Results from the 2014 survey of VIVO implementation sites

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Who participated?

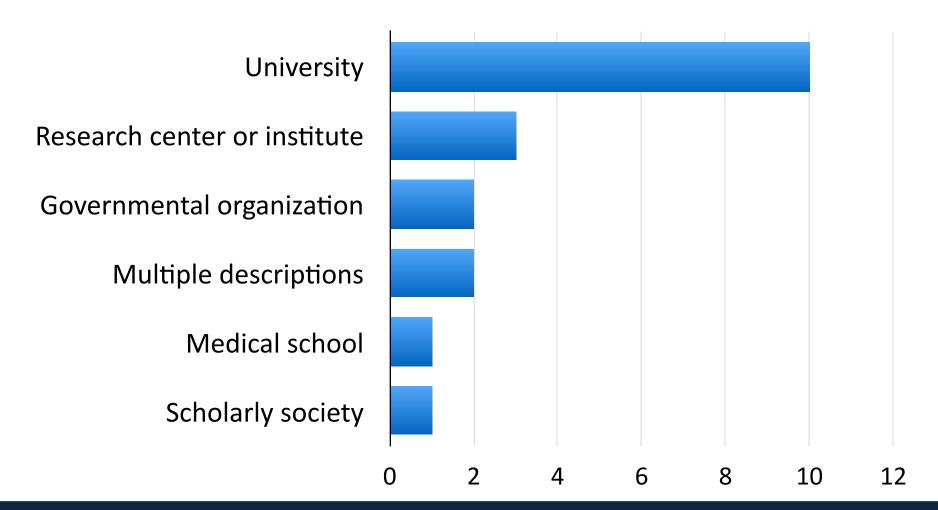
Section 1



Seeking clarity from the community

- How do sites solve problems?
- How important is improving performance to the community?
- Is VIVO-ISF too complicated?
- How do VIVO sites really feel about documentation?
- To what extent are we meeting the needs of the international community?
- Which code improvements are most important to the community?

What types of implementation sites participated?





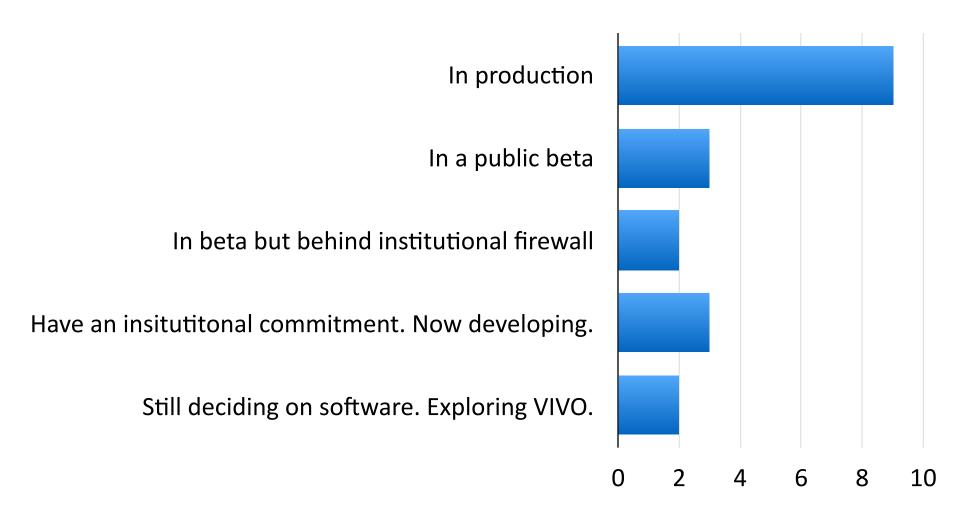
19 sites* participated

Name	Location	Existing/Expected Profiles
American Psychological Association	Washington DC, USA	200,000
Brown University	Providence, Rhode Island, USA	3,500
Cornell University	Ithaca, New York, USA	12,273
Duke University	Durham, North Carolina, USA	8,000
Eindhoven University of Technology	The Netherlands	4,157
Fundação Getulio Vargas	Rio de Janeiro, Brazil	1,000
Laboratory for Atmospheric and Space Physics, CU Boulder	Boulder, Colorado, USA	
Smithsonian Institution	Washington, DC, USA	1,000
Tetherless World Constellation at Rensselaer Polytechnic Institute	Troy, New York, USA	2,000
The Scripps Research Institute	La Jolla, California, USA	350
University of Colorado Boulder	Boulder, Colorado, USA	1,792
University of Florida	Gainesville, Florida, USA	>20,000
University of Melbourne	Melbourne, Australia	7,000
US Environmental Protection Agency	US wide	1,900
Virginia Tech	Blacksburg, Virginia, USA	3,000
Weill Cornell Medical College	New York, New York, USA	5,900

^{*} as well as three anonymous sites



What is your stage of development?



What do the results mean?



See raw results here: bit.ly/vivosurvey

Personnel, hardware, ontology, and performance

Section 2



Personnel

• If in production, how many full-time equivalent (FTE)-years were needed to get VIVO ready for production?

Average	Min	Max	Respondents
3.44	0.5	12	13

How many FTEs in the past year?

1.66 0.1 4.5 18

 If in production, how many FTEs are required to maintain it?

1.57 0.1 4 12

Experience

 Before starting on VIVO, did any of your developers have experience with semantic web technologies?

