

What Does it Mean to Be a Data-Driven Organization?



Donna Burbank Global Data Strategy, Ltd. June 27, 2024



Donna Burbank





Donna is a recognized industry expert in data management with over 25 years of experience in data strategy, data governance, data modeling, metadata management, and enterprise architecture. Her background is multi-faceted across consulting, product development, product management, brand strategy, marketing, and business leadership.

She is currently the Managing Director at Global Data Strategy, Ltd., an international data management consulting company that specializes in the alignment of business drivers with data-centric technology.

In past roles, she has served in key brand strategy and product management roles for several of the leading data management products in the market.

As an active contributor to the data management community, she is a long time DAMA International member, contributor to the DMBOK 2.0, Past President and Advisor to the DAMA Rocky Mountain chapter, and was awarded the Excellence in Data Management Award from DAMA International.

She has worked with dozens of Fortune 500 companies worldwide in the Americas, Europe, Asia, and Africa and speaks regularly at industry conferences. She has co-authored several books and is a regular contributor to industry publications. She can be reached at donna.burbank@globaldatastrategy.com
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DATAVERSITY Data Architecture Strategies

DATA ARCHITECTURE STRATEGIES

This Year's Lineup

| • January | Emerging frends in Data Architecture – What's the Next Big Thing? |
|-------------------------------|--|
| February | Building a Data Strategy - Practical Steps for Aligning with Business Goals |
| • March | Master Data Management - Aligning Data, Process, and Governance |
| • April | How do Data Governance & Data Architecture Support Each Other? |
| • May | The Role of the Chief Data Officer (CDO) in Business Transformation |
| • June | What Does It Mean to be a Data-Driven Organization? |
| • July | Data Architect vs. Data Engineer vs. Data Scientist – Making Sense of Roles in Today's Data-Centric Organization |
| August | Data Quality Best Practices (with Nigel Turner) |
| September | Best Practices in Metadata Management |
| October | Enterprise Architecture vs. Data Architecture |

The Business Benefits of Data Modeling

Emerging Trends in Data Architecture - What's the Next Rig Thing?



December

What We'll Cover Today



- There is a lot of buzz in the industry about the benefits of becoming a **data-driven organization**.
- What does data-driven mean for various industries from for-profit to non-profit firms?
- What roles make sense in a data-driven organization, and what are the benefits that working together to increase data literacy can achieve?
- This webinar discusses **how a modern Data Architecture** can support the data-driven organization.



Business Goals for Data Management



Key Business Drivers include both Analytic and Operational Use Cases.

What are Your Main Business Goals & Drivers for Implementing Data Management in Your Organization?





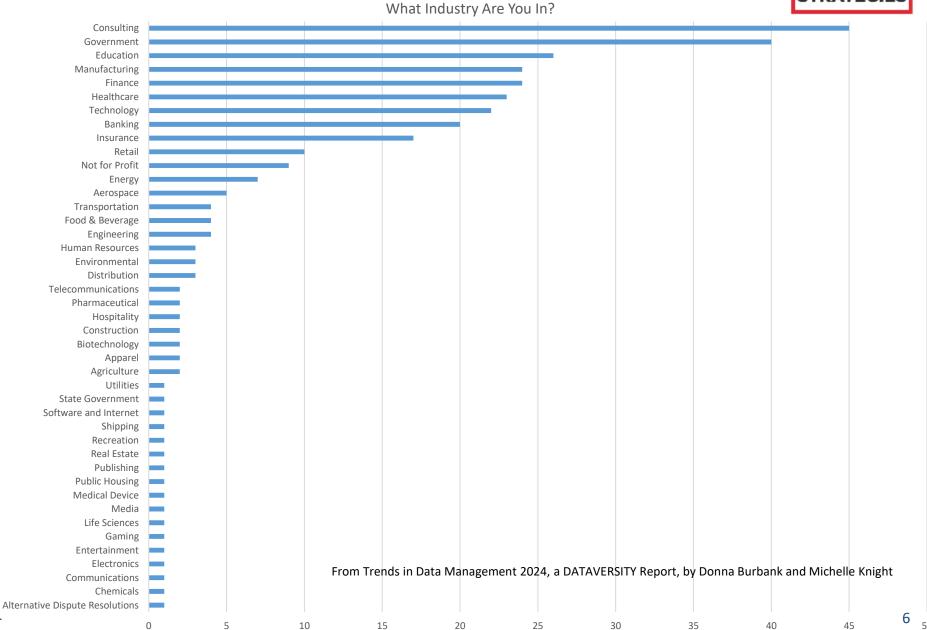
What Industries Are Data-Driven?



