



INFORMATION AND
TECHNOLOGY SERVICES
UNIVERSITY OF MICHIGAN



Enabling a Data Mesh at U-M

GLDA Summit 2024



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Denodo

Who is Denodo?

Gartner



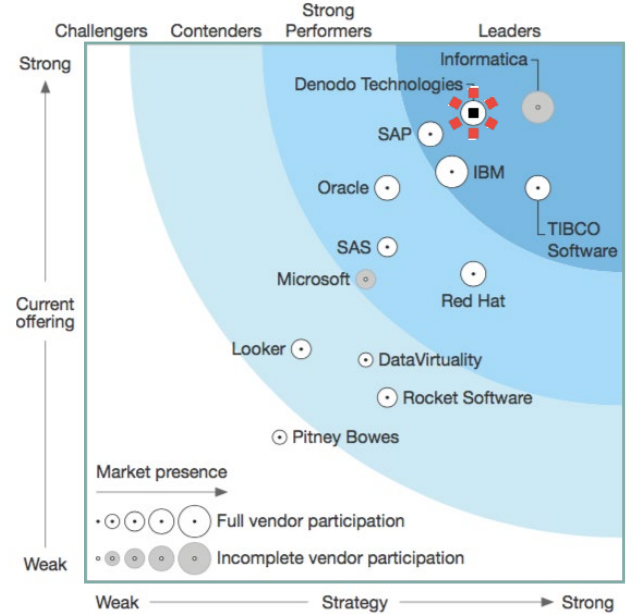
Gartner Magic Quadrant for Data Integration Tools, 2022

