

Mapping Science Exhibit – 10 Iterations in 10 years

http://scimaps.org/

The Power of Maps (2005)



The Power of Reference Systems (2006)



The Power of Forecasts (2007)



Science Maps for Economic Decision Makers (2008)



Science Maps for Science Policy Makers (2009)



Science Maps for Scholars (2010)

Science Maps as Visual Interfaces to Digital Libraries (2011)

Science Maps for Kids (2012) Science Forecasts (2013)

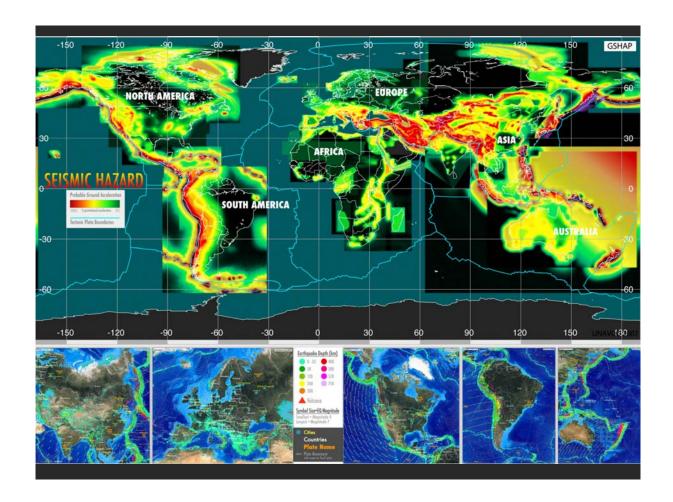
How to Lie with Science Maps (2014)

Exhibit has been shown in 72 venues on four continents. Currently at

- NSF 10th Floor 4201 Wilson Boulevard Arlington VA
- Center of Advanced European Studies and Research, Bonn, Germany
- Science Train, Germany
- Cultural Dimensions of Innovation, UCD Conference, Dublin, Ireland







■Impact OF Air Travel ON Global Spread OF Infectious Diseases



Epidemic spreading pattern changed dramatically after the development of modern transportation systems.

The SARS outbreak on the other hand was characterized by a patched and historogeneous characterized by a patched and historogeneous characterized by a patched and historogeneous characterized by the patched and analysis of the accessory of the model's predictions. Simulation results describe a spotio-temporal evolution of the disease (core code) content in agreement with the biotycial data. Analysis on the rabustness of the disease (core code) contents in agreement with the biotycial data. Analysis on the rabustness of the disease (core code) contents as the most probable rootes of propagation of the disease. Only few preferential chamsile are selected (arrow; with indicates the probability of propagation data grate and patched contents are probable) of propagation data patched and patched contents are probable and propagation along that indicates the probability of propagation doing that preference of the propagation along that preference and the propagation along that preference and the propagation along that preference and the propagation along that



• Forecasts OF THE Next Pandemic Influenza •



Forecasts are obtained with a stochastic computational model which explicitly incorporates data on worldwide air travel and detailed census data to simulate the global pread of an influenza pandemic.

The modeling approach considers infection dynamics [i.e., which transmission, onset of symptoms, infectiousness, recovery, etc. among individuals living in urban areas around the world, and assumes that individuals are ollowed to travel fam one dity to another by means of the strike transportation

Numerical simulations provide results for the temporal and geographic evolution of the ponders influence in 3,100 whom areas located in 220 different countries. The model althous to study different spreading scenarios, characterized by different initial outbre conditions, both



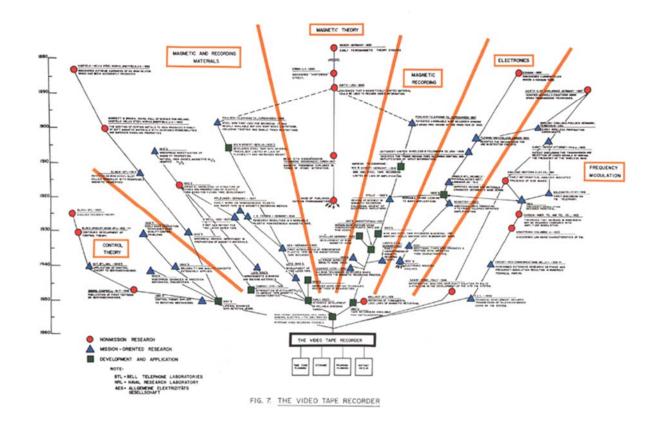
The model stockes the working of the transportation returned to continuous the transportation returned to continuous the transportation of the transportation of the transportation of the corresponding possenger flow. This dataset accounts for the transportation of the corresponding possenger flow. This dataset accounts for the transportation of the transportation of the transportation of the transportation of such large metropolition over as served by the centure of the transportation over a served by the corresponding disport.

