Library-Faculty Collaboration on Publishing Data Analysis

Dan Coughlin

Penn State, University Libraries

Head, Libraries Strategic Technologies

Penn State University

- Huck Institutes Website Goals
  - Promote faculty research
  - Assist Potential Graduate Students

Huck Institutes Data Needs

- What are the latest publications from our faculty?

- What graduate committees are our faculty participating on?
  - What research are those graduate students doing?

Huck Institutes Data Needs

- What are the latest publications from our faculty?

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Electronic Theses and Dissertations
The Graduate School

Huck Institutes Data Needs
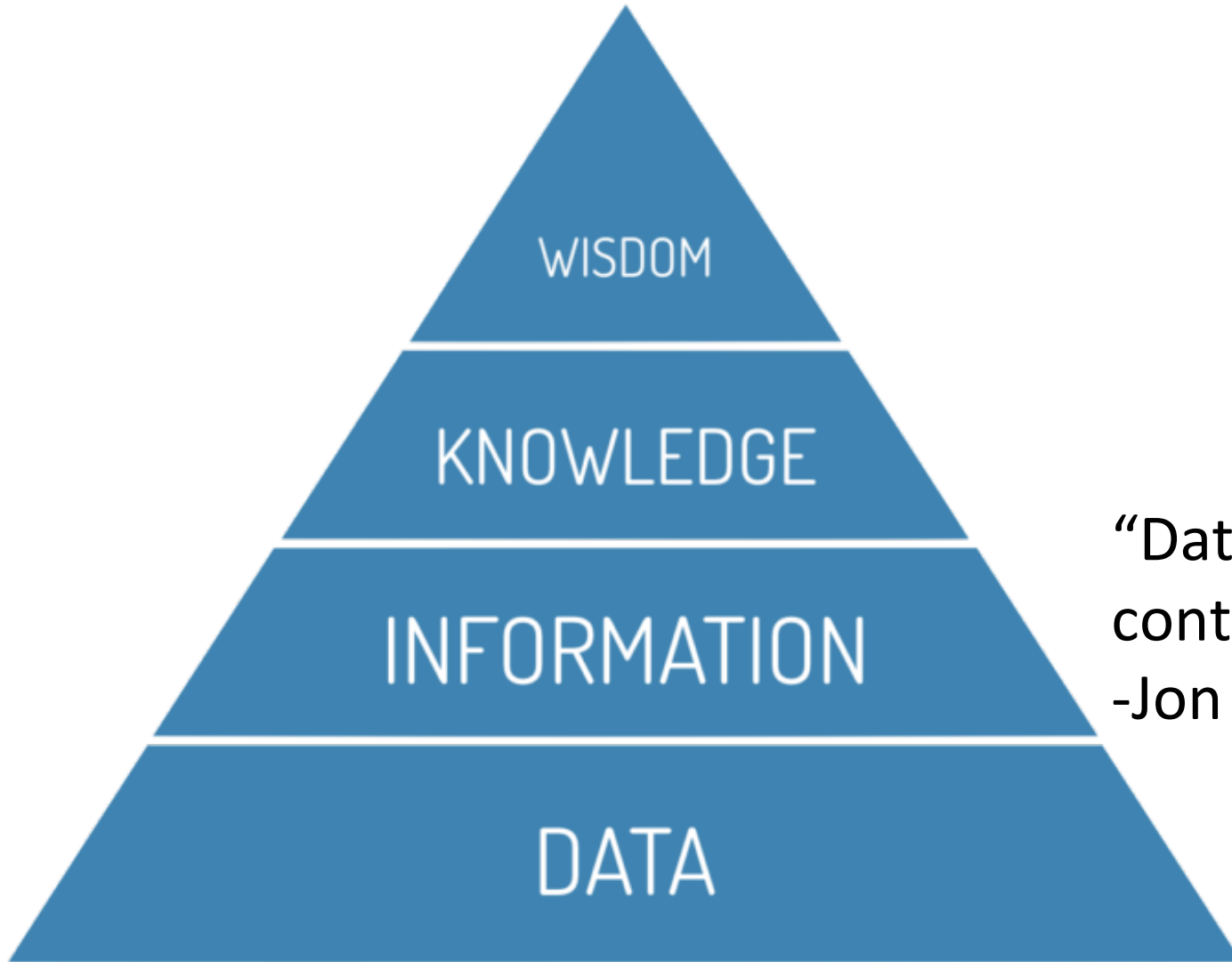
- What are the latest publications from our faculty?

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Electronic Theses and Dissertations

The Graduate School

Open Access

Huck Institutes Data Needs &Open Access

- What are the latest publications from our faculty?

- What graduate committees are our faculty participating on?
  - What research are those graduate students doing?

