

# AOE Testimony: Introduction to the Education Data Program

Testimony To: House Committee on Education  
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Analysis & Management  
Date: January 10, 2020

# Current State: AOE's Historic Data/Tech Landscape

- Point to Point
- Brittle
- Reliance on Data Program Staff
- Labor Intensive

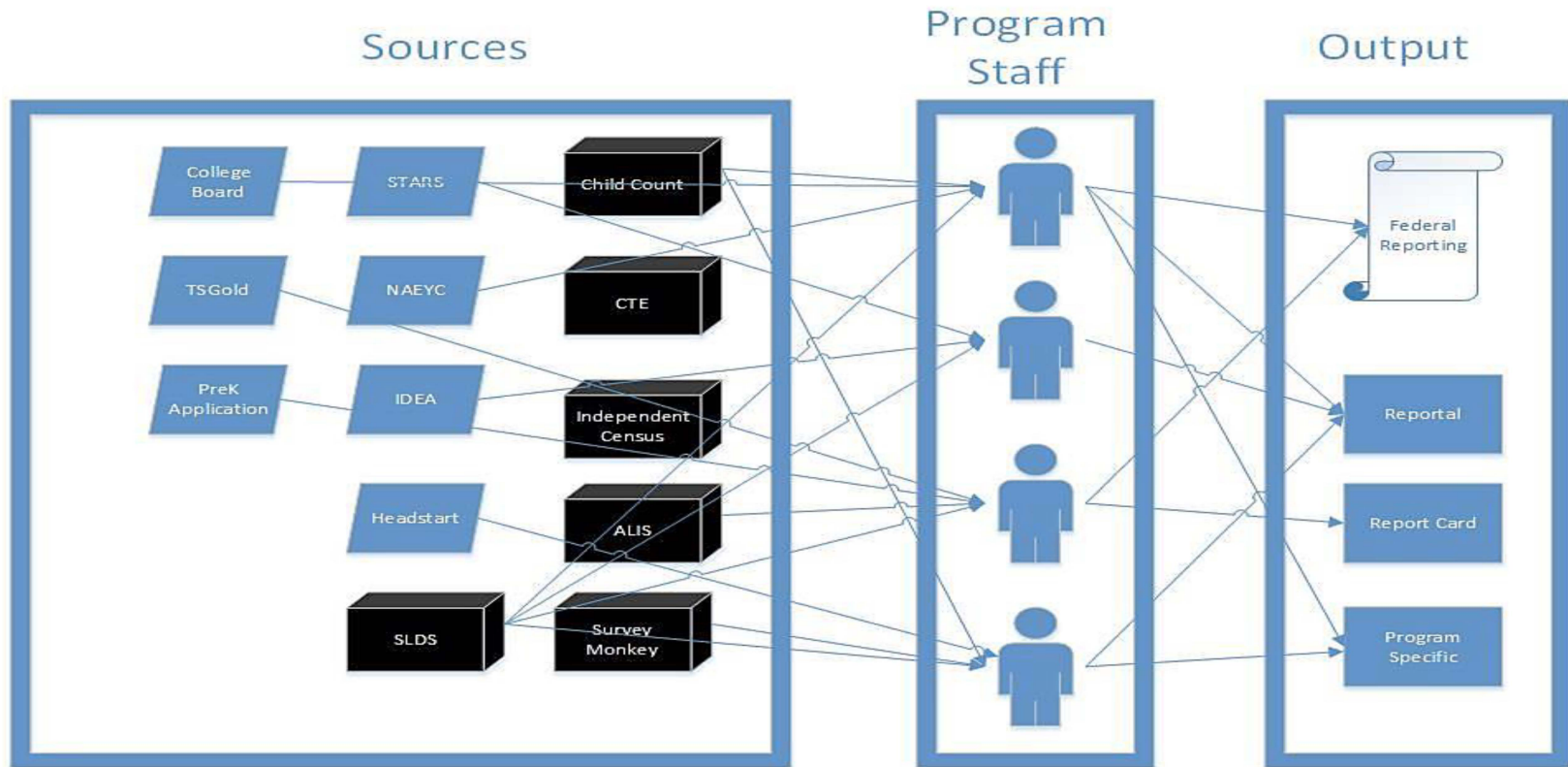


Figure: Diagram of an overly complex process that moves between too many data sources to various data program staff and outputs.

