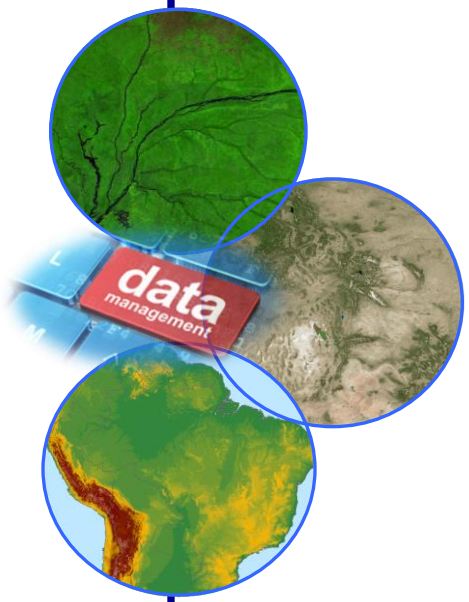
My Journey with Data



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ORNL DAAC
DISTRIBUTED ACTIVE ARCHIVE CENTER FOR BIOGEOCHEMICAL DYNAMICS

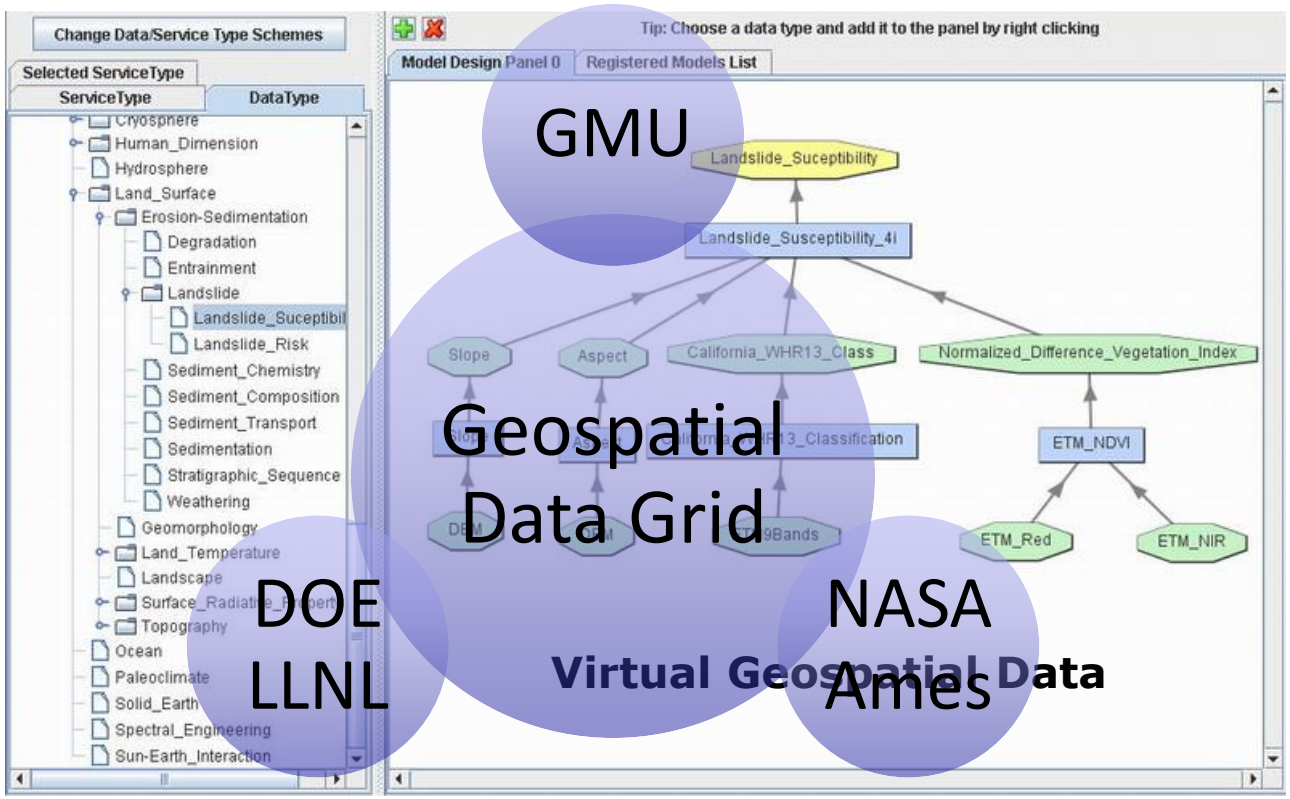
CLIMATE CHANGE SCIENCE INSTITUTE
