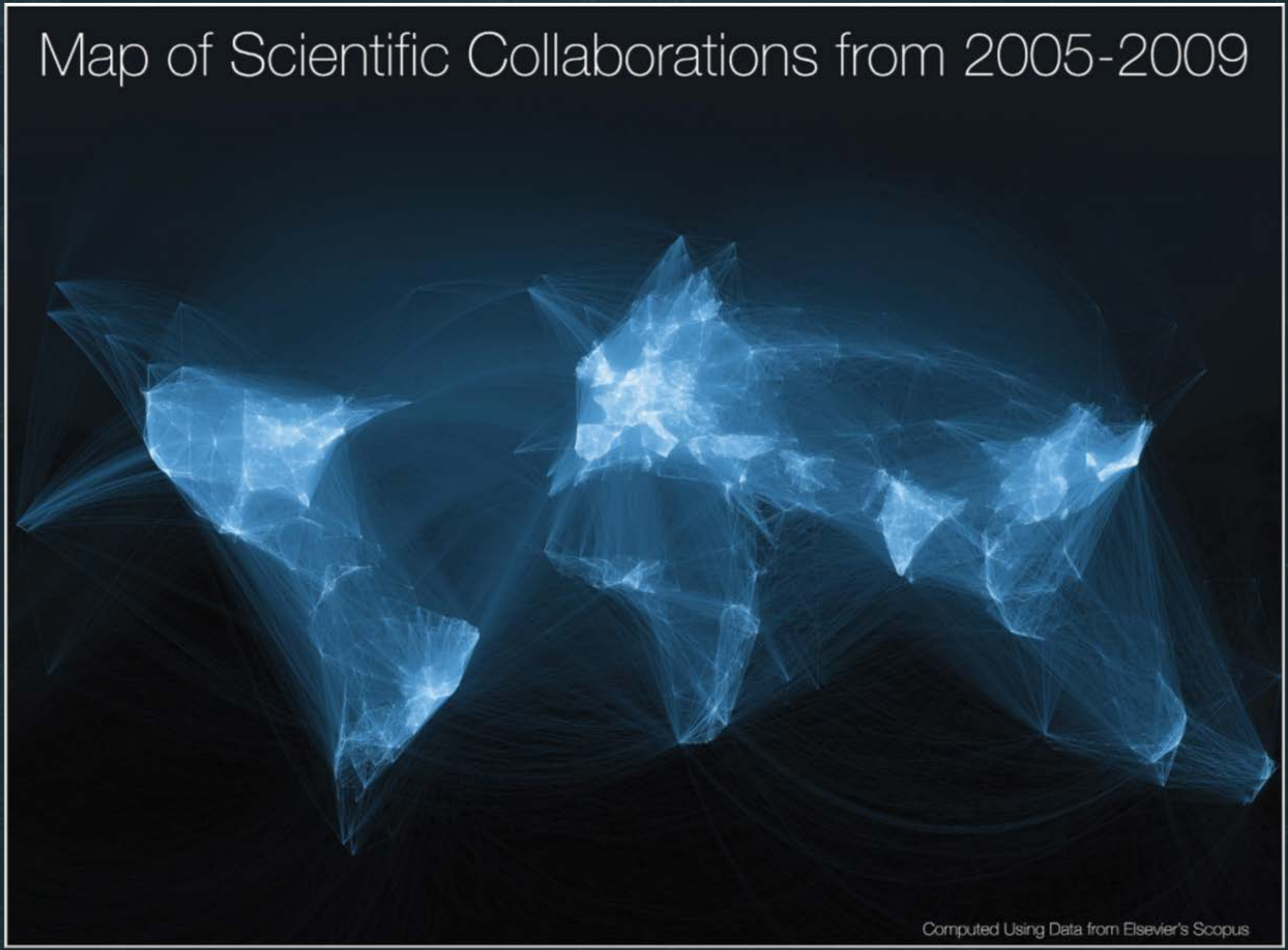
-David McCandless,
data journalist and information designer



