

# Data Governance - the Purdue Journey Continues

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**Sarah Bauer**

*Institutional Data Governance Program Manager*

**Kendal Kosta-Mikel**

*Data Governance Program Lead*

**Stephanie Dykhuizen**

*Content and Metadata Management Specialist*

**Kolitha Perera**

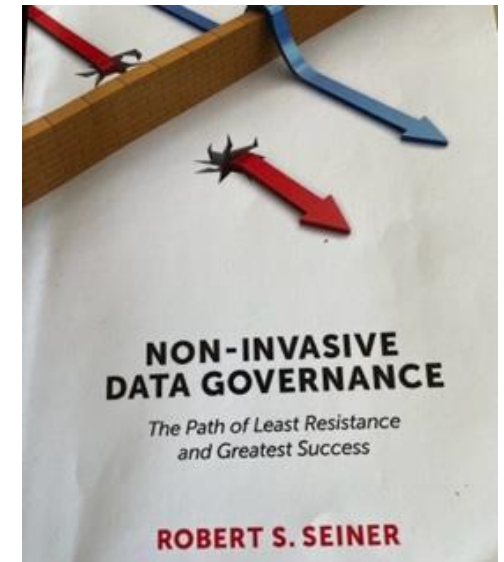
*Data Assistant,  
Student in Actuarial Science  
and Applied Statistics*



# 'Data does NOT govern itself' Robert Seiner

- Defining data governance
- Culture
- Leadership
- Support
- Pain points
- Opportunities

Non-Invasive Data Governance. Robert Seiner



# Data Governance Overview

## Staffing

- Sarah Bauer, Institutional Data Governance Program Manager
- Kendal Kosta-Mikel, Data Governance Program Lead
- Stephanie Dykhuizen, Content / Metadata Management, often overlap, 1 FTE
- Research Analyst, Cookbook ODBC, partial FTE
- Two undergraduate students

Data Cookbook – most visible data governance component

## Data Governance Structure

- Executive Data Council
- Committee leadership / participation

## Visibility, Knowledge Sharing

- Participation / leadership in campus committees
- Big Ten Academic Alliance Data Governance committee

- New ERPs and reporting environments
- Data Cookbook
- SAP Transformation (FI, HR, Research)
  - Early days of data governance
- Transformative Education 2.0 (Student)
  - Data governance more mature

# 'Data Governance' Positions

Raise hands if have position(s) with Data Governance in position title

1 or more positions?

Recently?

- Background, major
- Prior knowledge of data governance and metadata
- Data Cookbook
- Work/Team Environment
  - Definition/Spec Imports
  - Purdue Student Data Warehouse
  - Audit Tasks
- Future Opportunities
  - Data
  - Areas of Study

# Metadata – Data Cookbook





2,600+ users with log-ins



5,000 Definitions



700 Specifications (standard reports/dashboards)



60 Collections (groupings of reports/tables by topic)

# Functional Areas

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Academic Proposal

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Administrative Operations

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Admissions

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BICC

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Bursar

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Capital Asset Management

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Center for Career Opportunities (CCO)

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Ethics and Compliance (VPEC)

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Finance

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Financial Aid

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Graduate School

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Human Resources (HCM)

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Institutional Assessment

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Institutional Research IR

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Instructional Activity

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Office of Experiential Education

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Parking

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Plant Maintenance

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Purdue for Life

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Purdue Online

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Research (GM)