OAK RIDGE NATIONAL LABORATORY

My First Data Project

Courtesy of Google and www.lafayette.edu

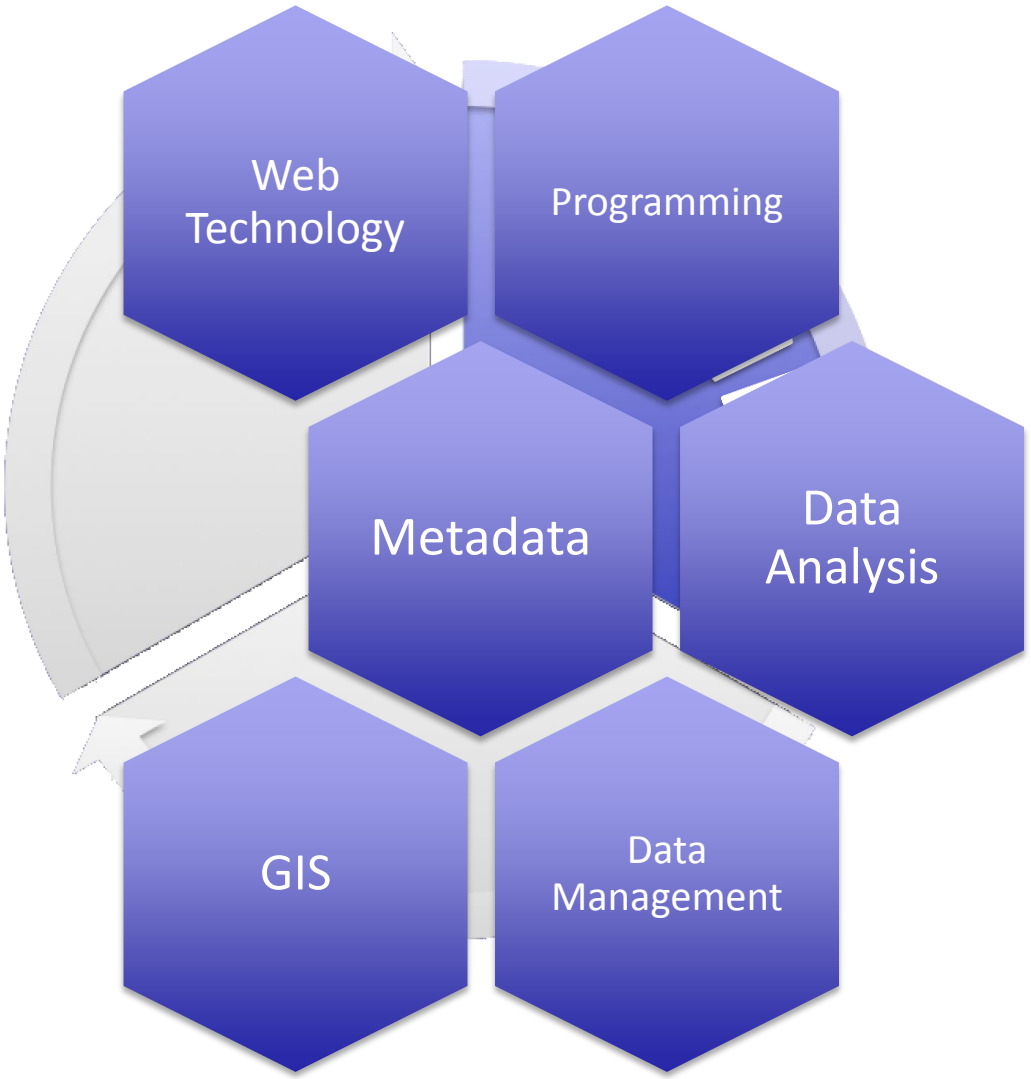
Research on Geospatial Data Grid

- NASA Earth Observation Data
- Grid computing and Web technologies



Wei, Dissertation

Build Skills