- Yes: 2

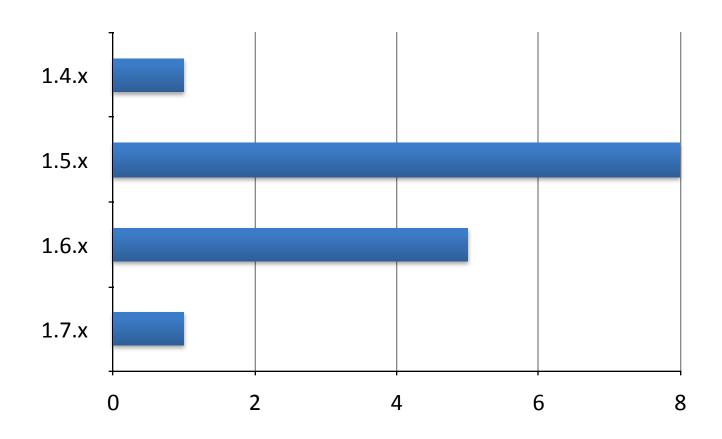
- No: 16

Role distribution

Role (expressed as FTE)	Avg	Min	Max	Comment
Programmer/ETL specialist	0.52	0	2.1 – 3.0	Writing scripts for ingest and update
Project manager or	0.30	0	1.1 – 2.0	
IT/systems engineer	0.19	0	0.6 – 1.0	Installation, configuration, tuning
Content coordinator	0.16	0	0.6 – 1.0	
Ontologist	0.15	0	0.6 – 1.0	Local ontology extensions
Project executive or	0.13	0	0.1 – 0.5	
Web developer	0.13	0	0.6 – 1.0	Branding and customization
Marketing/outreach person	0.12	0	0.6 – 1.0	
Database administrator	0.09	0	0.1 – 0.5	
Business analyst	0.09	0	0.1 – 0.5	
Manual entry clerk	0.07	0	0.1 – 0.5	

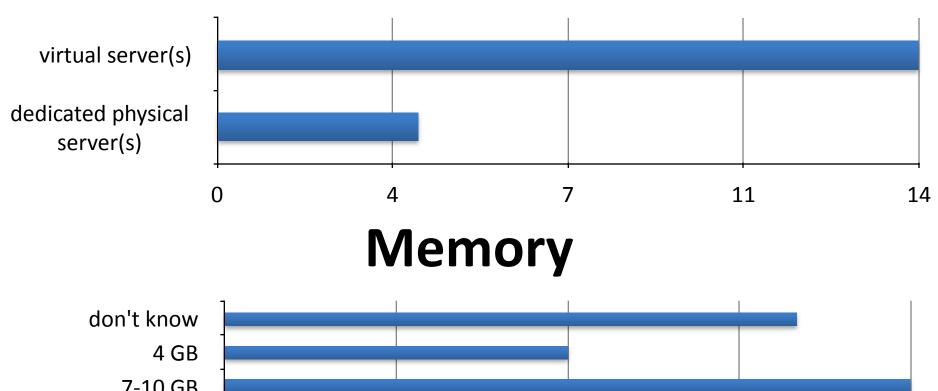


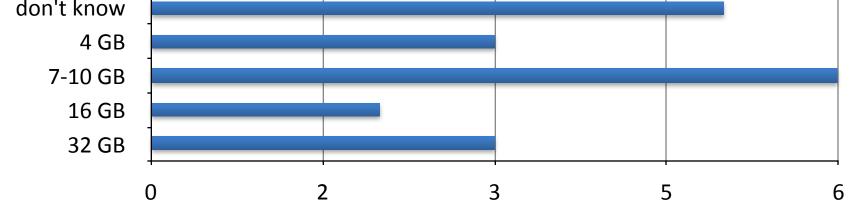
VIVO version





Hardware





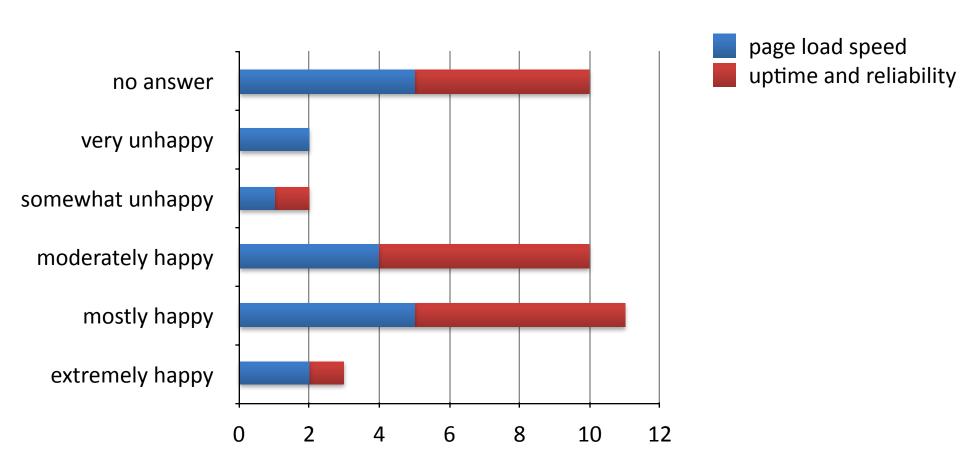


Environment

- MySQL database (1 AllegroGraph)
- Tomcat (1 Glassfish)
- Apache web server
 - 2 sites using Apache mod_cache, 1 Squid
- 1 site using Amazon EWS
- 1 site doing load balancing
- 2 use other technologies (Ruby, .Net) in their stack to support editing