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Slate Graduate

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Space Administration

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Student

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Student Life

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Student Success Programs

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Teaching & Learning

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Transact

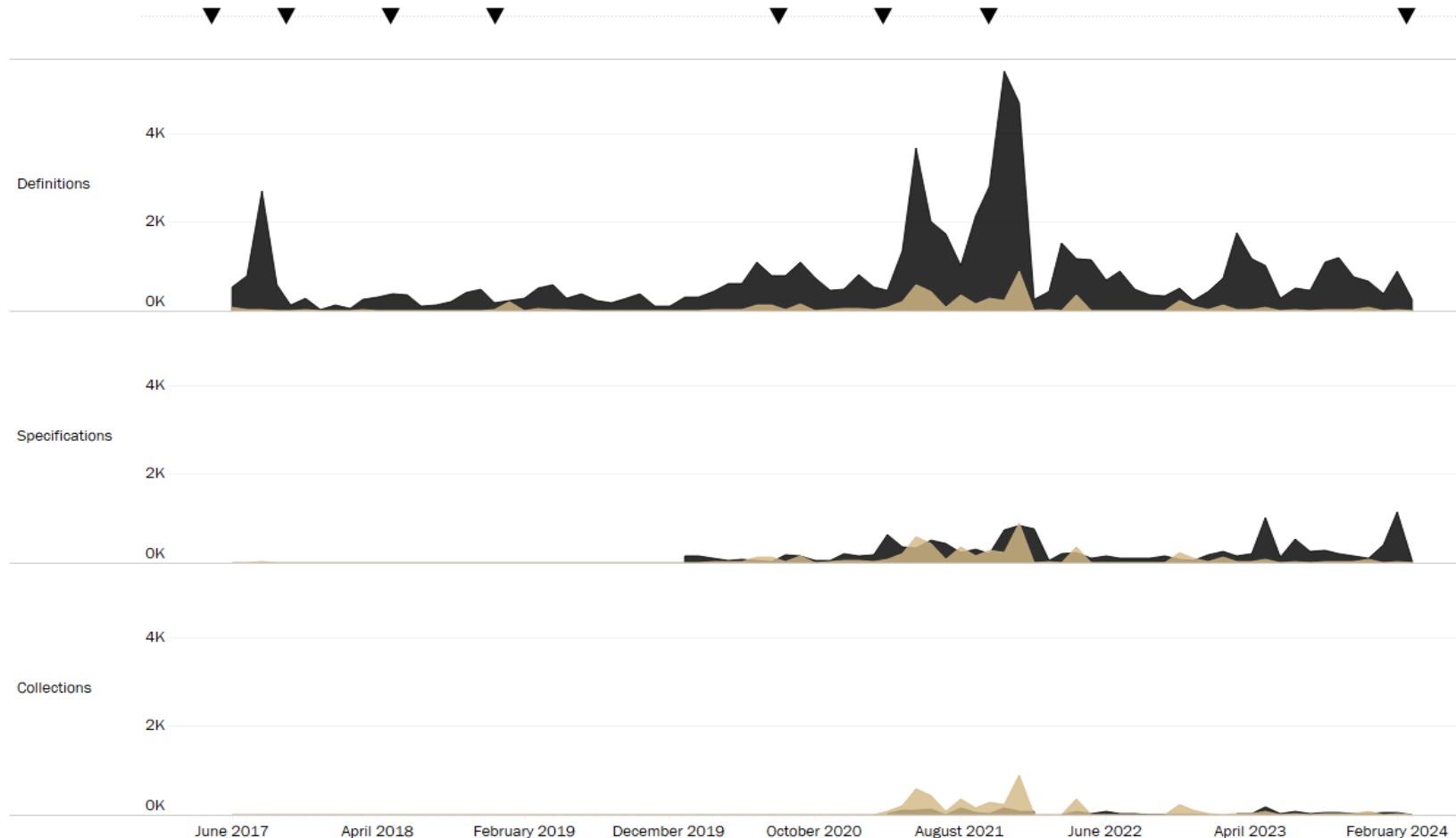
- More communication, sharing the value of metadata
- Purdue Data Warehouse
- Purdue Indianapolis (campus change)
- Additional functional areas
  - Brightspace
  - Elements
  - Glossaries
    - Common Lexicon
    - Market Segmentation
- Technical metadata
- Use of Cookbook ODBC (reporting database)

