VIVO and the role of librarians part 1

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About me

https://vioil.github.io/

- Head of Cataloging & Metadata Services at Stony Brook University Libraries, July 2017 - present
- Head, Digital Systems and Collection Services - Northwestern University, Feinberg School of Medicine, Galter Health Sciences Library, Northwestern University Clinical and Translational Sciences Institute, November 2014 – July 2017
- Assistant Professor, Texas A&M University Libraries, February 2012 – October 2014
- Library Specialist I-III, Texas A&M University Libraries, November 2007 - February 2012

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Goals for today - part I

- Gain a deeper understanding of the VIVO semantic web platform.
- Learn how to find the right resources for a new VIVO implementation, including data sources, team members, governance models, and support structures.

Goals for part II

- Provide a valuable guide to best practices in modeling RDF data by utilizing data integration tools.
  - Ontology, SPARQL, and all that RDF jazz

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A brief history

2003-2005 Cornell created VIVO as a relational database for the life sciences

2006-2008 Cornell expanded to all disciplines and converted VIVO to Semantic Web application

2009-2012 VIVO was awarded a NIH grant

2013-2015 VIVO joins DuraSpace open-source portfolio preserving digital scholarship

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VIVO

An ***open-source semantic web application*** that enables the discovery of research and scholarship across disciplines in an institution.

VIVO harvests data from ***verified*** sources and offers ***detailed profiles*** of faculty and researchers.

Public, structured linked data about investigators interests, activities and accomplishments, and ***tools to use that data to advance science***.

VIVO enjoys a ***robust open community space*** to support implementation, adoption, & development efforts around the world.
See ***http://wiki.duraspace.org/display/VIVO***

VIVO is open

- Open source, open community, open data
- Flexible and customizable
- Enterprise application
- Authoritative, verified data

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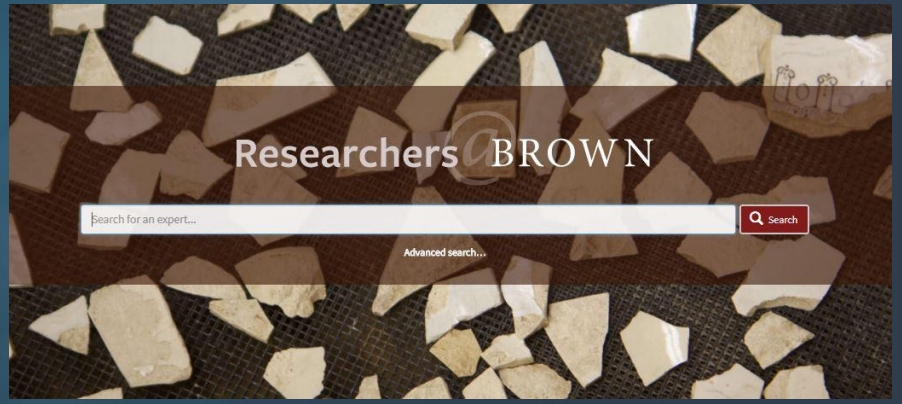
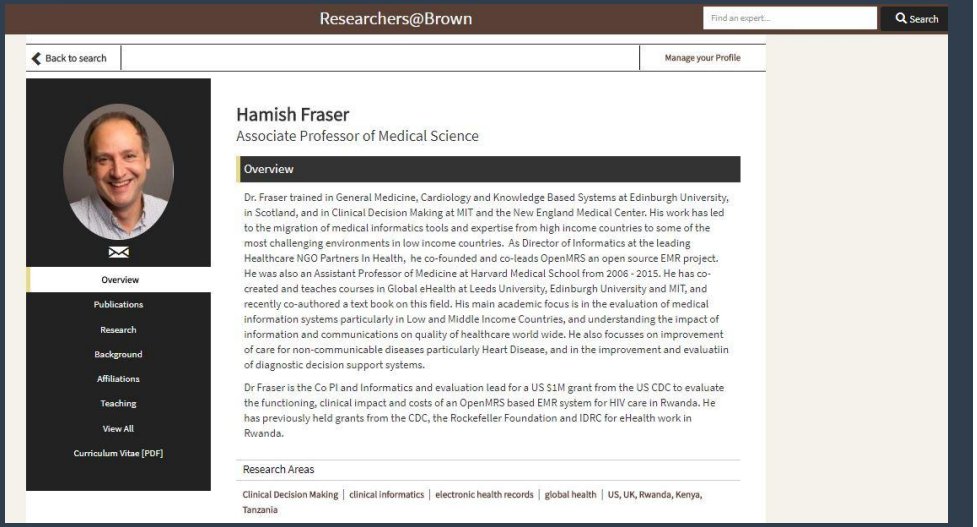
VIVO is about researchers