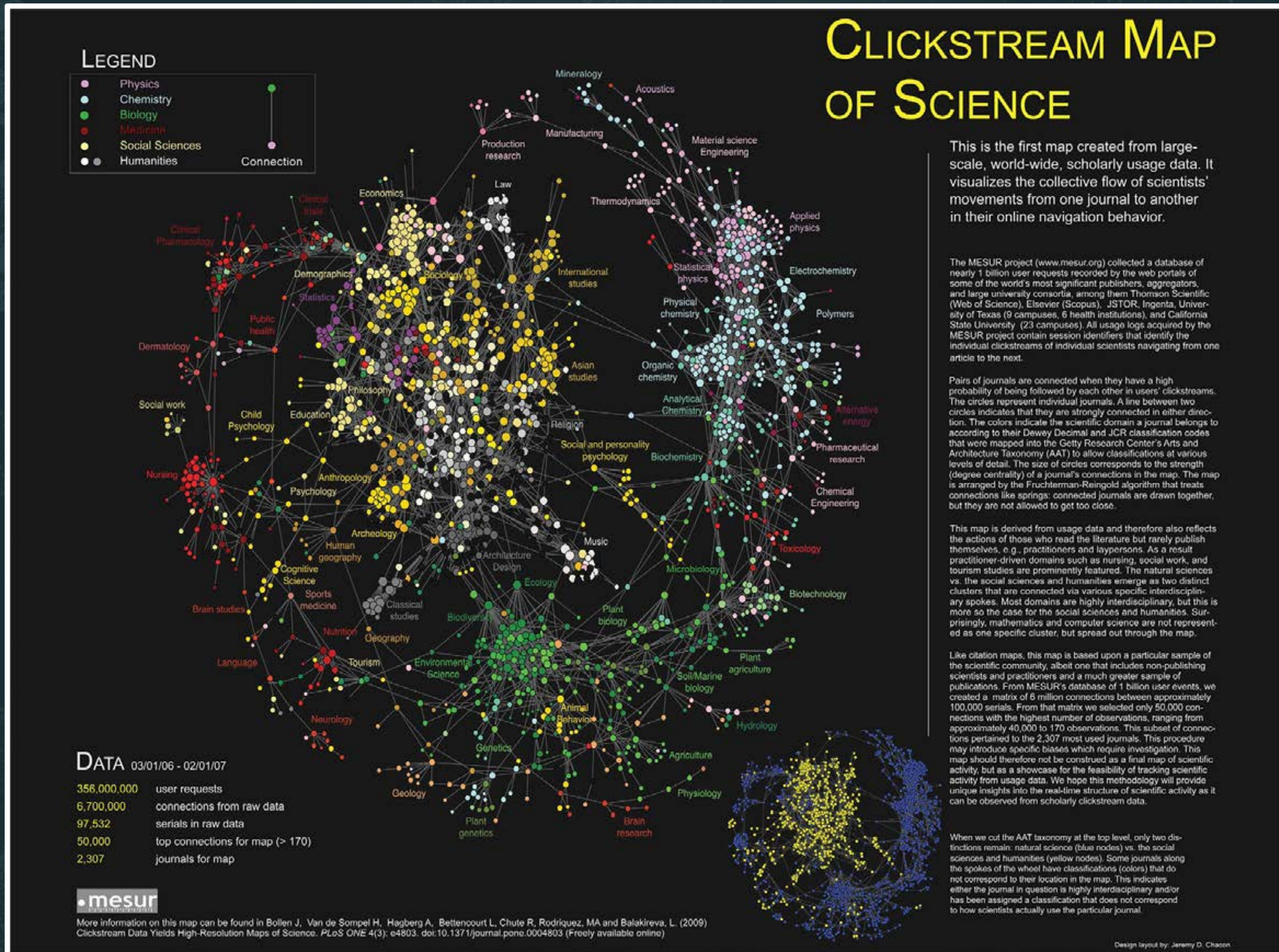
Tree of Life, by Peer Bork, Francesca Ciccarelli, Berend Snel, Chris Creevey, Christian Von Mering