- Evolution of the ODBC
- How we use the ODBC data
  - Operational and Strategic
    - Audit files
    - Onboarding new functional areas
    - Market segmentation
- Dashboards
  - Content usage
  - New users
  - Active users

# Data Cookbook – ODBC

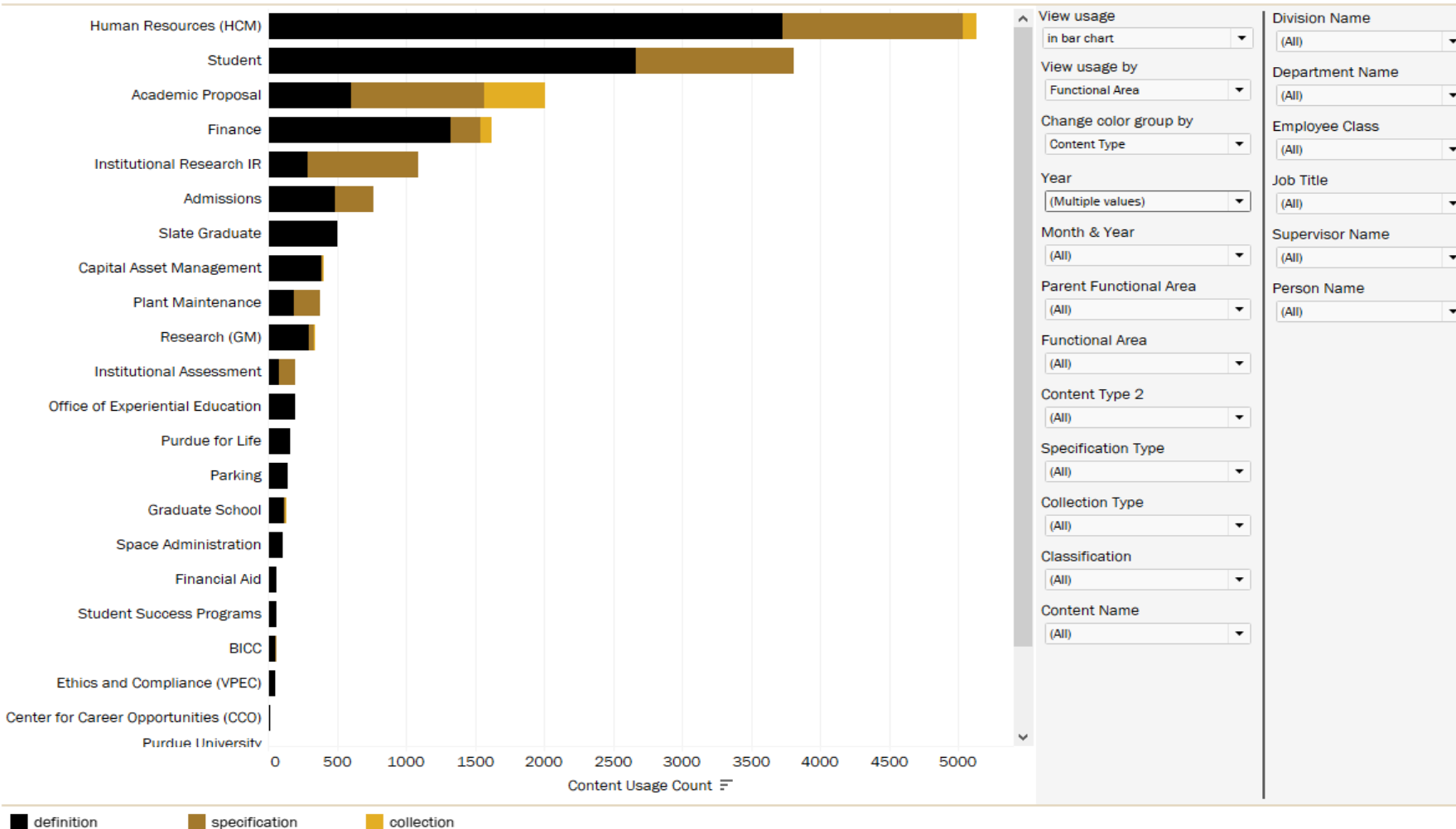
## Milestones |

This dashboard compares the usage and creation of content overtime and highlights data cookbook milestones for Purdue University. Data was last updated on 03/06/2024.



