

Building a Data Strategy: Practical Steps for Aligning with Business Goals



Donna Burbank Global Data Strategy, Ltd. February 22, 2024



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Global Data Strategy, Ltd. 2024

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

She is currently the Managing Director at Global Data Strategy, Ltd., an international data manager 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 market.

As an active contributor to the data management community, she is a long time DAMA International member 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 is based in Boulder, Colorado, US.

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DATAVERSITY Data Architecture Strategies

DATA ARCHITECTURE STRATEGIES

This Year's Lineup

• January Emerging Trends 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
- **December** The Business Benefits of Data Modeling





What We'll Cover Today



- Developing a **Data Strategy for your organization can seem** like a daunting task but it's worth the effort.
- Getting your Data Strategy right can provide significant value, as data drives many of the key initiatives in today's marketplace, from digital transformation to marketing, customer centricity, population health, and more.
- This webinar will help demystify Data Strategy and its relationship to Data Architecture and will provide concrete, practical ways to get started.



A Structured Approach to Data Strategy: Getting Key Questions Answered



Business Goals & Strategy

Current State Assessment

Proposed Future State

Implementation Roadmap

- What are the key business drivers for data?
- How are business stakeholders affected?
- How can we link data management to business drivers?
- How can we show value & ROI from data?

- How complex is the current data landscape?
- What key technical issues impacting the business?
- How mature is our data management practice?
- How do we align with industry best practices?

- How do align the people, process and technology to enact change?
- What is the right data architecture pattern for us?
- What tools and technologies do we need?
- How do we design our Data
 Governance Framework?

- What do we do next?
- How do we plan for the long-term, via "quick wins" along the way?
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- How do we promote data projects through marketing
 & communication?









The Rise of the Data-Driven Business



Data, more than ever, is seen as a key business asset and strategic differentiator.



THE WALL STREET JOURNAL.

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Challenges and Opportunities Confront the Data-Driven Business

Most companies capture a small fraction of their data's value

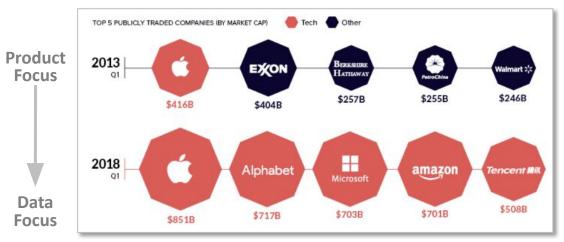


Data is Driving the Future of the Global Economy



- "For most of the history of business, the world's leading companies have been industrially-focused...
- ...But today's business reality is very different. We live in a world of bytes

 and for the first time technology
 and commerce have collided in a way that makes data far more valuable than physical, tangible objects.
- The best place to see this is in how the market values businesses." ¹



¹ Oct 15, 2018, World Economic Forum, "These are the 8 major forces shaping the future of the global economy"



The World Economic Forum sees today's economy as driven by Data, not Goods & Services



What is a Data Strategy?

Strategy vs. Management



Strategy:

- the art of devising or employing plans or stratagems toward a goal
- 2. an adaptation or complex of adaptations (as of behavior, metabolism, or structure) that serves or appears to serve an important function in achieving evolutionary success
- 3. the science and art of military command exercised to meet the enemy in combat under advantageous conditions

- Source Merriam Webster

Management:

- judicious use of means to accomplish an end
- 2. the act or art of managing: the conducting or supervising of something (such as a business)



But What is "It", Really?



- Many people are overwhelmed with the concept of building a Data Strategy it can seem like a
 massive and overarching task.
- On a very tactical level, many wonder what format it should be in Word Document, PowerPoint presentation, Interpretive Dance? 😌
- While many formats can be effective, a visual presentation often has the most impact. Key sections of the strategy should include:
 - Business Alignment case for change and value proposition
 - Current State Analysis
 - Future State Recommendations
 - Roadmap and Next Steps
 - Projected ROI and Benefit



Business Optimization vs. Business Transformation



Digital Transformation is transforming business

Business Optimization

Becoming a Data-Driven Company

- Improving Efficiency
 - Reduce Redundancy
 - Eliminate Manual Effort
- Growing Revenue
 - Improved Marketing Campaigns
 - Data-driven Product Development
- Etc.