All of the Cool Kids Are Doing It!



Global Data Strategy, Ltd. 2024 $^{'}$



Key Factors in Data-Driven Business Optimization



Business Optimization Drives Value the Following Areas:



Decreasing Costs

- Wasted Labor costs due to manual efforts (Data cleansing, manual integration, etc.)
- Inefficient business processes for data management (Product Master Data process)
- Data quality cost avoidance (Wasted mailings sent to wrong address)



Increasing Revenue

- Price Optimization through Analytics
- Improved Marketing Campaigns through Quality Customer Data
- Data-Driven Recommendation Engines to enhance the sales cycle.
- Better Grant writing through data-driven needs analysis



Reducing Risk

- Industry regulations (GDPR, HIPAA, BCBS 239, Spice, etc.)
- Product Traceability
 (Food lineage from farm/catch)
- Litigation due to Data Breach
- Health and Safety Audit



Protecting Reputation

- Customer Satisfaction
- Brand Trust
- Social Media Voice of Consumer
- Loyalty & 'Stickiness'



Retail

Business Intelligence Dashboarding

- Customer Spend by Region
- High Spend Customers
- Profitability Analysis Over Time
- Top Used Product Features

Advanced Analytics

- Market Basket Analysis
- Suggestion Engines
- Footfall Analytics

- Product Catalog / Hierarchies
- Customer
- Supplier
- Location



Transportation

Business Intelligence Dashboarding

- Driver Costs
- Route Efficiency
- Revenue per Route
- Customer Spend by Haul Type

Advanced Analytics

- Employee Turnover Predictive Models
- Predictive Maintenance

Real-time streaming

- Vehicle Speed
- Location Tracking

- Vehicle
- Driver
- Route



Social Services

Business Intelligence Dashboarding

- How many individuals are we serving?
- What are the demographics of our clients?
- What is the cost per service?
- Top Donors by year

Advanced Analytics

- What is the impact of our services over time?
- Forecasting for future service usage

- Client / Individual
- Family
- Service
- Staff



Higher Education

Business Intelligence Dashboarding

- How many students are we serving?
- Cost per facility
- Enrollment by discipline

Advanced Analytics

- What factors influence academic success?
- Which are the predictive factors that influence enrollment from high school?

Real-time streaming

- Cell Phone Alerts
- Footfall Analytics

- Student
- Course
- Location
- Faculty



Manufacturing

Business Intelligence Dashboarding

- Top Suppliers by Quality / Defects
- Production Line Productivity Rate
- Top Output per Employee

Advanced Analytics

- Predictive Maintenance
- "Next Best Action" for Operational Efficiency

Real-time streaming

- Production Monitoring
- Master Data Management
 - Part
 - Component
 - Product
 - Supplier
 - Customer

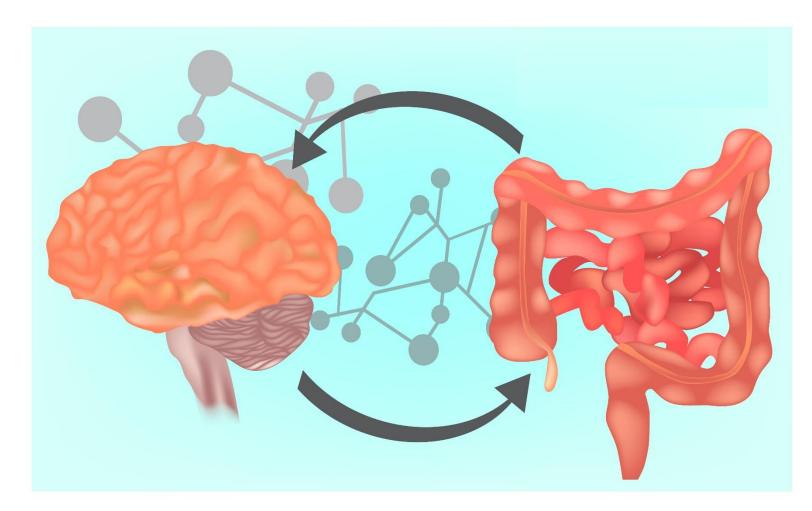


Data-Driven vs. "Going with Your Gut"



Have You Heard ...

- "I just know my customers"
- "Don't tell me how to run my business"
- "I've been doing this for 20 years I don't need a dashboard to tell me what to do"
- "I don't trust the data"
- "That doesn't feel right"
- "That's not the calculation/definition I use ..."