# Future State: Enterprise Infrastructure

- Data Centric
- Resilient to Change
- Support Continuous Improvement
- Free up Resources for value-added work

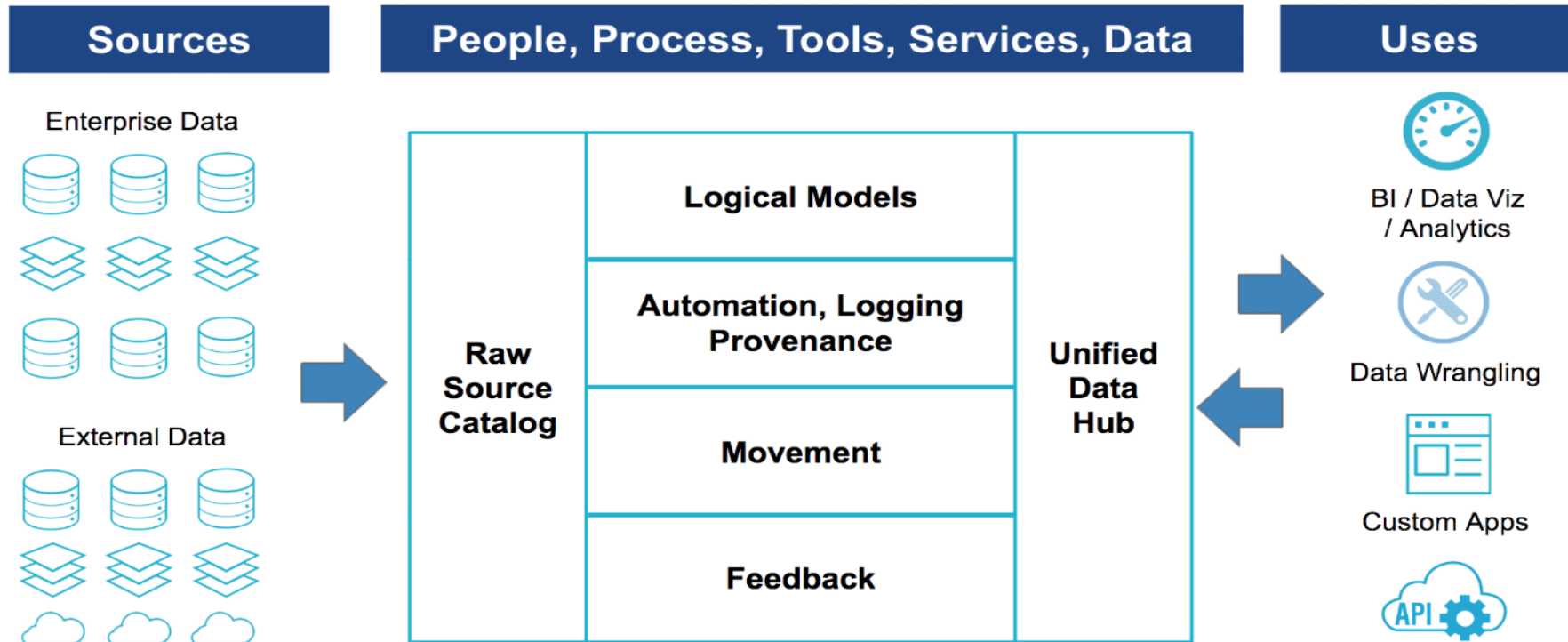


Figure: Logical model showing linear processes between data sources, people, processes, tools, services, and data, and then uses as an end result. [Image Credit: [The Eckerson Group](#)]