# Data Cookbook – ODBC

**Content Usage** | This dashboard displays info about content usage in different formats (over time, bar chart, tabular). Data was last updated 03/06/2024.



# Data Cookbook – ODBC

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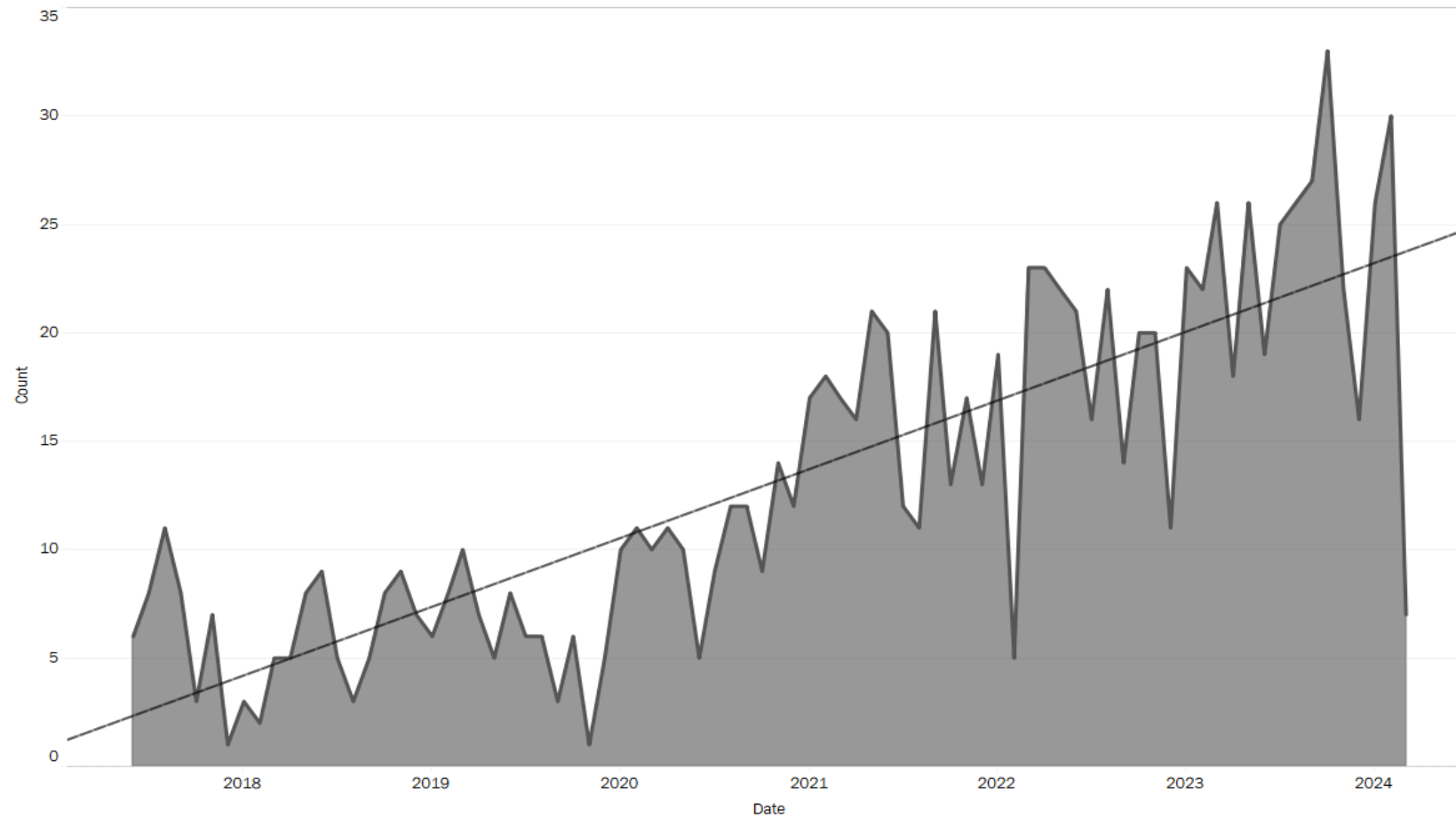


