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DIGITAL

# Data as an asset

March 5th, 2024



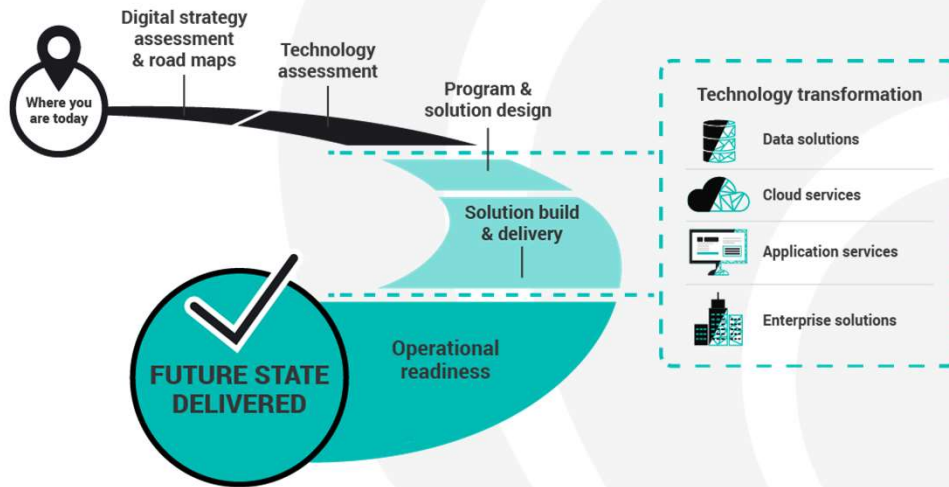
## Meet your speakers



**Dave DuVarney**  
PRINCIPAL  
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## Who we are



**"Data is a precious thing and will last longer than the systems themselves."**

Tim Berners-Lee

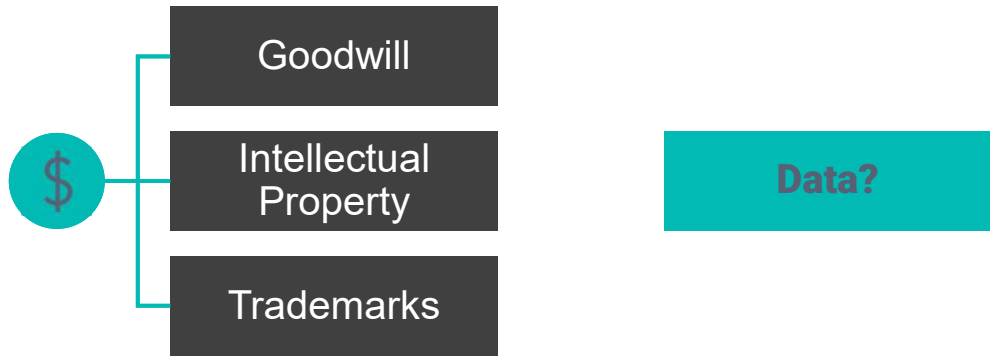
## Slide 4

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**DDO** [@Anderson, Jordan] , this section should be done. I might still try to slip in some use cases. Let's see where it lands when you've got your updates in.