How do we do what we do better?



Business Transformation

Becoming a Data Company

- New Business Models
 - Data is the product
 - Monetization of information
- Digital Transformation
 - New Business Models
 - Data is the Business
- Etc.

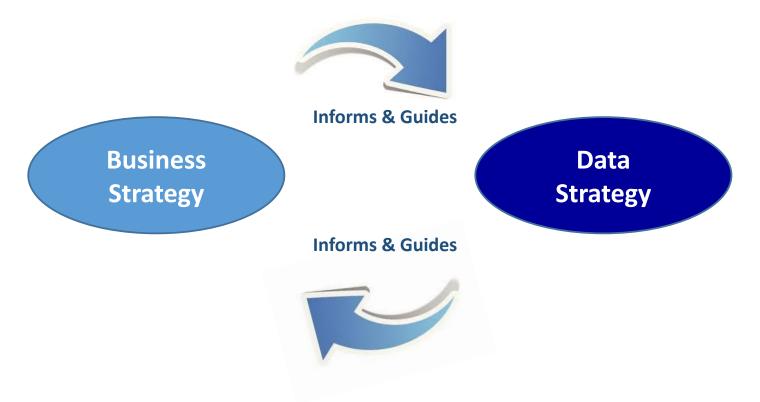
How do we do something different?





Business & Data Strategy – the Interdependency



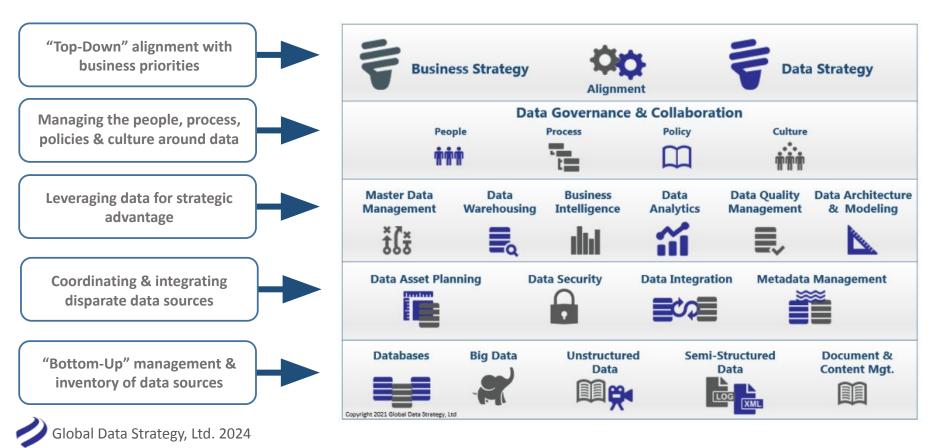




Aligning Business Strategy with Data Strategy



A Successful Data Strategy links Business Goals with Technology Solutions

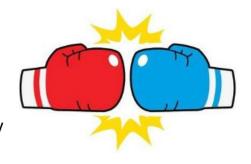


"Offense" vs. "Defense"

DATA ARCHITECTURE STRATEGIES

Which style of data strategy fits your organization?

Offense



- Focused on Creating Opportunity
 - Improving Profitability
 - Increasing Revenue
 - Improving Customer Satisfaction
 - Competitive Advantage

Defense

- Focused on Reducing Risk
 - Compliance & Regulation
 - Avoiding Audits or Fines
 - Fraud Detection
 - Security & Privacy

On which end of the spectrum is your organization?