Huck Institutes Data Needs

"Data is facts, and information contextualizes those facts"
-Jon Hill

Use Cases

- Provide up to data publication data

- Provide Electronic and Theses Dissertation committee information

- Assist with faculty compliance of Penn State's Open Access Policy

Researcher Metadata Database (RMD)

3 Goals

1. Power Open Access workflow
2. Provide Access to Data via API
   - Faculty profiles
   - Institute and Department sites
3. Generate administrative reports

Data Flow Diagram

.∴:Digital Measures

Also called:
- Activity Insight
- AI
- Faculty Activity Insight
- Watermark

RMD receives:
- Education
- Employment
- Brief Bio
- Contact Info
- Publications
- Presentations
- Performances
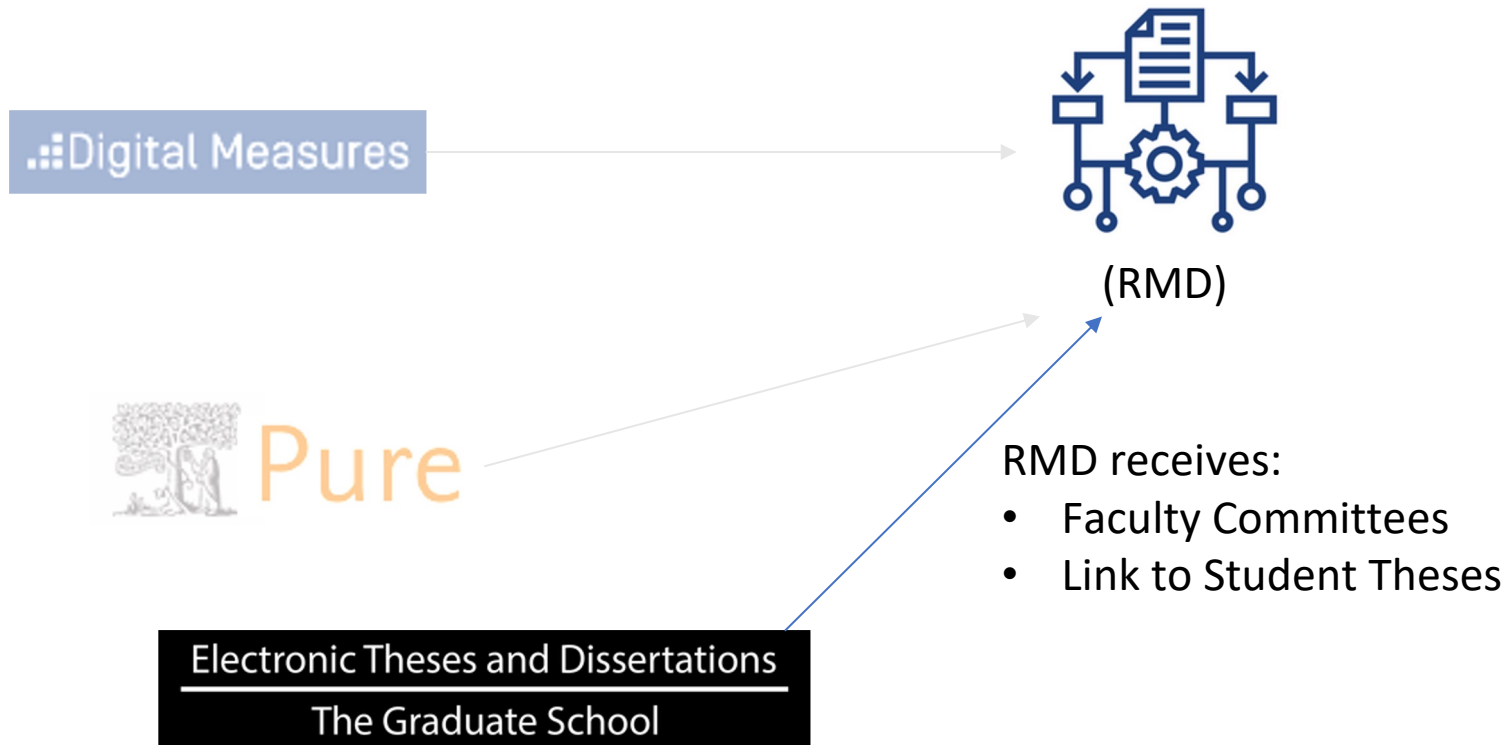- Research Interests
- Teaching Interests

(RMD)

Data Flow Diagram

Digital Measures

RMD receives:
- Publications

(RMD)

Pure

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RMD receives:
- Faculty Committees
- Link to Student Theses

.::Digital Measures

Pure

Electronic Theses and Dissertations
The Graduate School

Data Flow Diagram

(RMD)

RMD receives:
- Links to stories on news.psu.edu featuring faculty

Data Flow Diagram

(RMD)

Digital Measures

Pure

Electronic Theses and Dissertations
The Graduate School

PENN STATE NEWS

Web of Science™

RMD receives:
- Publications
- Grant Numbers

Data Flow Diagram

Digital Measures

(RMD)

National Science Foundation
WHERE DISCOVERIES BEGIN

NSF

RMD receives:
- Grant Number
- Abstract

Pure

Electronic Theses and Dissertations
The Graduate School

PENN STATE NEWS

Web of Science™

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Electronic Theses and
The Graduate

Researcher Metadata Database

University Libraries

PennState

Bio Publications Presentations Performances Other Works

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Icon key:

Open Access Status

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🔒 Open access obligations have been waived for this publication.

⏳ An open access version of this publication is currently being added to ScholarSphere.

❗ Adding this publication to ScholarSphere failed. Please try again in a little while or contact support for assistance.

? The open access status of this publication is currently unknown. Click the title to add information or submit a waiver.

○ This publication is in press and will not be subject to the open access policy until it is published.

Authorship Confirmation

✔ Your authorship of the publication has been confirmed.

— Confirmation of your authorship of the publication is pending review by an RMD administrator.