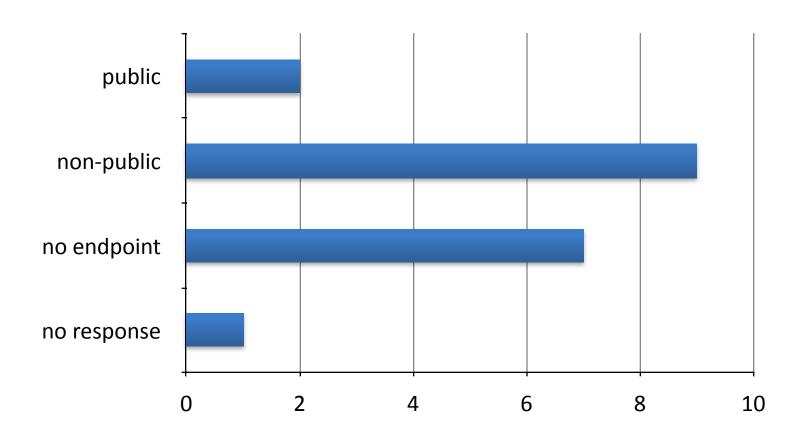


Stakeholder satisfaction: performance and uptime/reliability



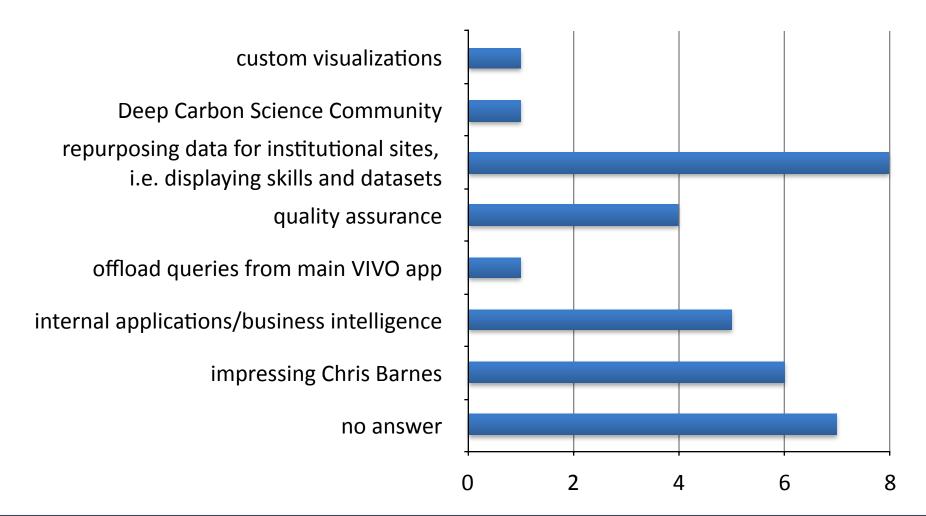


SPARQL endpoints



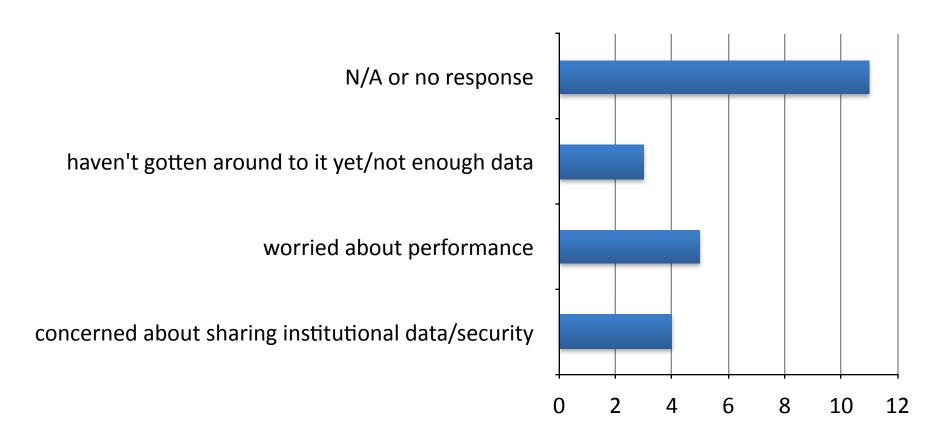


How is your SPARQL endpoint used?

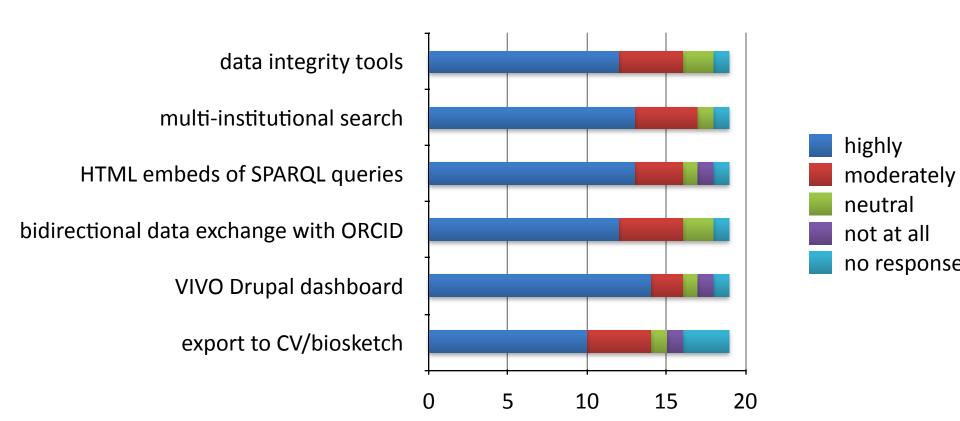




If not, why not?