- Expert locator
- Public-facing web profiles





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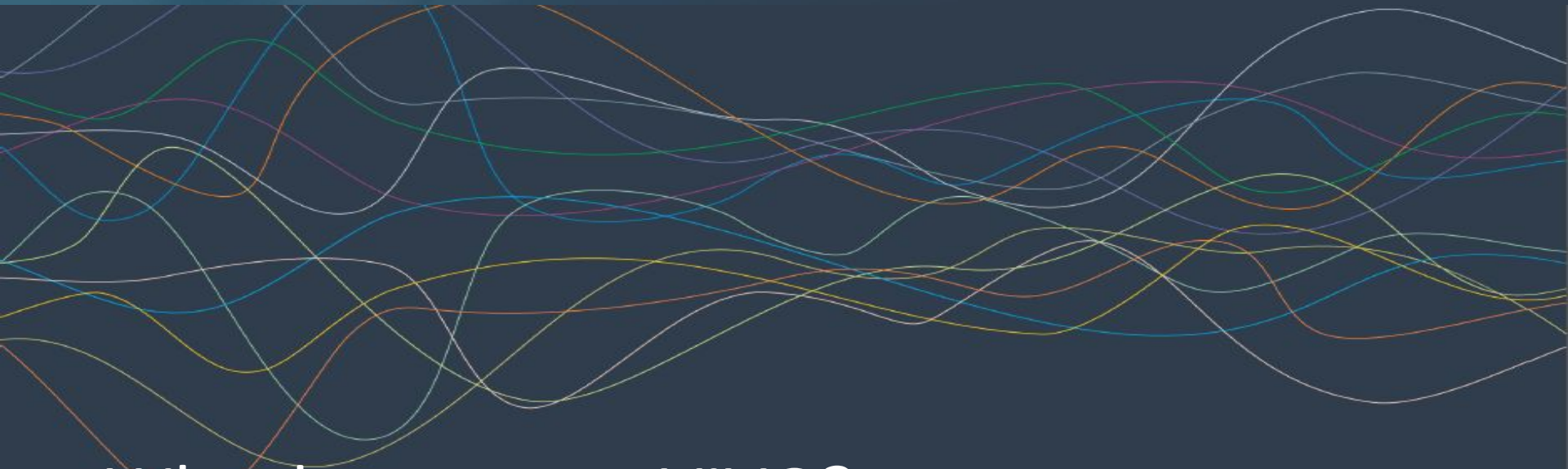
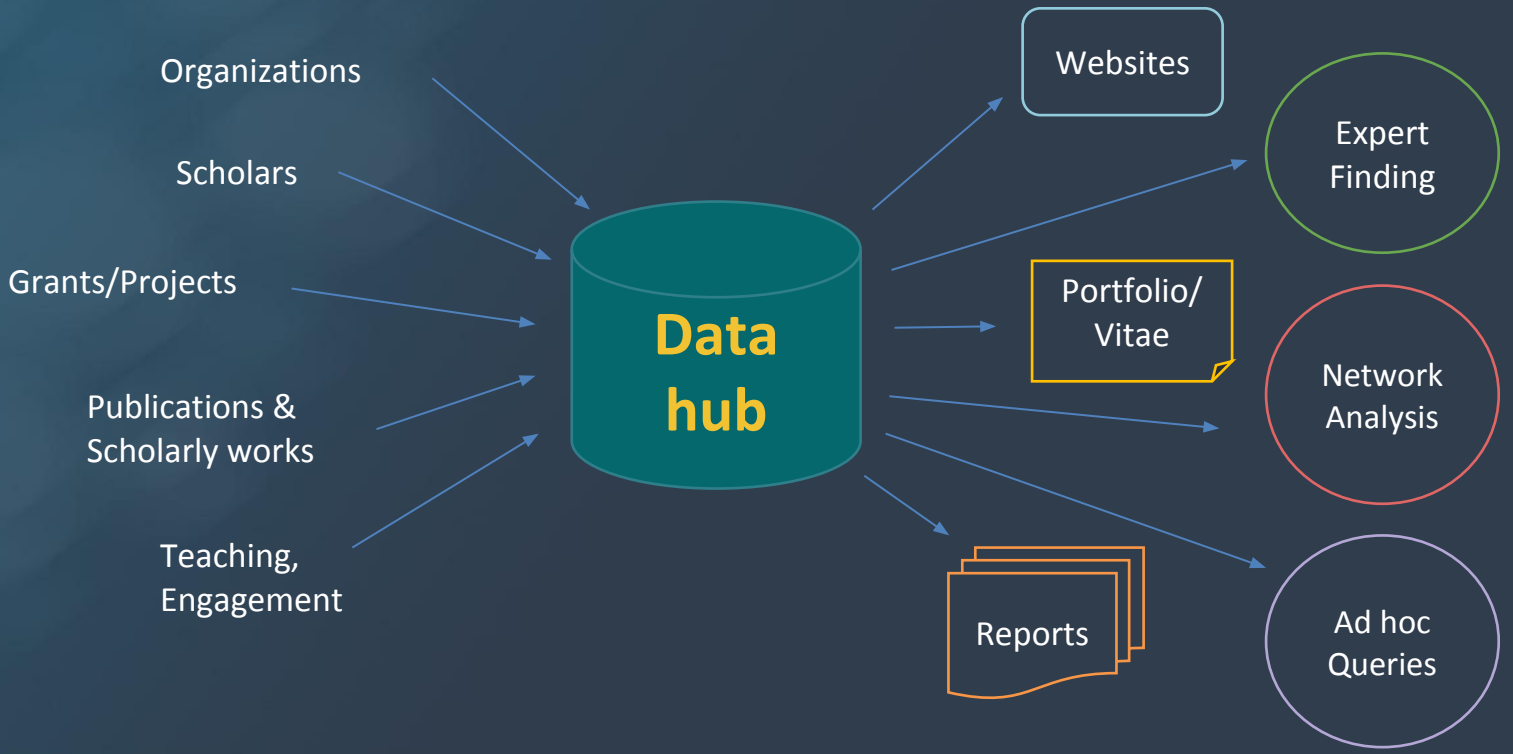


Why do we want VIVO?

Integrating institutional data



VIVO data is visualized

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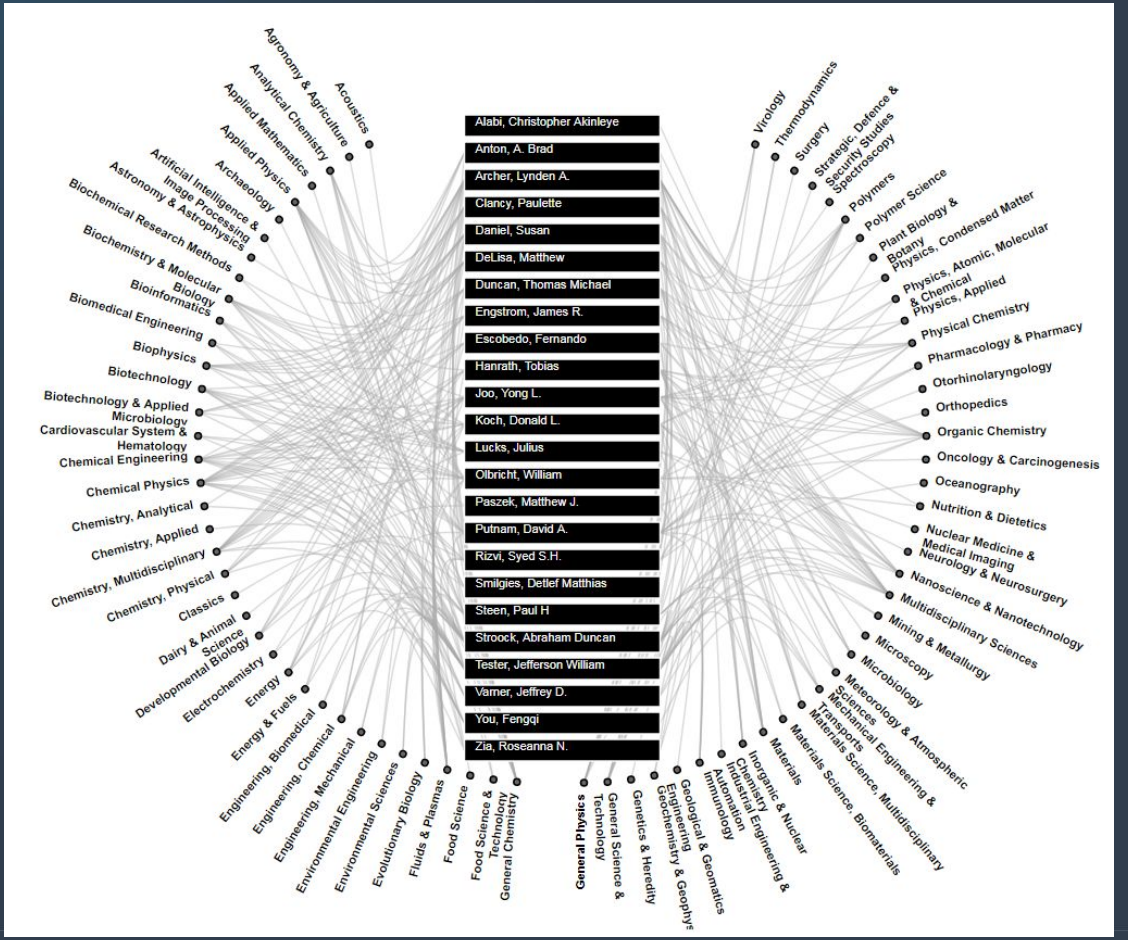