Maps of Science, by Kevin W. Boyack and Richard Klavans

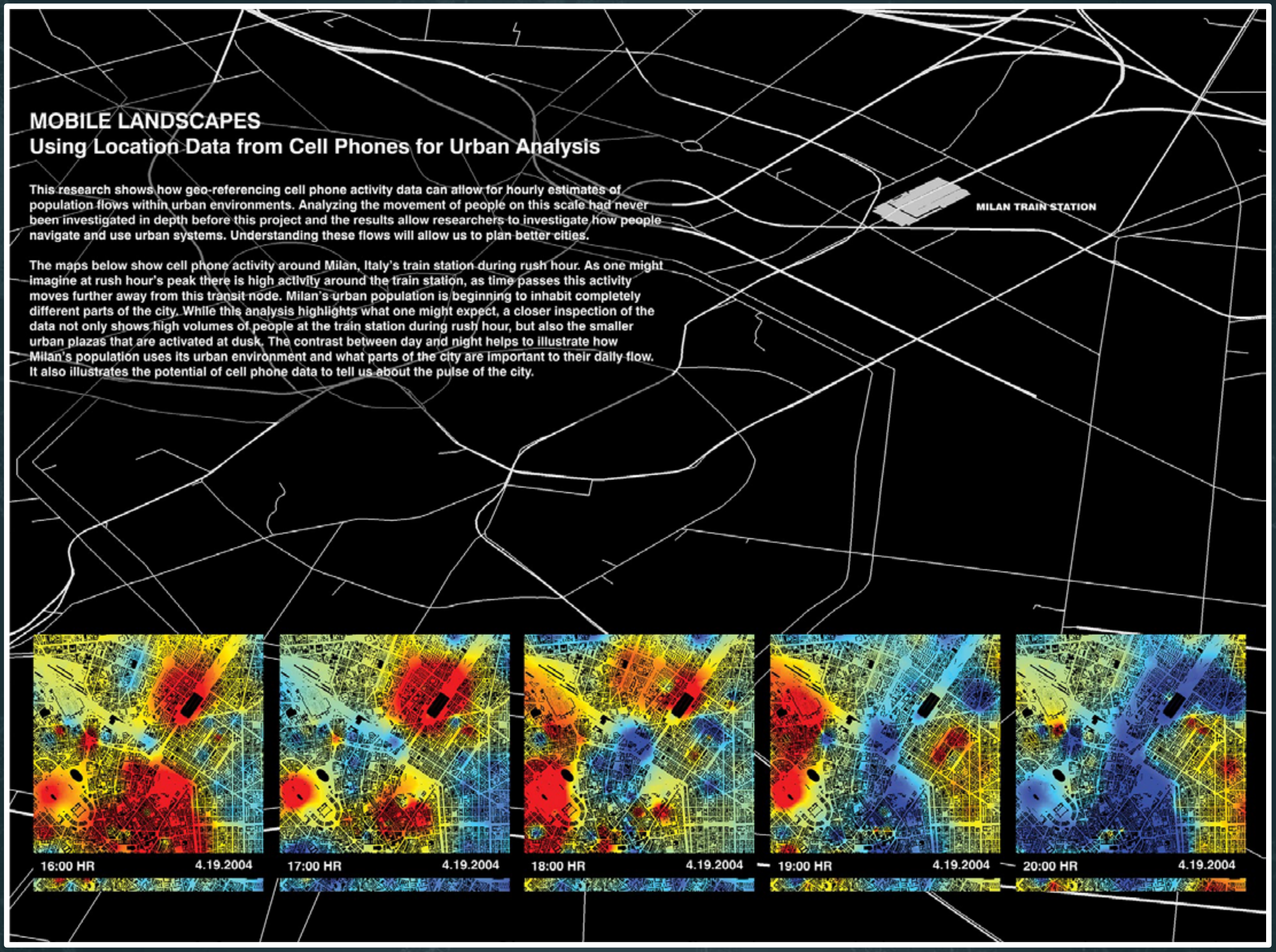


Scientific Collaborations between World Cities, by Olivier H. Beauchesne



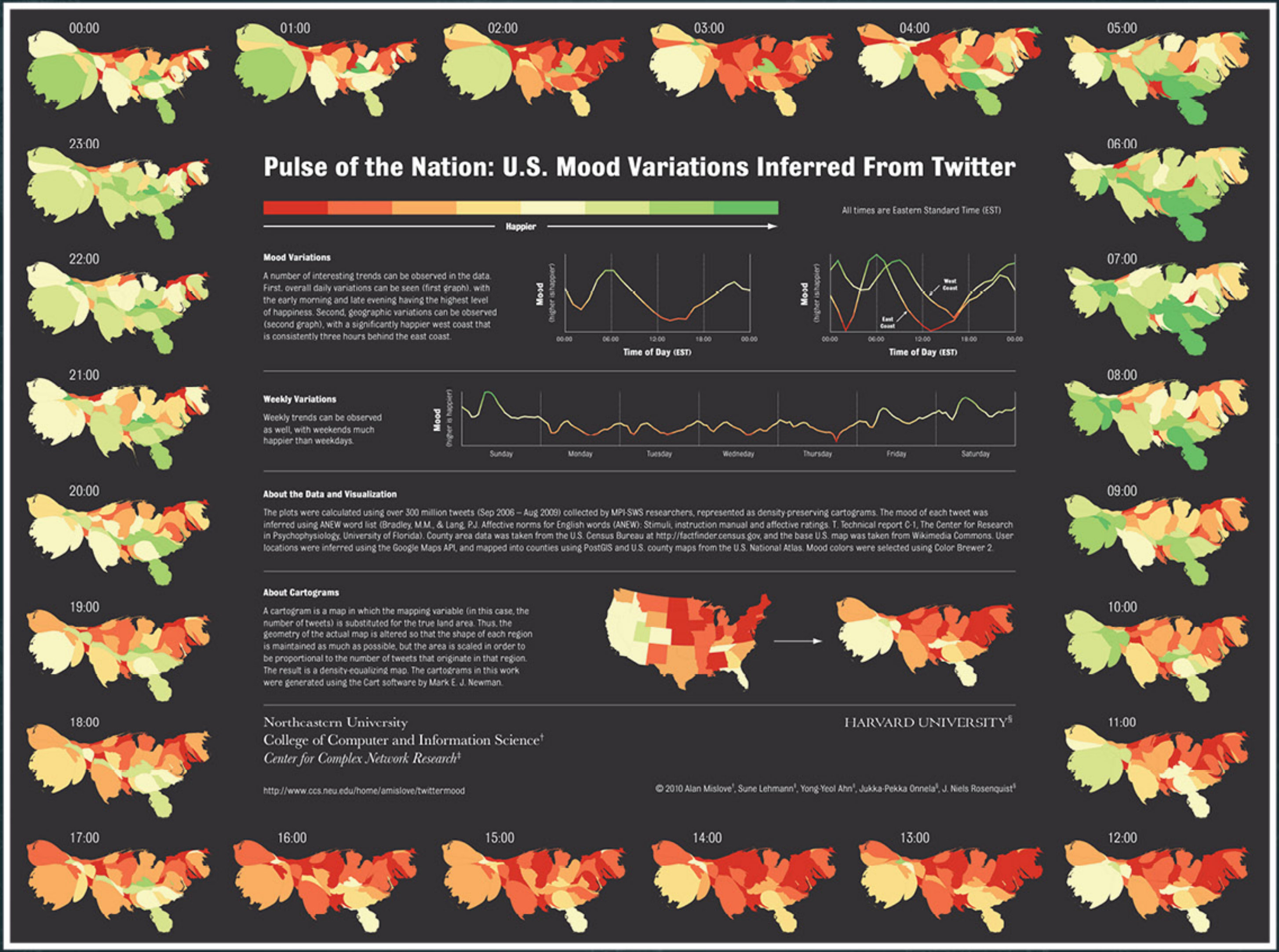
Clickstream Map of Science, by Johan Bollen, Herbert Van de Sompel, Aric Hagberg, Luis M.A. Bettencourt, Ryan Chute, Marko A. Rodriguez, and Ludmila Balakireva