FORRESTER®



Forrester Wave: Enterprise Data Fabric, Q1 2023

FORRESTER®

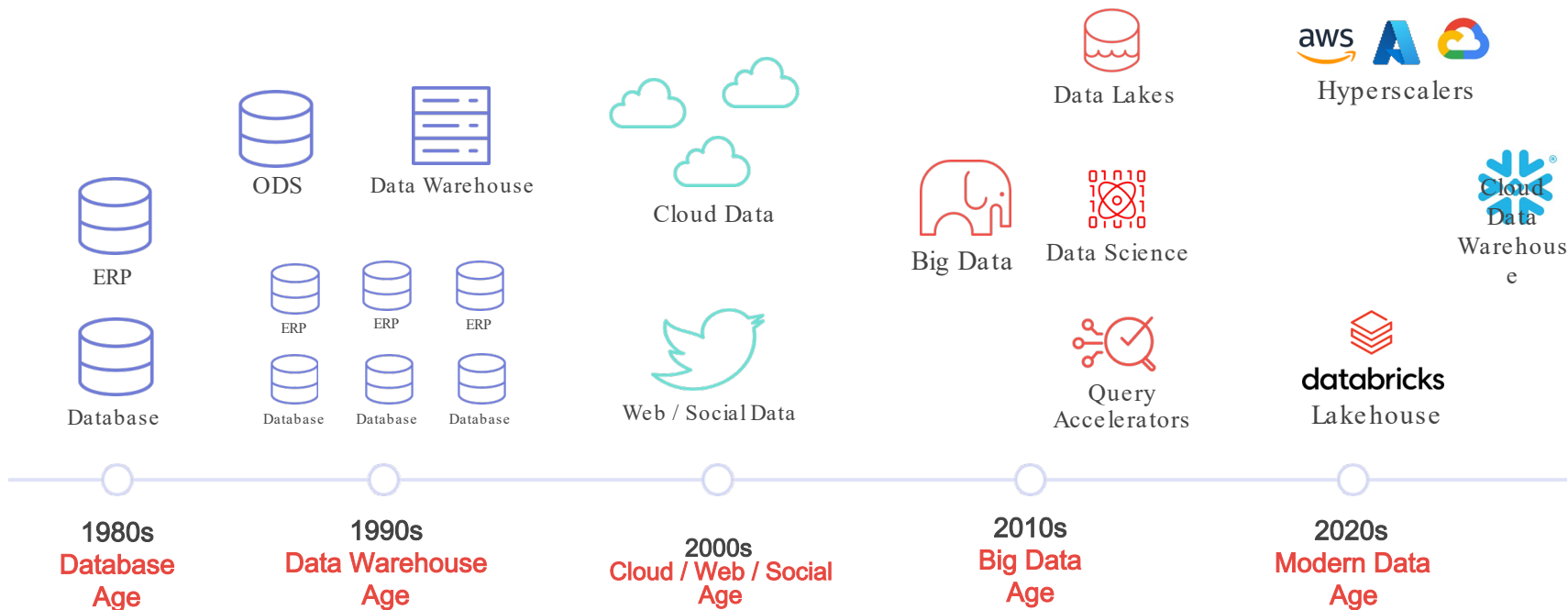


Forrester Wave: Enterprise Data Virtualization, Q4 2018

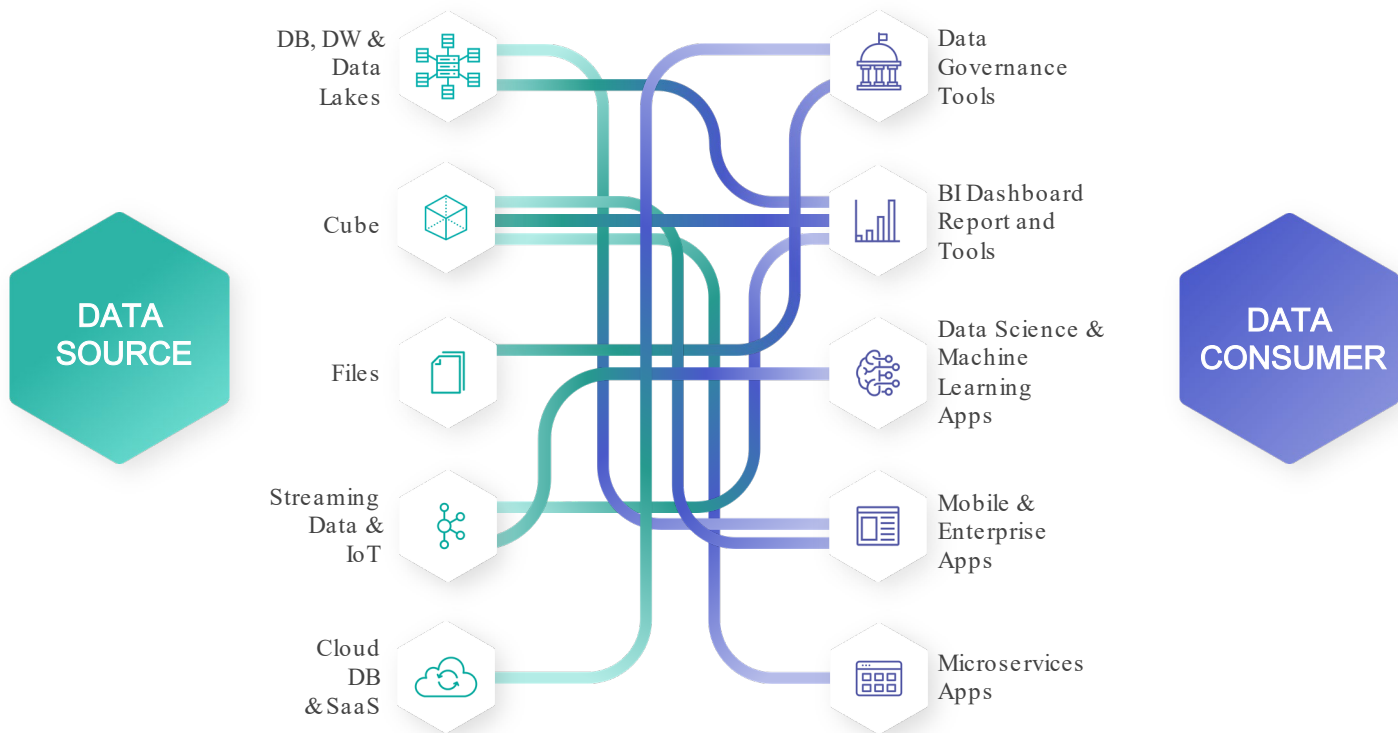


Physical databases are required.
Disparate Data is the reality.

