

### CONTEXT

- Why was this application developed in the Graduate School?
  - Membership Supervision
  - Find a supervisor use case
- Existing systems
  - Research performance management such as SciVal
  - No central Research Information Management System
- Most departments have profiles of faculty members (huge variety)
- No easily accessible option to query expertise across all available data
- Desire: 100% coverage without required manual action



### **DEMO**

- Researcher Search
  - Variations: Postdoc / Supervisor Search
- Directory
- Recruitment Projects
- Postdoc Directory
- International Engagement
  - By country
  - By institution
- Contextual
  - Faculty
  - Degree Program
- Partners (VIRS, Co-op, Community Engagement, Sustainability Initiative)



### SCOPE

#### Phase 1:

- All Assistant Professors, Associate Professors, and Professors at UBC Vancouver
- Only existing data indexed

### Phase 2:

- Automatically provisioned profiles
- Consistent data from central systems (often not previously published)
- New data through profile updates

### Phase 3:

- Self-provisioned profiles for Postdocs at UBC Vancouver & Okanagan

### Phase 4:

- Self-provisioned profiles for all other faculty at UBC Vancouver & Okanagan



## **Groups**

Supervisors

HR

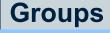


- Employee ID
- Names / Preferred Names
- Role (Job Code, Job Title)
- Status
- Department
- Faculty
- Email
- Phone

## **Campus**

Vancouver

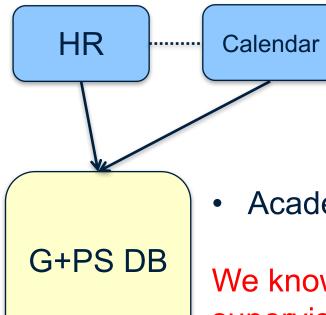
Scheduled CSV extract



Supervisors

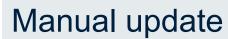


Vancouver



Academic Affiliations

We know all the supervisors and their affiliations, but nothing about their research!





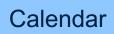
## Groups

Supervisors

## **Campus**

Vancouver











## **Unstructured data**

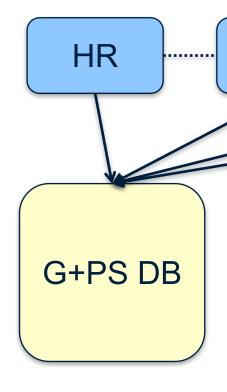
- Huge variety of profiles
- May include research expertise
- Project descriptions
- Current student details