Mapping a Stream of Data

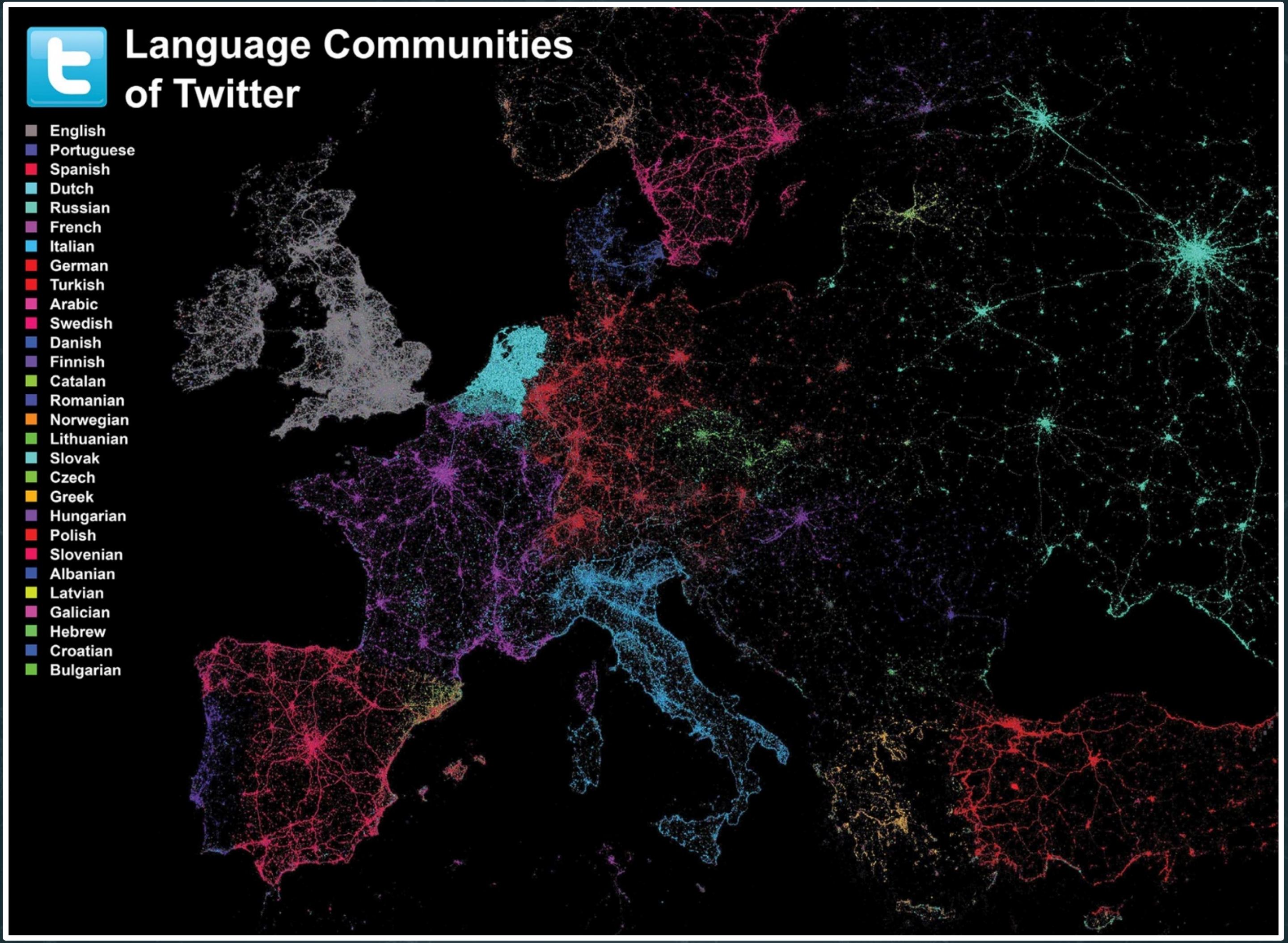


Mobile Landscapes, by Carlo Ratti, Riccardo Maria Pulselli, Sarah Williams

Could you convey the collective "mood" of Twitter users with just text? Maybe—but it would take pages and pages to convey the same insights this map does in seconds.



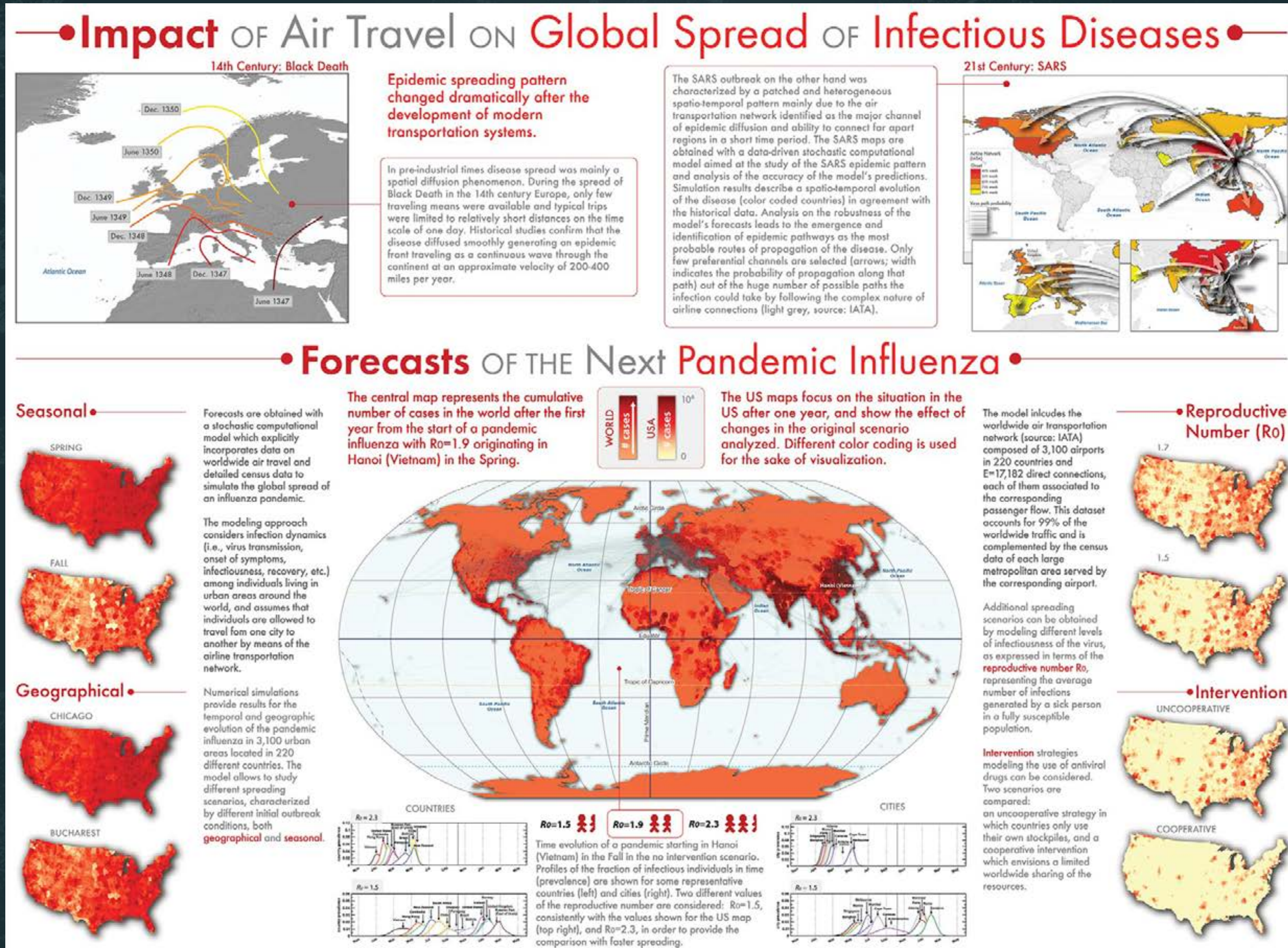
Pulse of the Nation, by Alan Mislove, Sune Lehmann, Yong-Yeol Ahn, Jukka-Pekka Onnela, and James Niels Rosenquist



