

VIVO: Enabling National Networking of Scientists

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National Networking of Scientists

- What is it?
 - Information regarding scientists' interests, activities, and accomplishments
 - Scientists using software tools based on this information in new and existing collaborations and teams
- Why?
 - Support the acceleration of team science
 - Improve visibility (accuracy, currency, breadth) of information about science
 - Improve competitiveness
- How?
 - Institutionally hosted information provided and maintained by institutions and scientists
 - Facilitation and support through the libraries

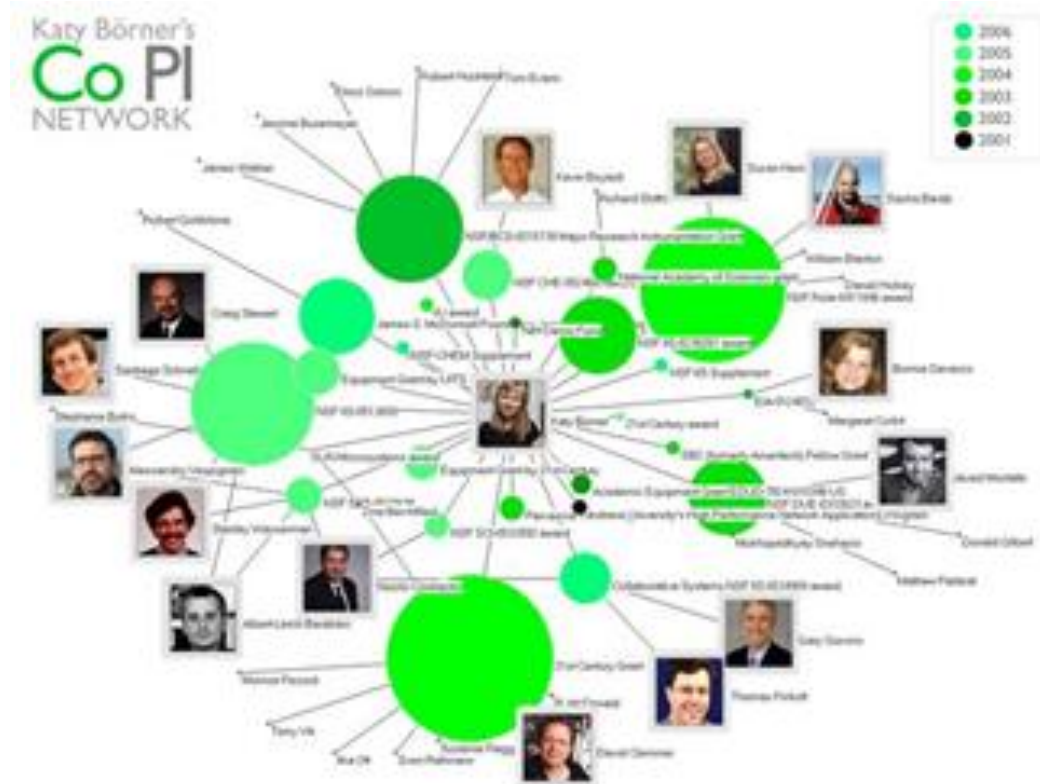
National Networking Team

- University of Florida, Gainesville, FL
- Cornell University, Ithaca, NY
- Indiana University, Bloomington, IN
- Washington University, St Louis, MO
- Weill-Cornell Medical College, NY, NY
- The Scripps Research Institute, La Jolla, CA
- Ponce Medical School, Ponce, PR



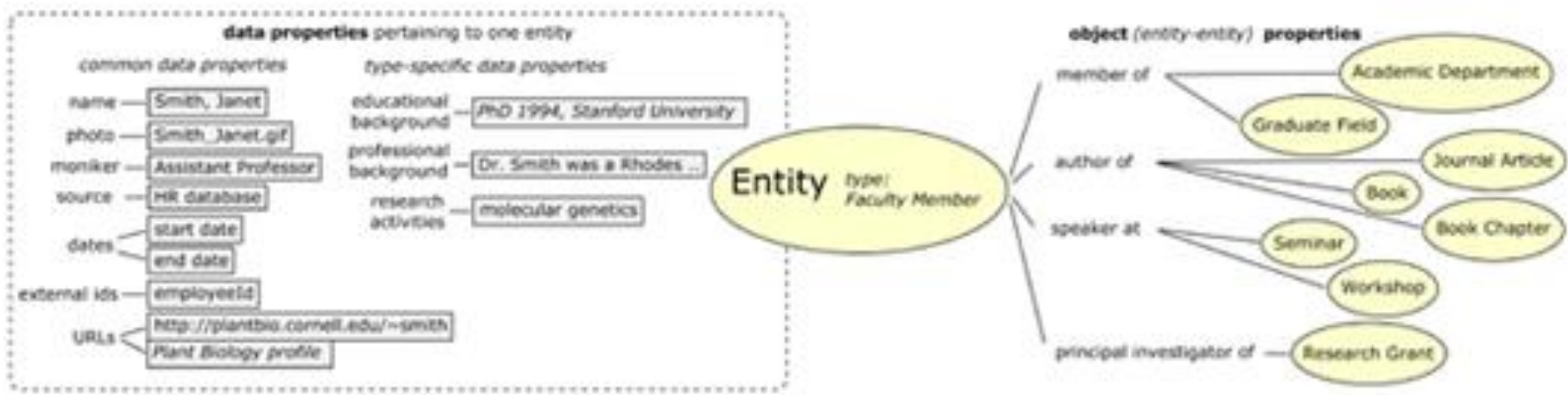
What will the National Network Do?