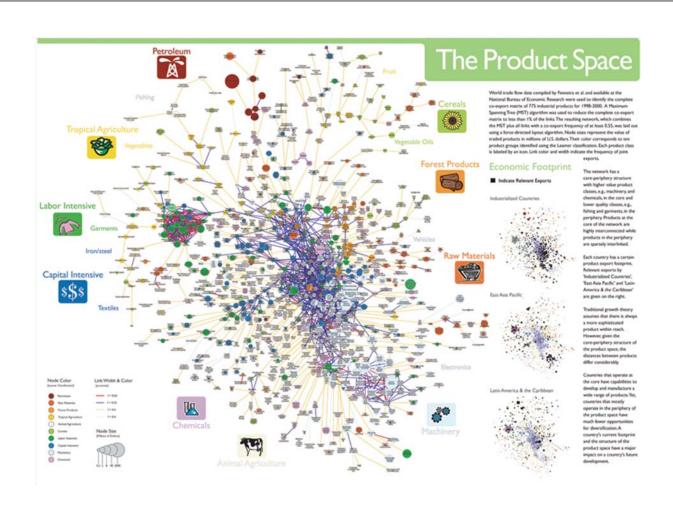
Additional spreading connarios can be obtained by modeling different levels of infectiousness of the virus, as expressed in herms of the virus, as expressed in herms of the sproductive number Ro, expresseding the overage number of infections generated by a sick person o a fully susceptible

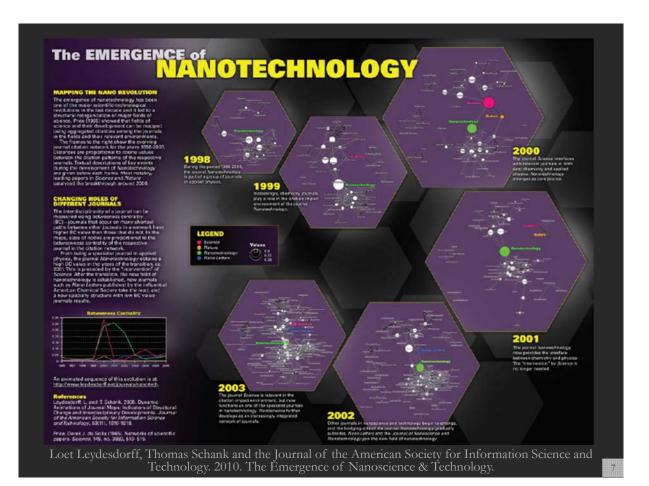
Intervention strategies modeling the use of anti-inal drugs can be annishmed. If we compared to compared: Inva contrain one compared: an uncooperative strategy in which countries only use their own stockpiles, and a cooperative intervention which envisions a limited worldwide sharing of the

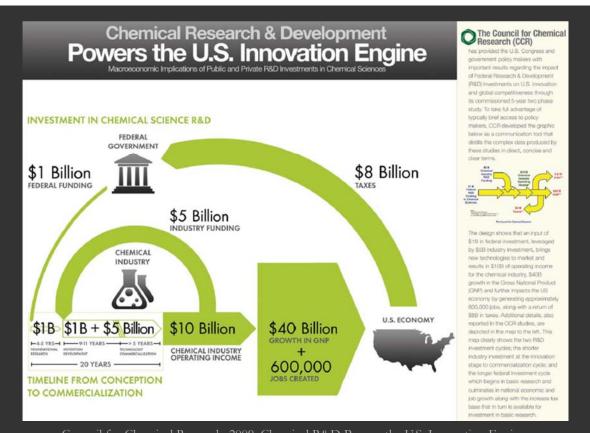


Reproductive















Debut of 5th Iteration of the Mapping Science Exhibit at MEDIA X was in 2009 at Wallenberg Hall, Stanford University, http://mediax.stanford.edu, http://scaleindependentthought.typepad.com/photos/scimaps



Science Maps in "Expedition Zukunft" science train visiting 62 cities in 7 months, 12 coaches, 300 m long. Opening was on April 23rd, 2009 by German Chancellor Merkel, http://www.expedition-zukunft.de

11