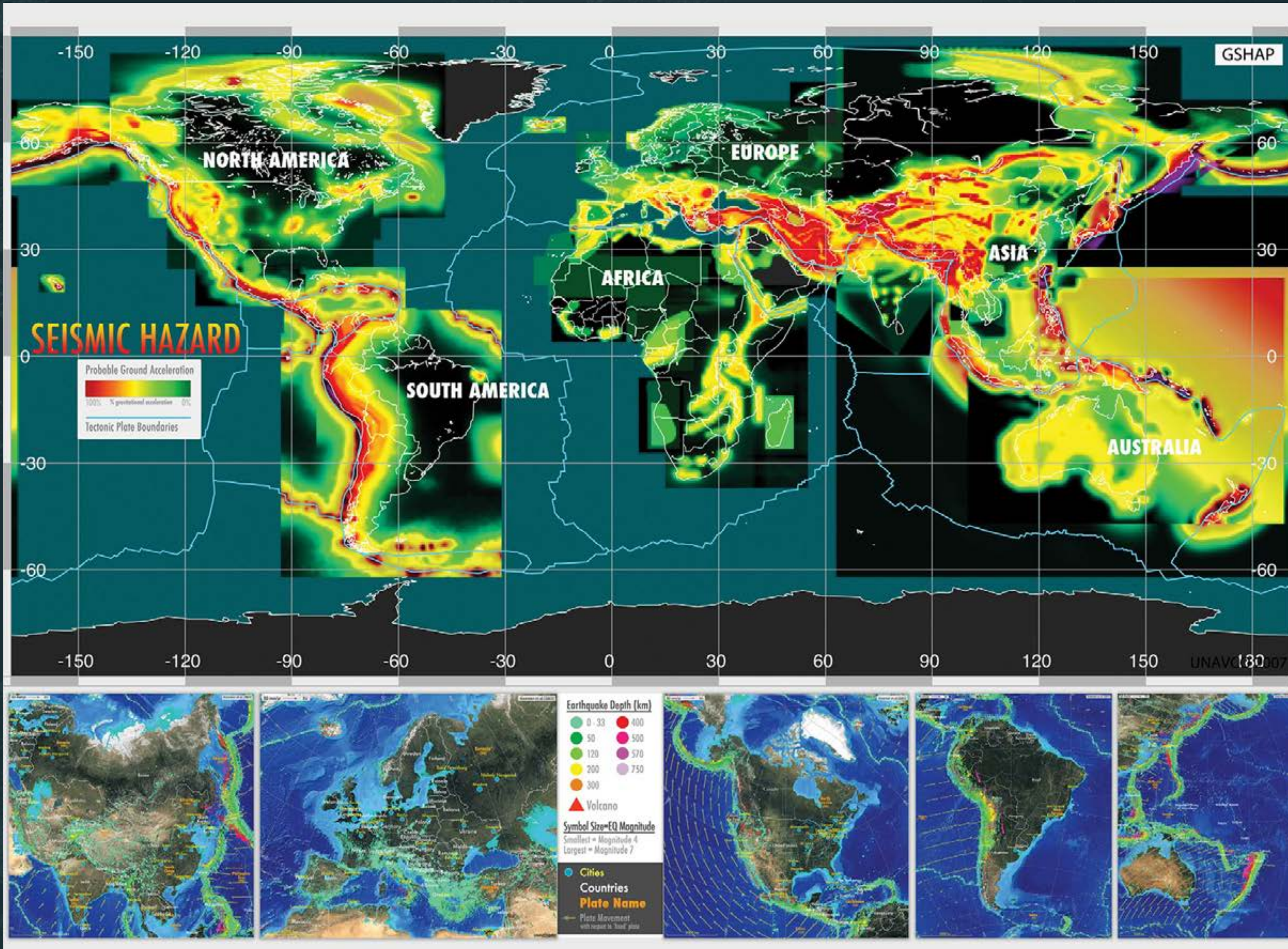
Language Communities of Twitter, by Eric Fischer