DuVarney, Dave, 2023-04-18T22:28:59.590

# Intangible Assets



# Tangible Versus Intangible Assets

S&P 500

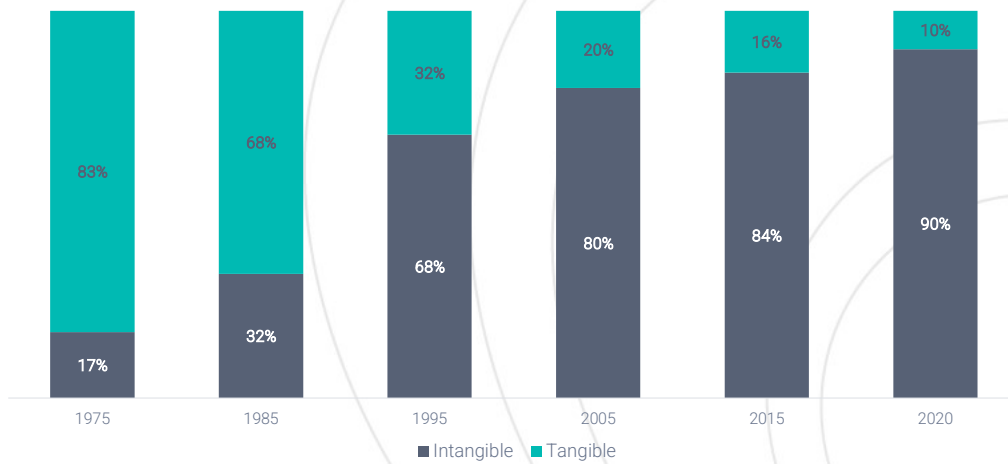


Chart Source: <https://www.oceanomo.com/intangible-asset-market-value-study/>

## Top US Companies by Market Capitalization

Rank	1975	2000	2010	2020
1	IBM	Microsoft	Exxon Mobil	Apple
2	AT&T	General Electric	Apple	Microsoft
3	Exxon	Cisco Systems	Microsoft	Amazon
4	Eastman Kodak	Walmart	Berkshire Hathaway	Alphabet
5	General Motors	Intel	General Electric	Facebook (Meta)

1975: <https://born2invest.com/articles/the-differences-in-market-capitalization-between-1975-and-2019/>  
2000: [https://en.wikipedia.org/wiki/List\\_of\\_public\\_corporations\\_by\\_market\\_capitalization#2000](https://en.wikipedia.org/wiki/List_of_public_corporations_by_market_capitalization#2000)  
2010: <http://media.ft.com/cms/253867ca-1a60-11e0-b003-00144feab49a.pdf>  
2020: [https://en.wikipedia.org/wiki/List\\_of\\_public\\_corporations\\_by\\_market\\_capitalization#2020](https://en.wikipedia.org/wiki/List_of_public_corporations_by_market_capitalization#2020)

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## Investors view data as an asset

- Organizations that leverage data as an asset, have a CDAO, data science, an enterprise data governance function, have a market to book value that is 2x the market average
- Those that generate data/information products have a market to book value that is 3x the market average

Gartner

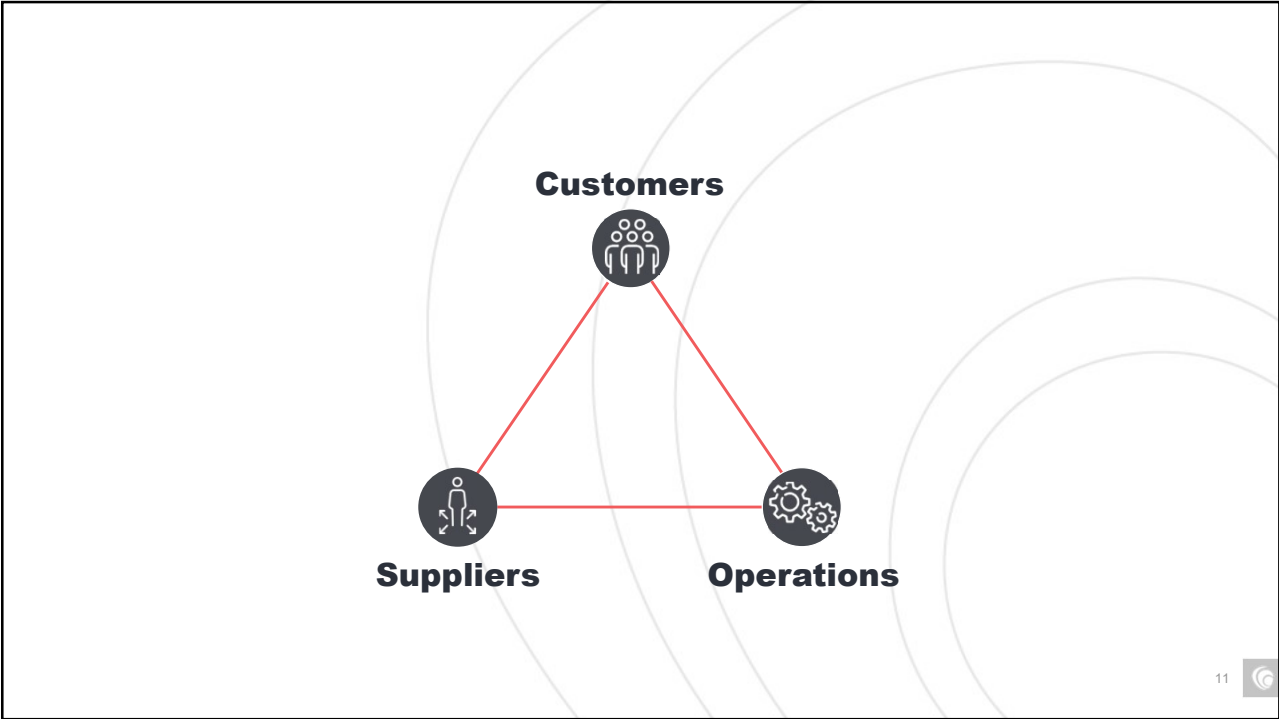
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## Investors view data as an asset