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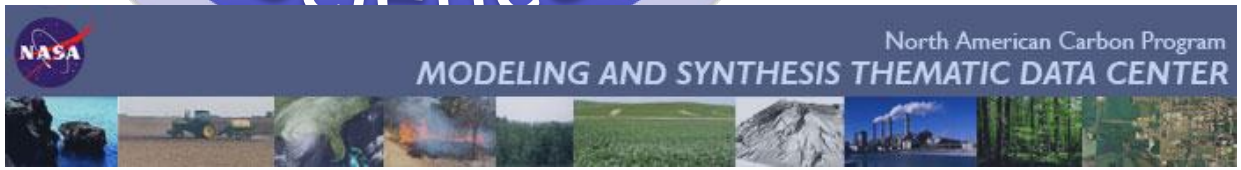
Engage with Science Communities

- North American Carbon Program Modeling and Synthesis Thematic Data Center (NACP MAST-DC)
  - Site-level Interim Synthesis
  - Regional and Continental Interim Synthesis
  - Mid-continent Intensive Interim Synthesis
  - Non-CO2 Greenhouse Gases
  - Coastal Interim Synthesis



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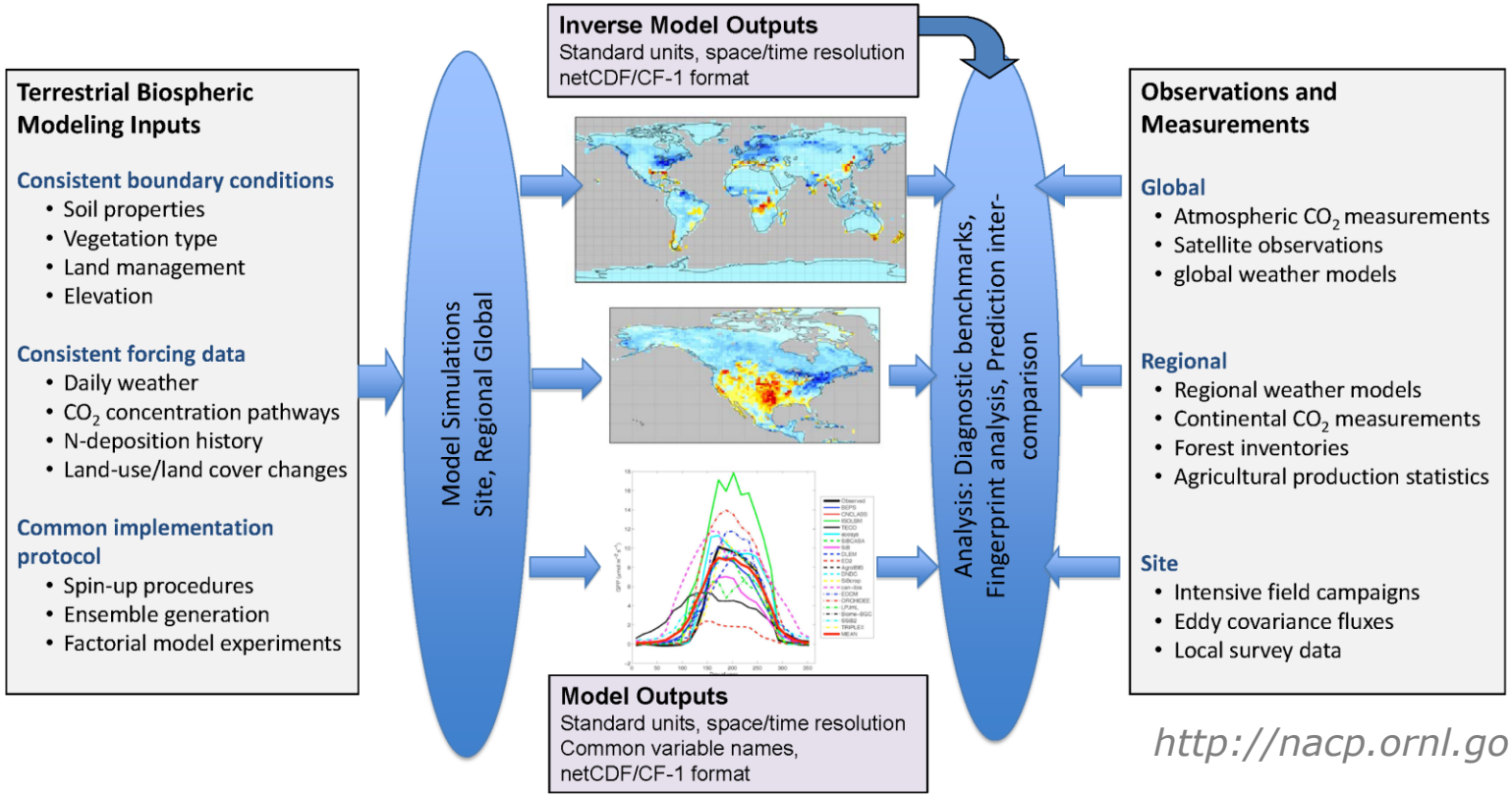
Engage with Science Communities

