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](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
- **Outreach** Presentations, inquiries, collaboration
- **Governance** TAB, SAB, EAB
- **Evaluation** Plan complete, 1st report 1/2010
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