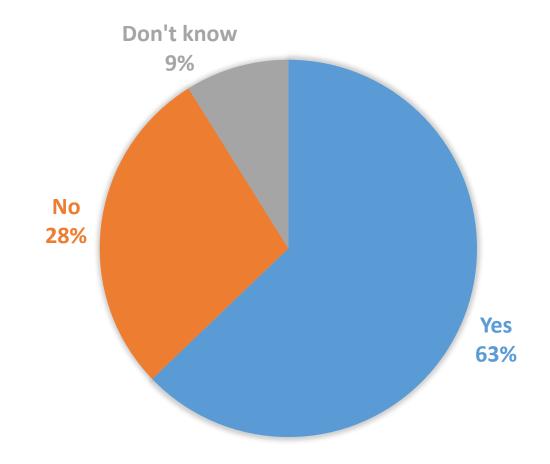


Data As a Corporate Asset

DATA ARCHITECTURE STRATEGIES

Survey Results

Does Your Organization Treat Data as a Corporate Asset?

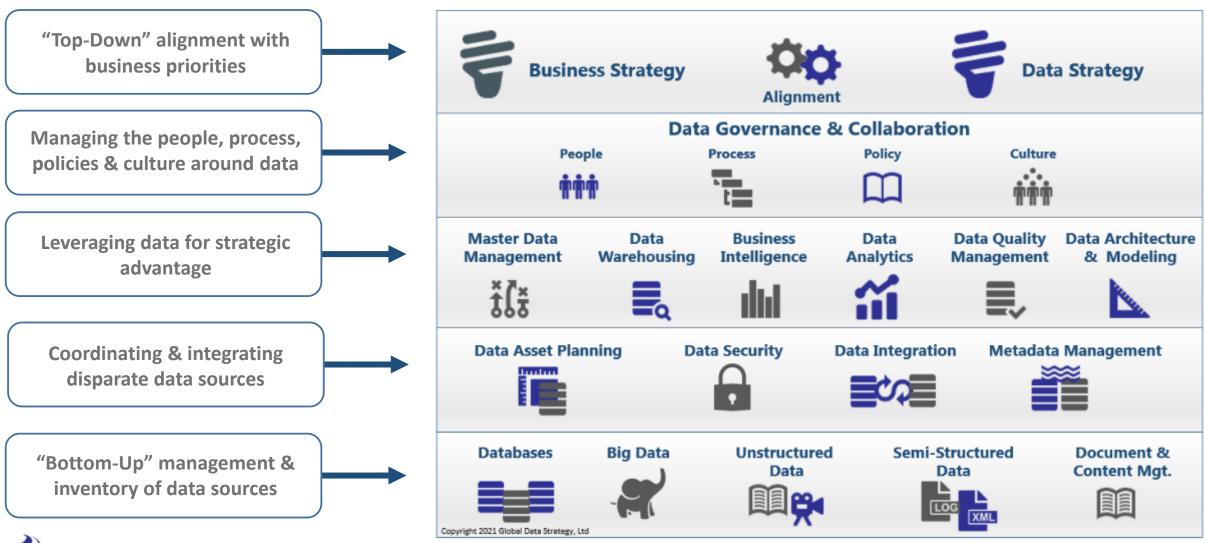




Aligning Business Strategy with Data Strategy



A Successful Data Strategy links Business Goals with Technology Solutions



Data Roles: Business-Led, Tech-Supported



A Successful Data-driven Organization is Business-led, Tech Supported

Data Owners & Data Stewards are the decision-makers and key consumers of data



These roles need a strong data foundation to support them, enabled by a data-centric technical team.

Data Roles: Business-Led, Tech-Supported - Analytical











Show me Product Sales Trends Over Time.

Self-Service Reporting

Reporting & Analytics





Business Intelligence Reporting





Data Scientist

Business Requirements & Architecture



Data Analyst



Data Architect



Metadata Manager

Technical Requirements & Architecture



Data Engineer



Data Architect



Platform Engineer



Data Roles: Business-Led, Tech-Supported – Operational











Show the Correct Product Info on the Website



Business Usage & Data Input (Master Data & Operational Data)

Business Requirements & Architecture



Data Analyst



Data Architect



Business Process Workflow Analyst



Metadata Manager

Technical Requirements & Architecture



Data Engineer



Data Architect



Application
Owner/Developer
(e.g. ERP, CRM, etc.)