- NACP Multi-scale Synthesis and Terr… lo… rcomparison P… TI…



http://nacp.ornl.gov

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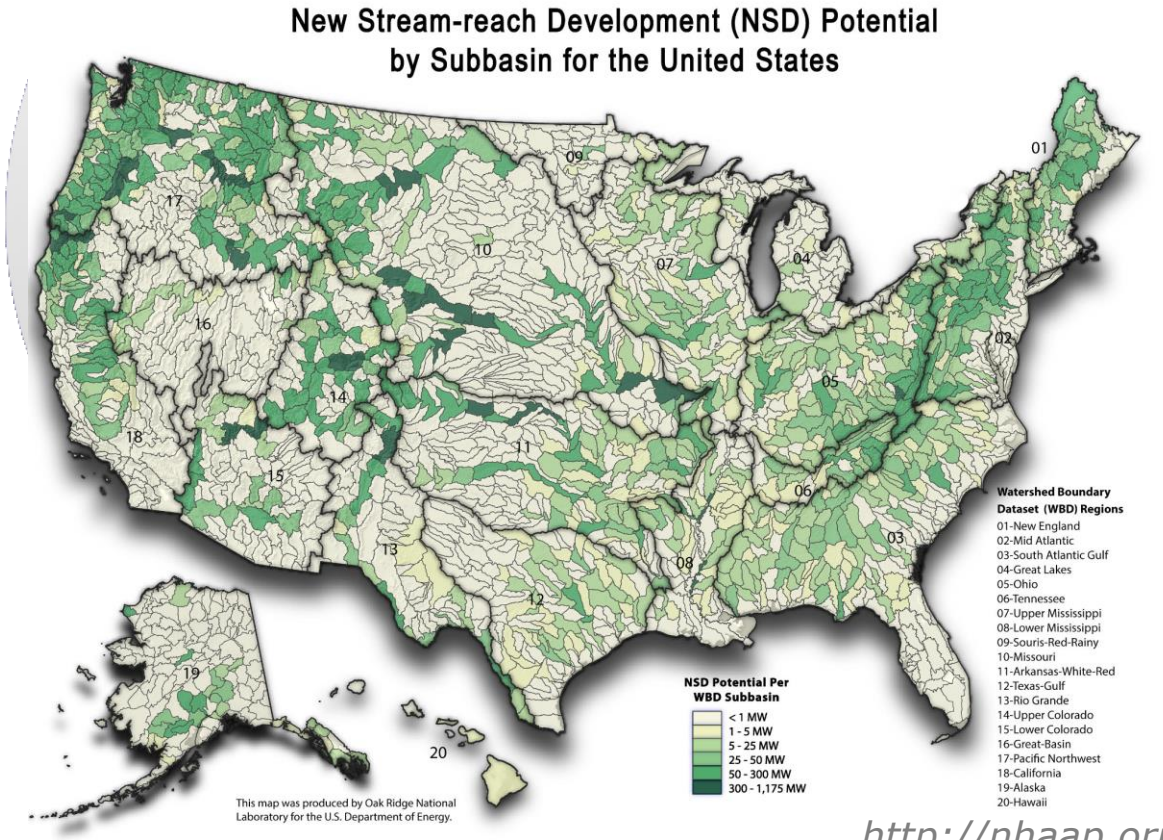
Engage with Science Communities