	2023												2024			Grand Total
	Jan	Q1 Feb	Mar	Apr	Q2 May	Jun	Jul	Q3 Aug	Sep	Oct	Q4 Nov	Dec	Jan	Q1 Feb	Mar	
List of Students by Cohort													8	108		116
Age Range 10 Year Increment Starting at Age 25..			3	13	20	5	7	8	11	3	11	6	7	13	5	112
Freeze Calendar, Student	31		6	1	1	9	2	4	3	9	2	27	1	3		99
Census, Student	26	5	3	2	3	4		2	4	5	6	21	7	3		91
List of Students by Advisor Including Blank Advis..											2	6	4	63	2	77
Employee Talent Profile - Employee Talent Demo..					7		55	3	1				5			71
Classification, Student		3	19	6	4	1	1	2		5	11	1	3	10	1	67
Academic Period	4	4	18	5		2	2	11	3	3	4	1	4	5		66
Workforce Movement Dashboard	1	10	2	1	1	1	5		7	18	3	8	3	4		64
Academic Major	4	8	8	5	3	1	2	12	3	9	1		1	3	1	61
List of Active Students		1			5	1		4		10	20	1	3	13	1	59
Employee Talent Profile - Action Trends					10		41	6		1				1		59
Performance Evaluation					11	2	10	29	1				4			57
Academic Standing	4	1	7	5	6	1	7	6	2		1	1	13	2		56
Academic College	6	4	11	1	3		2	5	6	6	2	1	1	7		55
Talent Acquisition - Staff Candidates: Pipeline Rat..				7	16		26	5								54
Underrepresented Minority (URM), Student	3	12	10	2	4	3	1	3	2	3	4	1		2		50
Talent Loss Trends - Talent Loss Trends tab					6		31		9	1	1		1	1		50
Race Ethnicity, Student	1	6	7	2	4	6	2	8	3	4	5		2			50
Job Requisitions Report						36	12	1	1							50
Employee Talent Profile - Headcount Trends					12		32	4	1				1			50
Major, Graduate					20	1	5	2	6	5		4		6		49
Academic Performance - Term End	5	7	1	2	3	2	1	5	5		1		8	8		48
Academic Course	3	2	8	3	10		2	2	3	2	3	1	2	6		47
Dimension - Employee				10	2	2		4	8			1	1	2	16	46
Goal Entered Status Dashboard					11		12	18				2				43

User Activity | This dashboard displays info about new users, unique users, use in first N months at Purdue, and N uses in last N months. Data was last updated 03/06/2024.



Users with at least X uses per month





- Future Enhancements
  - Auditing processes
    - Expand beyond definitions
    - Updating business rules
    - Improving audit review and workflow
  - Dashboard development
    - Refine content usage dashboards
    - Expand upon user activity
    - Who are our content creators? How does usage and creation coincide?