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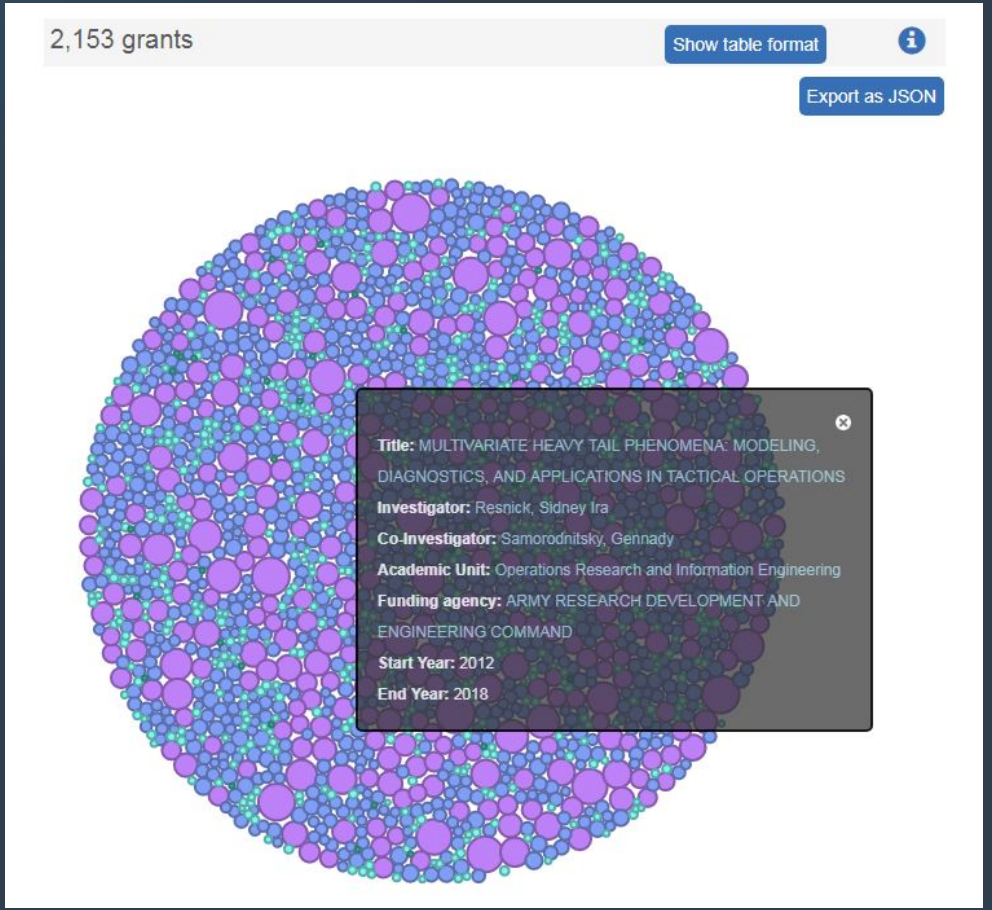
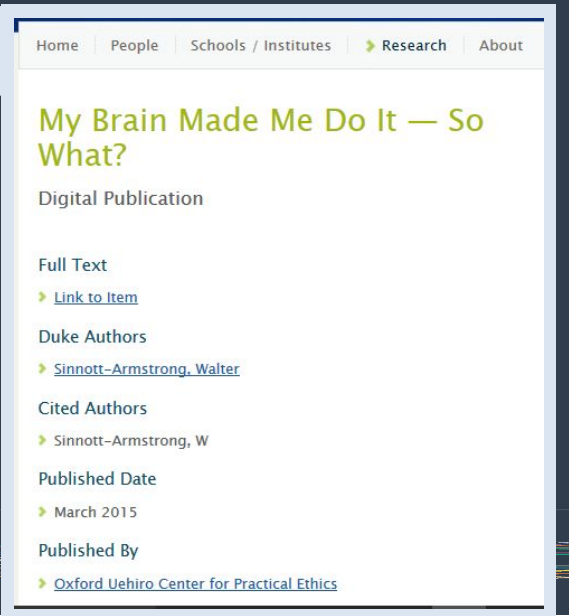


