

Data Sharing Services and Infrastructure at Princeton

A case study

Wind Cowles, PhD

Associate Dean for Data, Research, and Teaching
Princeton University Library

Data Curation Network's Sustaining Open Research: Desirable Characteristics of Data Repositories for Federally Funded Research. Virtual Learning Day 2, Wednesday, August 2, 1:00pm-2:30pm EST.

Princeton Research Data Service: Origin Story

- Conversations between Dean of Libraries, Dean for Research, and CIO
 - Input from academic departments on need for open data repository support
- Proposal for service hosted by the library, with 4 new staff lines and storage costs for 2 TB/faculty
 - Director started in April 2019
 - Reporting directly to Dean of Libraries, dashed line to Dean for Research
 - RDM Specialists started early November 2019 (reporting to Director)
 - Research Data Storage Management Engineer started in January 2020 (based in Research Computing, dashed line to Director)

Mission of the Princeton Research Data Service



Provide Princeton's research community with the expert services and infrastructure needed to **store, manage, retain, and curate digital research data**, and to make it available to the **broader research community and to the public.**

> Office of the
Dean for Research



Consultations, resources, and tools

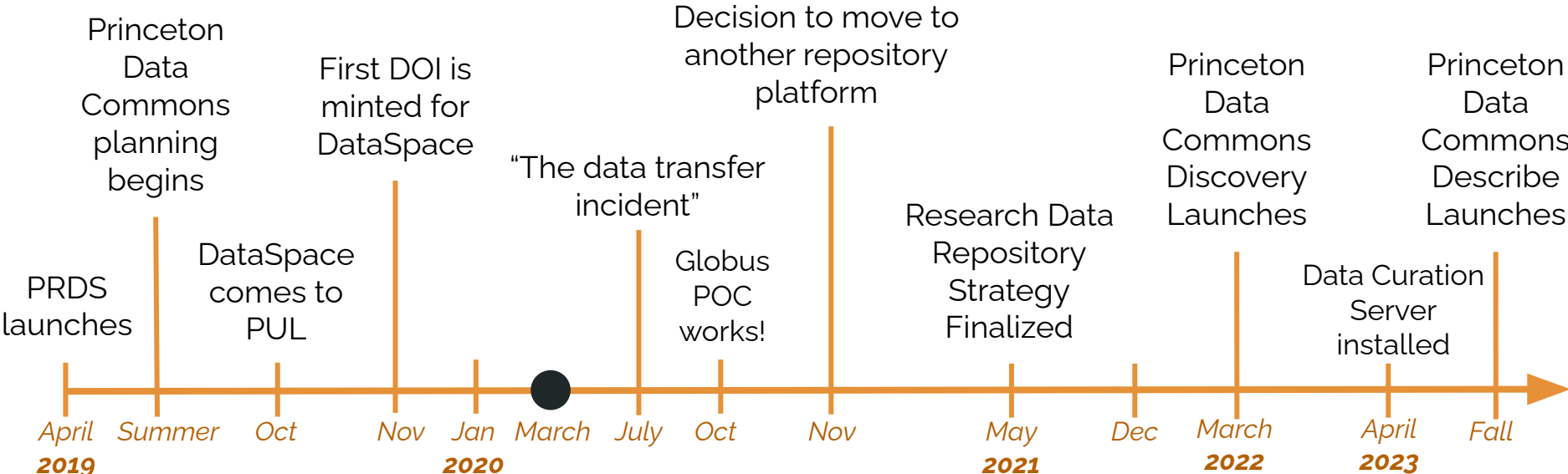
- Consultations on **data management, documentation, and stewardship**, and open research practices
- Feedback and advice on **Data Management Plans**
- Tools for open data and code practices and data management, including **ORCID and Code Ocean**

Training and Instruction

- **Live workshops/webinars** on tools and best practices
- Research Data **Stewardship Program**
- **Custom workshops** available for labs, departments, and centers
- **Recorded webinars** and tutorials

Research data repository services

- Data curation guidance and assistance (regardless of repository)
- Host and manage **Princeton's Research Data Repository**
- Re-use support: **Data curation services**
- Discovery and Citation support: **DOIs for datasets**
- Large data support



