



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
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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
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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
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Shared Operations & Support

Schools

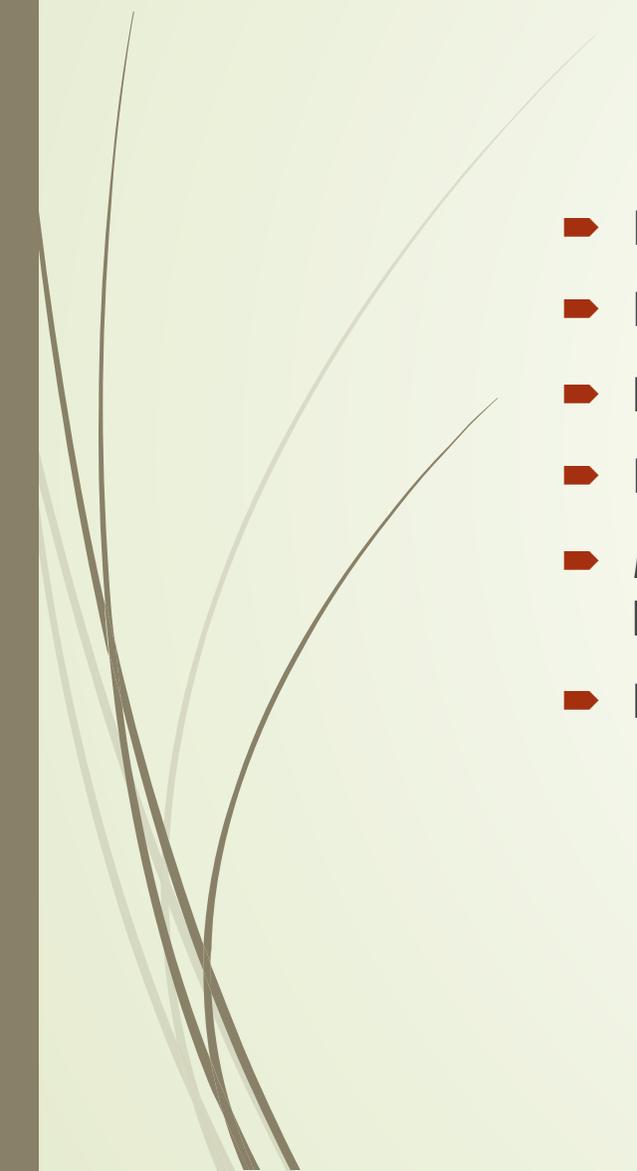
- ▶ Customized communications & direct contact
- ▶ Help documentation
- ▶ Training – faculty & staff
- ▶ Tier 1 support – faculty & staff
- ▶ Websites, directories, more

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



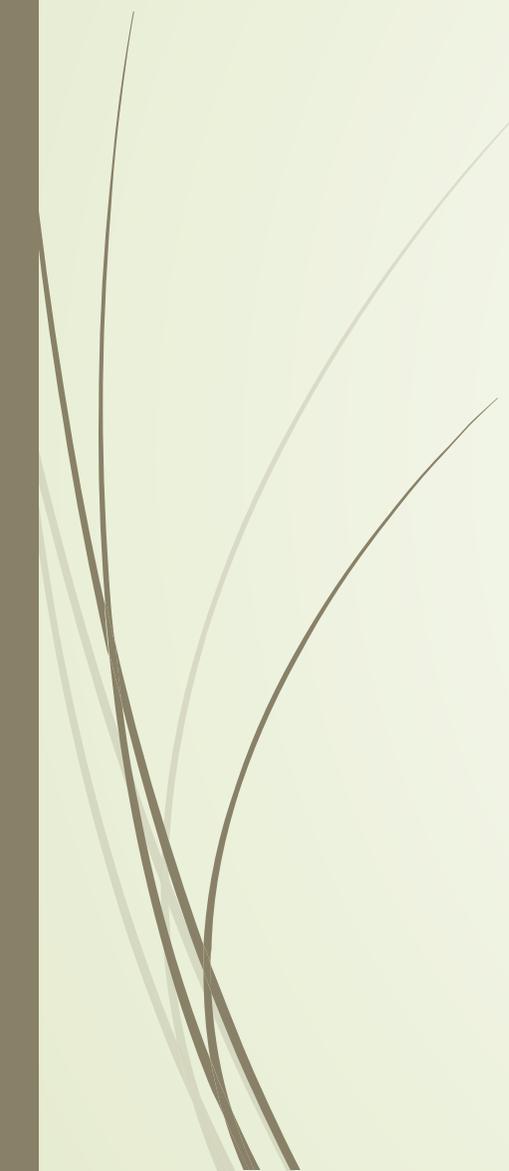
- ▶ Complete functional equivalency for PSOM opt in
- ▶ Plan additional School & Centers adoptions
 - ▶ Near term discussions with Vet & Dental
 - ▶ Longer term expansion with Nursing, SAS, others
 - ▶ Integration with University Research Services Portal
 - ▶ University-wide service
- ▶ Evaluate available 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

Lauren Gala

➤ milaur@upenn.edu

Mike Winkler

➤ winkler4@upenn.edu