GEOSHARE and HUBZero: An Open Platform for Spatial Data Development and Analysis

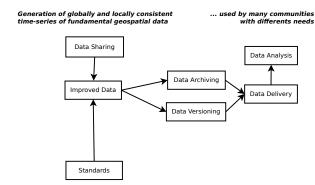
PURDUE

Nelson Villoria in collaboration with Thomas Hertel, Carol Song, Lan Zhao, Rajesh Kalyanam, and Jin Ryong Kim

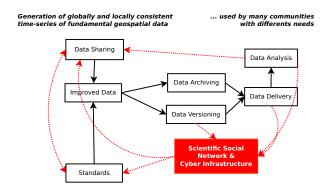
Center for Global Trade Analysis
Department of Agricultural Economics
Purdue University

March 12, 2013

The Challenge of GEOSHARE



Tackling GEOSHARE's Challenge

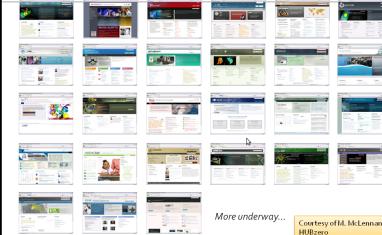


A HUBZero Cyber Infrastructure for GEOSHARE: Why?

- Created by the NSF-funded Network for Computational Nanotechnology (Over 255,000 users annualy, yesterday at noon, 27 live simultaneous simulations)
- Users create, publish and access interactive visualization, simulation, and other analytical tools powered by cluster computing resources
- Focus on education and capacity building
- Open Source

Usability –

HUBzero powering more than 30 hubs!



Status and next steps with GEOSHARE

- Currently in proof-of-concept phase with funding from DFID, DEFRA, USDA, CCAFS and Purdue involving
 - 2 global nodes (Bonn, McGill)
 - 2 regional nodes (IFPRI, IRRI)
- Engaging with stakeholders in several countries in Africa and South Asia
- Developing interoperable data bases on land cover, land use and poverty
- Undertaking 2 case studies on agriculture and poverty
- Developing capability of HUBZero cyber infrastructure to facilitate interactions (Nelson will present this)