## Structured data (one time load)

- UBC media experts
- Internal expertise list



## Campus Vancouver



Departm.
Profile

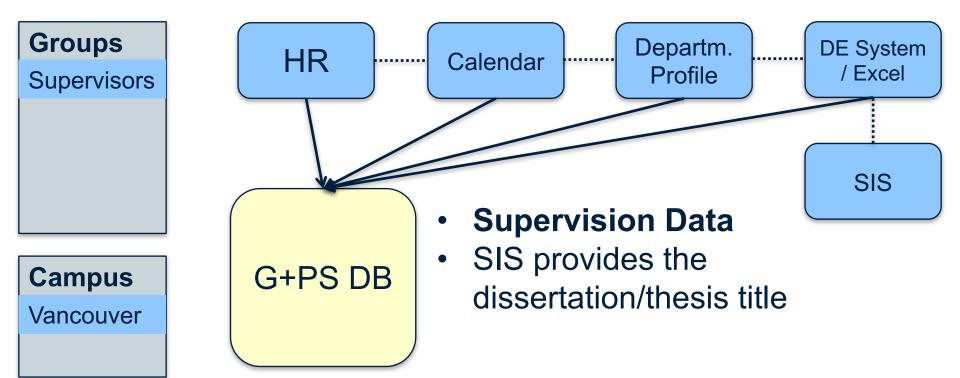
DE System / Excel

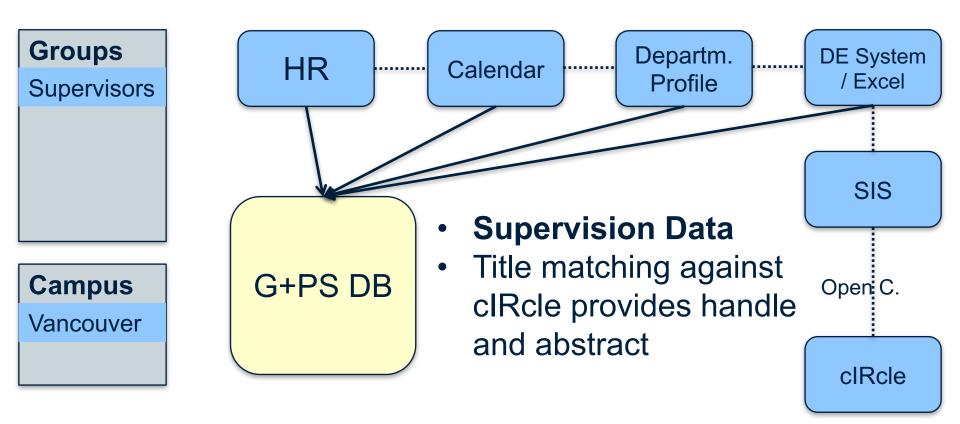
Supervision Data

Calendar

- DE system provides relationship between faculty and doctoral student
- Digitization of Master forms ongoing