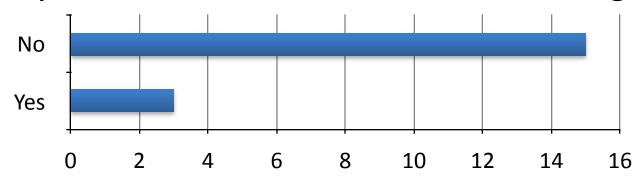
Desired features



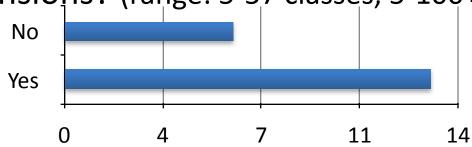


Ontology

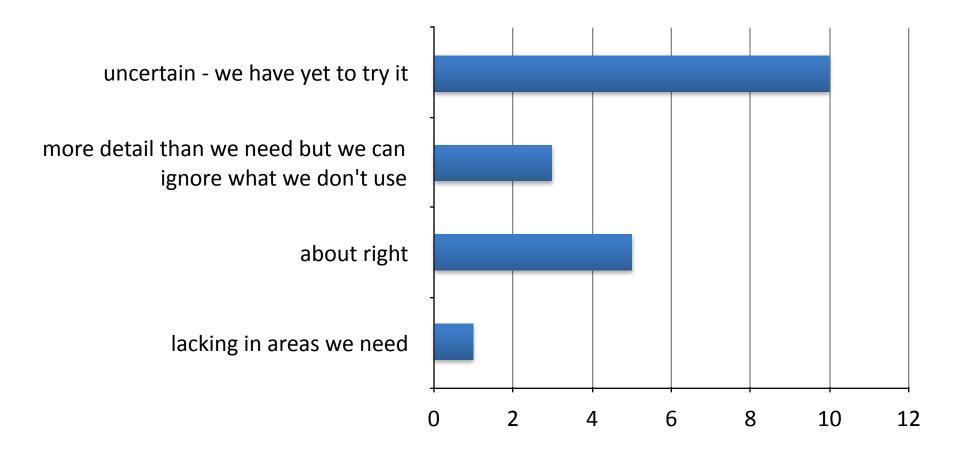
Have you included other established ontologies?



 Have you made any local customizations or extensions? (range: 5-57 classes, 5-100+ properties)

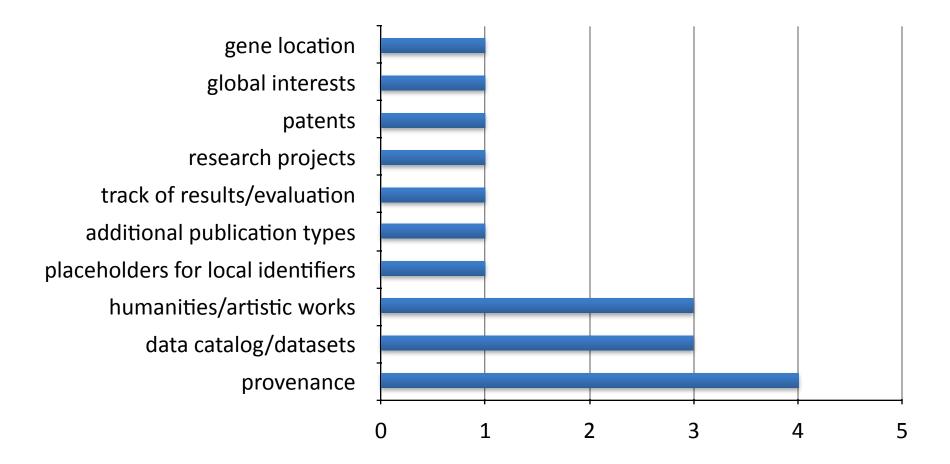


Rating the VIVO-ISF 1.6 ontology



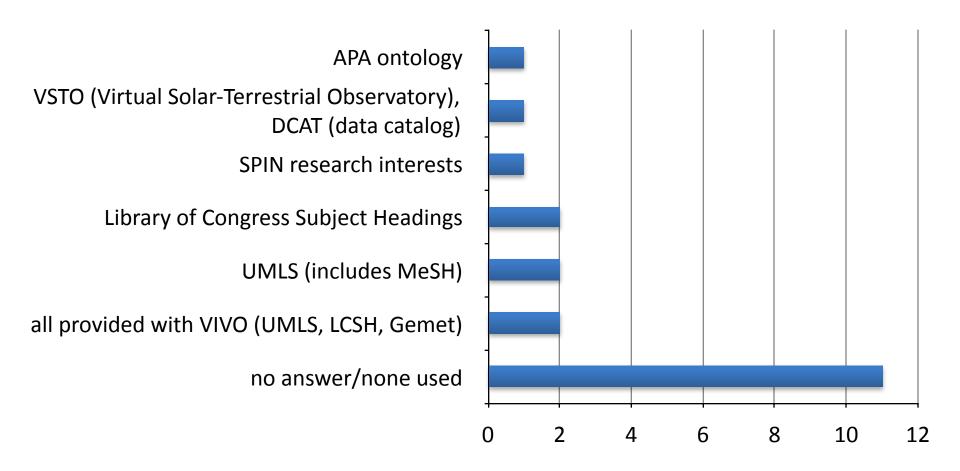


Desired areas for ontology extensions and/or inclusion of other existing ontologies