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Publication	Visible in profile	Open Access Status	Authorship Confirmed	
↕ Balancing Community and Local Needs Releasing, Maintaining, and Rearchitecting the Institutional Repository, Information Technology & Libraries, 2022	☑	?	✔	Add to my ORCID Record
↕ A web analytics approach for appraising electronic resources in academic libraries, Journal of the American Society for Information Science and Technology, 2016	☑	🔒	✔	*This information has been added to your ORCID record.
↕ Modeling journal bibliometrics to predict downloads and inform purchase decisions at university research libraries, Journal of the American Society for Information Science and Technology, 2016	☑	🔒	✔	*This information has been added to your ORCID record.
↕ Building a Community of Curatorial Practice at Penn State: A Case Study, Journal of Digital Information, 2012	☑	?	✔	*This information has been added to your ORCID record.

Data Flow Diagram

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File *

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[X]

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Title *

Balancing Community and Local Needs Releasing, Maintaining, and Rearchitecting the Institutional Repository

Subtitle

Creators:
- Dan Coughlin

Description *

This paper examines the decision points over the course of ten years for developing an Institutional Repository. Specifically, the focus is on the impact and influence from the open-source community, the needs of the local institution, the role that team dynamics plays, and the chosen platform. Frequently, the discussion revolves around the technology stack and its limitations and capabilities. Inherently, any

Include the work abstract if available. Otherwise, provide a brief summary.

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Date of publication *

| 2022 | March | 21 |

Journal Name

Information Technology & Libraries

DOI

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ScholarSphere | PennState University Libraries

ORCiD
Connecting research and researchers

NSF National Science Foundation
WHERE DISCOVERIES BEGIN

Web of Science™

Data Flow Diagram

Data Flow Diagram

Open Access Button

RMD receives:
- Open Access URL for citations that have a DOI

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NSF National Science Foundation
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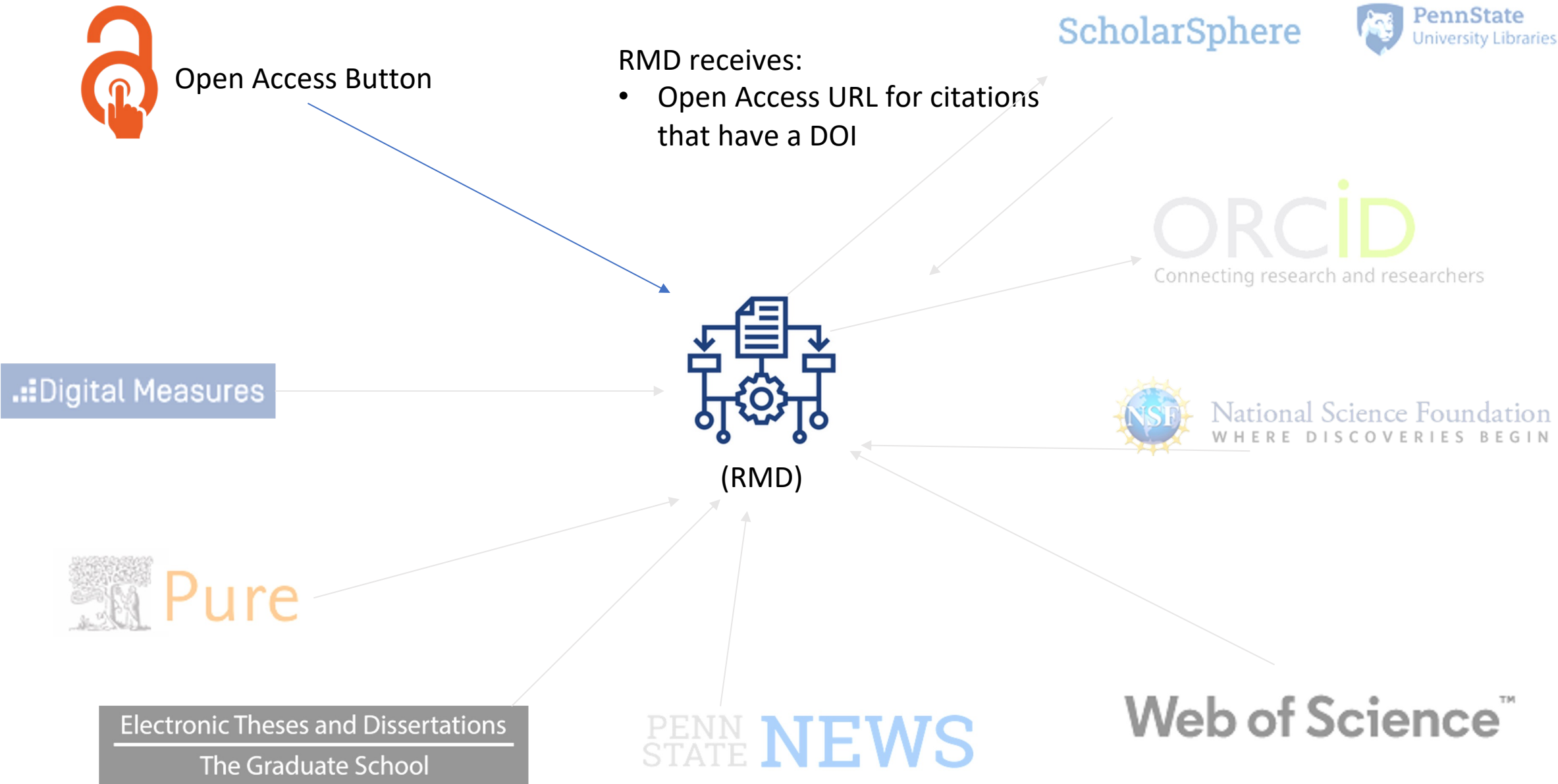Pure

Electronic Theses and Dissertations
The Graduate School

PENN STATE NEWS

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Directory Profiles and Department Pages

(RMD)

Directory Profiles and Department Pages

Researcher Metadata Database API `1.0.0`

`[ Base URL: / ]`

/api_docs/swagger_docs/v1/swagger.json

An API that serves as the authority on faculty and research metadata at Penn State University in the swagger-2.0 specification.