Database extract, paper

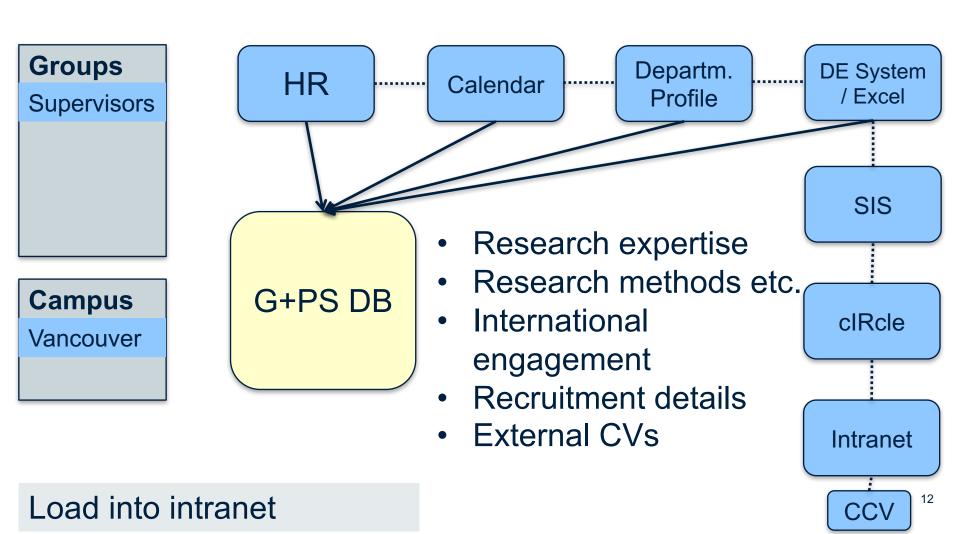


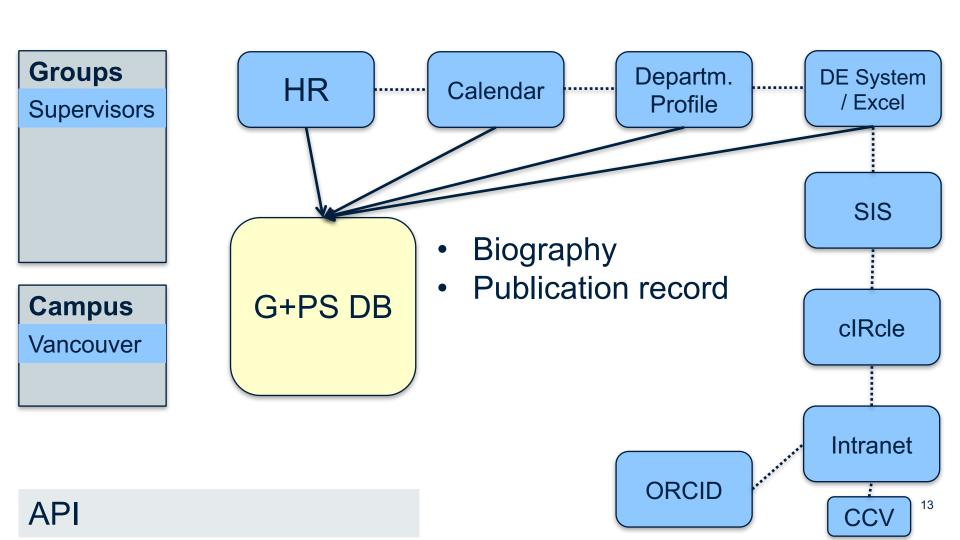


### **UBC OPEN COLLECTIONS**



- UBC Library digital assets coming from DSpace, Dataverse, AtoM and CONTENTdm
- More than 219,000 digital objects
- RESTful API https://open.library.ubc.ca/research to get content out and in
- DOIs minted to all items
- Also used by the national Federated Research Data Repository (<u>FRDR</u>) a national discovery layer for research data



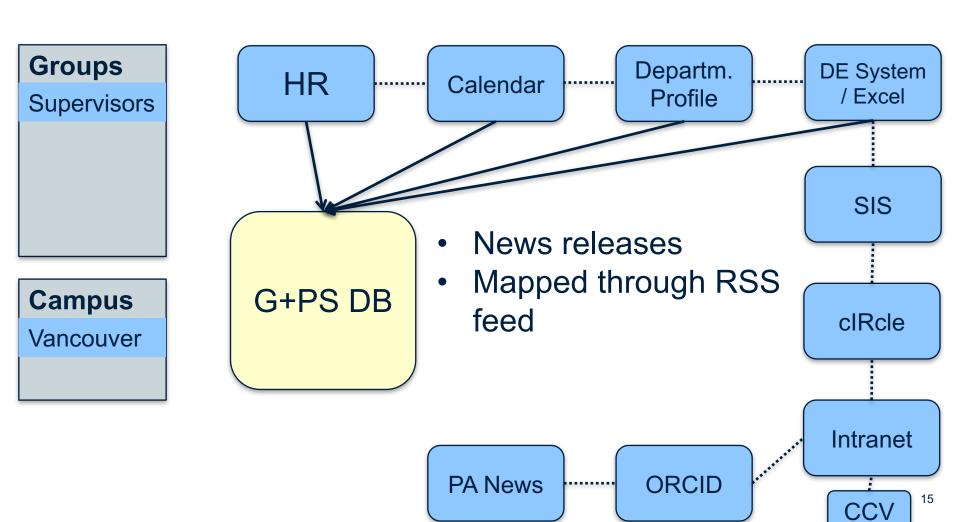


### **ORCID**



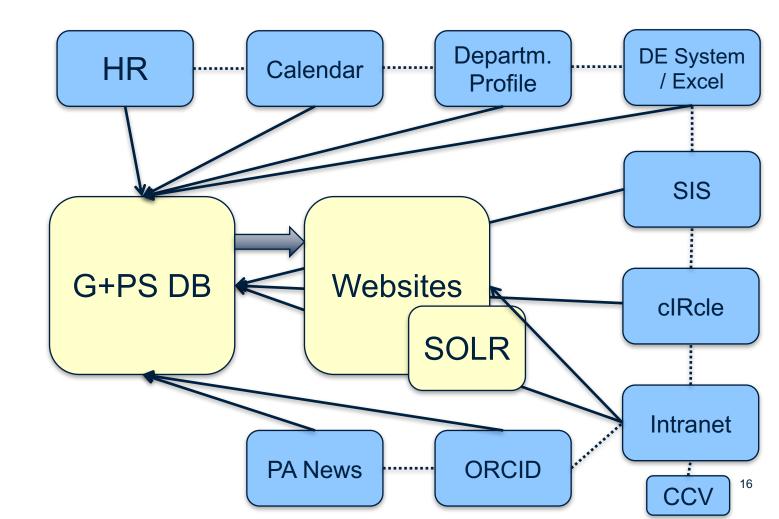
- Provides a persistent digital identifier to distinguish you from others and supports you in your manuscript and grant submission activities
- UBC does not currently have a campus-wide policy on ORCID use
- Some departments do request their faculty to use ORCID
- We have 5 ORCID-CA channels you can use
- Contact Leonora Crema @UBC Library leonora.crema@ubc.ca