Resource constraints

\$cant budget

Struggling morale

Aging infrastructure

Overallocated staff

Technical debt burden

Deferred maintenance

Fear of change

## But how to get there?

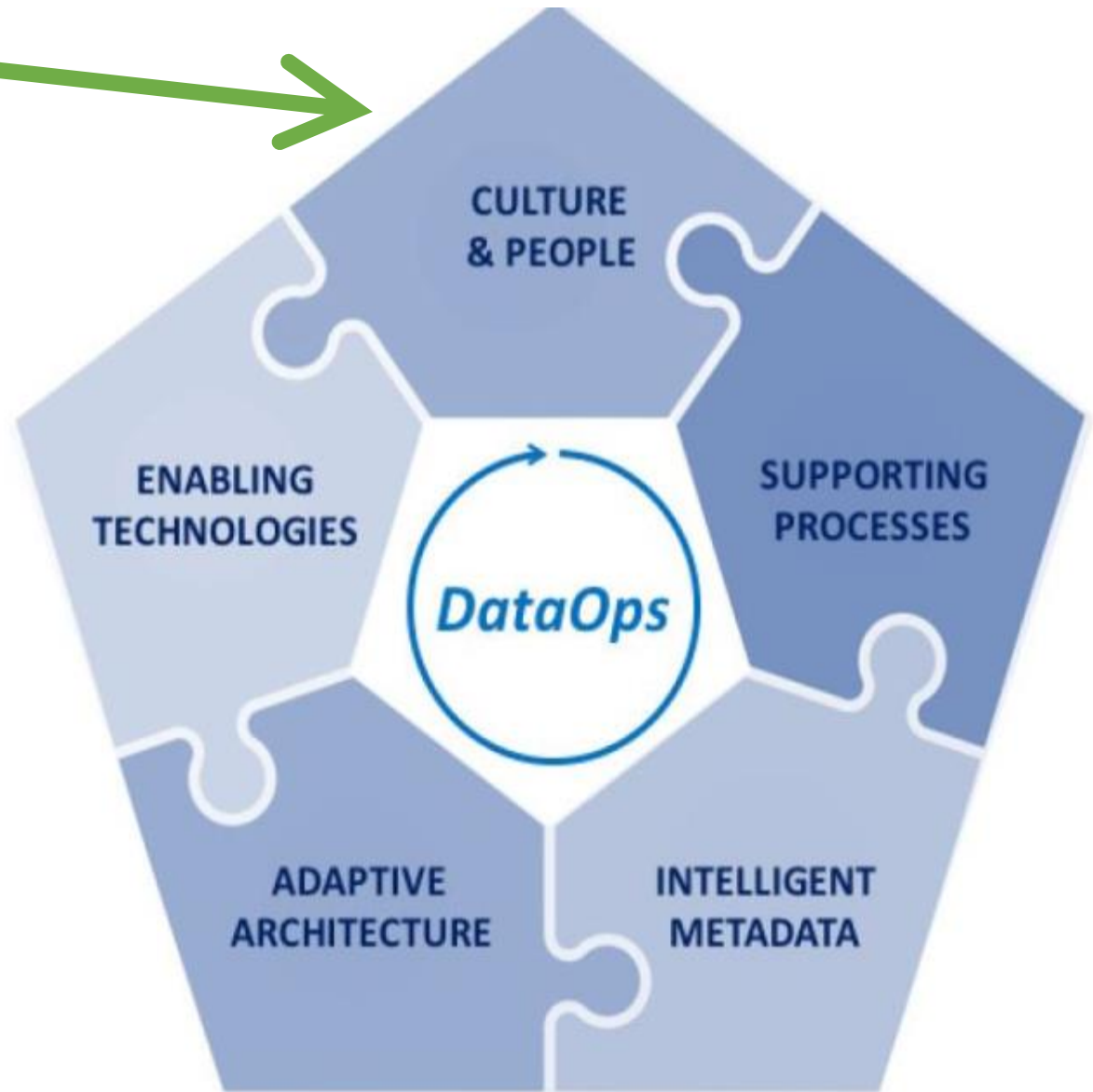


# Start here



Emphasis is on:

