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

- Organizations
- Scholars
- Grants/Projects
- Publications & Scholarly works
- Teaching, Engagement
- Websites
- Expert Finding
- Portfolio/Vitae
- Network Analysis
- Reports
- Ad hoc Queries
VIVO data is visualized
VIVO data is visualized
VIVO data is visualized
VIVO data is visualized.
VIVO data is linked

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

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

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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

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VIVO Implementation

• Outreach and Community Engagement

**Analysis:** Identify Stakeholders, Gather Use Cases

**Design:** Share Prototypes and/or existing VIVOs: [http://duraspace.org/registry/vivo](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

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It’s all about goals

What’s most important to your institution:

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

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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

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Example 2

**Goal:**
Show collaborations within a research group

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

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Example 3

**Goal:**
Encourage users to improve data

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

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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)

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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)

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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

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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.”

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How to Pitch your 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

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Best practices for support:

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

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Duke’s Support Model

Faculty member
Delegate
Admin staff

Power user

Help Desk

Faculty Data Project team

OIT Developers
Library
Data Owners
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Thank you
See you on March 14th
VIVO and the role of librarians
part 2

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