- National Hydropower Asset Assessment Program (NHAAP)



http://nhaap.ornl.gov

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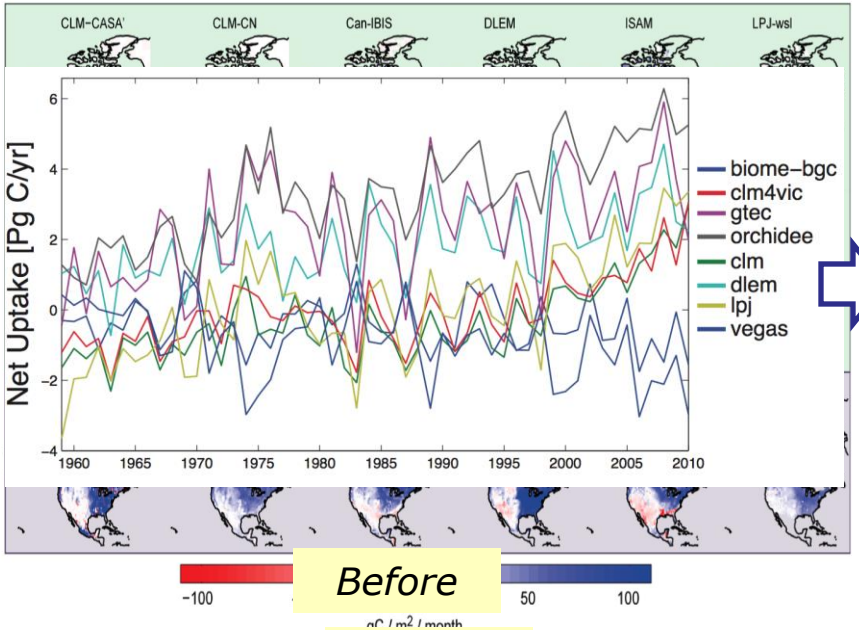
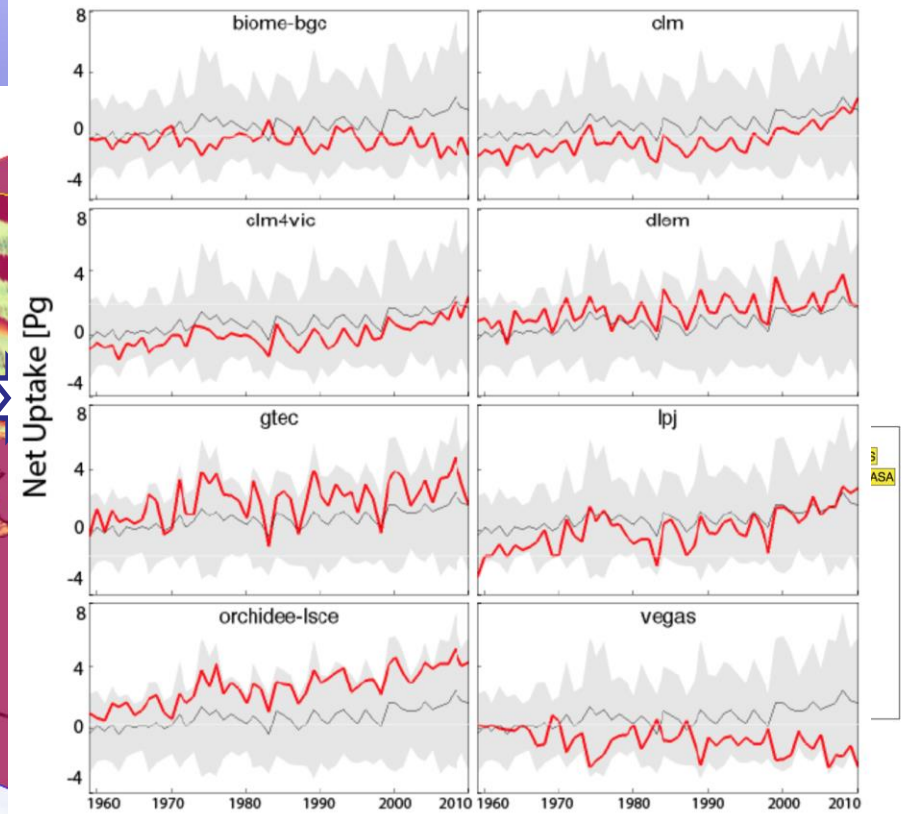
Innovation