## Triangulating on Data Value



## Triangulating on data value

**Customers**

- Improving acquisition and retention
- Introducing or enhancing products services
- Bartering for the exchange of information

**Customers**

**Suppliers**

**Operations**

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## Triangulating on data value

### Suppliers

- Negotiating more favorable terms, conditions and relationships
- Improved analysis of spend and collective buying power

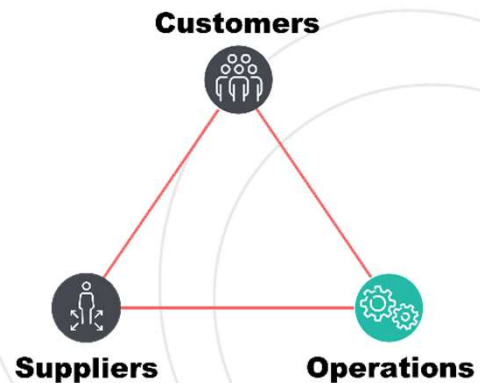


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## Triangulating on data value

### Operations

- Reduced maintenance costs
- Improved identification of risk and fraud



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## Byproducts of Treating Data like an Asset

- 1 Investment in people, technology, and other resources
- 2 Improved governance and accountability
- 3 Increased data quality and availability
- 4 Quicker turnaround for new analysis

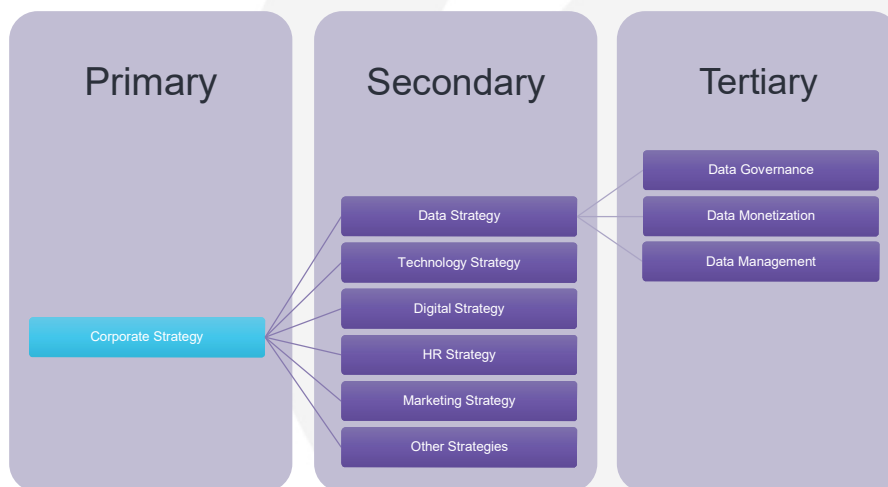
## Polling question #1

**How would you describe your organization's ability to monetize data?**

- a. We are excited but haven't started
- b. We have a data foundation but haven't monetized it
- c. We have started monetizing but see an opportunity to do more
- d. We are monetizing and doing great

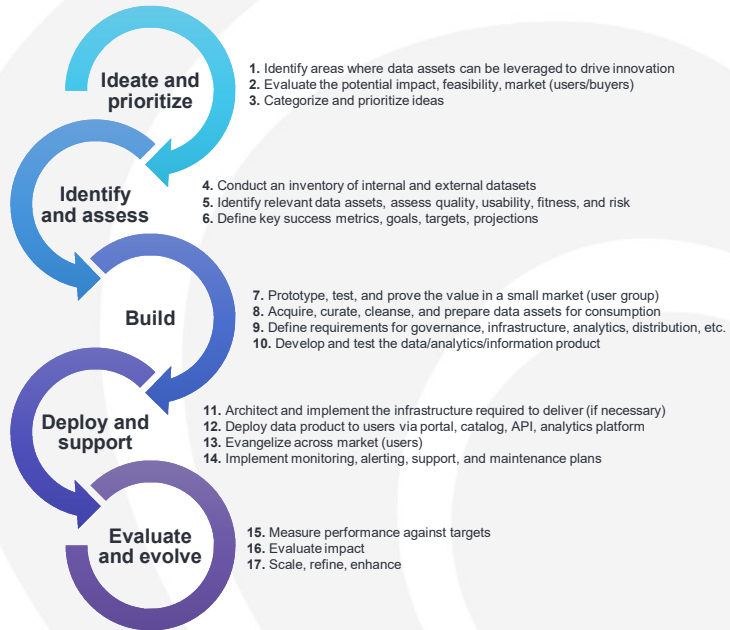
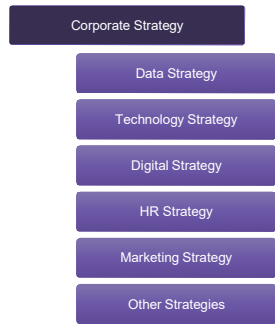
# Approach