https://spreecommerce.com/blog/data-driven-decisions

Maps as Tools for Decision-making

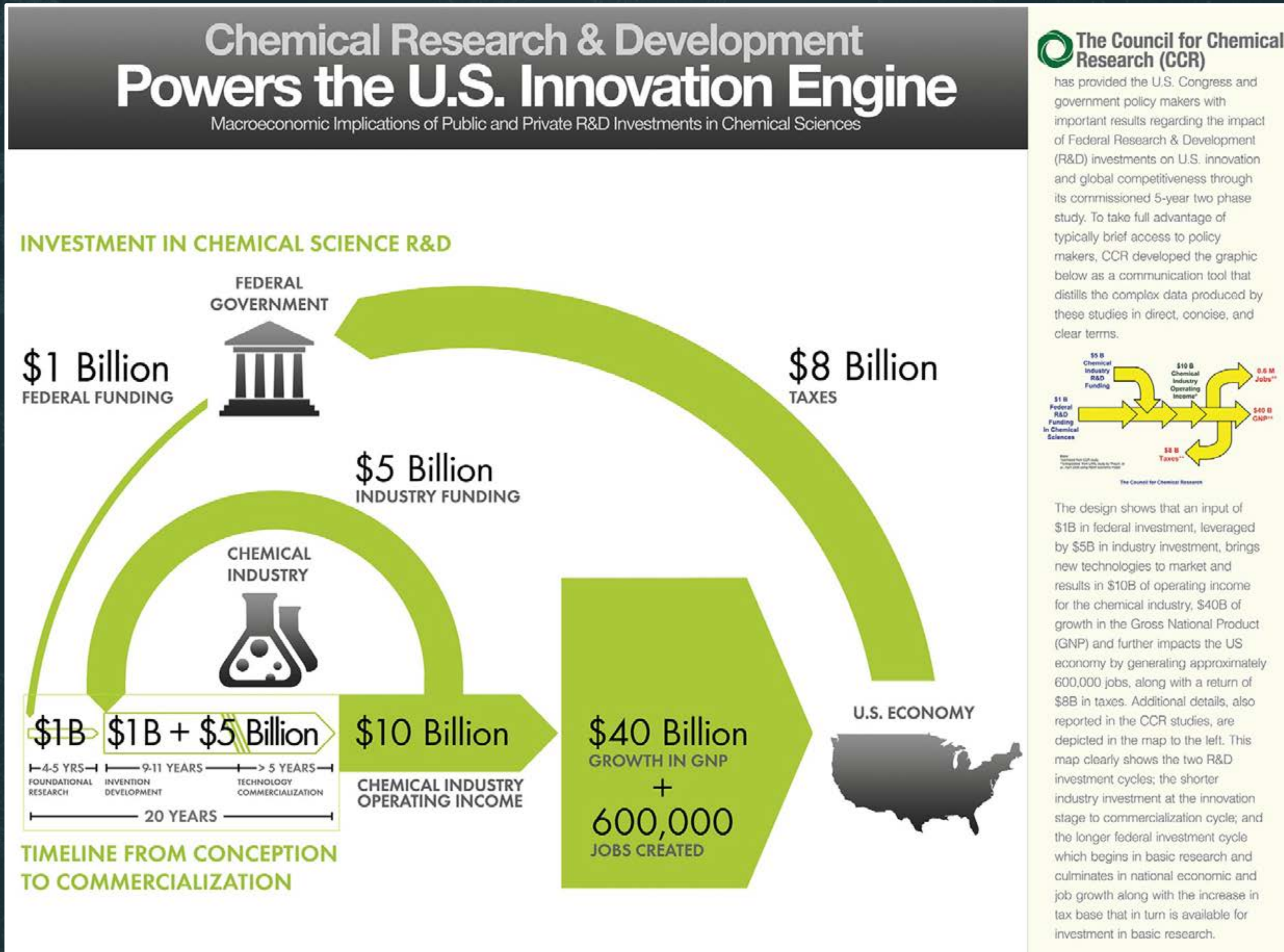


Impact of Air Travel on Global Spread of Infectious Diseases
by Vittoria Colizza, Alessandro Vespignani, and Elisha F. H. Allgood



Tectonic Movements and Earthquake Hazard Predictions

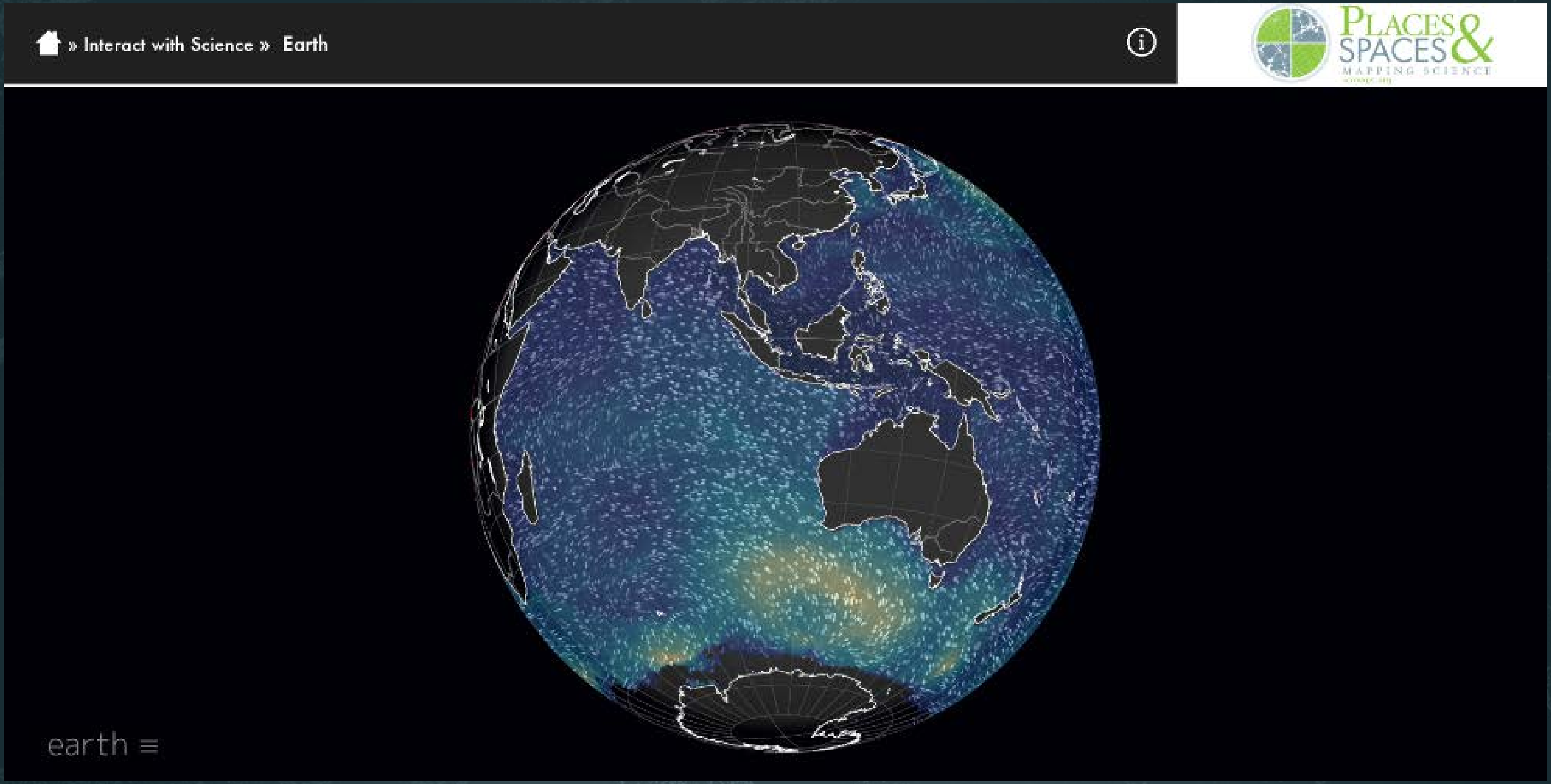
by Chuck Meertens, Elisha F. H. Allgood, Michael W. Hamburger, and Lou Estey