External vocabularies linked to VIVO





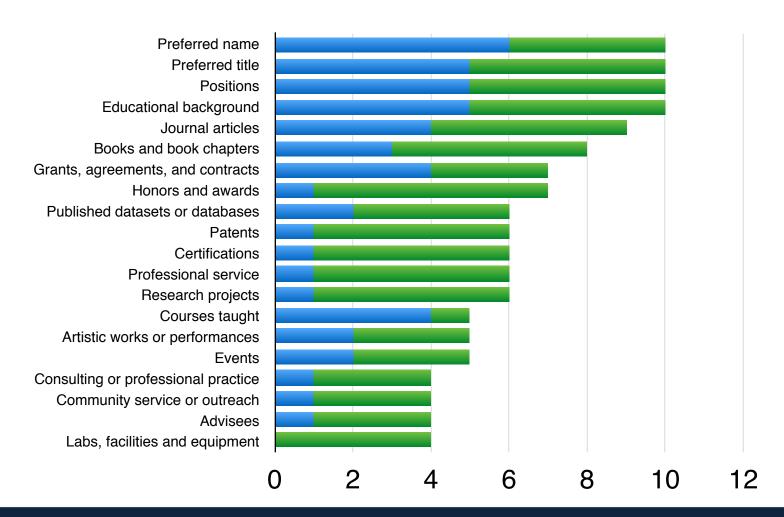
What content do sites care about?

Section 3



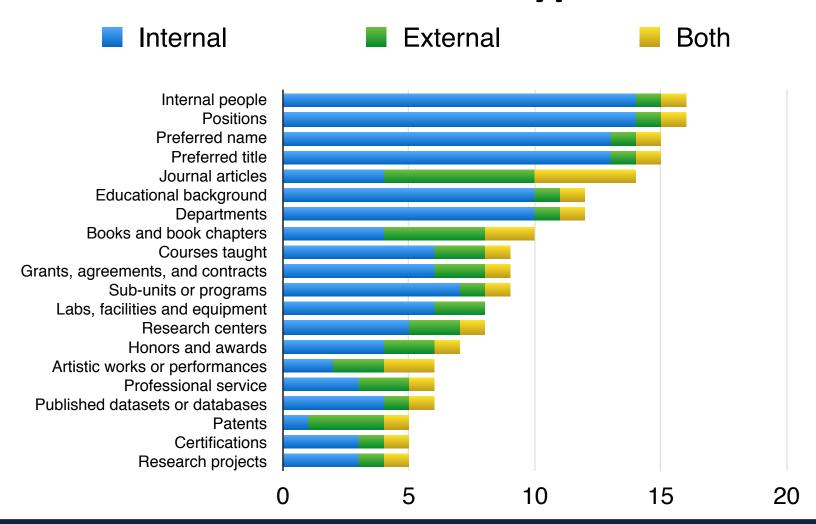
Where can end users manually add data?







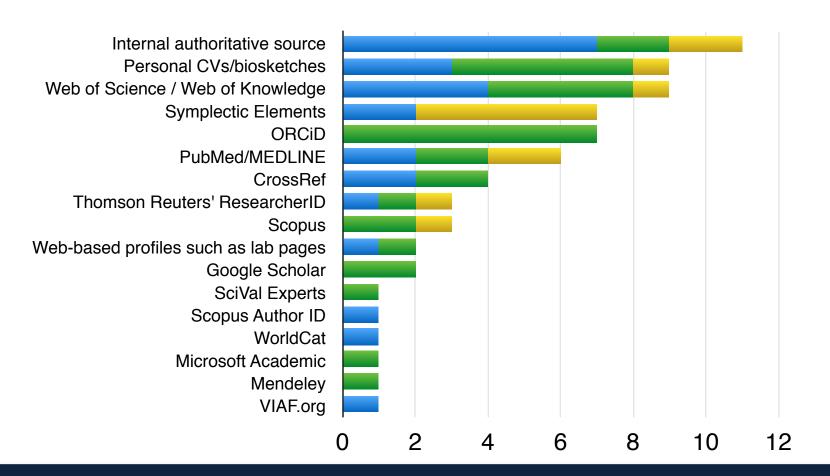
Which data are currently in your VIVO and what's the source type?





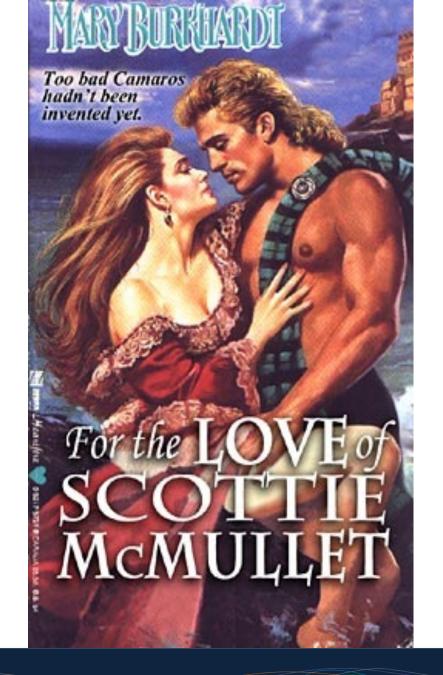
Which sources do VIVO sites use for publications and for what purpose?