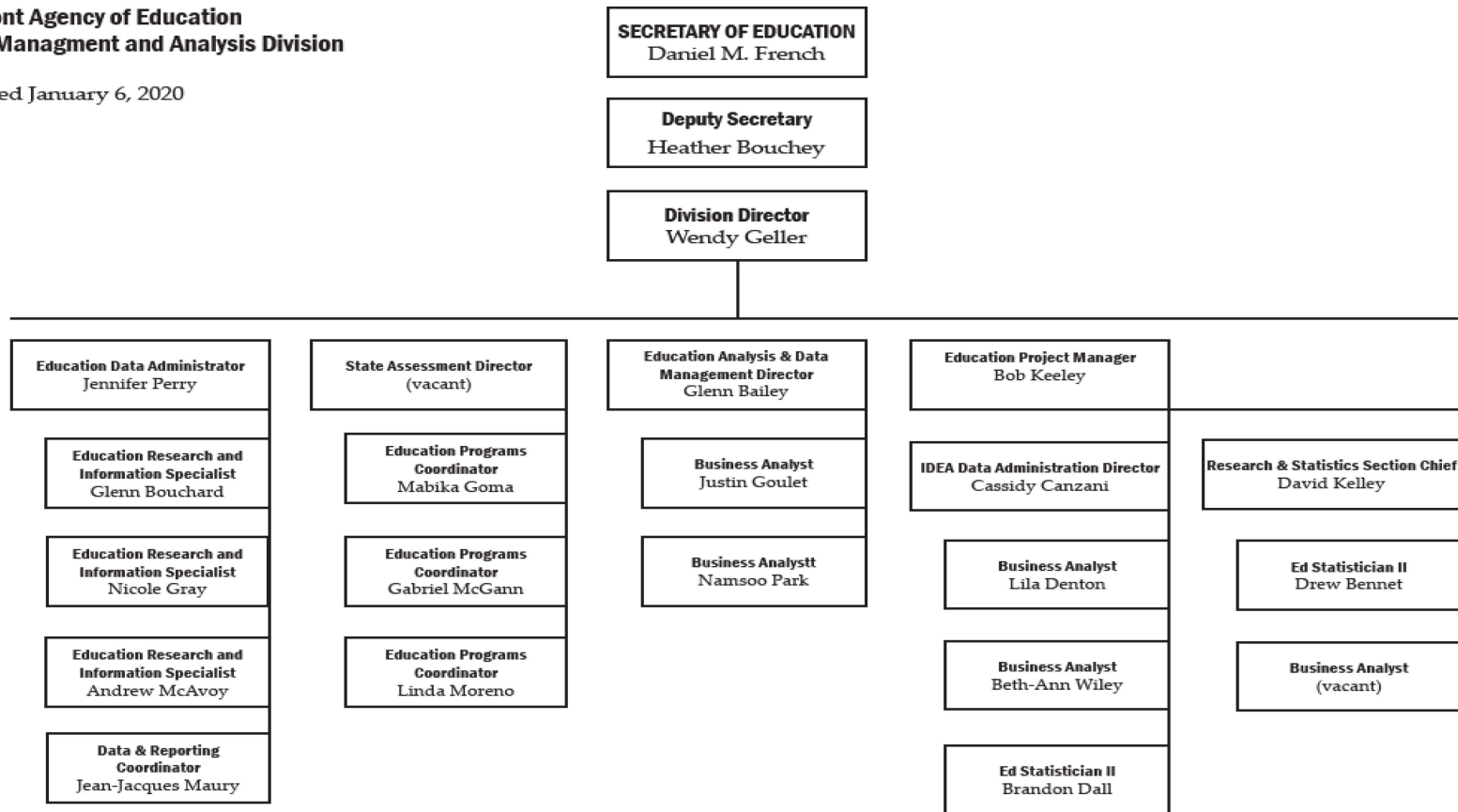
- Communication
- Collaboration
- Integration
- Automation
- Measurement, and
- Cooperation between [data scientists](#)



# From 4 Teams to 1 Work Family

Vermont Agency of Education  
Data Management and Analysis Division

updated January 6, 2020





# Partner with Extended (ADS) Work Family

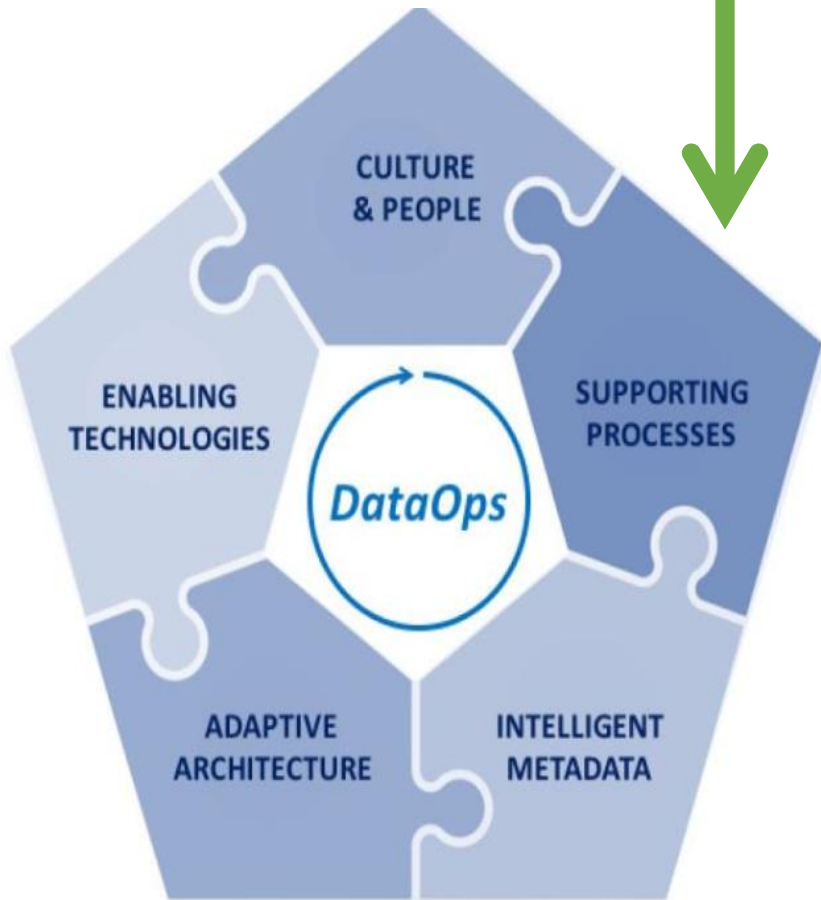
- Define roles and responsibilities
- Document governance and processes
- Collaborate to problem solve together