Chemical R & D Powers the U.S. Innovation Engine, by the Council for Chemical Research

Interactive Maps as Tools for Discovery

Interactive visualization on display at the CDC Museum in Atlanta.
Photo courtesy of Mike Jensen.



Earth

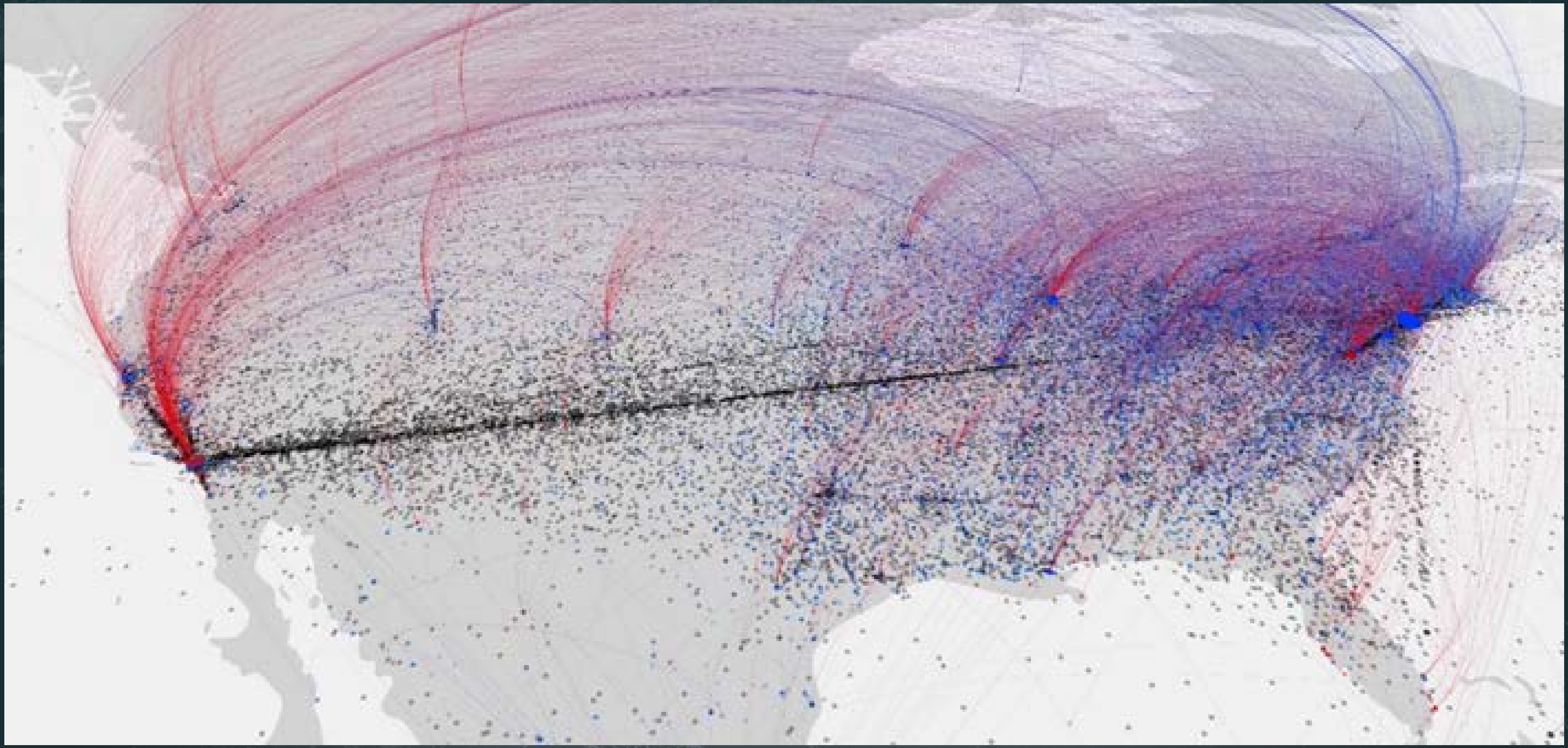
Cameron Beccario

earth.nullschool.net

Mapping Global News

Kalev Leetaru

gdeltproject.org



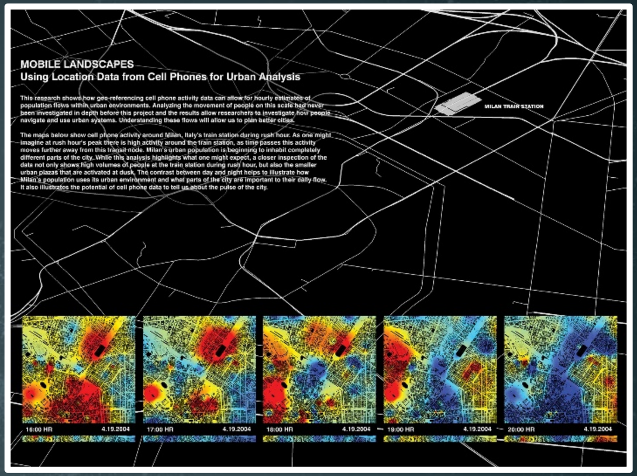
Charting Culture

Maximilian Schich and Mauro Martino

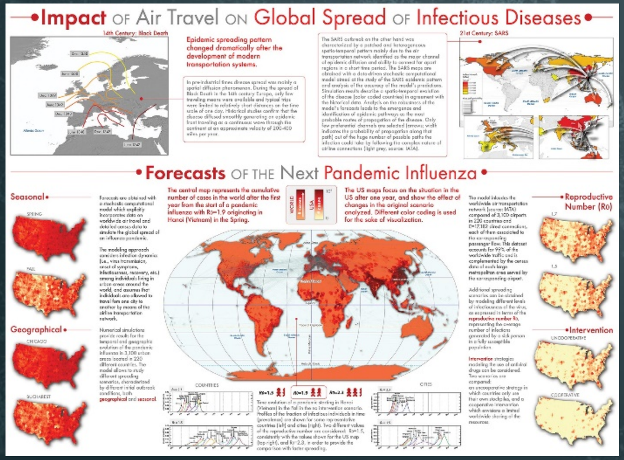
cultsci.net

Science Maps . . .

help us navigate



help us see patterns in data



help us decide

help us discover

IVMOOC

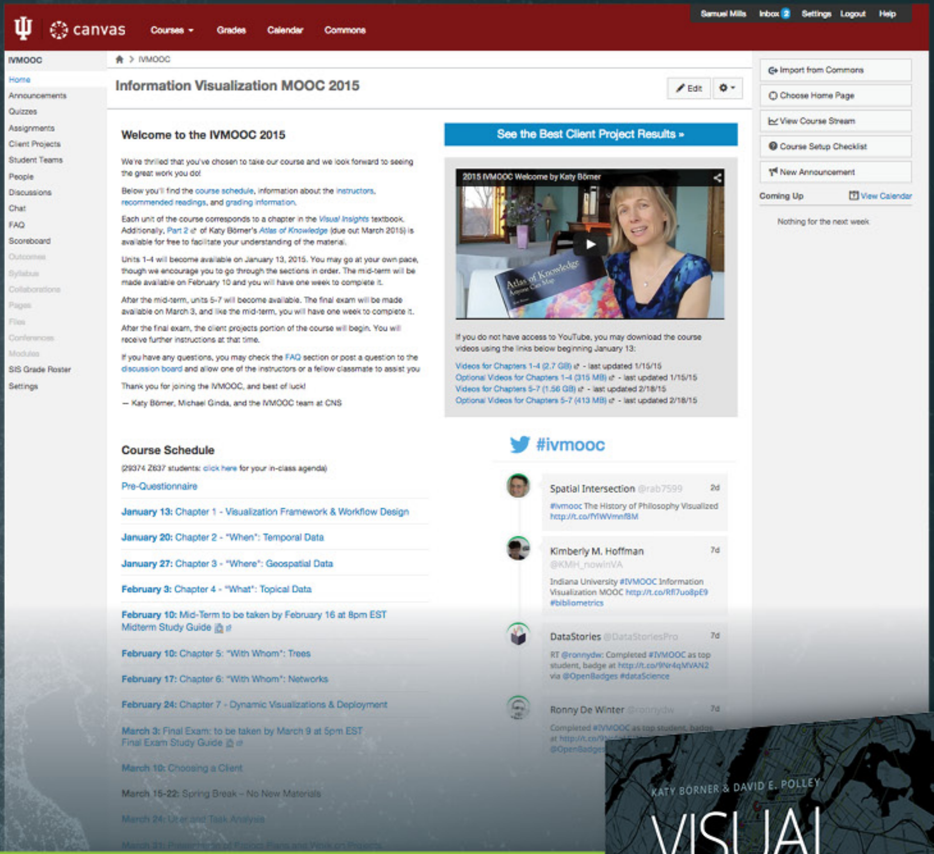
Information Visualization MOOC

The Information Visualization MOOC provides an overview about the state of the art in information visualization, teaching the process of producing effective visualizations that take the needs of users into account.