How did we get here?



The Current Brittle Data Architecture

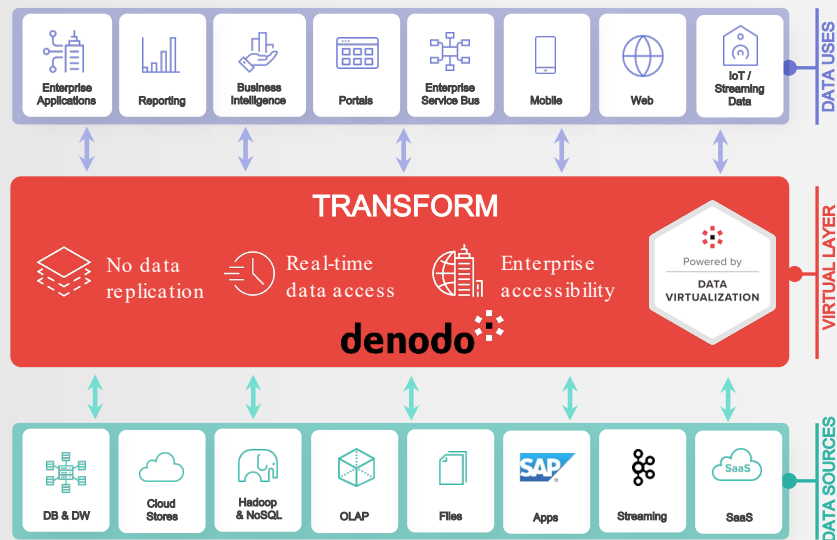
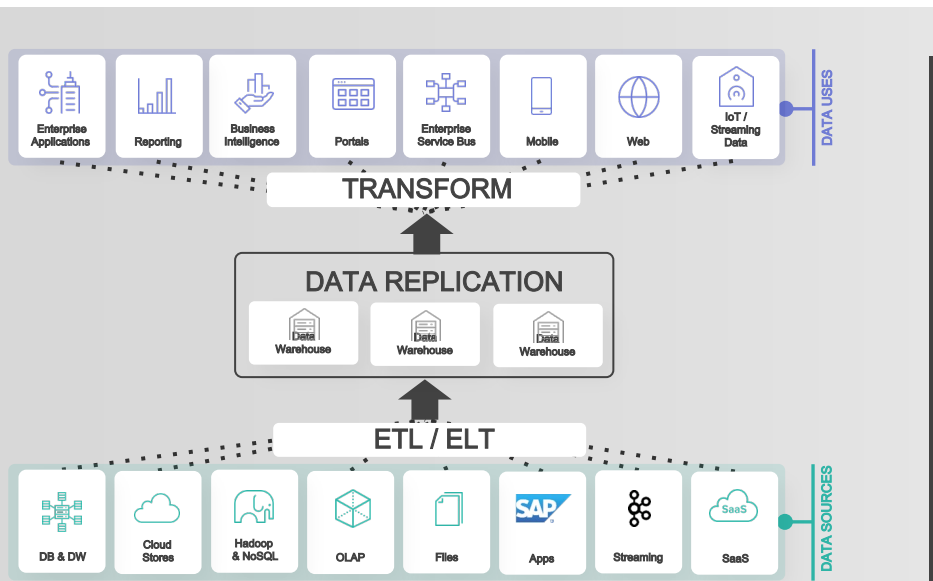


This current approach perpetuates "Data Duplication and Lock In" keeping you in a reactive and trapped position.



Wouldn't it be great if you could use
ALL OF YOUR DATA and it was easy
to use for **EVERYONE?**

Denodo – a different approach to managing Data



Denodo: ROI and Differentiators

83%

LESS TIME
TO REVENUE

65%

LESS TIME
THAN ETL

67%

LESS DATA
PREPARATION

<6

MONTHS
PAYBACK

Source: Forrester Total Economic Impact™ of Data Virtualization, 2021



Are you ready to “think
differentl?”