VIVO data is visualized

VIVO data is linked

Automatically links people to pubs, grants, collaborators--any data element

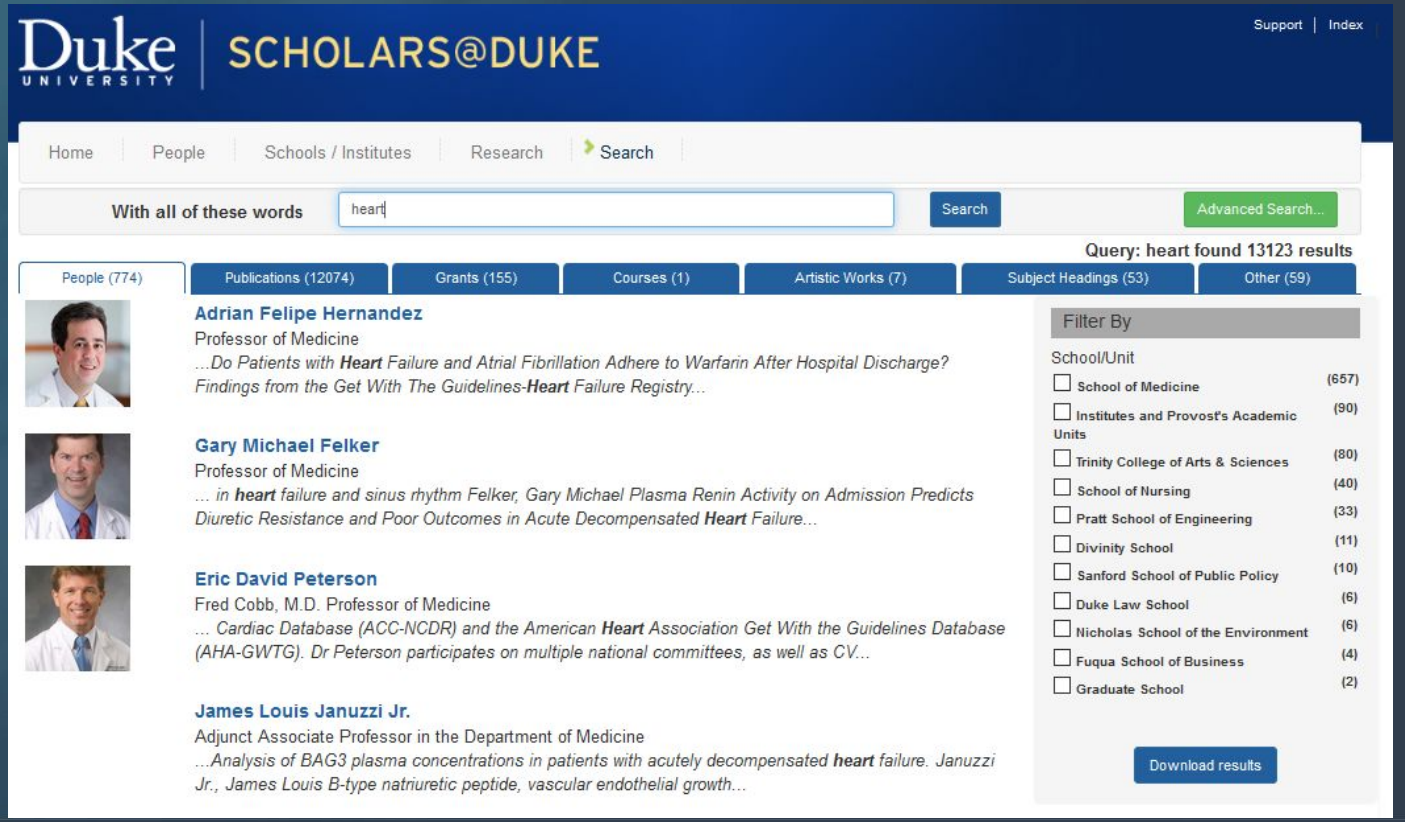


VIVO

VIVO can:

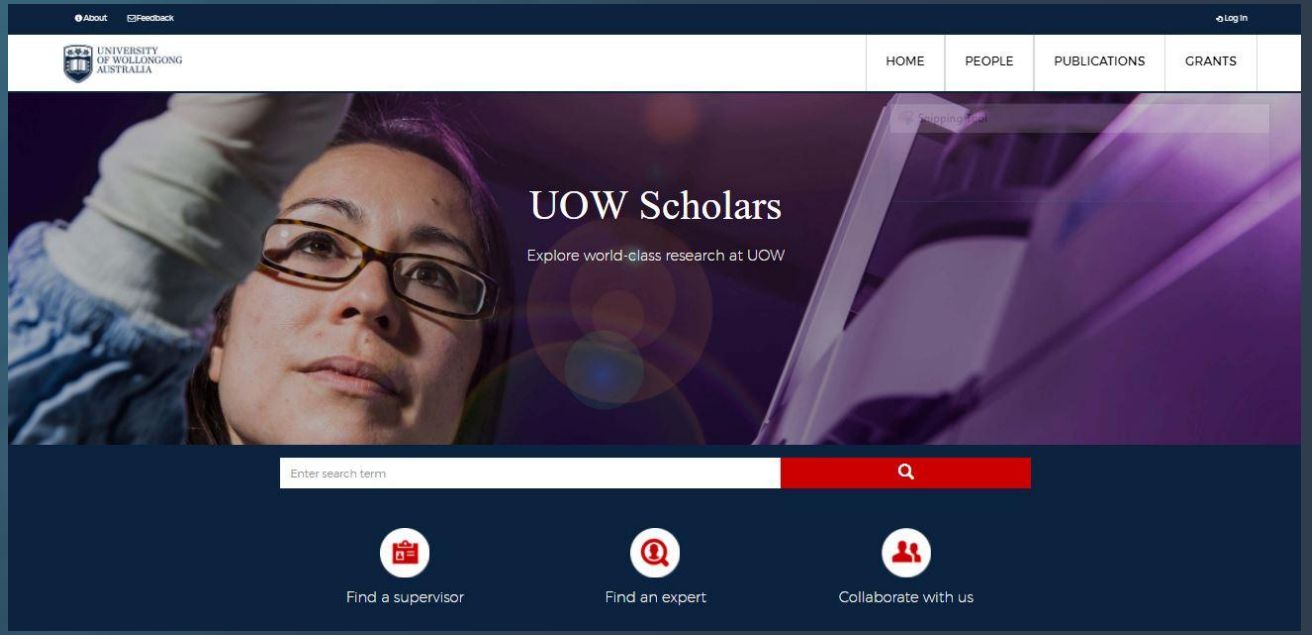
- Include researchers in all disciplines
- Be internationalized in many languages
- Consume data from ORCiD, Figshare, ...
- Be used on mobile devices

