

The Use and Importance of Geospatial Data in Geographically-Integrated History



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Geographically-Integrated History

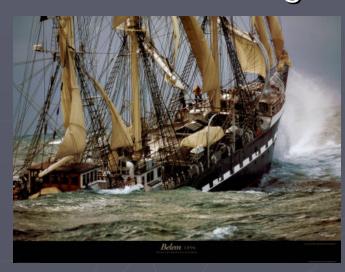
As a research and teaching discipline, *Geographically-Integrated History* is founded on the idea that (1) the understanding of historical processes requires an integration of place, space, and time and (2) accomplishing this integration poses a challenge that can be met with modern information management and visualization techniques.

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Application

- History of any place is shaped by the way the place is connected to other places & the changes in these connections over time
- ✓ Historical periods are complex, dynamic, nonlinear systems, which are spatially large, & in more recent centuries, global in extension, and which sometimes become unstable, leading to phase transition, bifurcation, & organization of new systems
- ✓ Within such systems, people & places are connected by self-organizing networks, which are the sources of innovation & the emergence of new forms

"Dead reckoning"





DynCoopNet: Dynamic Complexity of Cooperation-Based Self-Organizing Commercial Networks in the First Global Age [1400-1800]



EUROCORES Programme

European Collaborative Research



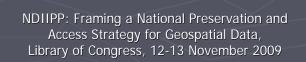


Understanding social networks within complex, nonlinear systems: geographically-integrated history and dynamics GIS [acronym: SOCNET]

National Science Foundation

Cyber-Enabled Discovery & Innovation

Office of Cyberinfrastructure \$1.7 million; 2009-2013 With May Yuan, University of Oklahoma



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A Virtual Research Organization

Dyn Coopliet See article in TECT brochure:

http://www.esf.org/activities/eurocores/programmes/tect.html

Graduate Program in Geographically-Integrated History [Internships]

M.A. in Historical Resources

Management

Ph.D. in Social and Environmental Dynamics

Idaho State University





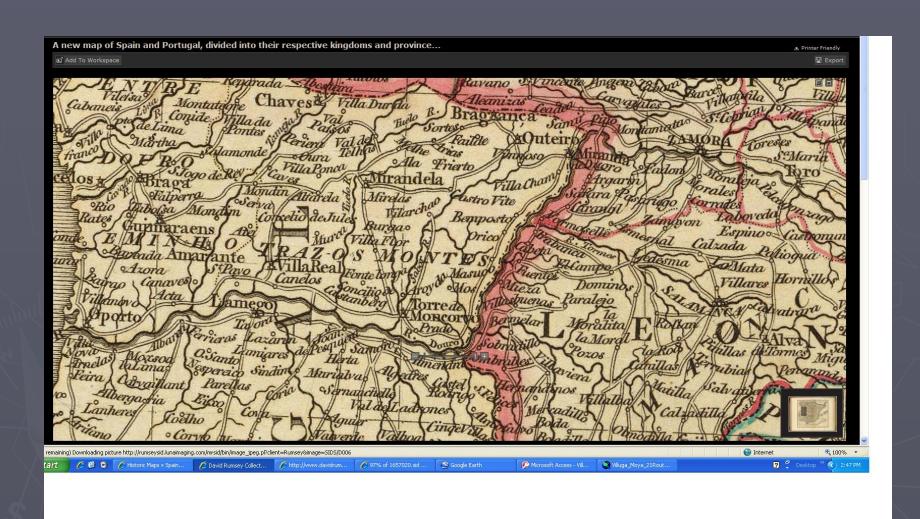
Ethics of Collaboration

http://idahostate.academia.edu/JBJackOwens

- Research infrastructure in History
- What is necessary to encourage collaboration in a discipline characterized by solitary research and publication?
- Shared, distributed data
- **▶** Joint publication of results
 - Who writes?
 - First author?
 - Author order?
 - Dissent?



Future Uses of Current Data Sources



Thank you for listening

And thanks to:



EUROCORES ProgrammeEuropean Collaborative Research









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