UM Data Journey

- What is an API
- Why should we use API Directory - Features
- Current Architecture
- Complexity with internal middleware tools
- Denodo to rescue !

What's an API ?



Why use the API Directory

Does security
matter?



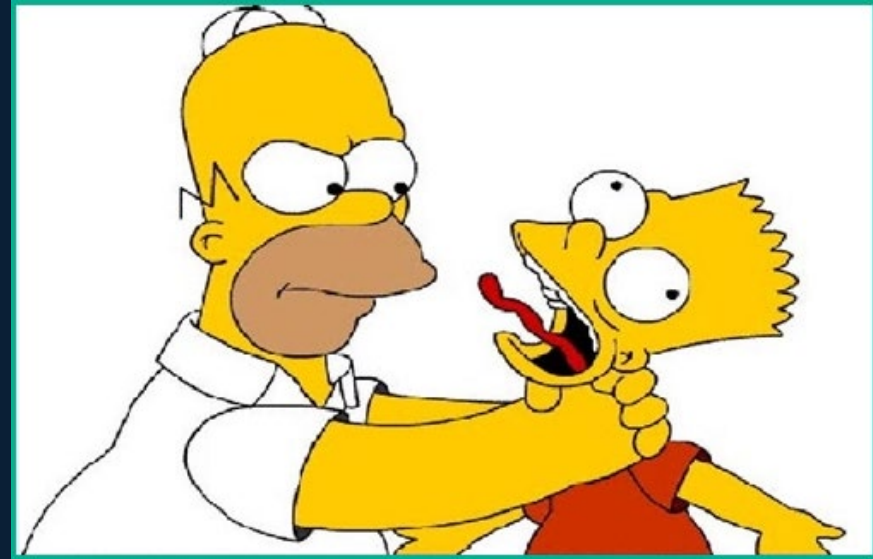
Why use the API Directory

Discovery,
Reusability and
Standards



Why use the API Directory

Throttling /
Ratelimit



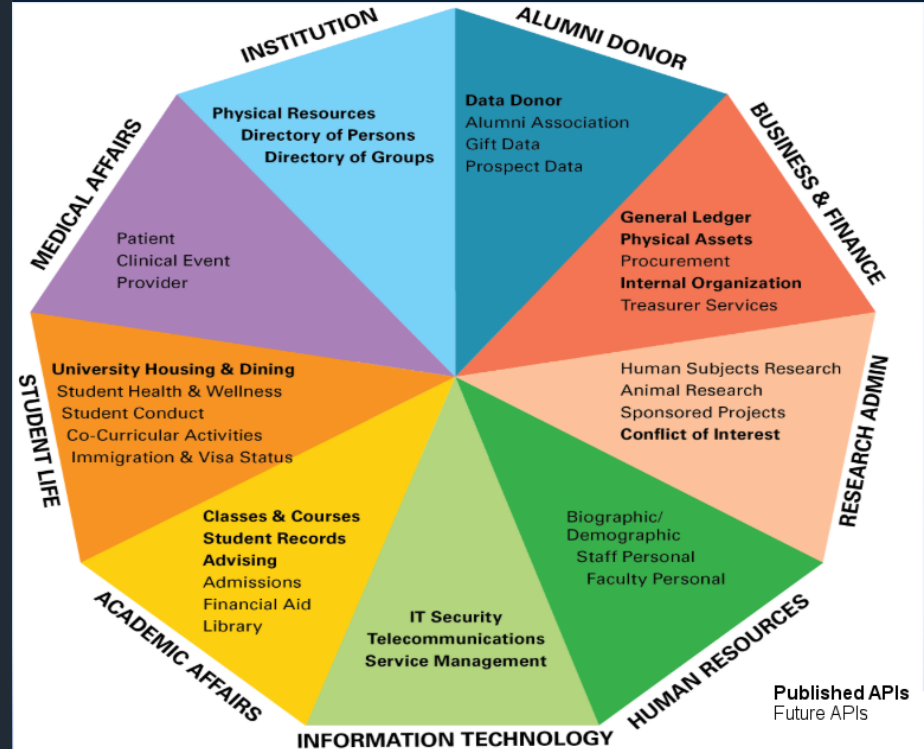