VIVO is customizable



Extended search

VIVO is customizable



Site tailored to finding experts

https://scholars.uow.edu.au/

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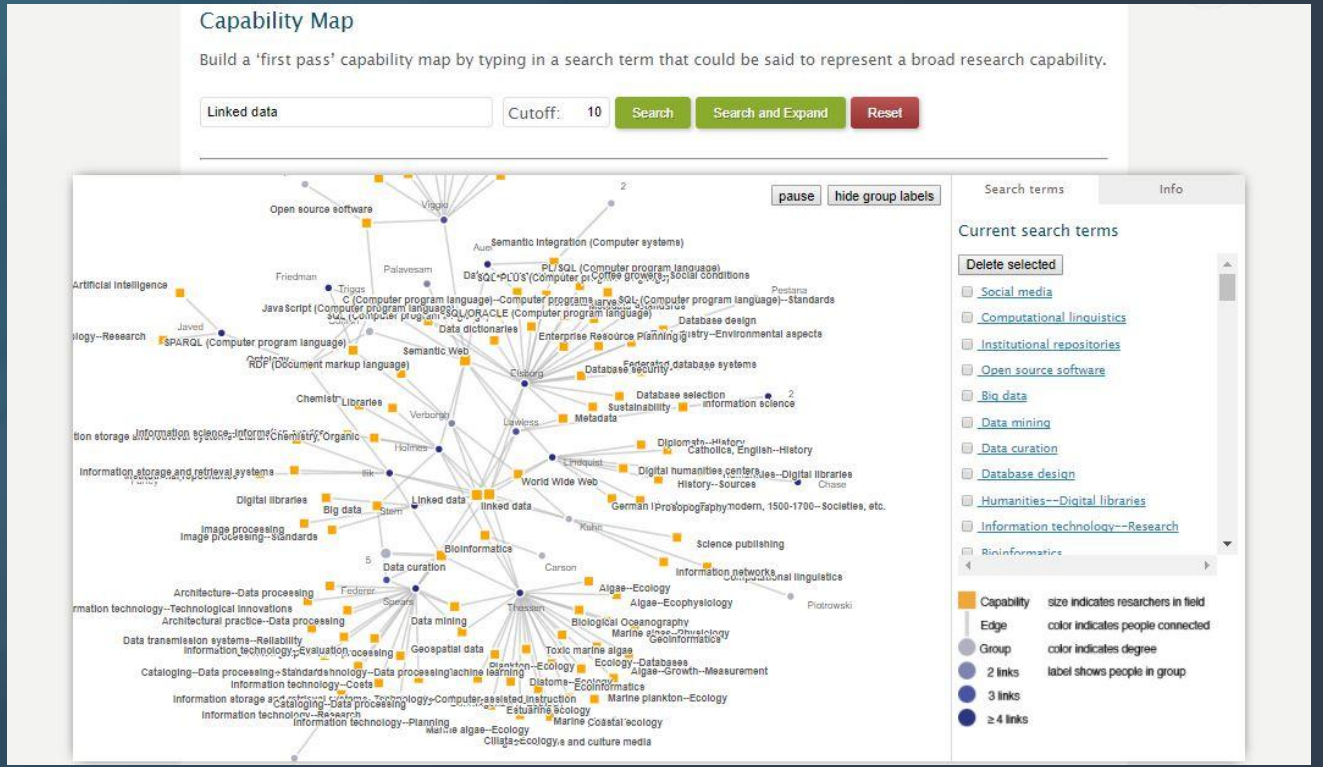
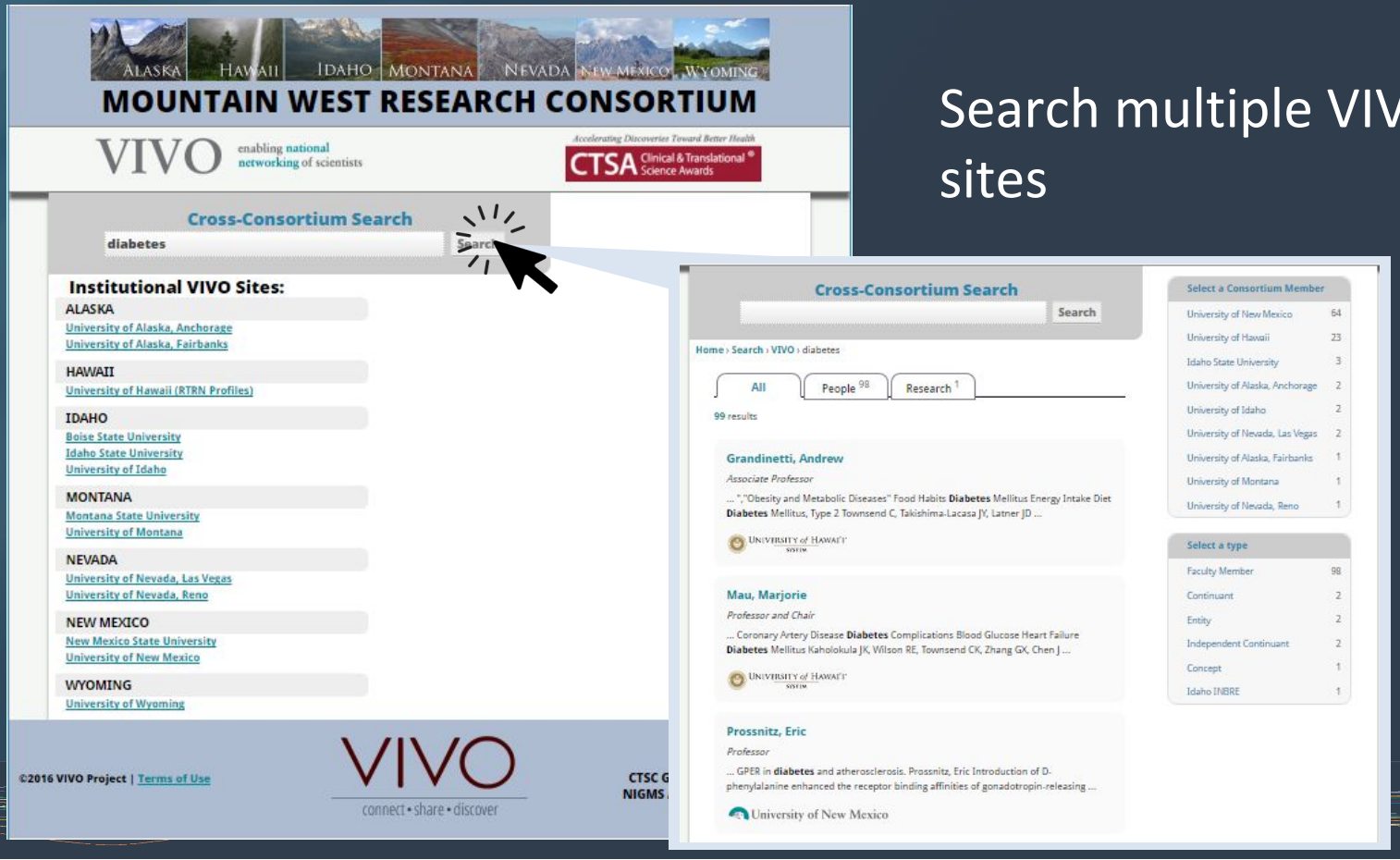
VIVO is customizable