# 3-5 Year Breakthrough Objectives

1. Modernize, standardize, and fully leverage collection, management, storage, and data analysis platforms, tools, and methodologies.
2. Move a from reactive culture to proactive culture.
3. Effectively coordinate to execute cross-functional workflows.
4. Strengthen security and privacy frameworks while reducing burden of supporting secure and sound data handling.
5. Empower AOE and stakeholders with data to support an evidence and result-based approach to decision making.



# Now go here



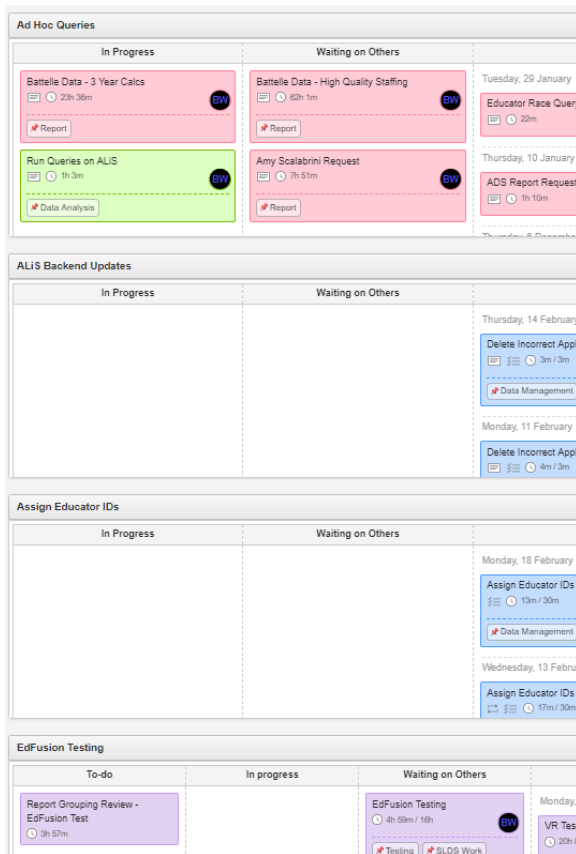
## DataOps are Lean

Step 1: Create Standard Operating Procedures

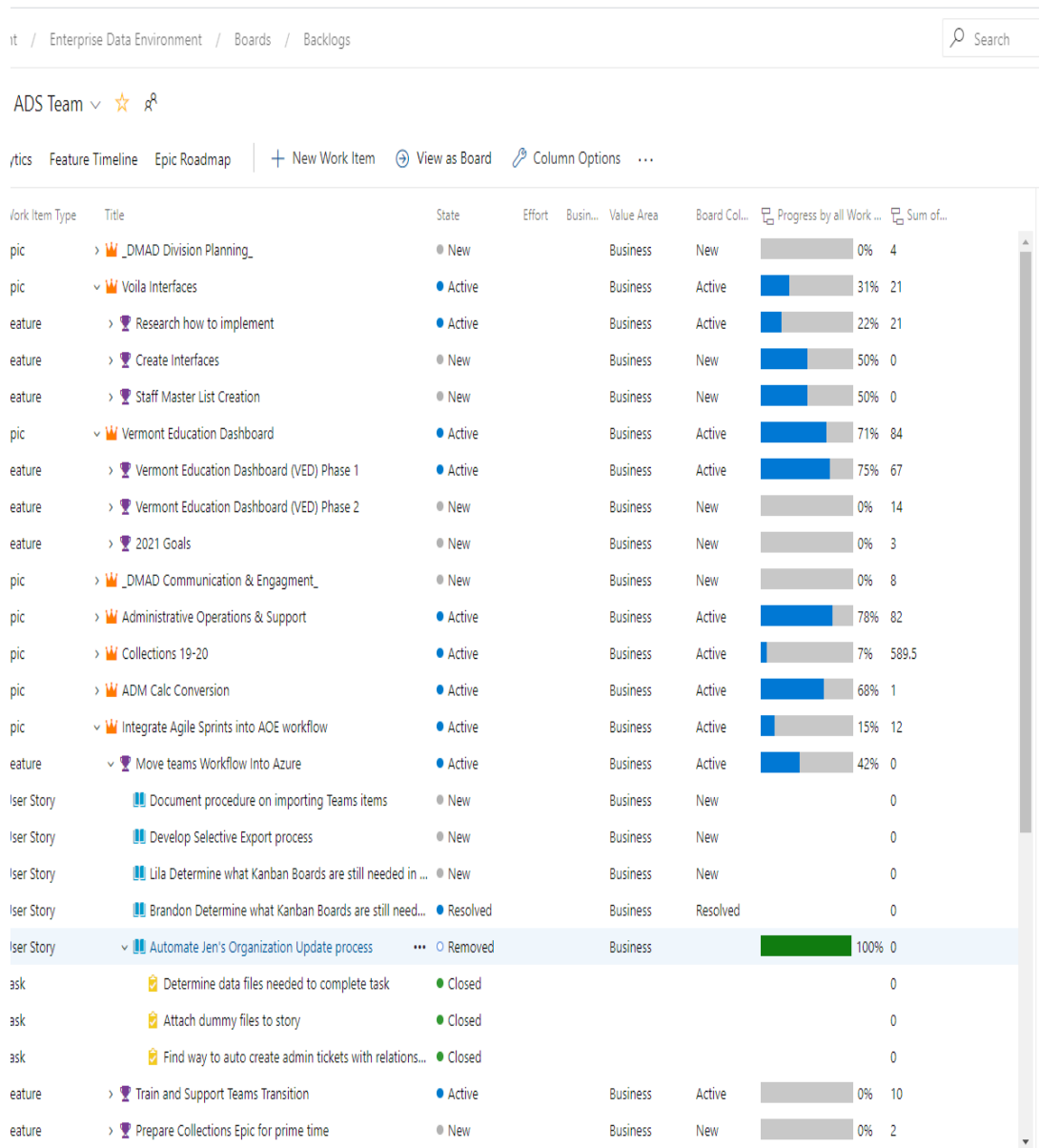
Step 2: Visualize Our Work Together

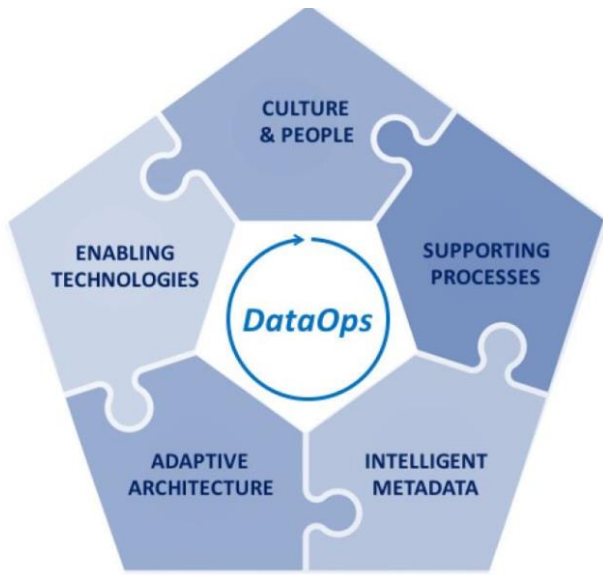
This helps us:

- Identify the work
- Define the work in standard ways
- Define who does each part of the work
- Visualize the work
- Visualize the process of doing the work
- Identify waste in the process
- Address the waste in the process
  - Clarity to adjust the process
- Find better ways to perform the work
- REPEAT