Why use the API Directory

Audit



Why use the API Directory

Data Governance



Why use the API Directory

Analytics



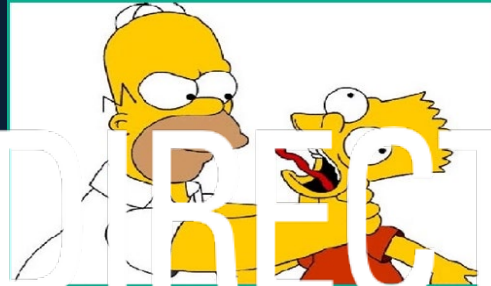
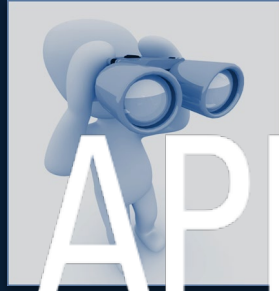
Why use the API Directory

Reliability



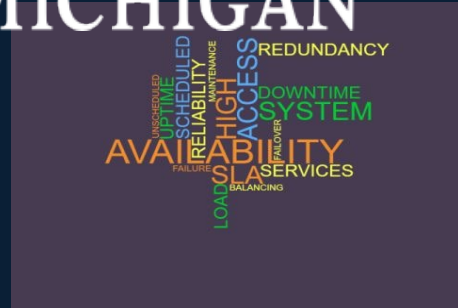
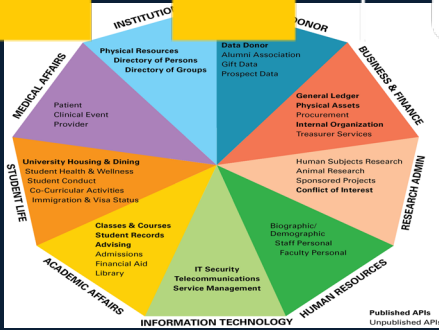


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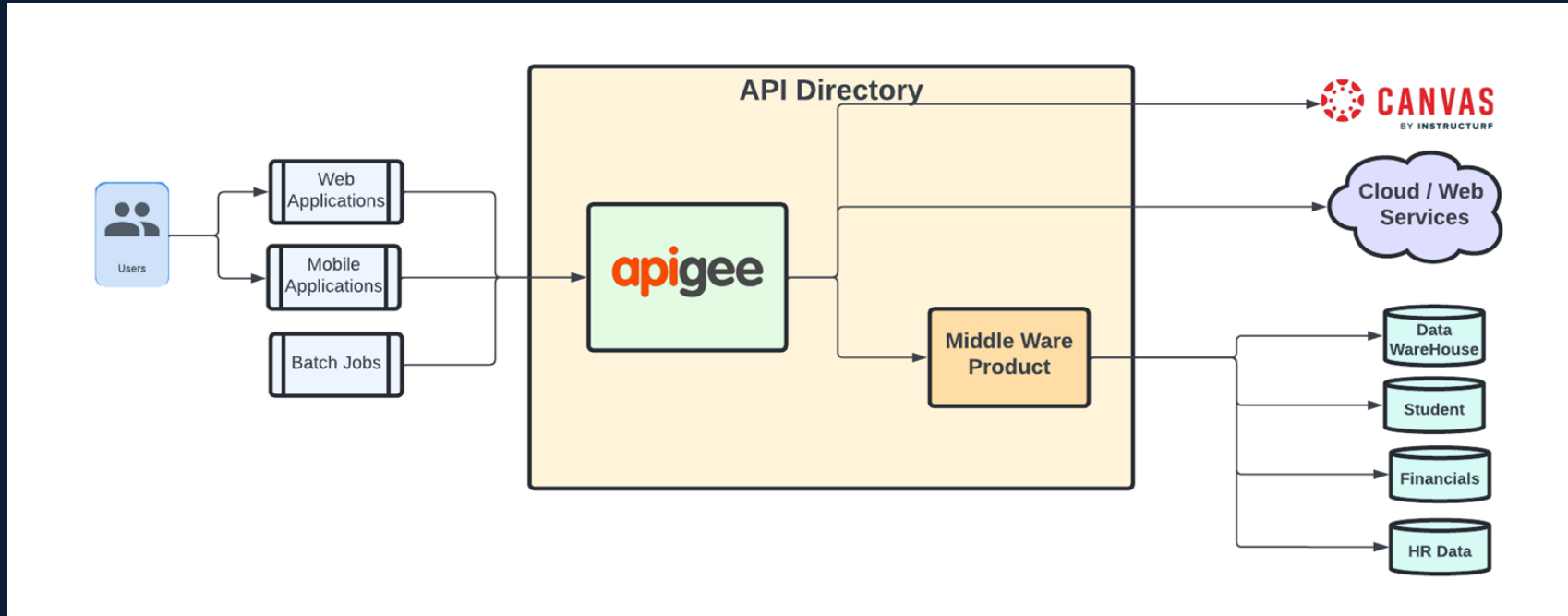