Extended capability map in OpenVIVO

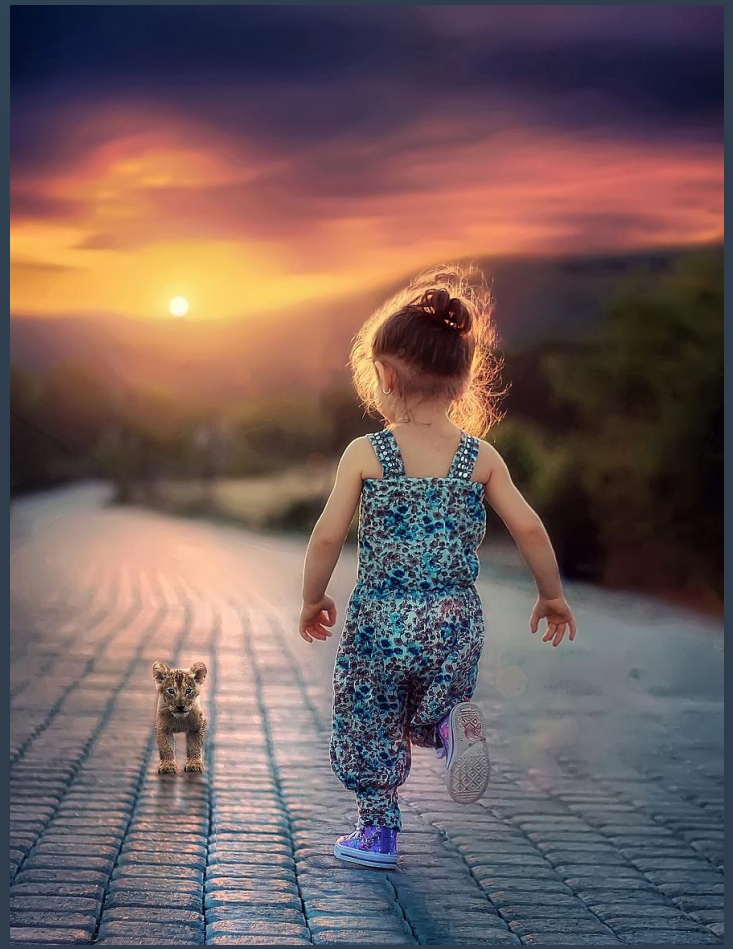
http://openvivo.org/

VIVO is customizable



Search multiple VIVO sites

“Is VIVO for you?”



Planning a VIVO implementation

https://wiki.duraspace.org/display/VIVO/Planning+a+VIVO+Implementation

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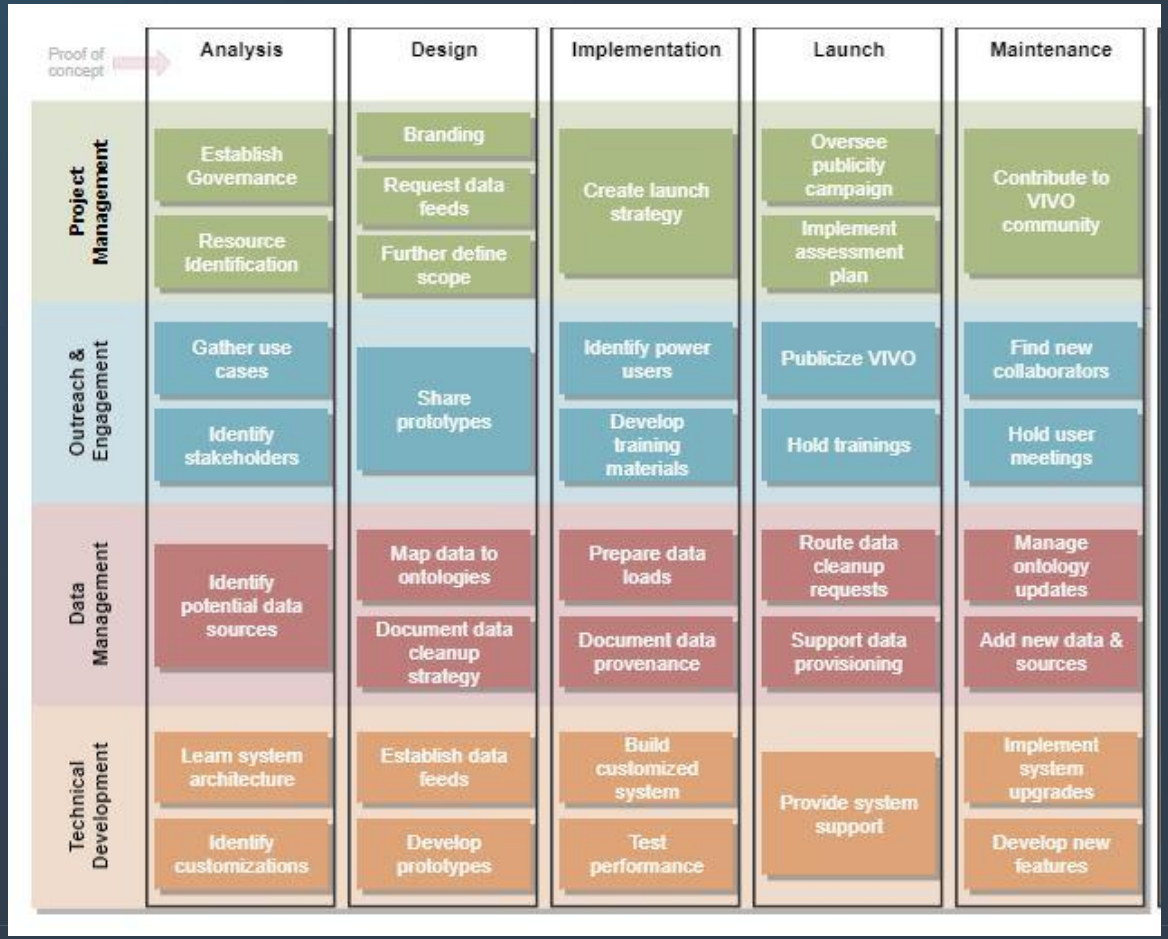
VIVO: The Big Picture



VIVO Implementation includes roles:

- **Project Management**
  Managing a VIVO project can require everything from finding resources to facilitating the structure, mission and strategies.
- **Outreach and Community Engagement**
  Your VIVO community includes many stakeholders and sponsors from across the institution -- communications are critical.
- **Data Management**
  VIVO is all about the data: where to find it, how to load it, and how to keep it as updated as possible.
- **Technical Development**
  Developers, programmers, system admins, and other technical folks - System Architecture, Identify Customizations, Establish Data Feeds, Develop Prototypes, Build Customized System, Test Performance, Provide System Support, Implement System Upgrades

VIVO Implementation includes phases:

- **Analysis**
- **Design**
- **Implementation**
- **Launch**
- **Maintenance**

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VIVO Implementation

- **Project Management**

Analysis: Establish Governance; Resource Identification
Design: Branding, Further Define Scope, Request data Feeds
Implementation: Create Launch Strategy
Launch: Oversee Publicity Campaign, Implement Assessment Plan
Maintenance: Contribute to VIVO community