- Data Visualization



Before

Before



After

Gross Primary Productivity
~/Dropbox/uvcdat/data MsTMIP/all_gpp.nc

Dasgupta et al., 2015

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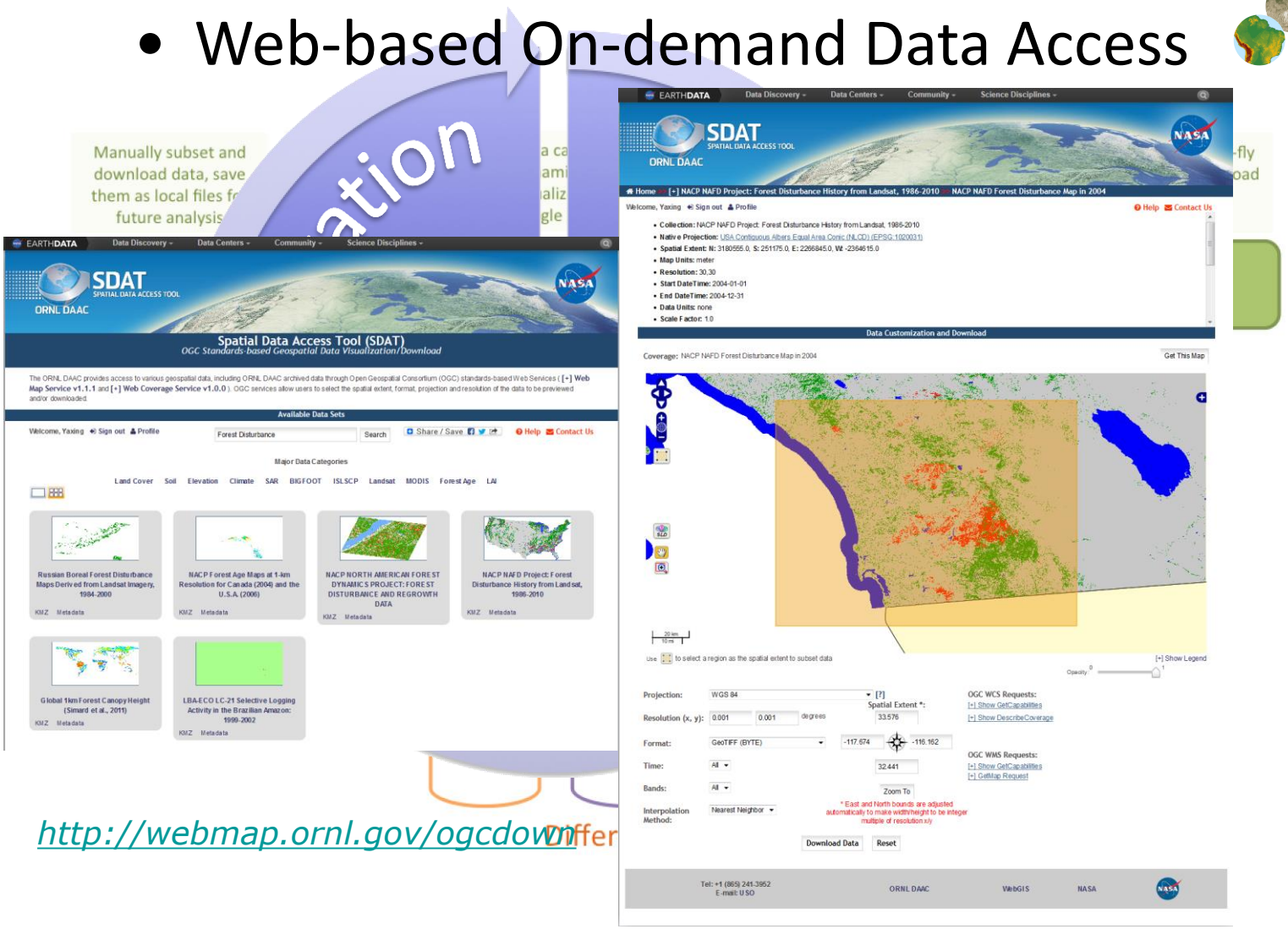
Innovation