API DIRECTORY

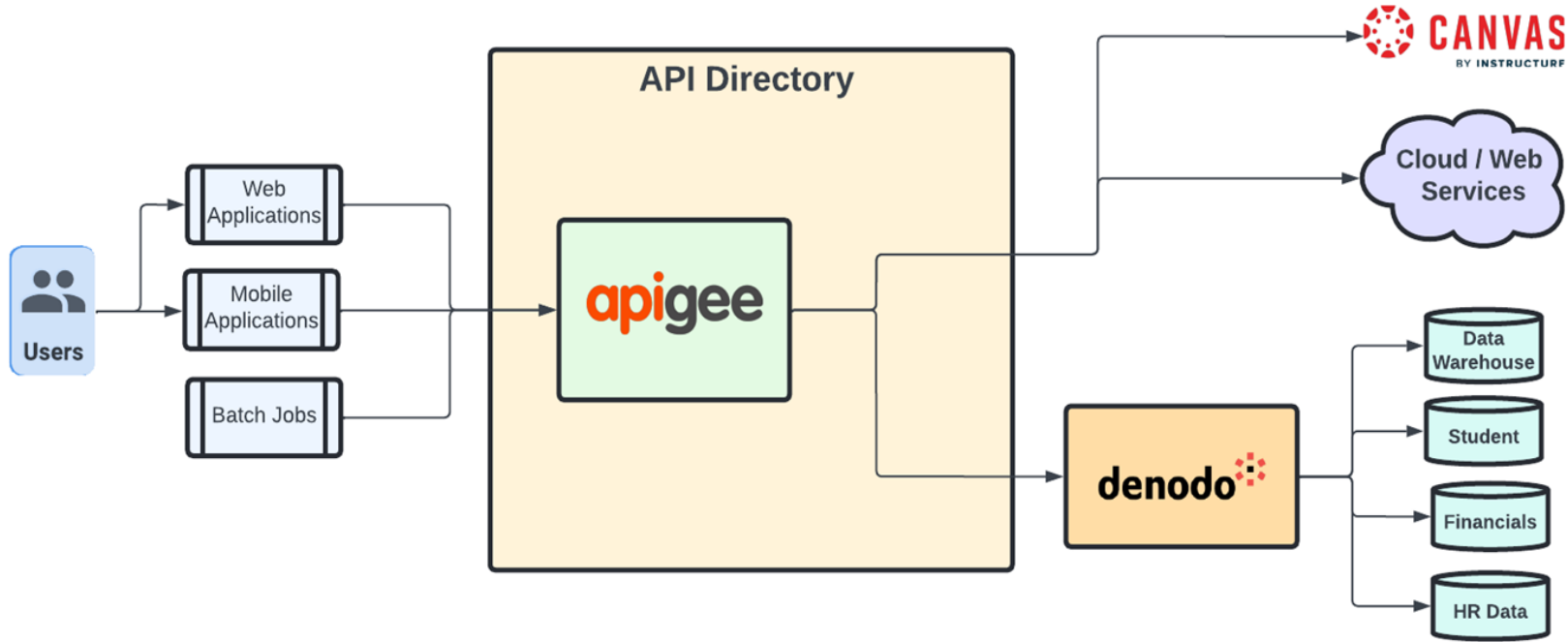
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API Directory previous state