# **And Data Governance has continued to evolve ...**

**Executive Data Council (2020)**

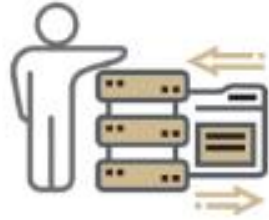
**Data Governance Committees (2022)**

**And Restructured in 2023**

# Data Governance Committees – Year One Insights

- Administrative overhead of meeting prep
- Monthly meetings difficult to maintain momentum
- Quiet voices (data people)
- Some committees more advisory in nature
- Significant overlap among some committees
- Benefits, professional development
  - Opportunity to learn from the larger data community
  - Important connections made and information shared
  - Supervisors have been supportive

# Data Governance Committee Structure



Data Stewards

## DATA STEWARDS

Robert Oxender, IT-Purdue Systems Security

❖ ACTIVE MEMBERS



Quality Data Experience

## QUALITY DATA EXPERIENCE

Andrea Pluckebaum, IDA+A & Zach Yater, BICC

❖ ACTIVE MEMBERS

❖ ADVISORY MEMBER



Training and Communication

## TRAINING & COMMUNICATION

Sarah Bauer, IDA+A & Cindy Moscrip, HR

❖ ACTIVE MEMBERS

❖ ADVISORY MEMBER

*Quality Data Experience previously 1) Content Stewards; 2) Data Quality; 3) User Experience*

*Committees represent the West Lafayette campus only except for Data Stewards who represent the entire Purdue system*

- **Data Stewards** three subcommittees
  - Policy Review
  - Data sharing, MOUs (memo of understanding)
  - Data Security and Privacy Training (certifications)
- **Quality Data Experience**
  - Personas, archetypes (used across the committees)
  - Common Lexicon, BI Tools Comparison
- **Training & Communication** - overarching training map
  - Build an infrastructure to avoid 'whack-a-mole' training
  - 4 Pillars (Competencies, Learning Objectives)
    - Data Governance
    - Data Landscape
    - Business Processes (Context)
    - Strategic Communication

- Senior Leadership changes happen
  - President
  - Provost
- Data governance leadership changes
  - Sarah in middle of two-year partial retirement (80% year 1, 60% now)
  - Transition to Kendal
    - Cross-training
    - Mentoring
    - Strategic planning
    - Additional staffing
- Data Governance website, repository
- Committee Chairs meetings

Is Data Governance included in pertinent committees, projects across campus?

Partner with academic areas? Hire Student employees?

Is metadata part of large implementations (new systems)?

- In addition to Data Cookbook growth...
- Staying current with changing pain points
- Continue expanding Data Governance website
  - Projects and deliverables, resources
- More organic communication around what the Data Governance committees are focused on. Updated talking points for all to use at standing meetings. Share success story snippets.
- Continue working with Executive Data Council for input, support



- Be flexible, ready to pivot
- Stay connected
  - Campus
  - Profession
  - Technology
- Tell your story as often as possible, in different ways
- Recognize progress, collect success stories
- Always look for partners, champions and great students
- People are the most important part of data governance!

If not on the agenda,  
then on the menu!

# Presenters

## **Sarah Bauer**

Institutional Data Governance Program Manager  
[sarah@purdue.edu](mailto:sarah@purdue.edu)

## **Kendal Kosta-Mikel**

Data Governance Program Lead  
[kkostami@purdue.edu](mailto:kkostami@purdue.edu)

## **Stephanie Dykhuizen**

*Content and Metadata Management Specialist*  
[sdykhuizen@purdue.edu](mailto:sdykhuizen@purdue.edu)

## **Kolitha Perera**

*Data Assistant, Student in  
Actuarial Science and Applied Statistics*  
[perera3@purdue.edu](mailto:perera3@purdue.edu)

# Resources and your Questions and Experiences

- **Big Ten Academic Alliance**
  - (BTAA) Data Governance Committee – other conferences have something similar?
- **Data Governance Professionals Organization**
  - <https://dgpo.org/>
- **DAMA**
  - <https://www.dama.org/cpages/home>
- **Dataversity**
  - <https://www.dataversity.net/>
- **Robert Seiner**
  - <https://tdan.com>
- **Purdue Data Governance**
  - <https://www.purdue.edu/idata/data-governance/data-gov/index.php>