Visualization in VIVO:
A case study in how VIVO data and technology can be used

VIVO – A semantic web technology that enables collaboration and discovery among scientists across interdisciplinary networks

Coverage of different visualization levels
- **Macro**: International Researcher Network, Temporal Graph, Map of Science
- **Meso**: Temporal Graph, Map of Science
- **Micro**: Ego-Centric Network, Temporal graph

Visualizations for different entity layers
- **National layer** – Visualization of the adoption of National Researcher Networks at the international level and also their evolution through time
- **Institutional layer** – Analysis of the investments (funding), outputs (publications) and the disciplinary focus.
- **Individual layer** – Statistic and ego-centric scholarly networks on VIVO personal profile page

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Empower others to visualize VIVO data
- Existing Visualization data download in Graphml and CSV formats
- Provide data ready for analysis through visualization tools such as [Sci2](http://sci2.cns.iu.edu) and [Gephi](http://gephi.org)
  - Organization hierarchy data
  - Bimodal network of people-organizations
  - Bimodal network of people-funding awards
  - Bimodal network of people-publications
  - Bimodal network of people-courses
Temporal Analysis (When) Temporal visualizations of the number of papers / funding awarded at the institution, school, department, and people level

Topical Analysis (What) Science map overlays will show where a person, department, or university publishes most in the world of science.
Network Analysis (With Whom?)  Who is co-authoring, co-investigating, co-inventing with whom? What teams are most productive in what projects?

Geospatial Analysis (Where?)  Where are the various NRN instances and what data holdings do they have?  http://nrn.cns.iu.edu