Authorize 🔒

publication ⌃

GET	`/v1/publications/{id}/grants` Retrieve a publication's grants	⌄ 🔒
GET	`/v1/publications/{id}` Find Publication by ID	⌄ 🔒
GET	`/v1/publications` All Publications	⌄ 🔒
PATCH	`/v1/publications` Update publication's ScholarSphere Open Access Link	⌄ 🔒

user ⌃

GET	`/v1/users/{webaccess_id}/organization_memberships` Retrieve the user's organization memberships	⌄ 🔒
GET	`/v1/users/{webaccess_id}/news_feed_items` Retrieve a user's news feed items	⌄ 🔒
GET	`/v1/users/{webaccess_id}/presentations` Retrieve a user's presentations	⌄ 🔒
GET	`/v1/users/{webaccess_id}/grants` Retrieve a user's grants	⌄ 🔒
GET	`/v1/users/{webaccess_id}/performances` Retrieve a user's performances	⌄ 🔒
GET	`/v1/users/{webaccess_id}/etds` Retrieve a user's student advising history	⌄ 🔒
GET	`/v1/users/{webaccess_id}/publications` Retrieve a user's publications	⌄ 🔒
GET	`/v1/users/{webaccess_id}/profile` Retrieve a user's profile	⌄
POST	`/v1/users/publications` Retrieve publications for a group of users	⌄ 🔒

Directory Profiles and
Department Pages

Reasons for developing our API

1. Prevent fracturing of used applications on campus
2. Mitigate issues around data quality
3. Centralize vendor updates

Directory Profiles and Department Pages

Bio **Publications** Grants Presentations Graduate Advising News Ot

Tracy L Langkilde

Head of Department

Biology

0510 Mueller Lab

(814) 867-2251

tll30@psu.edu

Scopus H-index 24

Scopus Citations 2213

Pure Profile

Publications

Context-dependent effects of glucocorticoids on the lizard gut microbiome, *Molecular Ecology*, 2022

Compensating for a stressful pregnancy? Glucocorticoid treatment during gravidity reduces metabolic rate in female fence lizards post-parturition, *Hormones and Behavior*, 2021

A chromosome-level genome assembly for the eastern fence lizard (Sceloporus undulatus), a reptile model for physiological and evolutionary ecology, *GigaScience*, 2021

Elevated glucocorticoids during gestation suggest sex-specific effects on offspring telomere lengths in a wild lizard, *Comparative biochemistry and physiology. Part A, Molecular & integrative physiology*, 2021

Honest signals and sexual conflict, *Ecology and Evolution*, 2021

Size-assortative mating in explosive breeders, *Behaviour*, 2021

Ecoimmune reallocation in a native lizard in response to the presence of invasive, venomous fire ants in their shared environment, *Journal of Experimental Zoology Part A: Ecological and Integrative Physiology*, 2020

Directory Profiles and Department Pages

Christopher A Kiver
School of Music

▥ 0233 Music Building 1

☎ (814) 863-4400

✉ cak27@psu.edu

Pure Profile

Research Interests

Music advocacy; repertoire selection;
rehearsal methodology

Bio   Publications   Presentations   **Performances**   Graduate Advising

Performances

The World I Want to See, Univeristy Park, PA, USAUniversity Park, PA, 7/1/2019

Iolanthe - Gilbert and Sullivan, State Theater, State College, PA, USA, 3/16/2018

University of Northern Arizona Jazz/Madrigal Festival, University of Northern Arizona, Flagstaff, AZ, USA, 2/12/2015

Penn State Honors Music Institute, Esber Recital Hall, University Park, PA, USA, 7/1/2013

Mass - Leonard Bernstein, Eisenhower Auditorium, University Park, PA, USA, 4/5/2013

Mass - Leonard Bernstein, University Park, PA, USA, 4/5/2013

MSVMA State Choral Festival, Mount Pleasant, MI, USA, 5/8/2012

MSVMA State High School Choral Festival, Central Michigan University, Mount Pleasant, MI, USA, 5/8/2012

Amahl and the Night Visitors - Carlo Menotti, State Theater, State College, PA, USA, 3/18/2011

MSVMA State Junior High/Middle School Choral Festival, Central Michigan University, Mount Pleasant, MI, USA, 5/14/2009

MSVMA State High School Choral Festival, Ann Arbor, MI, USA, 5/12/2009

Directory Profiles and Department Pages

Andrew Read

Director, Huck Institutes of the Life Sciences; Evan Pugh Professor of Biology and Entomology; Eberly Professor of Biotechnology

Bio & Links	**Papers**	In the News

Publication Tags

| Temperature | Malaria | Parasites | Culicidae | Anti Bacterial Agents | Therapeutics | Resistance |

| Drug Resistance | Vaccines | Daptomycin | Pathogens | Infection | Pharmaceutical Preparations |

| Antimicrobial Agent | Resistance Management | Clinical Trials | Population Dynamics | Bacteria | Chemotherapy |

| Feeding Behavior | Microbial Drug Resistance | Drug Therapy | Antibiotic Resistance | Neoplasms | Anopheles |

Most Recent Papers

The economics of managing evolution

Troy Day, David A. Kennedy, Andrew F. Read, David McAdams, 2021, PLoS Biology

📍 201 Huck Life Sciences
University Park, PA 16802

👤 He/Him

✉ afr3@psu.edu

📞 814-867-2396

Directory Profiles and
Department Pages

Home > Research > Publications

Publications

A listing of publications as a result of faculty research in the Department of Food Science at Penn State.