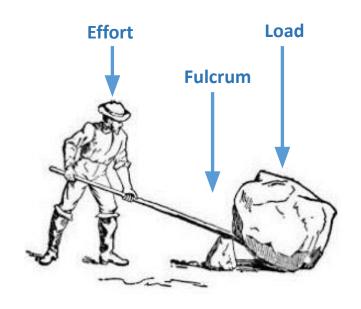


Look for Business Value "Levers"

Identify "Quick Wins"

DATA
ARCHITECTURE
STRATEGIES

- Identify areas that will derive the highest business value by addressing.
 - Is this supporting the new marketing campaign for a high visibility product launch?
 - Or are you "re-arranging the deck chairs on the Titanic" i.e. focusing valuable time and effort no low-value activities
- As with any areas of the business that have value, it is helpful to build a model or architectural design around the key areas of business value.



Identify areas where data can be the fulcrum.

Making the Business Case



While Business Cases and ROI Calculations can be complex, they generally fall into 4 categories:



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, HIPAA, 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'

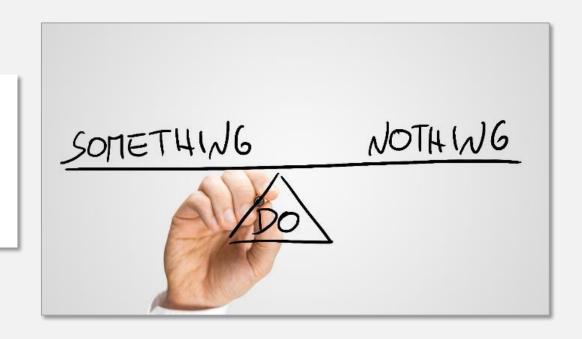


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Include the Risk of Doing Nothing

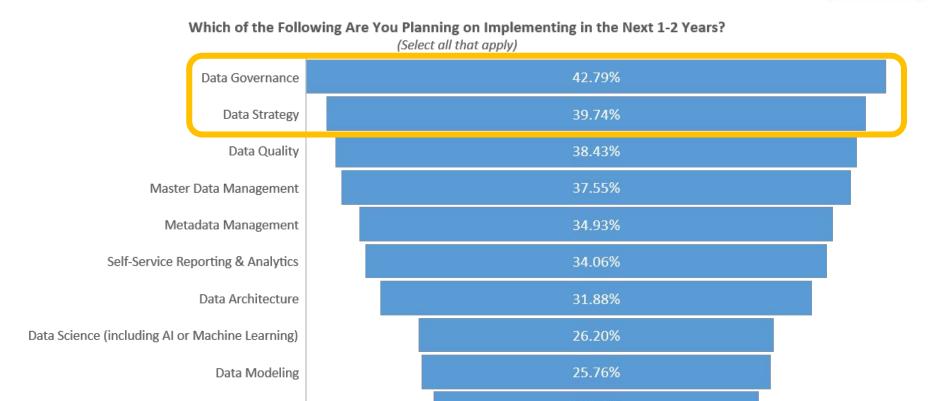


- There is significant cost and risk in the status quo
- Doing nothing often has a higher cost than investing in data management.
- Make sure to include the "do nothing" option in your analysis.



Data Strategy & Data Governance are Priorities for Many Organizations⁴







Data Integration

24.02%

Applying a Structured Data Governance Framework





Mapping Organizational Capability for Data Governance

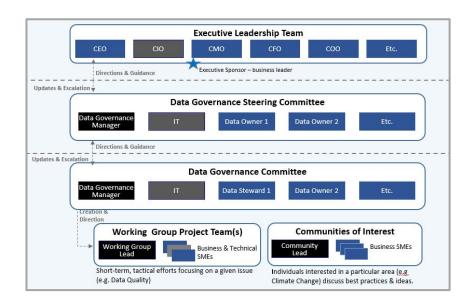


Organizational Capability, Organizational Structure, and Roles are key to any Data Strategy

Aligning to Organizational Capabilities e.g. From Plan to Production to Sales & Distribution