VIVO Implementation

- **Outreach and Community Engagement**

Analysis: Identify Stakeholders, Gather Use Cases
Design: Share Prototypes and/or existing VIVOs: http://duraspace.org/registry/vivo
Implementation: Identify Power Users, Develop Training Materials
Launch: Publicize VIVO, Hold Training Sessions
Maintenance: Find New Collaborators, Hold User Meetings

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VIVO Implementation

- **Data Management**

Analysis: Identify Potential Data Sources
Design: Map Data to Ontologies, Document Data Cleanup Strategy
Implementation: Prepare Data Loads, Document Data Provenance
Launch: Route Data Cleanup Requests, Support Data Provisioning
Maintenance: Manage Ontology Updates, Add New Data & Sources

VIVO Implementation

- **Technical Development**

Analysis: Learn System Architecture, Identify Customizations
Design: Establish Data Feeds, Develop Prototypes
Implementation: Build Customized System, Test Performance
Launch: Provide System Support, Implement System Upgrades
Maintenance: Develop New Features

VIVO success indicators

- High-level sponsorship
- Commitment to ongoing support
- Alignment with institutional plan

It’s all about goals

What’s most important to your institution:

- Public-facing web profiles?
- Research discovery?
- Platform for open science?
- Others?

Your goals must inform the strategy

Rollout strategies

- Broad and shallow?
  - Lots of people, less data
  - Add data over time
- Narrow and deep?
  - Fewer people, more data
  - Add people over time

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Example 1

Goal:

Public profiles for 3,000 faculty members

Strategy:

Implement “extended directory” first and add data in phases

Example 2

Goal:

Show collaborations within a research group

Strategy:

Create profiles for group members with publications, grants, research interests, keywords

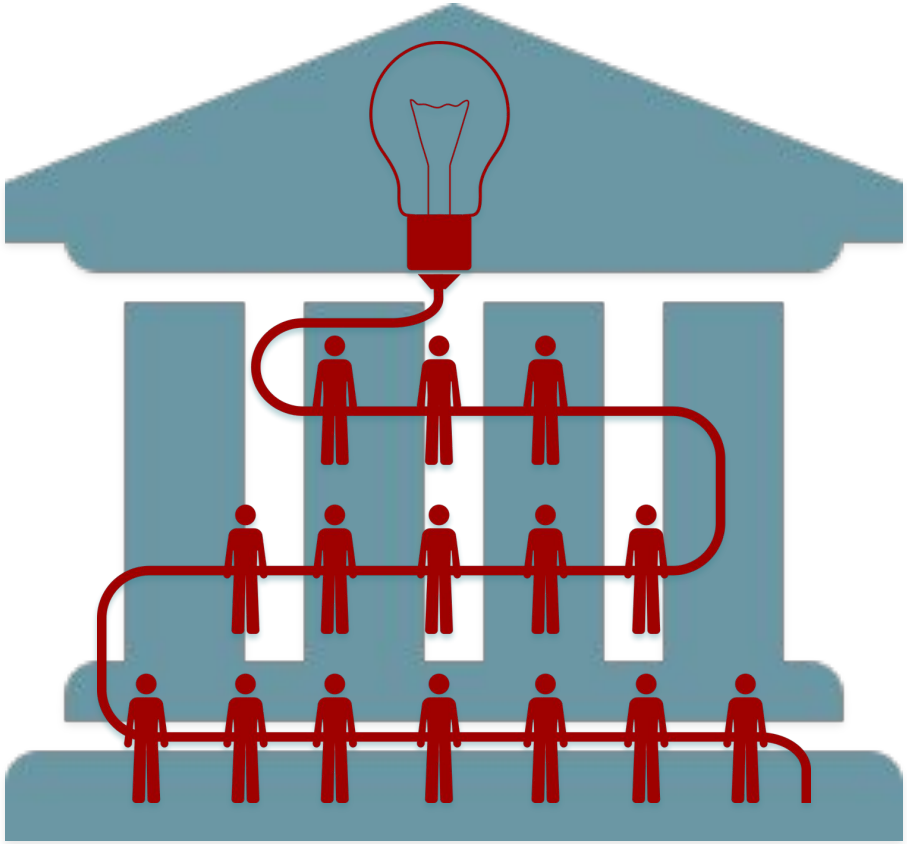
Example 3

Goal:

Encourage users to improve data

Strategy:

Introduce editing process in private profiles; communicate plans for going live



Staffing your VIVO project

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Assembling a project team

Technical:

- Programming lead (0.5 – 1 FTE)
- Programmers/developers (1 – 3 FTEs/2 bodies)
- Database administrators
- Systems administrators (networks, servers)

Assembling a project team

Project/business:

- Project or product manager (0.5 – 1 FTE)
- Data analyst or curator, plus ontologist (0.5 – 1 FTE)
- Communicator or trainer or outreach person (0.25 – 1 FTE)

Other allies

- Librarians, scholarly communications officers
- Chief academic officer (faculty titles, appointments)
- Grants offices, other data stewards
- News office, communicators
- Web designers, corporate identity
- Anyone who cares

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Budgeting & funding

- Costs involved IT infrastructure and human resources
- Always estimate pessimistically
- Funding model can evolve (starter funding now, ongoing funding later)
- Provost, library split
- Or contributions by % of faculty organization
- Budget for DuraSpace membership

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Communication strategy

- Big implementation?
  - Use institutional resources
  - Keep message simple
- Smaller group?
  - Use local resources
  - More events
  - More complex information

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You need a plan

- Strategy, timeline, goals, tactics, resources
- Tactics: home page, email lists, Twitter, news stories, promotional videos
- Events are important:
  - Demos
  - Development events
  - Attend faculty meetings