Part 3: Analysis of Milk and Dairy Products: Gas Chromatography, Hopfer, Helene, 2022

Genomic analysis of Salmonella Typhimurium from humans and food sources accurately predicts phenotypic multi-drug resistance

Food Microbiology, Yin, Xin, Fu, Yezhi, Tate, Heather, Pinto, Casey, Dudley, Edward G., M'ikanatha, Nkuchia M., 2022

Characterization of high pressure jet–induced fat-protein complexation

Admin Reports

	Id	Title	Secondary title	Organizations	Journal title	Volume	...
☐	450865	Prior sample size extensions for ...	-	Statistics and Statistics	Journal of the Royal Statistical S...	83	... ⓘ ✎ ✖
☐	450864	Acute Postoperative Bisphospho...	-	Department of Orthopaedics and ...	JBJS case connector	3	... ⓘ ✎ ✖
☐	450856	Beaming in Charcot Arthropathy-...	-	Department of Orthopaedics and ...	The Journal of foot and ankle sur...	56	... ⓘ ✎ ✖
☐	450855	Tibialis Anterior Tendon Reconstr...	-	Department of Orthopaedics and ...	Foot & ankle specialist	10	... ⓘ ✎ ✖
☐	450854	Experience with Navigation in Tot...	-	Department of Orthopaedics and ...	Foot and ankle clinics	22	... ⓘ ✎ ✖
☐	450853	Anatomic Structures at Risk Whe...	-	Department of Orthopaedics and ...	Foot & ankle international	38	... ⓘ ✎ ✖
☐	450852	Medial Double Arthrodesis: Tech...	-	Department of Orthopaedics and ...	The Journal of foot and ankle sur...	57	... ⓘ ✎ ✖
☐	450851	Predicting Failure of Nonoperativ...	-	Department of Orthopaedics and ...	Foot & ankle specialist	11	... ⓘ ✎ ✖
☐	450850	Content Relevance of the Foot a...	-	Department of Orthopaedics and ...	Foot & ankle specialist	11	... ⓘ ✎ ✖
☐	450849	Medial Structure Injury During Su...	-	Department of Orthopaedics and ...	Foot & ankle international	39	... ⓘ ✎ ✖
☐	450848	Negotiating Your Practice, the Ea...	-	Department of Orthopaedics and ...	Foot & ankle specialist	12	... ⓘ ✎ ✖
☐	450847	Lapidus HAV Correction	Essential Foot and Ankle Surgical...	Department of Orthopaedics and ...	-	-	... ⓘ ✎ ✖
☐	450846	Outcomes of the Extended Z-Cut...	-	Department of Orthopaedics and ...	Foot & ankle international	40	... ⓘ ✎ ✖
☐	450845	Brake Response Time Recovery ...	-	Department of Orthopaedics and ...	Foot & ankle specialist	13	... ⓘ ✎ ✖
☐	450844	Computed Tomographic Validatio...	-	Department of Orthopaedics and ...	Foot & ankle international	41	... ⓘ ✎ ✖
☐	450843	Reliability of the "Clinical Tibiofib...	-	Department of Orthopaedics and ...	Foot & ankle specialist	13	... ⓘ ✎ ✖
☐	450842	Anterior Ankle Incision Wound Co...	-	Department of Orthopaedics and ...	The Journal of foot and ankle sur...	60	... ⓘ ✎ ✖
☐	450841	Pedal Musculovenous Pump Acti...	-	Department of Orthopaedics and ...	Foot & ankle specialist	-	... ⓘ ✎ ✖
☐	450840	Impact of Bone Graft on Fusion ...	-	Department of Orthopaedics and ...	The Journal of foot and ankle sur...	60	... ⓘ ✎ ✖

Sidebar:
Duplicate publication groups
Email errors
ETDs
External publication waivers
Grants
Importer error logs
Internal publication waivers
Journals
News feed items
Organizations
Performances
Presentations
Publications
Publishers
Scholarsphere work deposits
Statistics snapshots
Users

List | + Add new | Export | Add filter | Selected items

Filter | Refresh | Export found Publications

All | Open Access | Scholarsphere Open Access | User Open Access | OAB Open Access | Unpaywall Open Access

Open Access Workflow

(RMD)

.:: Digital Measures

Pure

Step 1:
- Receive Publication Information from Digital Measures
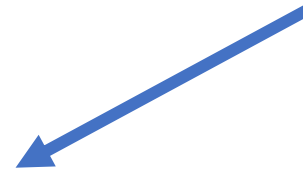- Receive Publication Information from Pure

(RMD)

Open Access Workflow

Step 1:
- Receive Publication Information from Digital Measures
- Receive Publication Information from Pure