## Multiple strategies support the organization



## DATA MONETIZATION

# Lifecycle



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## Criteria for monetizable datasets

- ↓ Low cost structure
- ↑ High intrinsic value
- ↑ High quality index
- ↑ High business value

Cost basis vs. economic value

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## Aligning Priorities

It's key to align business overall business priorities to analytical initiatives. Below are typical scoring criteria to develop a four-square priority matrix of requests.

### Business Impact

- Weighted Number of Anticipated Users
- Existing Alternatives
- Achievement to Financial Goals
- Strategic Significance and Alignment
- Frequency of Use

### Technical Feasibility

- Data Availability
- Transformation Complexity
- Infrastructure Impact
- Maintenance and Support
- Data Quality

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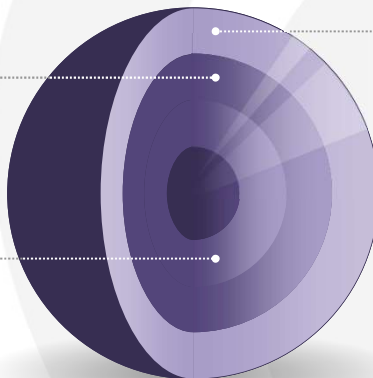
## Consider your "datasphere"

### Partners

Inventory, venue, demographic, promotional, orders, supply chain, demand, data exchange

### Internal

Customer, inventory, operations, sales, marketing, finance, HR



### External

Social, macro trends, census, climate, education, energy, science & research, health, government, financial markets

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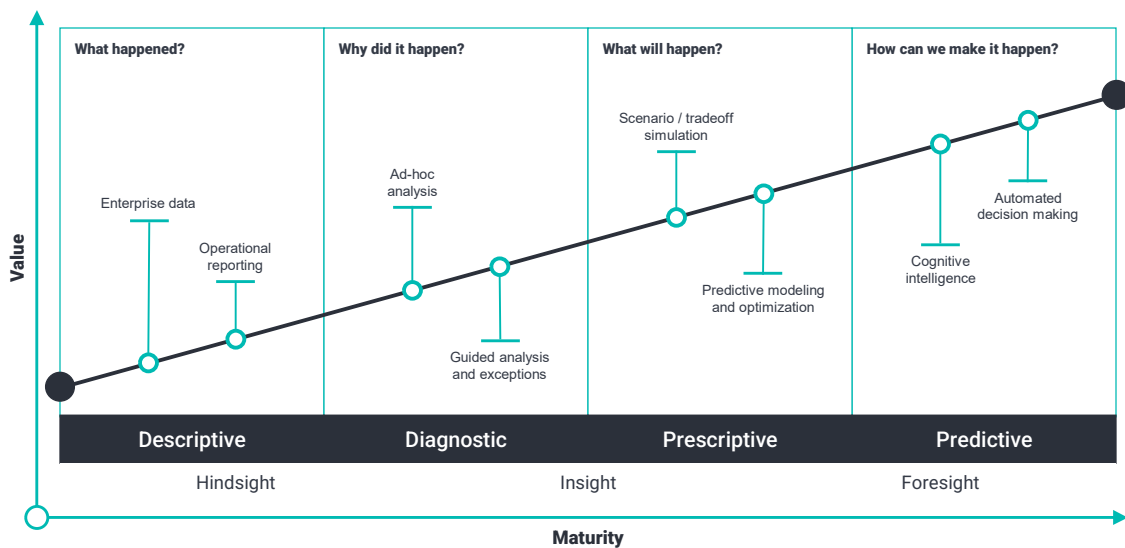
## The importance of the CDAO

- Capitalizing on big data opportunities
- Creating a competitive advantage through data
- Having a consistent approach to minimize risk in data-driven projects



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## Analytical Maturity Model