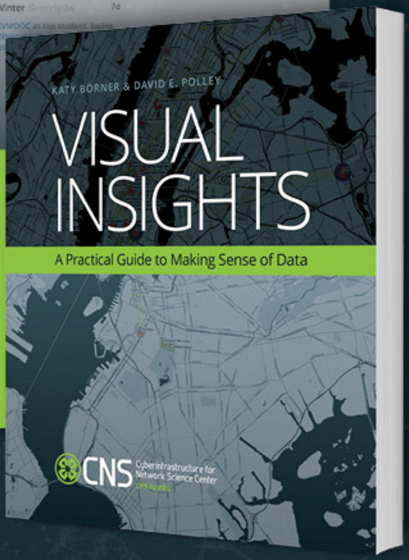
The inaugural IVMOOC, which launched in January 2013, attracted participants from more than 100 countries. It is one of the first MOOCs offered by IU and the first to offer an opportunity for students to work in teams with real clients. All registrants gain free access to the Scholarly Database and the Sci2 Tool.

The course can be taken for three Indiana University credits as part of the Online Data Science Program offered by the School of Informatics and Computing.

The course will return in January 2016. Learn more at ivmooc.cns.iu.edu.



This IVMOOC companion textbook offers a gentle introduction to the design of insightful visualizations. It seamlessly blends theory and practice, giving readers both the theoretical foundation and the practical skills necessary to render data into insights.



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recorde@indiana.edu
www.scimaps.org