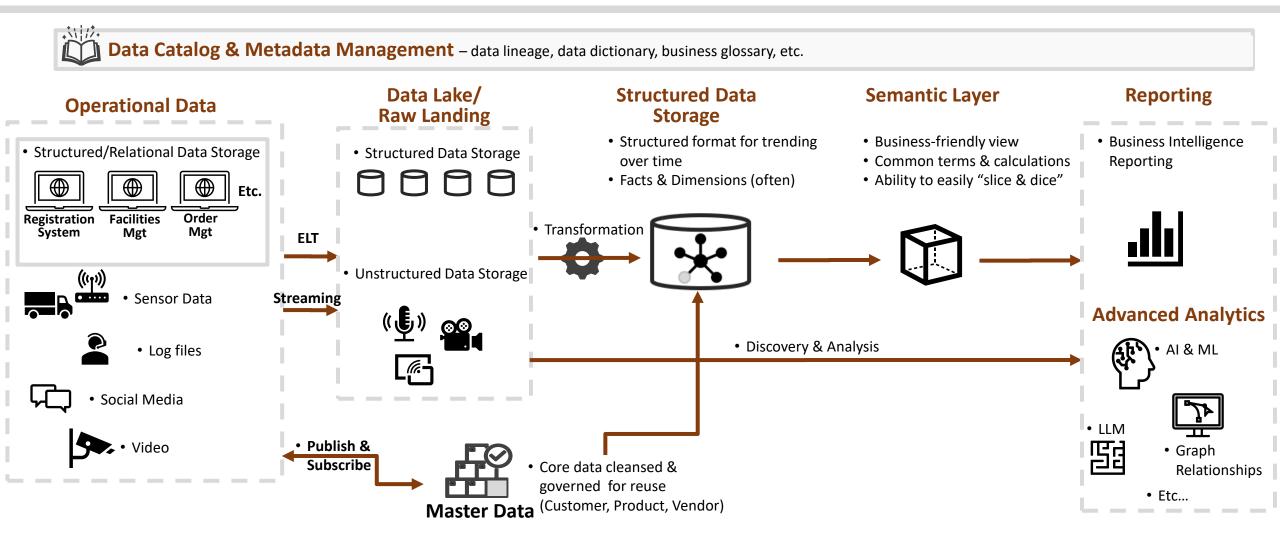
Master Data Engineer
/ Tool Developer



Platform Engineer









Show me
Product Sales
Trends Over
Time.



Operational Data

Data Catalog & Metadata Management – data lineage, data dictionary, business glossary, etc.

Data Lake/

Semantic Layer

Structured Data

governed for reuse

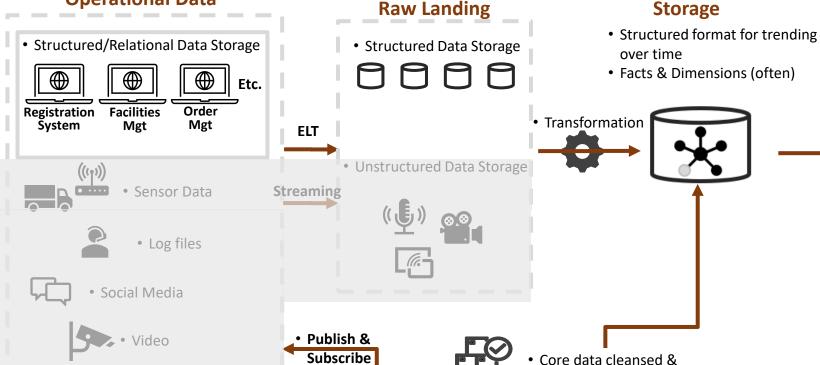
Master Data (Customer, Product, Vendor)

- Business-friendly view
- Common terms & calculations
- Ability to easily "slice & dice"