Started with  
Kanban, Graduated  
to Azure DevOps  
*Together*

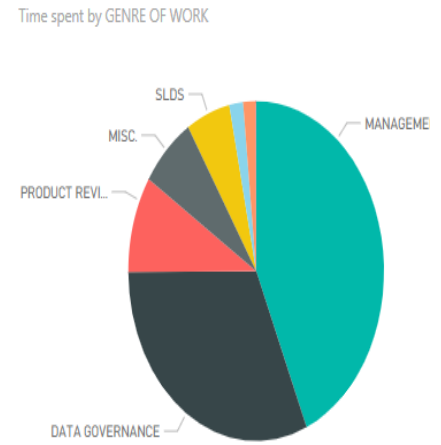
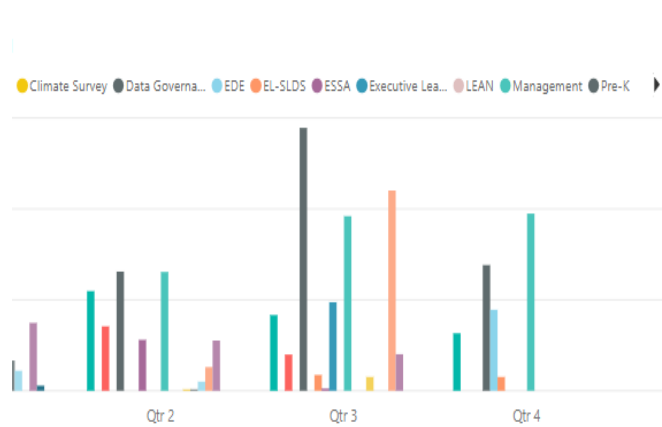




Then go here

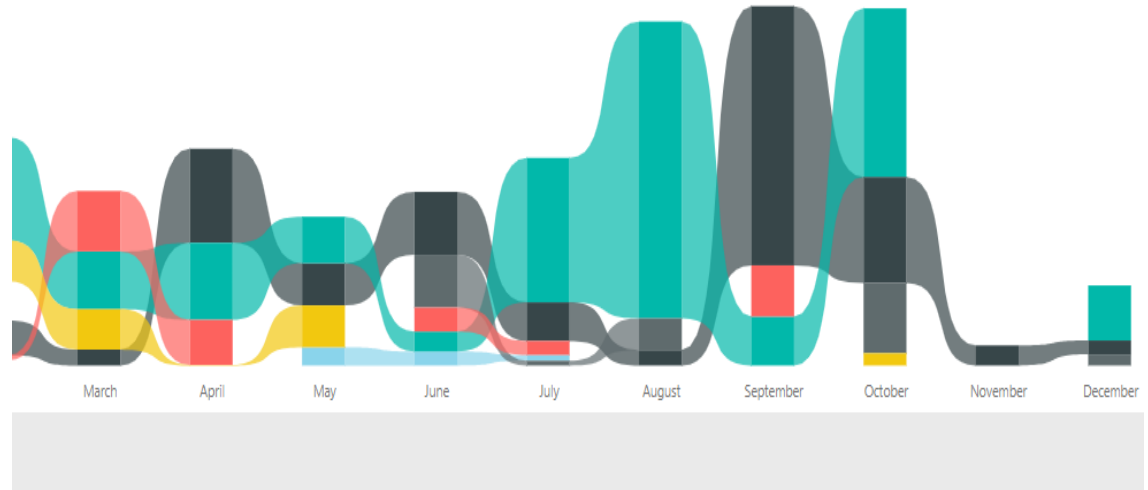
So we can:

- Measure Our Work
- Report Out
- Drive Process Improvement

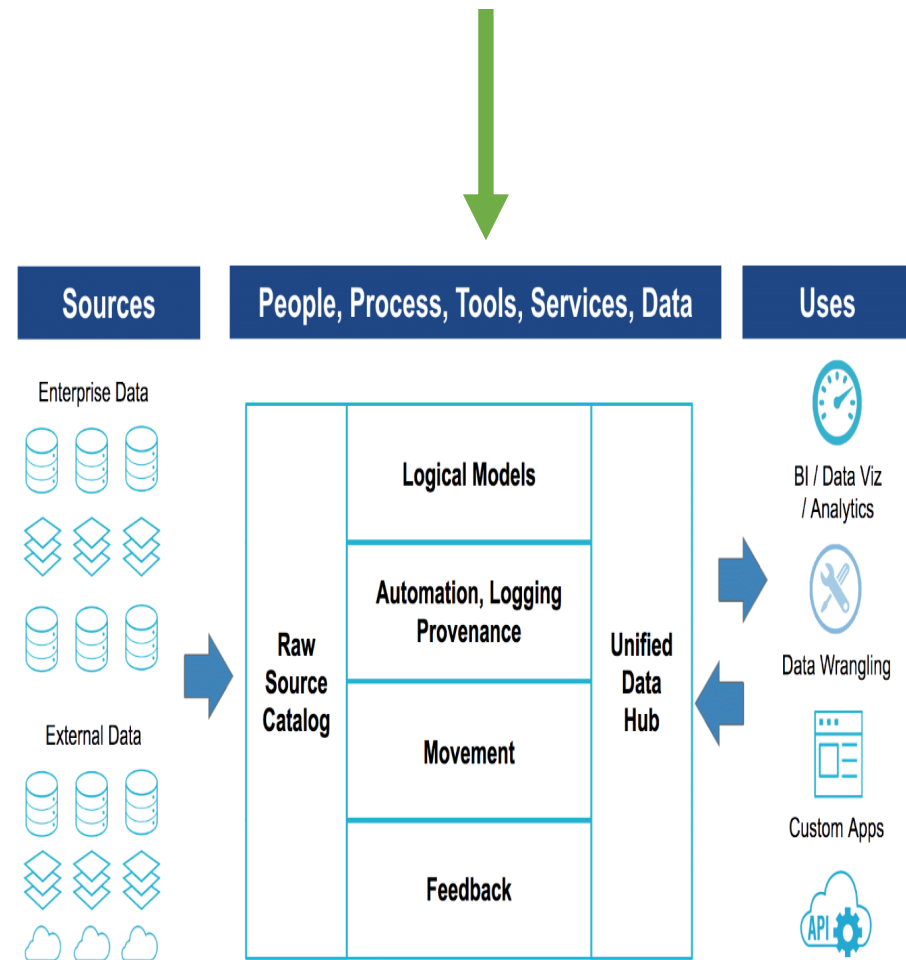
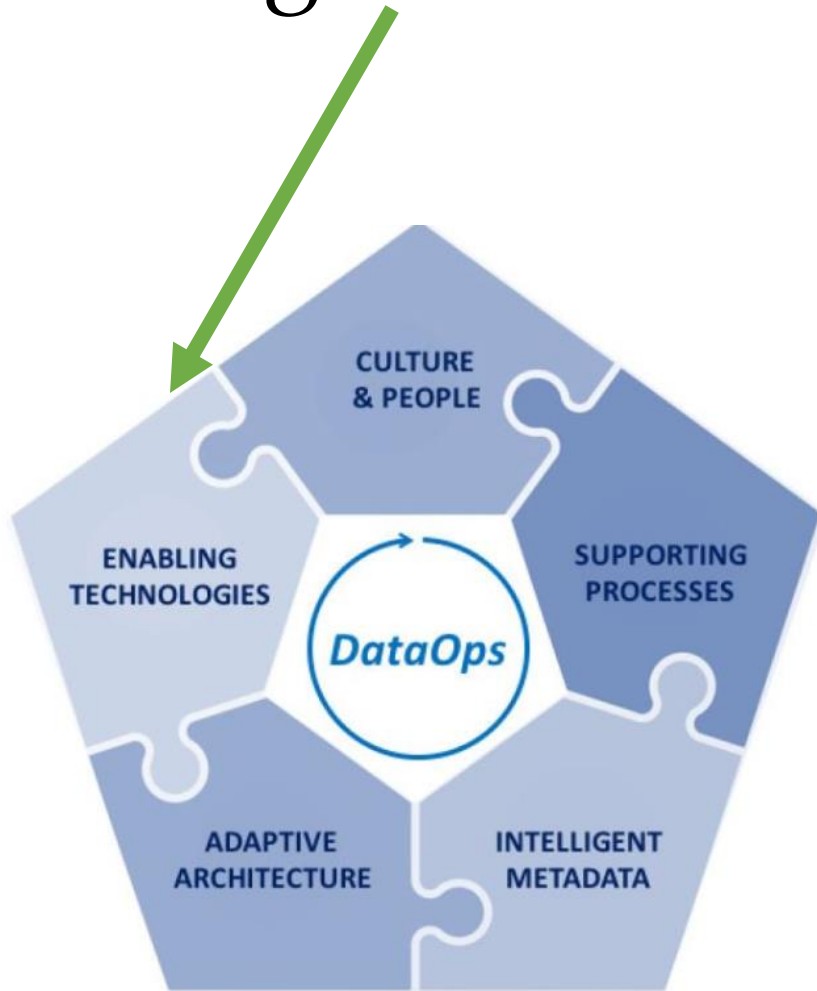


els.2 and First Labels.3 by Month and GENRE OF WORK

DATA GOVERNANCE DATA MANAGEMENT MANAGEMENT MISC. PRODUCT REVIEW PROFESSIONAL DEVELOPMENT SLDS



# This culture and practice positions us to go here...which leads to here



Questions?  
Conversation?