Step 2:
- Manual de-duplicate publications
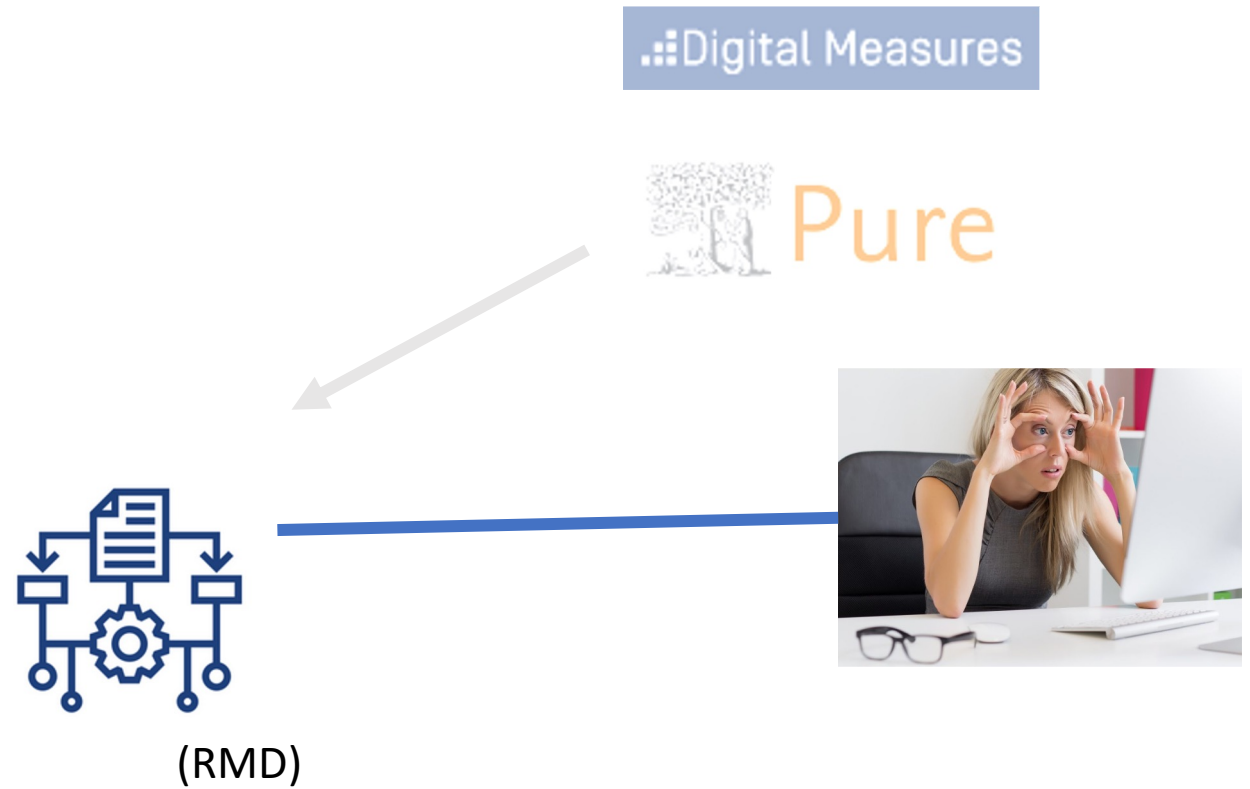

Digital Measures

Pure

(RMD)

Open Access Workflow

Step 1:
- Receive Publication Information from Digital Measures
- Receive Publication Information from Pure

Step 2:
- Manual de-duplicate publications

Step 3:
- Query Open Access Button to find publications for Open Accessible URLS

Digital Measures

Pure

(RMD)

