



The Data EcoSystem



Activities

- Appointments
- Grants
- Publications
- Teaching & Mentoring
- Professional Activities
- Contact information
- Expertise Statement
- Education & Certification
- Hallway Conversations

Data Products

- C.V.s
- NIH Biosketch
- Activity insight
- Research output reporting
- Website integrations & directories
- Aggregations of Faculty Activities
- Relationships – knowledge lifecycle
- Impact
- Relationships & Collaborations



Penn Environment

- Highly distributed systems
 - Lots of data sources
 - Localized solutions to faculty activity reporting
 - Data resolution – achieve better detail by forking university sources
- Perelman School of Medicine FEDS system to support promotion & tenure
- PennVIVO



Expertise@Penn



- Our goal

- More directly engage with faculty at the University and add value to the production & management of research at Penn
- Improve the flow of data & information through the research process – from bench to publication & back
- Leverage expertise in knowledge management to support goals in teaching, learning, & research

- Our approach

- Aggregating activities of faculty and linking activity data to outputs – i.e. teaching, publication, research
- Internal-facing, PennKey authenticated, role-based access control with Faculty-friendly interface for profile management & enhancement
- External-facing, open semantic linked data to demonstrate the range of activities and impact of our faculty
- Exposing the relationships between traditionally discreet activities
- Constructing the data for use and reuse by leveraging the links between different activities, people, and organizations
- To tell a more holistic story about faculty, departments, schools that demonstrates contribution and impact – not reducing a faculty member to a number



Researcher Services Overview



- Our Approach

- A suite of services to support faculty throughout the research cycle
- Continue and deepen Librarian Liaisons engagement with faculty
- Current services include:
 - DMPTool – data management planning
 - Expertise@Penn – profile management
 - PennVIVO – profile publication
 - Scholarly Commons – publishing



Policy & Process Development



- Policy
 - Standard service plus customizations
 - Standard Libraries & School roles & responsibilities
 - Future enhancements
 - Manages initial expectations
 - Evolves over time & experience
- Process
 - Complexity requires control
 - Project charter & Project plan
 - Manages scope
 - Evolves over time & experience



Shared Operations & Support



Schools

- Customized communications & direct contact
- Help documentation
- Training – faculty & staff
- Tier 1 support – faculty & staff
- Websites, directories, more

Libraries

- Templated communications
- Upgrades & technical documentation
- Train-the-Trainers assistance
- Liaisons – customize publication search settings, assist publication curation
- Tier 2 support – Service Desk and Help form
- Custom reports, CVs, more
- Expertise@Penn website



Data Identification & Migration



- Balance data privacy and culture of openness
- Harvest high-quality publications data
- Identify University and School canonical sources
- Fix data quality issues upstream
- Map data – metadata expert, linked data expert with School technical lead & data steward
- Imports
 - Deduplicate data
 - Create relationships
 - Test exports & imports



Expansion



- Complete functional equivalency for PSOM opt in
- Plan additional School & Centers adoptions
 - Near term discussions with Vet & Dental
 - Longer term expansion with Nursing, SAS, others
 - Integration with University Research Services Portal
 - University-wide service
- Evaluate available service platforms
- Improve our process
 - Establish governance model
 - Understand requirements “out of the gate”
 - Review processes & policies



Questions



Summation



- Libraries uniquely positioned to provide value
- Holistic view of research and relationships
- Data is currency
- Complexity requires control
- Policy and process definition are key
- Partner with more Schools, refine processes, enhance service



Thank You

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