API Directory current state



Data Mesh Approach at U-M



Data Mesh approach

- Central Data Hub
- Data Object autonomy and management in domains
- Data Object reuse and sharing across domains



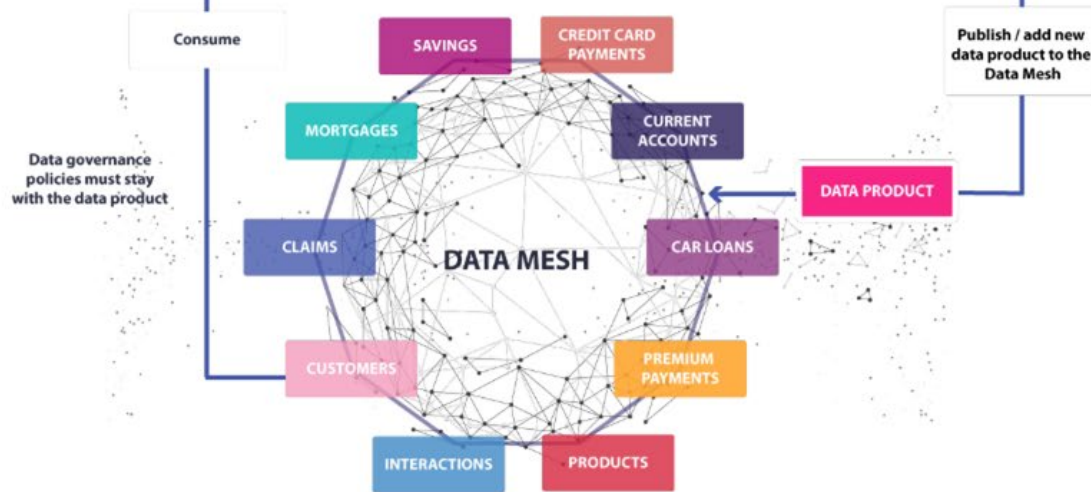
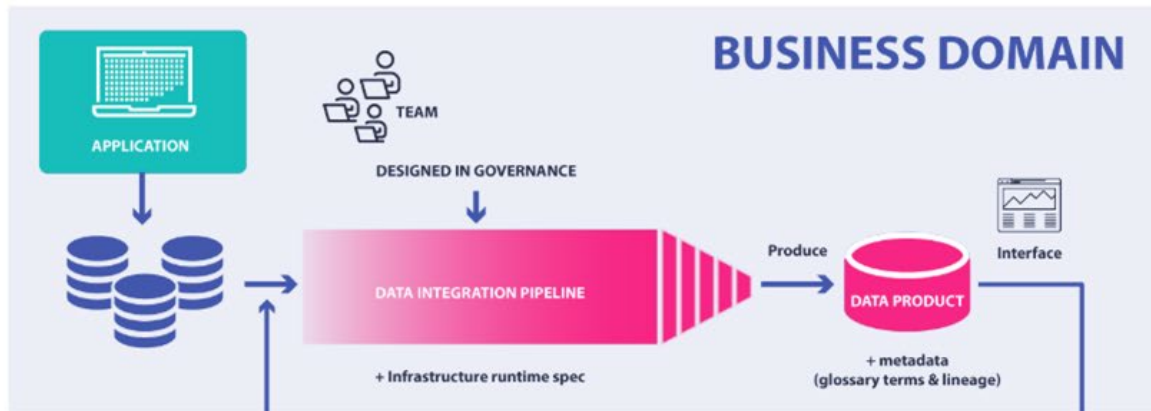
Data Mesh value

- Control out in the business / domains
- Reduce Data duplication and redundancy
- Optimize reuse and visibility



Data Mesh best practices

- Start with Data Virtualization for central Data Hub
- Start with groups that already have mature Data practices
- Rollout over time as groups get up to speed



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