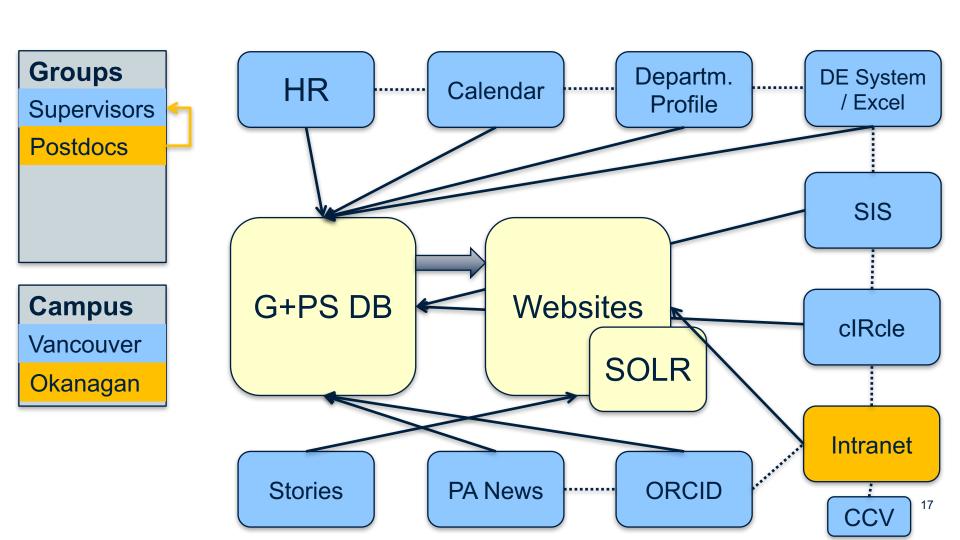


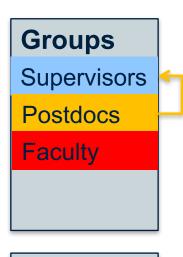


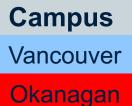


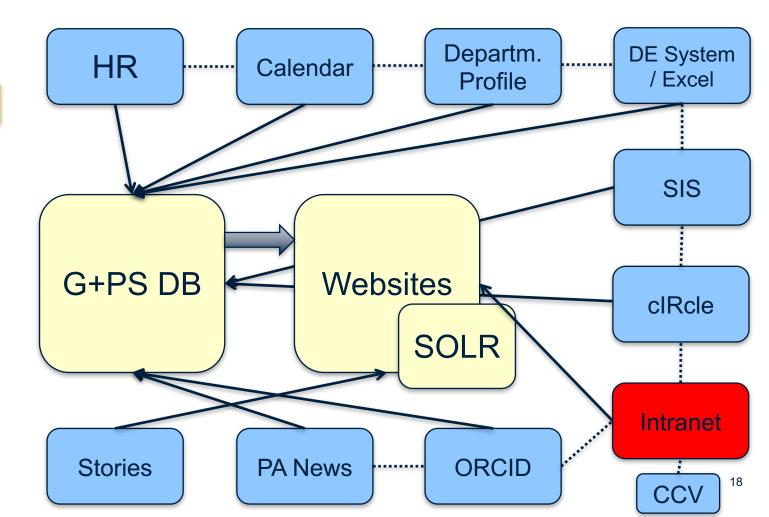












### **ENHANCEMENT OPPORTUNITIES**



- Scope
  - Future Hires
  - Emeriti
- Figure out issues related to paper delays
- More data to be included
  - Images
  - Project grants, research funding (RISe)
  - Departmental news releases
  - Social media data
  - Alt metrics
- Real-time data
- ORCID member API integration
- Pushing data out, e.g. ELDAP

### **CHALLENGES & LESSONS LEARNED**



- Human factor
  - Agile vs. Waterfall
  - Buy-in
  - Too many systems, too many update requests
  - Requirement to update?
- Data governance
  - Shared taxonomies
  - Data standards
- System interoperability