- Web-based On-demand Data Access

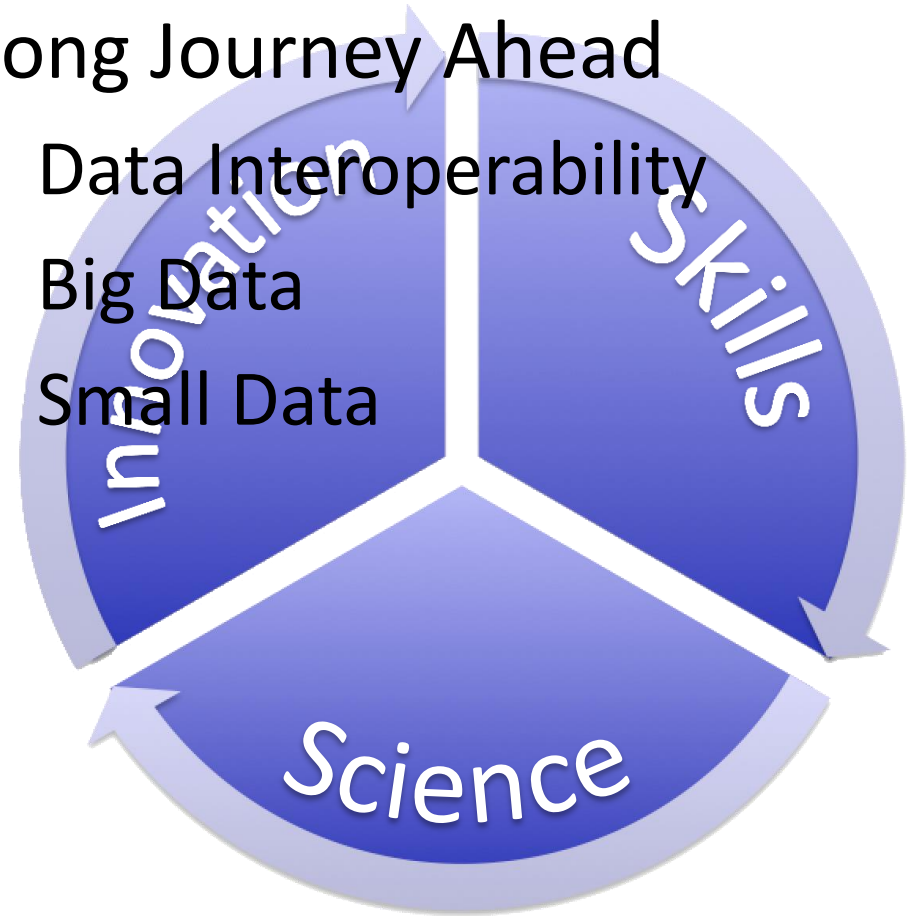


http://webmap.ornl.gov/ogcdown

Innovation

Long Journey Ahead

- Data Interoperability
- Big Data
- Small Data



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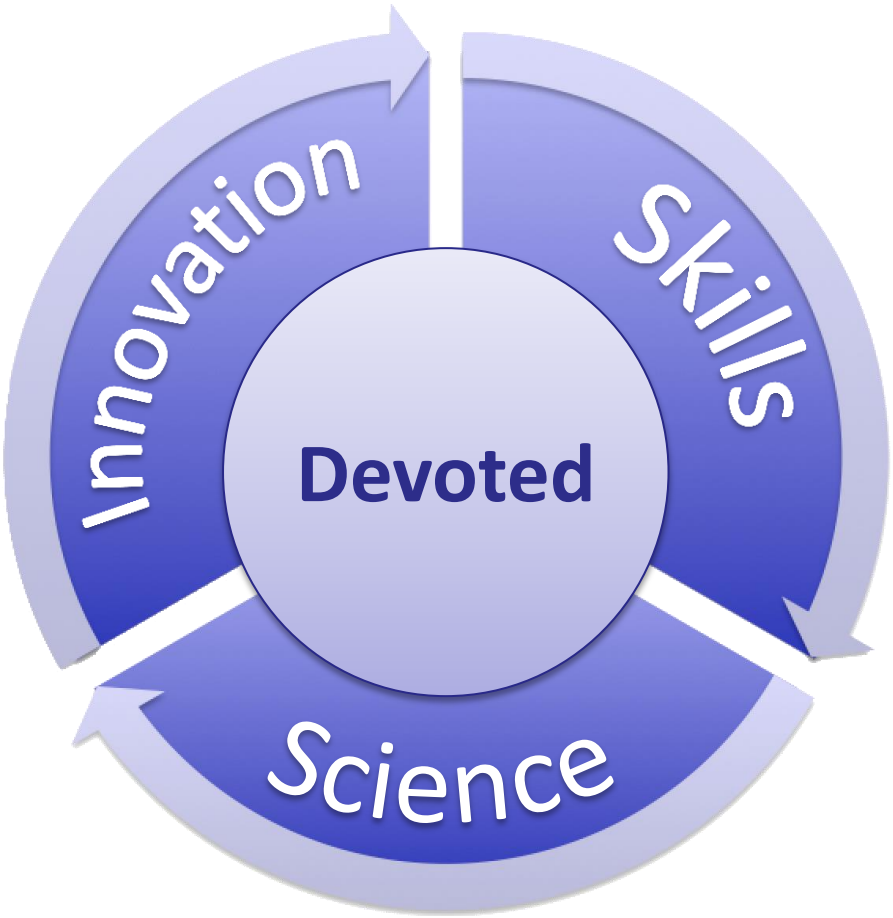
Most Important …



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Questions?

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