Discussions about a new 'TigerData' service begin

PRDS Advisory Committee approves 3-year roadmap

Proposal written for a Campus-wide ORCID integration

RDM Specialists start

Initial meeting of ADCI

Conversations about RIMS start

PRDS Website goes live

Research Data and Open Scholarship formed

Open Scholarship Repository Manager starts

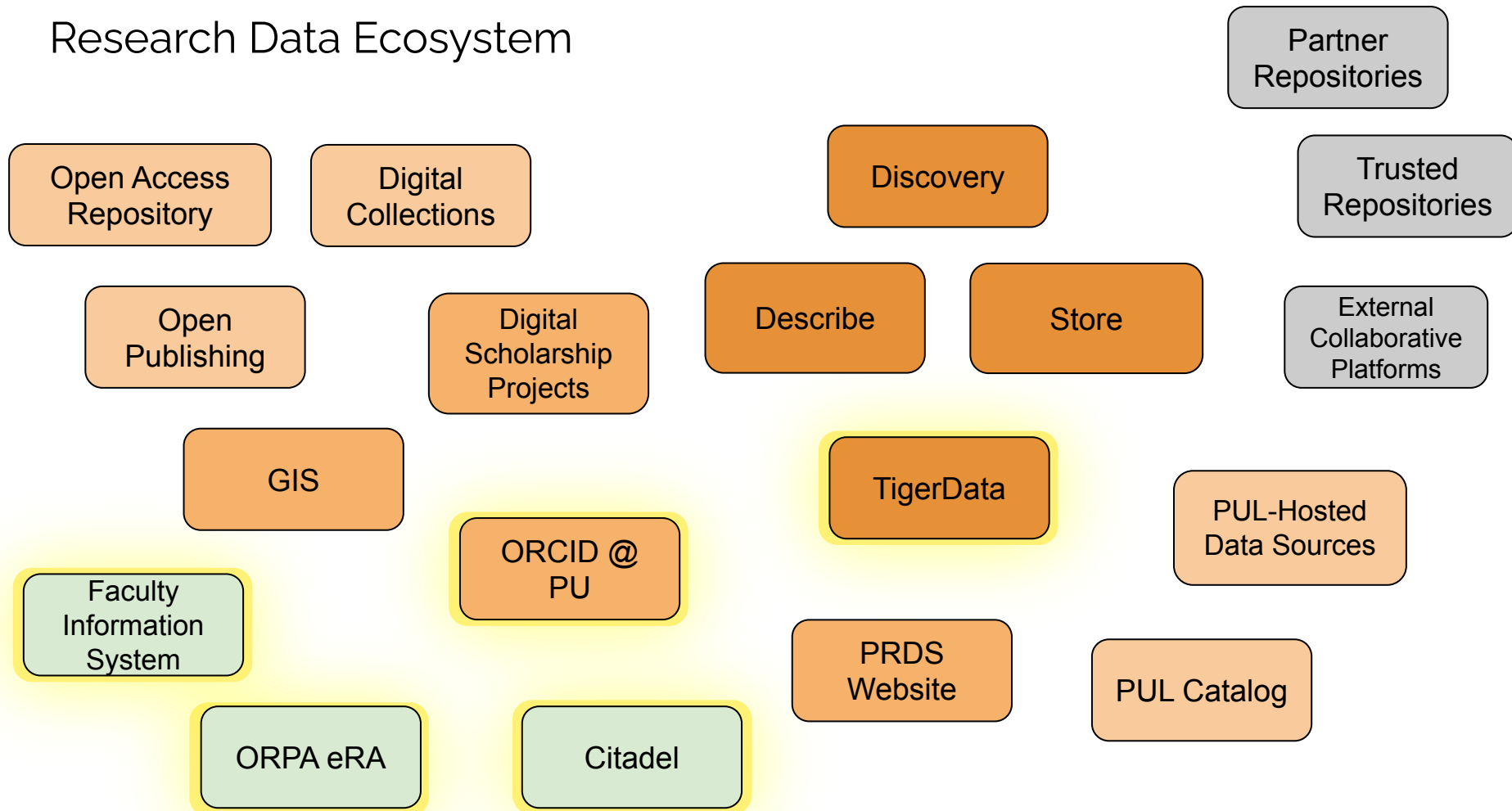
Princeton Research Data Framework WG formed

Data, Research, and Teaching formed

Campus ORCID project started

RDM Specialists & RD Services Manager Start

Research Data Ecosystem



Key Campus Partners

- Princeton University Library (PUL)
- Office of the Dean for Research (DFR)
 - Office of Research and Project Administration
- Office of Information Technology (OIT)
 - Research Computing
- Graduate School
- Research Centers
 - Center for Digital Humanities
 - Data-Driven Social Sciences Initiative
 - Princeton Institute for Computational Science and Engineering
 - Princeton Neuroscience Institute
 - Princeton Plasma Physics Lab
 - ...
- University Data Officer

Key Supporters:

- Provost Office
- Faculty Champions

Identifying overlapping areas of interest & goals

Compliance & Governance

- ORCID and Persistent Identifiers
- Data Management Plans
- Research data ethics and security
- Research data framework / policies

Stewardship

- Long-term value of research outputs
- Effective use of university resources

Advancing Research

- Impact, reproducibility, data sources, teaching, advanced methods, open research, ...

Challenges (and approaches)

Silos

- Identifying shared goals & related challenges; identifying and respecting areas of strength; building trust

Bandwidth

- Finding champions for building resources; agile, iterative approach; managing expectations

Speed of change / evolving space

- Building networks of reflexive collaboration & information sharing; north stars approach; accepting/embracing change

A sustainable ecosystem for open data

Situating a data repository within the larger campus system

How can it connect to other systems and services on campus?

Identifying key partners (and supporters) and finding shared goals and interests

How can we solve overlapping problems together?

Thanks!



Wind Cowles, PhD

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windcowles@princeton.edu