Open Access Button
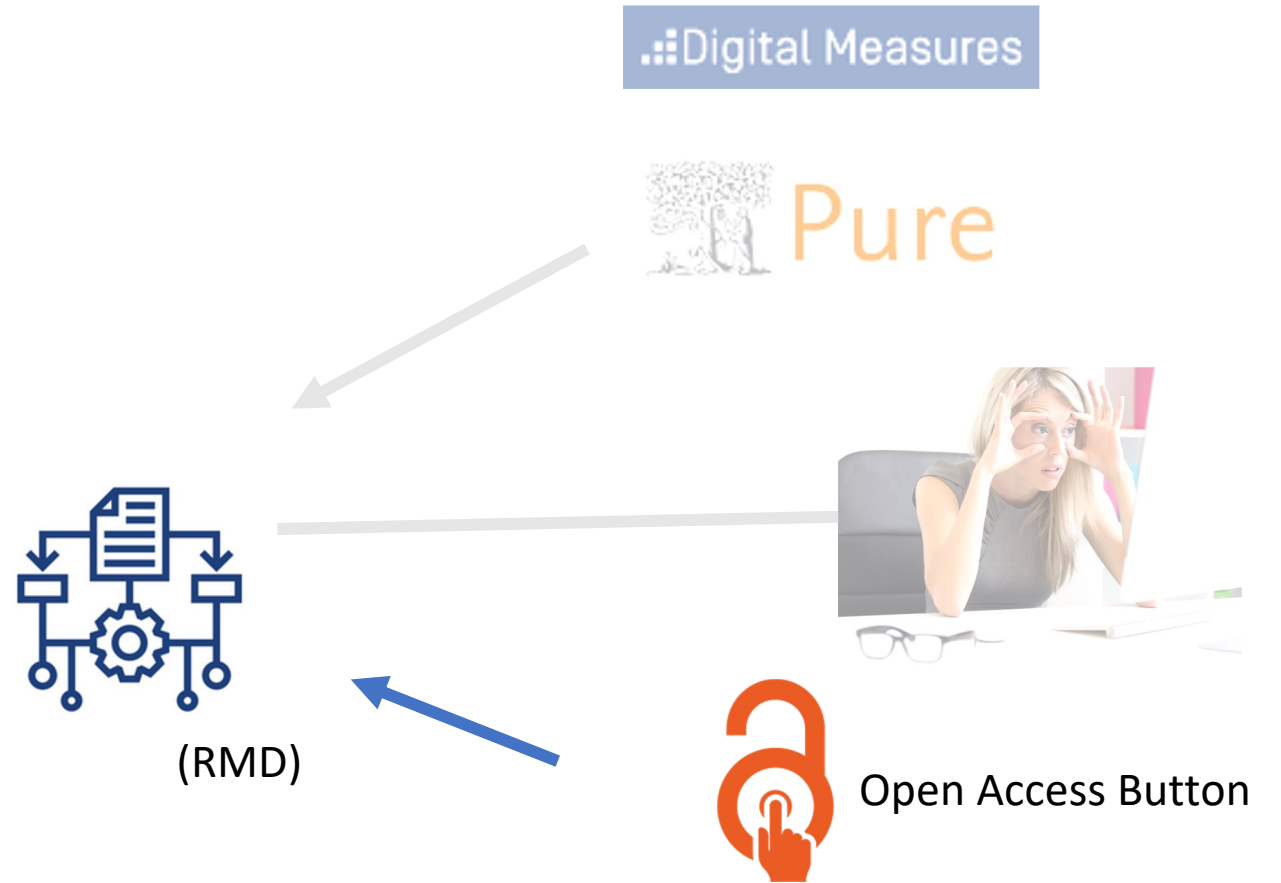
Open Access Workflow

Step 1:
- Receive Publication Information from Digital Measures
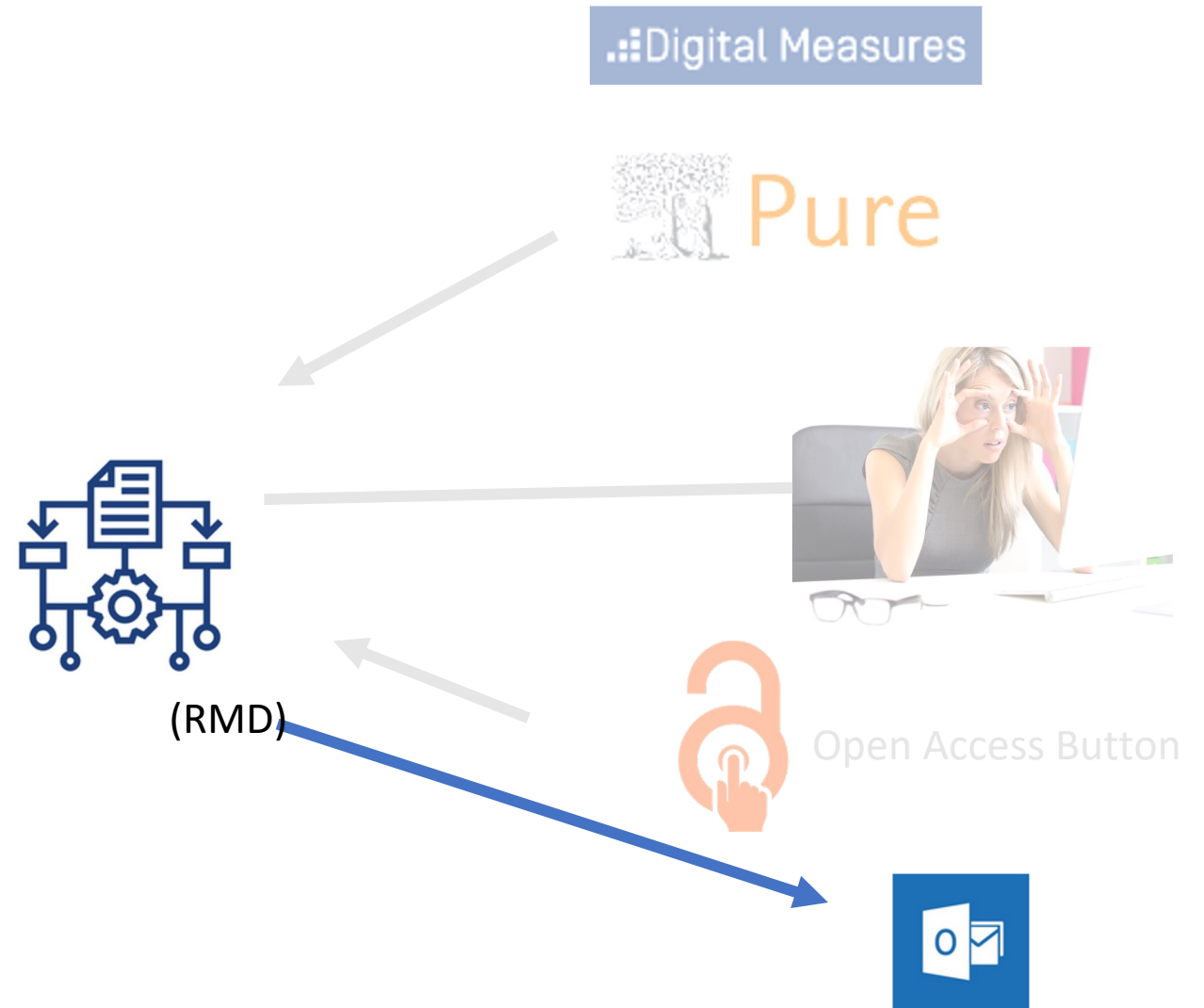- Receive Publication Information from Pure

Step 2:
- Manual de-duplicate publications

Step 3:
- Query Open Access Button to find publications for Open Accessible URLS

Step 4:
- Email researchers asking for publications that don't have an Open Access URL, but should have Open Access copy per Penn State policy.