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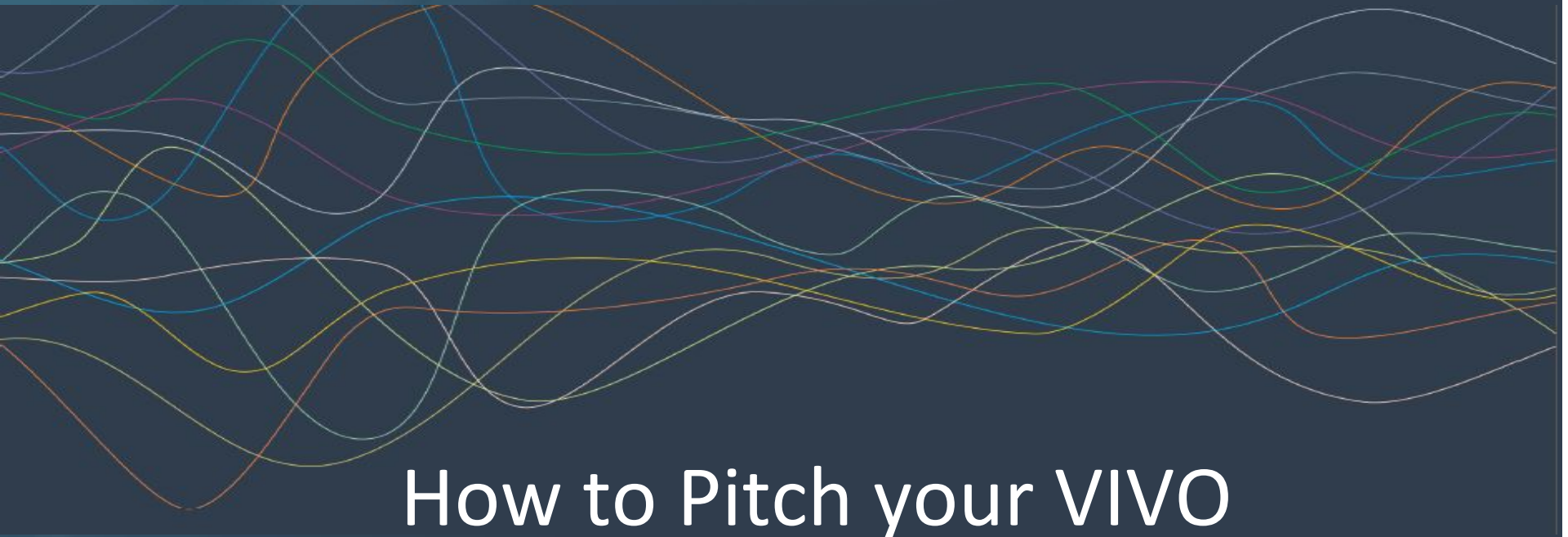
Best practices for marketing

- Focus on specific benefits to each stakeholder
- Repetition is important
- Keep emails short with links to more info
- Be positive and patient
- Facilitate community engagement, conversations

Things you may hear

- Faculty don’t like to be surprised.
- Don’t notify faculty until it is ready.
- Faculty won’t come to training or demos.
- “How was I supposed to know about this?”
- “I don’t read email.”
- “I don’t read instructions.”



How to Pitch your VIVO

VIVO

Tailoring your VIVO Pitch

- How do you explain VIVO?
- Complex, multi-layered system
- Different people care about different aspects
- Don’t bury people with technical details

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Summary

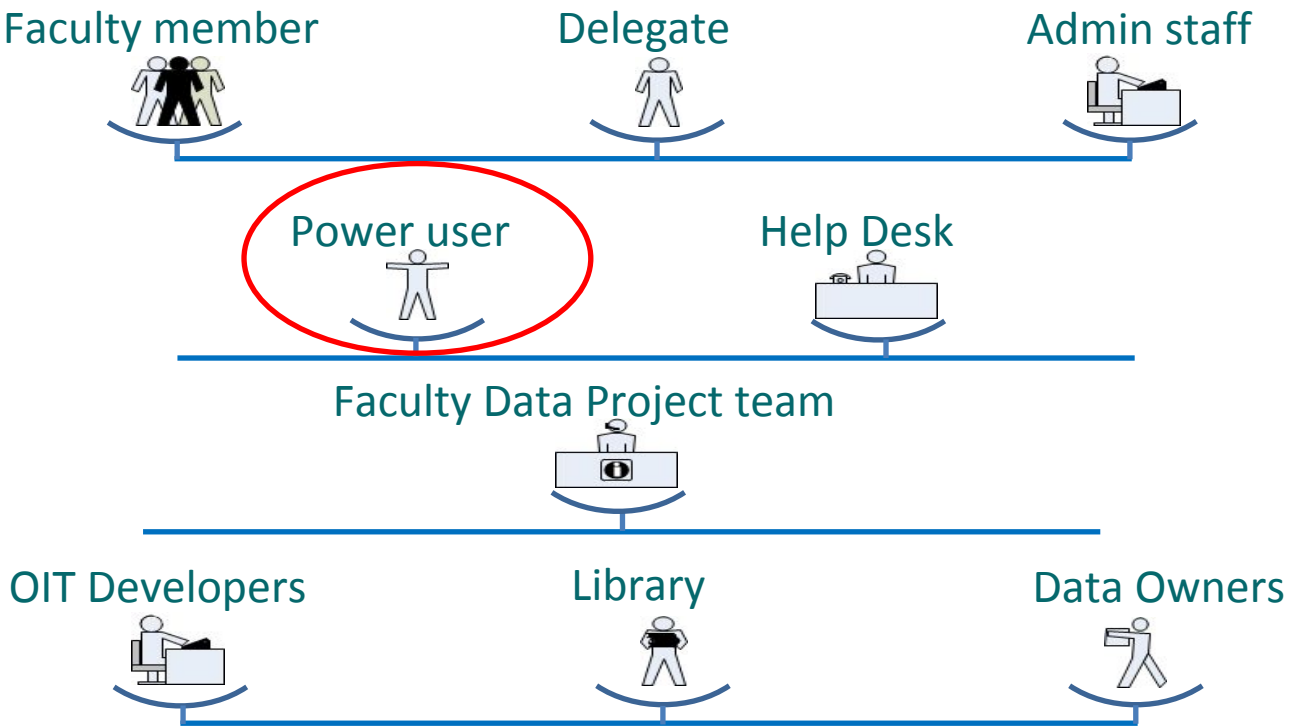
- Identify organizational goals
- Choose a stakeholder group
- List unique, strategic benefits
- Create pitch:
  - short
  - sweet

VIVO
connect • share • discover

Best practices for support:

- ★ Create a local network
- ★ Provide documentation, videos
- ★ Enable help ticket submission
- ★ Give ongoing “info sessions”
- ★ Hold events and user meetings

Duke's Support Model



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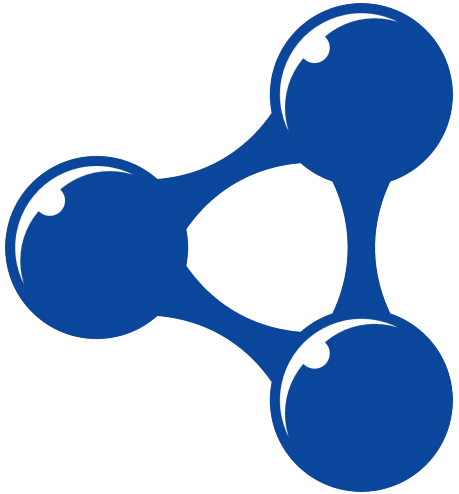

Thank you

See you on March 14th
VIVO and the role of librarians
part 2

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