# Architecture

## Consider different forms of data

### Structured data

Databases

### Semi-structured data

XML

JSON

CSV, TSV

Email

Web Pages

### Unstructured data

Audio

Video

Documents

Photos

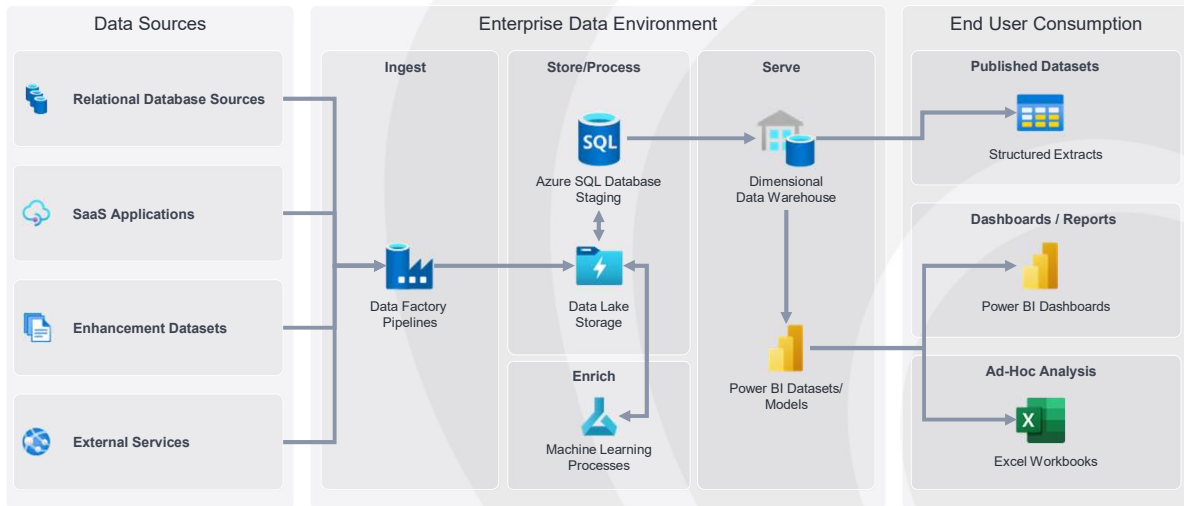
Synthetic Data

Natural Data



MODERN DATA

## Architecture (Microsoft Example)



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## Data Governance and management

## Data governance to enable monetization

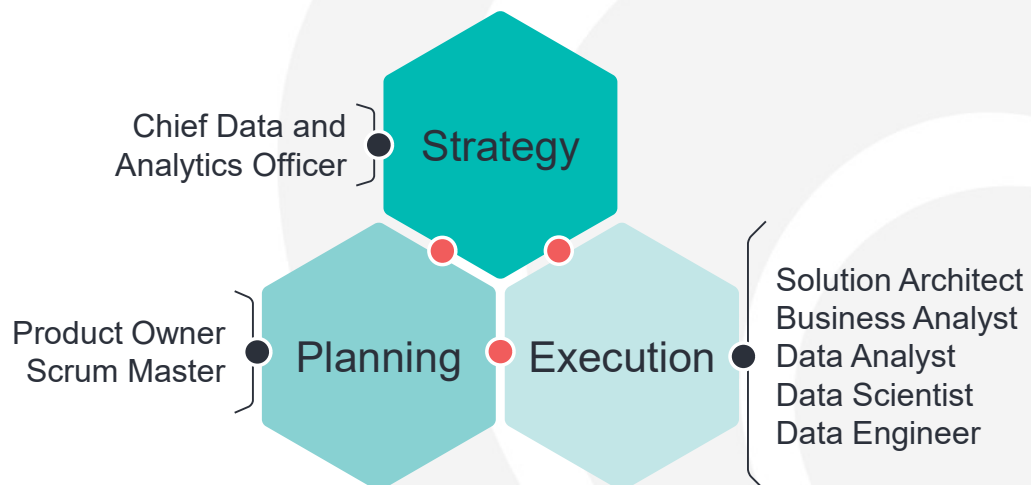


### Key Activities

- Business Stakeholder Interviews
- Analysis and Consolidation
- Establish Guiding Principles
- Set Goals and Objectives
- Define Roles and Responsibilities
- Design Organizational Framework
- Create Standard Operating Procedures
- Develop Change Management Plan
- Develop Communication and Training Plan
- Data Governance Committee Review
- Monitoring of Quality Metrics

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## Consider strategic and tactical team roles



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## **Measure opportunity against risk**

- Data breaches, data sprawl, copy data, data synchronization
- Mitigation strategies through data management programs
- Regulatory compliance (e.g., CCPA, GDPR, CDPA)
- Technical debt

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**Questions?**

# Let's connect



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