### EXTERNAL OPPORTUNITY-MATCHING

- Donor relations
- Industry partnerships
- Community Engagement
- Government Relations
- International partnerships
- Graduate student/ postdoc recruitment
- Public Affairs/ Media Relations
- Research support offices



### INTERNAL STRATEGIC DEVELOPMENT

- Finding appropriate reviewers
- Responding to government priorities/ opportunities
- Cross-campus collaborations
- Designing institutional support to advance research capacity
- Assessing, evaluating, and support interdisciplinary research



### **EVALUATING EXPERTISE IN INTERDISCIPLINARY TOPICS**

### **ACTIVITY** (example)

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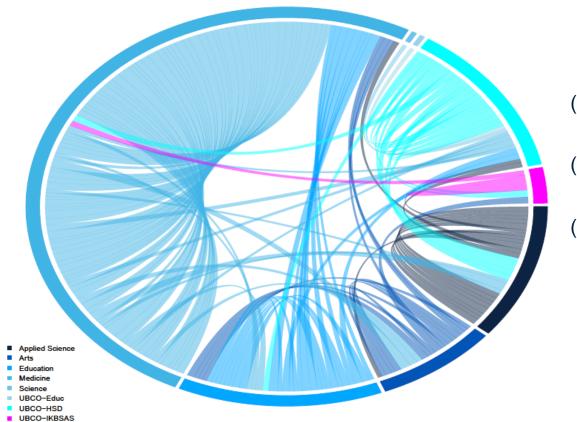
Number of researchers	5-year funding	Researchers with +\$1m funding	Faculties (% of overall funding)				
120	\$142m	28	Medicine (59%) Arts (11%) Education (10%) Applied Science (8%)	UBCO FHSD (5%) UBCO Education (4%) Pharmacy (1%) Science (1%)	UBCO SAS (1%) Dentistry (0.1%) Law (0.1%)		



IMPACT (example)

11011 /		Academic impact			Economic impact			Recognition	
Interdisciplinary topic A		Researcher s with h- index over 20 (% of total)	Researcher s with h- index over 50 (% of total)	Patent applications	Disclosed technologies	Spin offs	CRCs	Significant awards and honors	
	18.2	50 (42%)	8 (7%)	12	25	1	10	35	

### **ASSESSING COLLABORATION IN INTERDISCIPLINARY TOPICS**

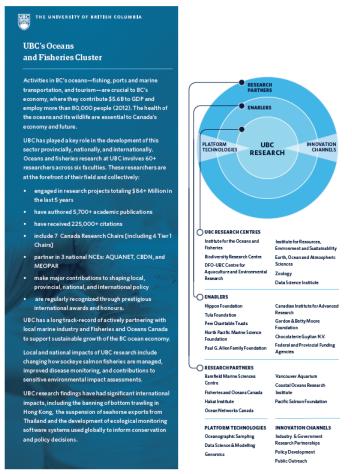




- (1) Evaluate degree of collaboration
- (2) Identify barriers to collaboration
- (3) Design support to increase collaboration

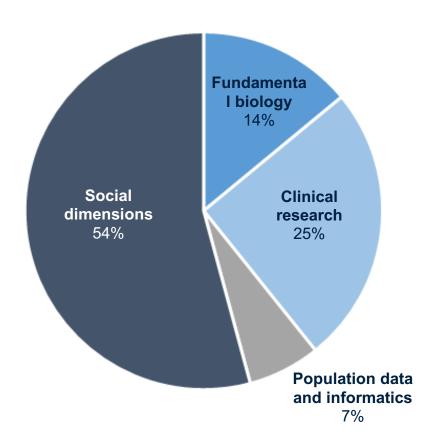
# SHOWCASING EXPERTISE IN INTERDISCIPLINARY TOPICS

View and showcase research in interdisciplinary topics at the institutional level and not by organizational unit [e.g., Faculty, School, Department]





### **ASSESSING RESEARCH IN INTERDISCIPLINARY TOPICS**



- (1) Evaluate diversity in approach to research
- (2) Identify strengths and opportunities
- (3) Design support [e.g., new hires]



