

# Spatial Data Infrastructure



**Sustainable Infrastructure:  
Start with Geomatics**

**Friday, October 30, 2009  
4:15-5:45 PM**

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# National Spatial Data Infrastructure (NSDI)



The vision of the NSDI: to assure that spatial data from multiple sources (Federal, State, and local governments, academia, and the private sector) are widely available and easily integrated to enhance knowledge and understanding of our physical and cultural world.



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## Federal Geographic Data Committee (FGDC)



- A US Federal interagency committee responsible for facilitating geospatial related activities and implementation of the NSDI across the Federal government
- Cooperate and coordinate with organizations from state, local and tribal governments, the academic community, and the private sector
- Created by revision to OMB Circular A-16



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## Spatial Data Infrastructure

- Access
  - Metadata
  - Clearinghouse
  - Catalog Services
- Standards
- Partnerships
- Framework
  - Geodetic Control
  - Cadastral Data
  - Governmental Units
  - Transportation
  - Hydrography
  - Elevation
  - Ortho-imagery



## Framework: Ortho-imagery

- Complete national coverage of 1-meter orthoimagery; 1-foot true color orthoimagery in the 133 urban areas; also includes high resolution imagery in coastal areas and other selected areas

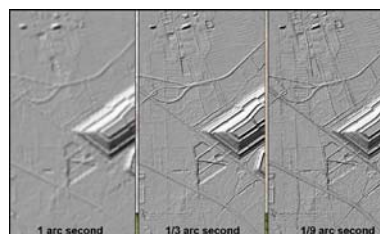


<http://seamless.usgs.gov/>



## Framework: Elevation Data

- Complete national coverage of 30-meter resolution elevation data; substantial progress toward 10-meter or better national elevation coverage



125th Anniversary of the USGS Topographic Mapping Program  
To Congress on December 5, 1884, USGS Director, John Wesley Powell:  
*A Government cannot do any scientific work of more value to the people at large than by causing the construction of proper topographic maps of the country*



### Demonstration Projects

- FGDC Cooperative Agreements Program
- US/Canada Cross Border SDI Projects
- Jeff Harrison: Cross Border Critical Infrastructure Project

### Global Spatial Data Infrastructure

- Small grants
- GSDI 11 Conference
  - 80 Nations
  - 1200 participants
- [www.gsdi.org](http://www.gsdi.org)

