

Ilya Zaslavsky

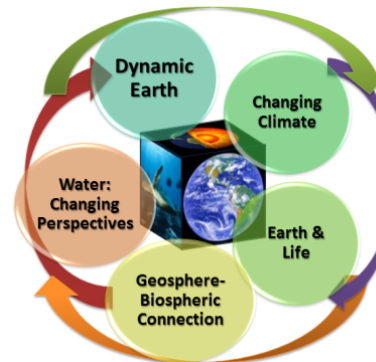
Director, Spatial Information Systems Lab
San Diego Supercomputer Center
University of California San Diego
USA

Co-Chair, WMO/OGC Hydrology Domain
Working Group

SDSC Spatial Information Systems Lab

- Services-based **spatial information integration** infrastructure
- Online and high performance **GIS** and **Geospatial Databases**
- **Standards:** leadership in OGC, authors of WaterML (adopted by USGS, NCDC, others)
- Innovative **user interfaces** for connecting people, projects, resources, models
- **Large distributed data systems** and catalogs, in several domains
- **Funding:** mostly NSF

Selected projects

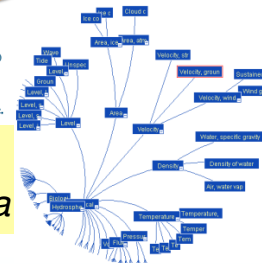


NSF EarthCube:

- Cross-Domain Interop
- Conceptual Design
- CINERGI (**C**ommunity **I**nventory of **E**arth**C**ube **R**esources for **G**eoscience **I**nteroperability)

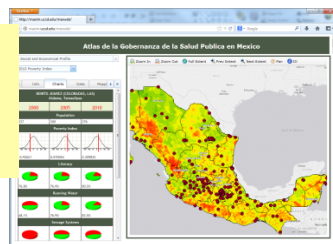
OGC®
Open Geospatial Consortium, Inc.

Semantics
of hydro data



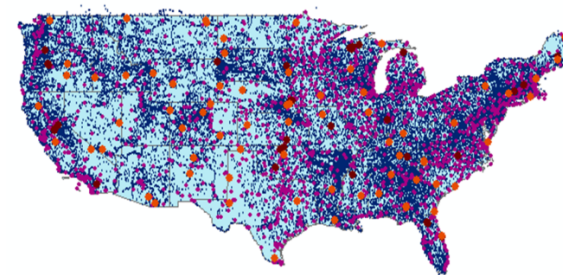
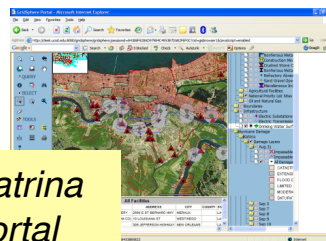
Critical
Zone
Observatories

Mexico
Health
Atlas

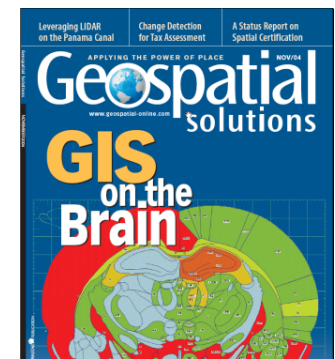


Ecosystem
Services
Dashboard

Katrina
portal



Hydrologic Information System
(largest water catalog in the
world)



Brain data integration

Contact: zaslavsk@sdsc.edu

Barriers, Expectations

Lack of formally defined information models, standard vocabularies, accessible and standards-based catalogs and data sources

Lack of feedback on what is working or not working - within defined research scenarios

The Lower Mekong is at the intersection of interests of many stakeholders: we shall understand their needs and research workflows, and explore meaningful collaborations