As a source for ingest To disambiguate authors Both purposes

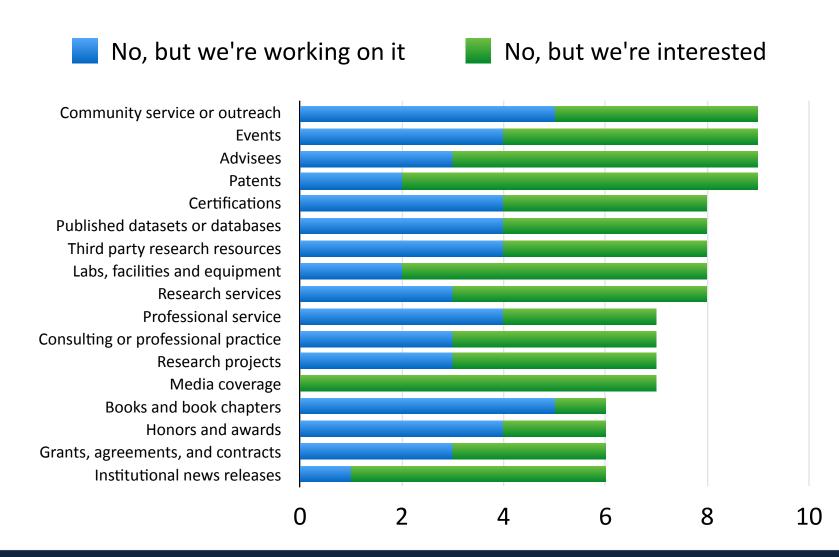




Institutions' unfulfilled desires for data



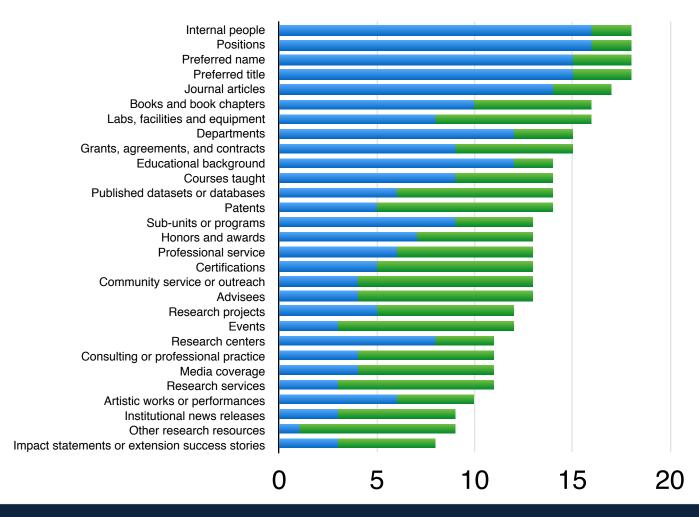
Institutions' unfulfilled desires for data





What data do institutions have and want, combined?







State of the VIVO community

Section 4



How was developer time spent during the first year of VIVO implementation?

Learning Semantic Web 37%

Implementation Tasks 48%



Implementation Challenges (cont'd)

Political: getting access to data from institutional sources? Not at all / To a limited extent

Addressing poor performance of the application? Not at all / To a limited extent

Getting adequate resources from administrative leadership to proceed? To a limited extent



Implementation Challenges (cont'd)

Theming and other changes to the templates?

To a large extent

Understanding VIVO's semantic data model?

To a large extent / Extremely

Cleaning up dirty data from institutional sources? **Extremely**

Ingesting data using Harvester or other similar tools? Extremely



How effective have each of the following methods been for solving implementation roadblocks?

Trial and Error? Highly

Email to the mailing lists? Moderately

Searching mailing list archives? Moderately

Contacting developers off-list? Moderately

Implementation/development call? Moderately

Using the wiki? Moderately

Posting to Stack Overflow? Not at all

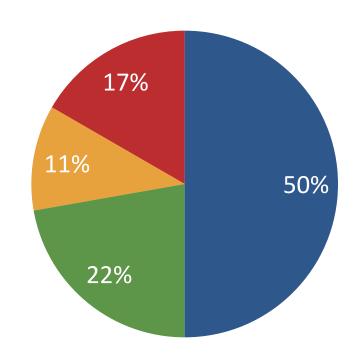


VIVO Documentation

DecentPoor

Okay but not great

Has some serious gaps



Inspiring Docs in Open Source?



Q: Should VIVO docs describe a tool, an application, or a platform?

Documentation Priorities

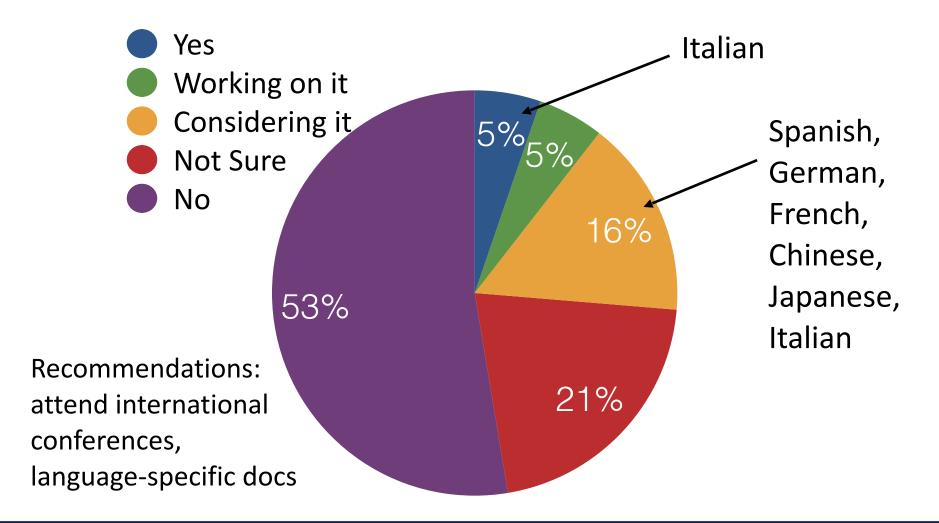
Self-guided tutorials for data ingest? Very important