Reporting

 Business Intelligence Reporting





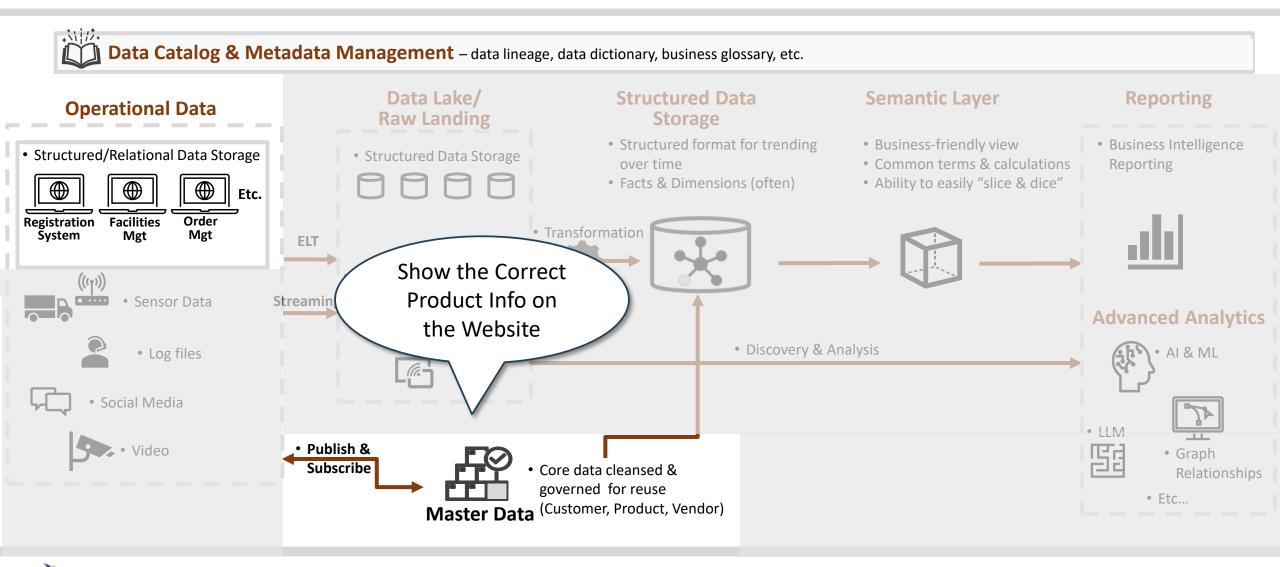




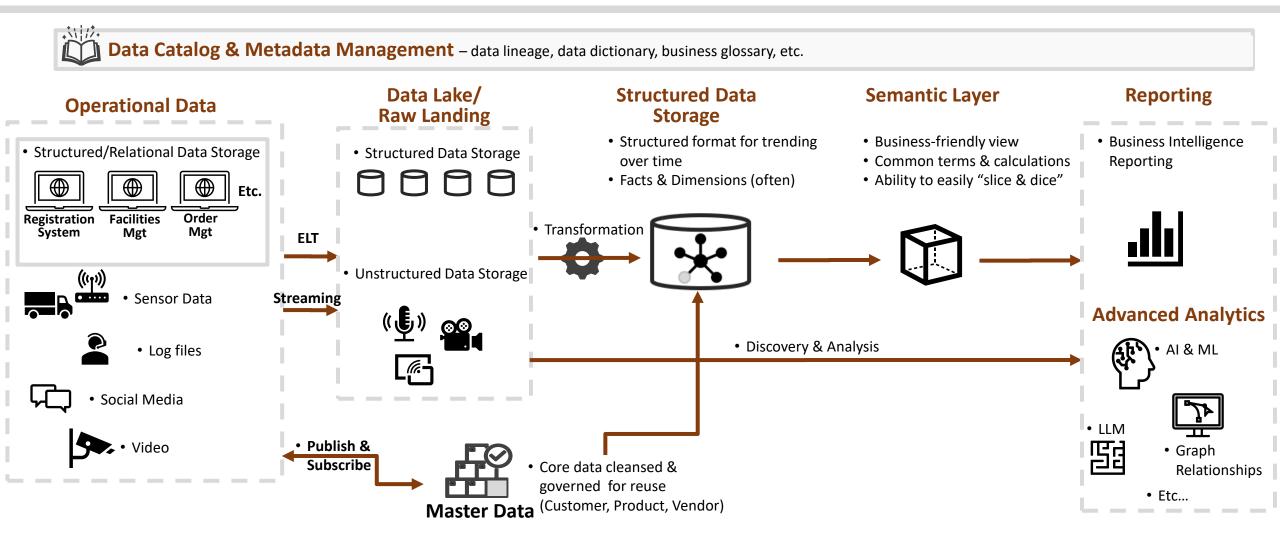


• Etc...









Summary



- Organizations of all types can be Data-Driven.
- Data-driven techniques include both Analytical and Operational benefits.
- "Gut Feel" can both hamper and support a datadriven organization.
- A data-driven organization is business-led, and IT supported.
- Collaboration between business and tech roles is critical, typically enabled though data governance.



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Who We Are: Business-Focused Data Strategy



Maximize the Organizational Value of Your Data Investment



Global Data Strategy's shares experience from some of the largest international organizations scaled to the pace of your unique team.

In today's business environment, showing **rapid time to value** for any technical investment is critical.

But technology and data can be complex. At Global Data Strategy, we help demystify technical complexity to help you:

- Demonstrate the ROI and business value of data to your management
- Build a data strategy at your pace to match your unique culture and organizational style.
- Create an actionable roadmap for "quick wins", which building towards a long-term scalable architecture.

Global Data Strategy has worked with organizations globally in the following industries:

Finance · Retail · Social Services · Health Care · Education · Manufacturing · Government · Public Utilities · Construction · Media & Entertainment · Insurance and more



Thoughts? Ideas?

Questions?