- Provide scientists' interests, activities and accomplishments
- Identify current work
- Find scientists with precision and veracity
- Group colleagues, maps, networks, lineages, publications, ...
- Support collaboration with existing and emerging tools
- Simplify reporting tasks
- Route information based on interests



Technology for the National Network

- Semantic Web
 - RDF, RDFS, OWL, SPARQL, ...
- Ontologies
 - FOAF, SKOS, MESH, ...
- Federated Identity Management
 - SAML 2.0, Shibboleth, ...
- Interoperability
 - Identity, Semantics, Applications



Institutional Role

- Authoritative data source
 - Identity Management
 - Employment
 - Scoping
- Hosting responsibility
- Institutional benefits
 - Precise information regarding activity
 - Reporting, response to requests, faculty benefits

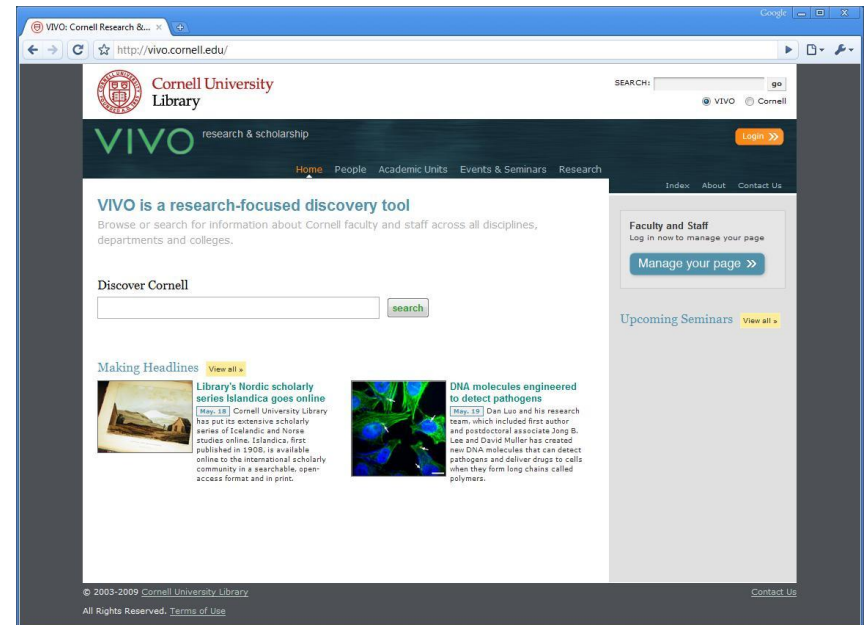
Collaboration and Coordination

Open engagement to foster national networking

- Resource Discovery
- Federal agencies – NIH, NSF, ...
- Search Providers – Google, Bing, Yahoo, ...
- Professional Societies – AAAS, ...
- Publishers – Elsevier, Springer, ...
- Semantic Web community – DERI, ...
- Consortia of schools – SURA, CTSA, CIC, ...
- Existing services – over 30

VIVO Roadmap for National Networking

- Developed at Cornell in 2004
 - Find faculty by interests, activities, accomplishments
- Release 1 to 7 schools now
 - Standard ontology
 - Local search
 - Application support
- Release 2, open adoption
 - Federated identity
 - Network search
 - Grouping, interfaces
- Release 3, national network
 - Most requested features



VIVO at Cornell: <http://vivo.cornell.edu>

Sustainability

- Information is institutionally hosted and maintained
- VIVO software is open source, community maintained
- National network applications can be commercial or open source
- Institutions may use commercial versions of VIVO or other platforms that provide data to the national network

Project Status

- **Development** Interfaces, packaging at UF, ontology and social networking at Indiana, semantic web, user experience at Cornell
- **Implementation** Cornell (existing), UF (underway), Indiana (11/2009), Washington U (11/2009), Weill (12/2009), Scripps (1/2010), Ponce (1/2010)
- **Outreach** Presentations, inquiries, collaboration
- **Governance** TAB, SAB, EAB
- **Evaluation** Plan complete, 1st report 1/2010
- **Contact** Mike Conlon, mconlon@ufl.edu