Standard data set to work with? Very important

White paper highlighting use cases for how VIVO can benefit an institution? Very important / Important

Detailed list of standard application and server configurations? Important

Internationalization





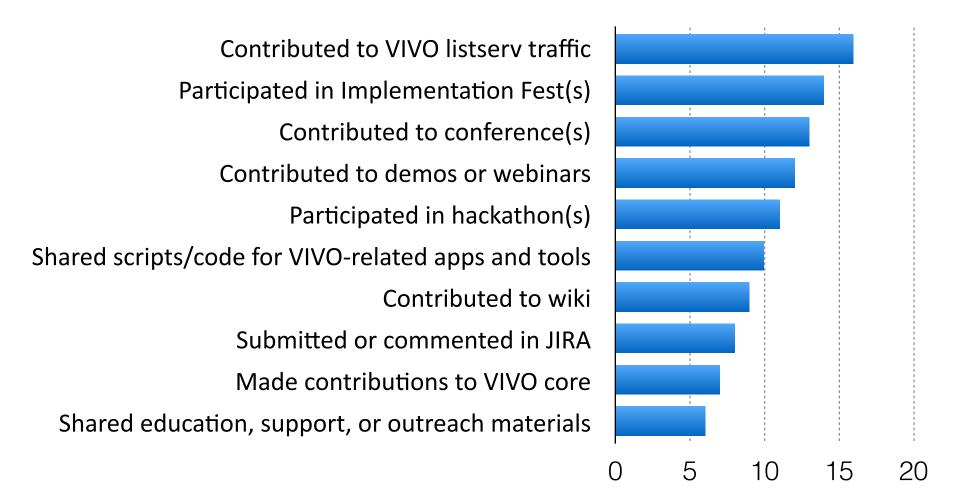
Contributing to VIVO

90% of responders have contributed to open source projects

>50% using GitHub

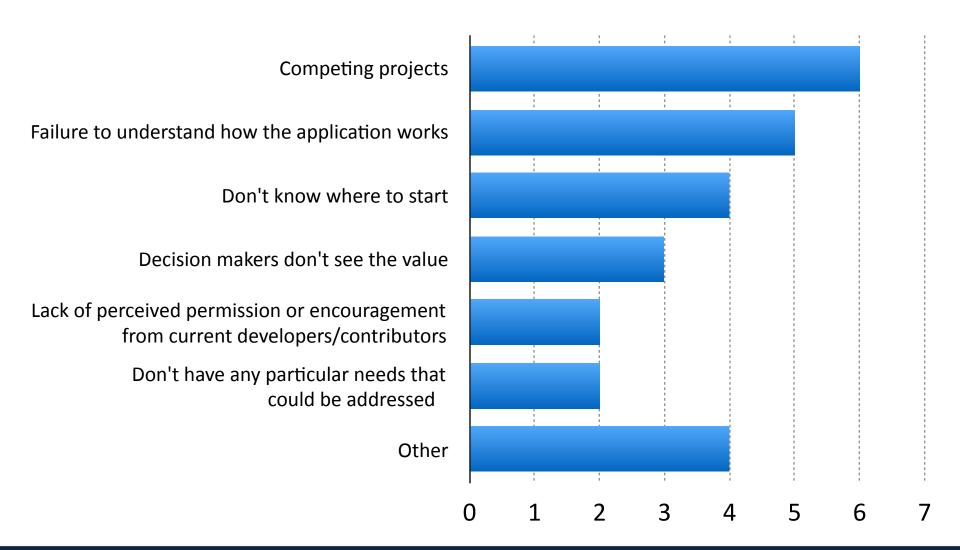


Contributing to VIVO





Why aren't we contributing to VIVO code base?





Outreach / Competing visions for VIVO

Section 4



How frequently do you receive the following feedback about your VIVO?

- My data is wrong
- Key data of mine is missing
- I don't want VIVO to replace my institutional website
- I'm not allowed to edit certain data from external source
- I don't want my data public
- I wish I could easily repurpose my VIVO data (e.g. populate a LinkedIn or ORCID profile, or lab site



For your institution, what is the importance of the following visions of VIVO?