.::Digital Measures

Pure

(RMD)

Open Access Button

Open Access Workflow

Step 1:
- Receive Publication Information from Digital Measures
- Receive Publication Information from Pure

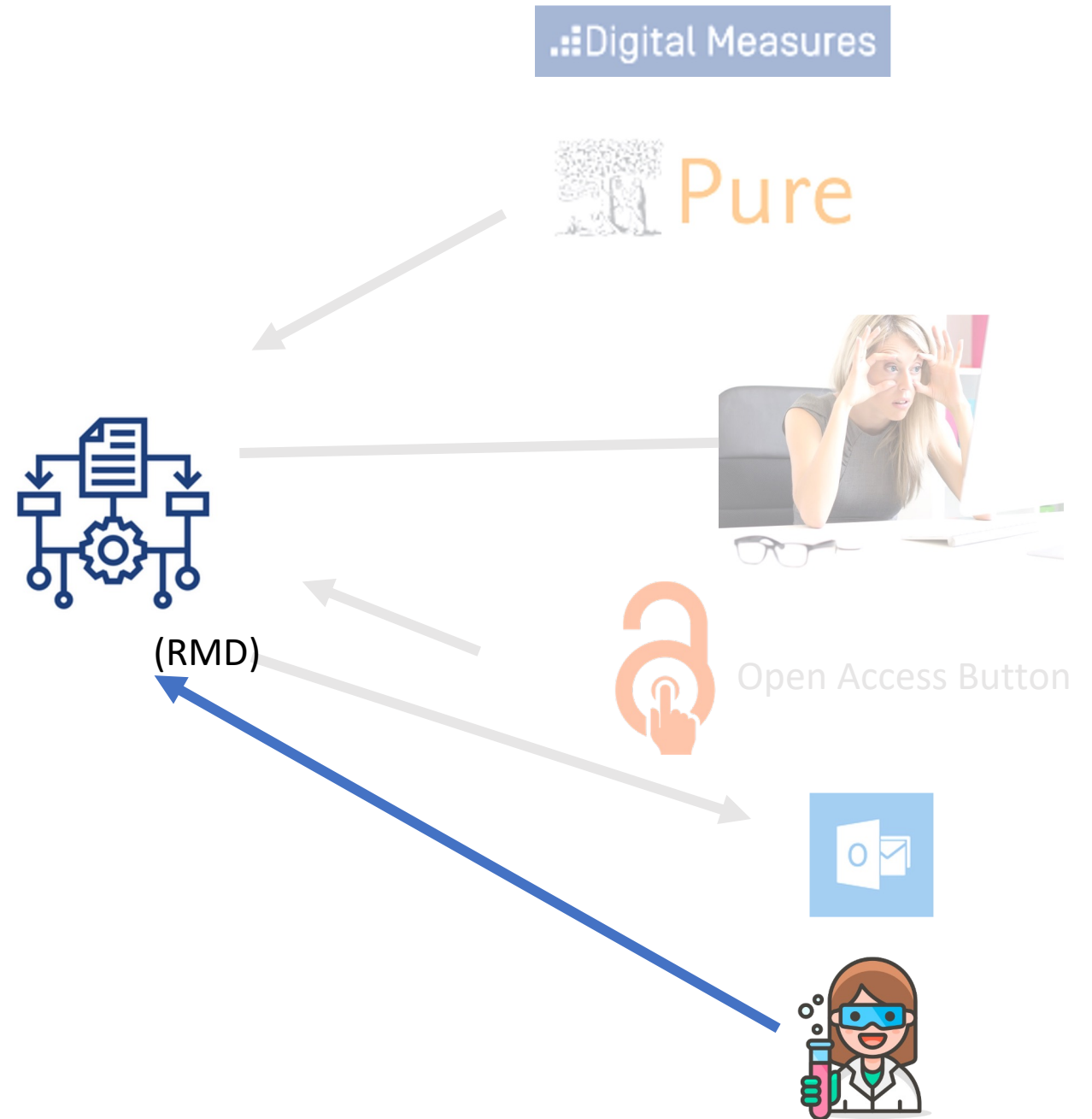**Step 2:**
- Manual de-duplicate publications

Step 3:
- Query Open Access Button to find publications for Open Accessible URLS

Step 4:
- Email researchers asking for publications that don't have an Open Access URL, but should have Open Access copy per Penn State policy.

Step 5:
- Researcher logs into RMD to provide
    - Open Access URL
    - Open Access copy (deposited to ScholarSphere)
    - Submit a waiver from the policy for article

.::Digital Measures

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(RMD)

Open Access Button

Thanks!

- Contributors
  - Ana Enriquez, Seth Erickson, Briana Ezray, Nicole Gampe, Brandy Karl, Alex Kiessling, Justin Patterson, Adam Wead, Cynthia Hudson-Vitale, Eric Durante, Natalie Simonson, Chet Swalina, Binky Lush, Dann Bohn