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VIVO Roadmap

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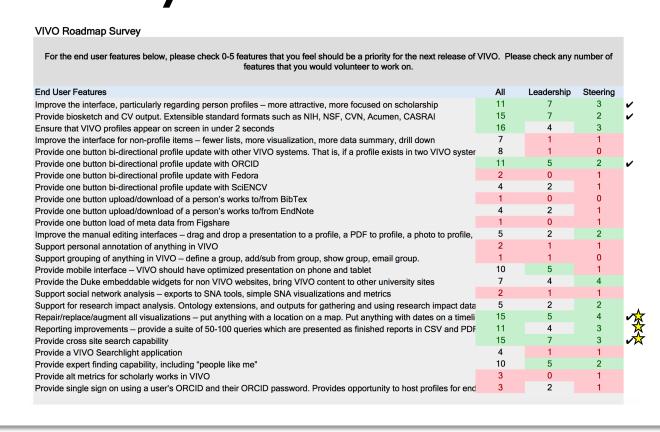
Process

Creating the Roadmap

- Collect ideas for VIVO enhancements from all sources wiki, roadmaps, minutes, task forces, emails, implementation fests, conference presentations
- 2. Organize into three broad collections end user, steward and technical
- 3. Review with Steering
- 4. Survey Community, review strategic plan, technical issues
- 5. Assemble task force to identify elements, next steps, possible sprints
- 6. Develop roadmap outline
- 7. Present to Leadership, Steering and Community at conference

See https://wiki.duraspace.org/display/VIVO/VIVO+Roadmap+Process

Survey: End User Features



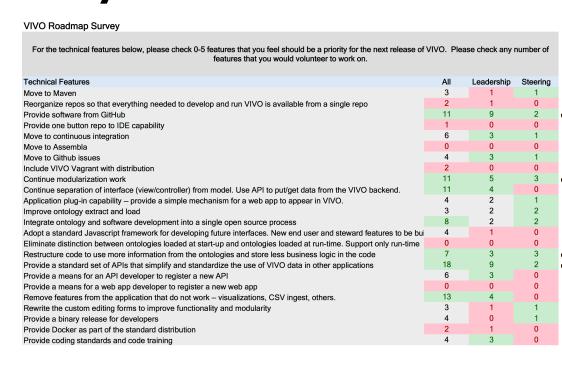
Survey: Stewardship Features

A roadmap survey was conducted in the VIVO community July 3-17, 2015. All results are counts of the number of respondents indicating the feature was one of their five most important. Columns represent community as a whole, results from

Leadership and results from Steering. Green indicates top features. Red indicates bottom features. Check marks next to features where three groups agree the feature is a top feature. Star indicates 3+ volunteers



Survey: Technical Features



Elements of the Roadmap

Standard Patterns for Ingest

Items to be Considered

- Extract from any source, transform to VIVO-ISF RDF, load to VIVO Approach
- Identify best practices, tools, patterns fostering common methods for ingest from ORCID, PubMed, CrossRef, institutional sources
- Identify opportunities for common data (orgs, journals, concepts, other) that be used by all VIVO sites

Potential Sprints

- Common tools/practices for ingest and update
- Remove/deprecate legacy ingest mechanisms
- Software framework for developing additional ingests

Standard Patterns for Output

Items to be Considered

Non-RDF formats for viz, reports, CV/bioksetch, apps

Approach

- Standard/extensible API framework with configurable APIs
- Performance tuned output
- Identify chunks of data, technology choices

Potential Sprints

- Data regarding individuals
- Data for reporting summarized and line items for consumption by reporting tools
- Data for visualizations optimized for performance

Visualizations, UI and Theming

Items to be Considered

 Visualizations existing and future. UI/usability improvements. Theming and UI simplifications. Biosketch and CV outputs.

Approach

• Consider UI issues together. Develop architectural approach. Identify issues that can be dealt with first.

Potential Sprints

- Identify and remove items that will not be repaired
- Improve/simplify theming configuration
- Improve existing UI templates
- New/improved visualizations

Performance and Scaling

Items to be Considered

 Modularization, improved algorithms, changes in functionality, end user and API performance

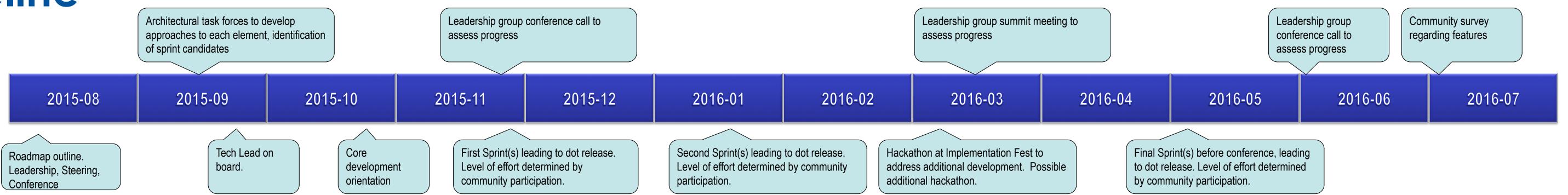
Approach

- Incrementally rewrite data access layer
- Analyze for redundant queries
- Identify opportunities for caching and other reuse
- Limit the returned data, unless requested otherwise

Potential Sprints

- Plug and play triple stores, reasoners, search engines
- Improve queries for UI and API

Timeline



Additional Work

Additional work in support of VIVO is planned: 1) Install software from GitHub; 2) Remove features that do not work; 3) Improve technical assessment through standards for data ingest; 4) Optimize the repos for rapid developer start-up; 5) Incorporate contributed software in the distribution, providing additional functionality; 6) Incorporate additional ontology extensions to represent attribution/contribution, work in the humanities. As with all VIVO enhancements, volunteer effort is the key driver. If you are interested in participating the development of any feature, please contact the project director, Mike Conlon (mconlon@duraspace.org) or any member of the Steering Group. Some features to be pursued as grant opportunities include additional ontology work, use of standard URIs, and VIVO Search.