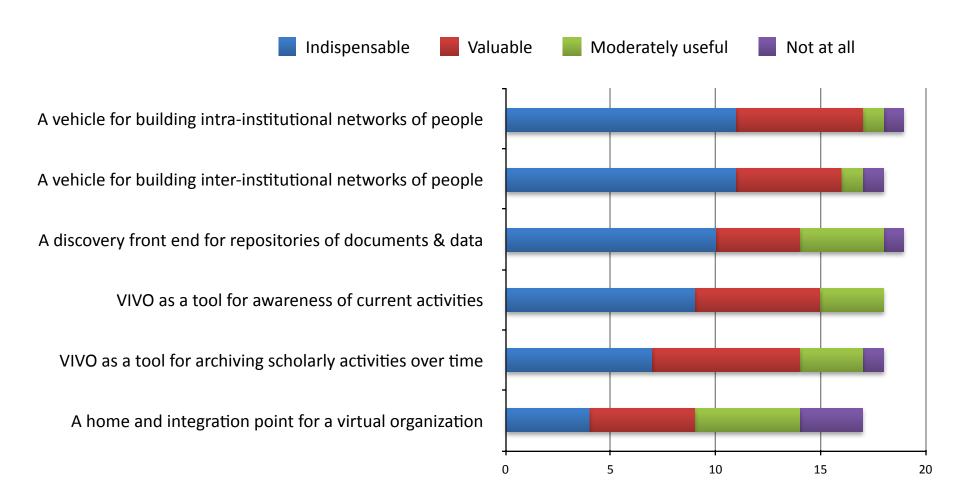
- 1. A vehicle for building intra-institutional networks of people
- 2. A vehicle for building inter-institutional networks of people
- 3. VIVO as a tool for awareness of current activities
- 4. A loose federation of many lightweight, extensible, and creative apps on a common semantic framework
- 5. A flagship product that needs to be easier to adopt, populate, and grow
- 6. A discovery front end for repositories of documents & data
- 7. VIVO as a tool for archiving scholarly activities over time
- 8. A vehicle for building networks of research data
- 9. A tool to help universities and government agencies meet open government mandates
- 10. A home and integration point for a virtual organization
- 11. A reference implementation for the VIVO-ISF ontology as a standard for international data exchange



A vehicle for building intra-institutional networks of people

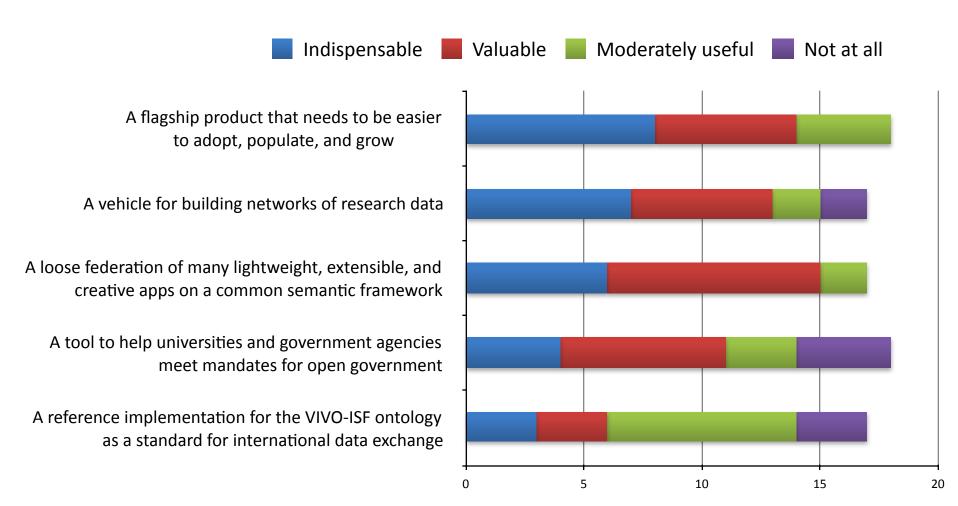
- The metaphor of VIVO as vehicle may be attractive because:
 - · Vehicles are generally simple to use.
 - · Vehicles do something useful rather than serve its own end.
- VIVO is not an archive or repository.
- VIVO's most popular purpose current awareness about internal researchers' activities.
- Intra-institutional network > Inter-institutional network
- Researchers > Researcher Data

For your institution, what is the importance of the following visions of VIVO? (internal)



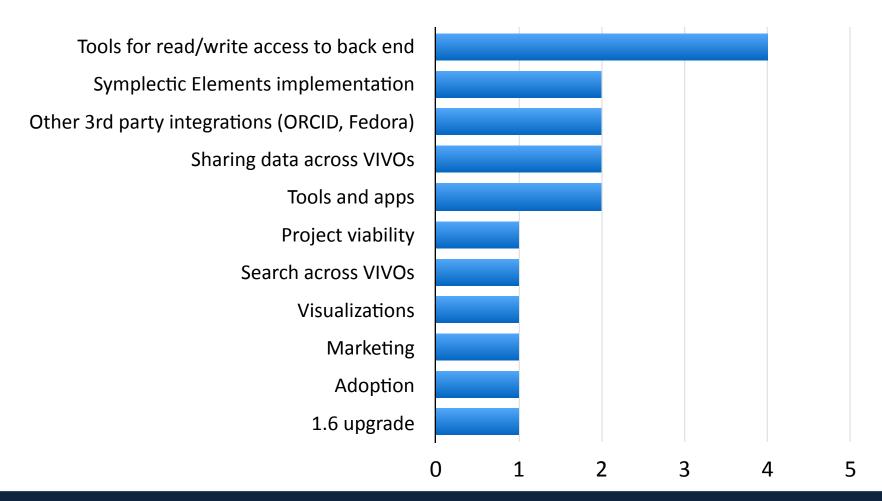


For your institution, what is the importance of the following visions of VIVO? (external)





Themes in the answers to the question, "What is your site's priority?"





Would the following messages be successful in marketing VIVO to your profiled users?

- VIVO promotes your work within your discipline
- VIVO promotes your work to granting agencies
- VIVO promotes your work to prospective students and post-docs
- VIVO saves staff and researcher time
- VIVO meets key administrative needs such as business intelligence
- VIVO helps researchers find collaborators
- VIVO promotes your institution's work and makes you more competitive





Thank you to everyone who took time to share your site's perspective.