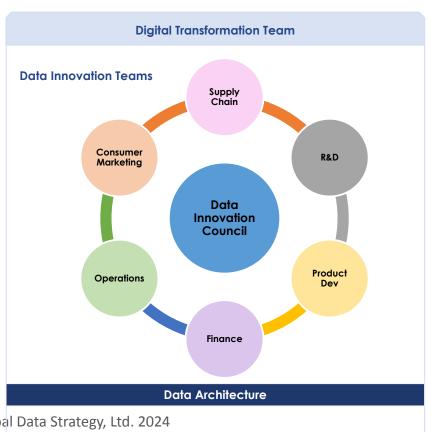
Designing Org Structures for Data-Centric Efforts e.g. Aligning Data Governance to Individual Culture



No "One Size Fits All" Data Governance Approach

DATA STRATEGIES

Federated Approach with Agile Development Lifecyle





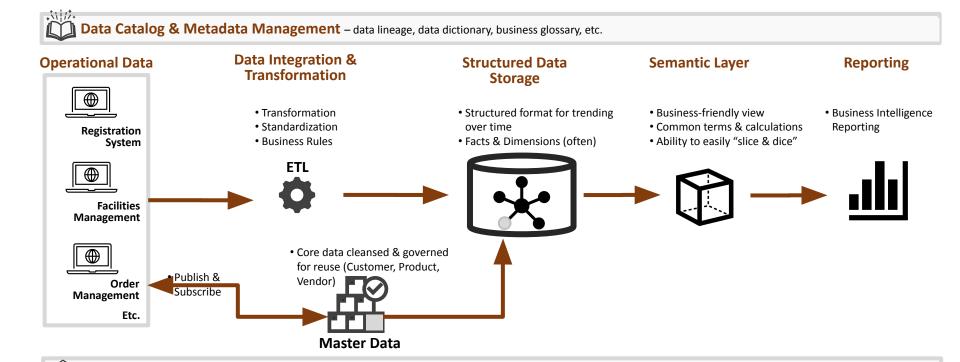






Data Warehouse



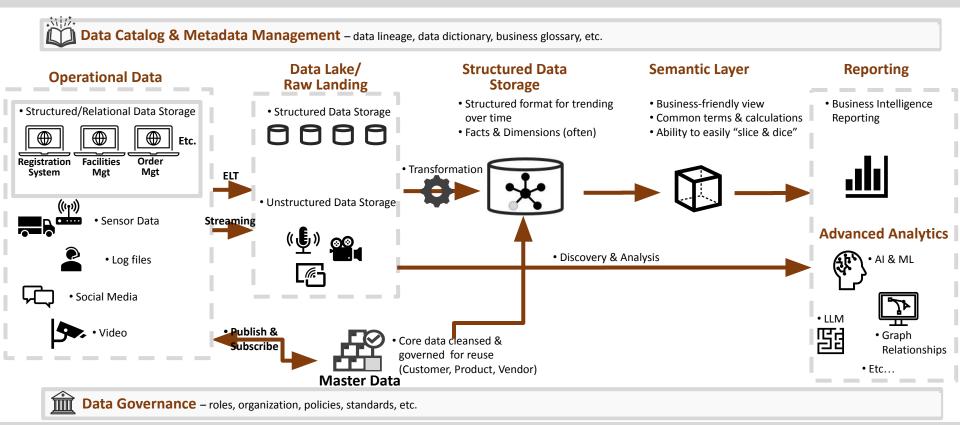




Data Governance – roles, organization, policies, standards, etc.

Data Lakehouse





Data Fabric



Reporting, Analysis, and Discovery across Disparate Data Sources







BI Reporting

Advanced Analytics

A Data Virtualization Layer Provides a Logical View for Data Access, removing the need to physically move data into a central place. A Semantic, business-friendly view is provided for Self-Service reporting.

Data Virtualization Layer

Data Warehouse 1



Data Warehouse 2



Operational

System(s)

Master



Data

Data Lake



Data from **Partner Organizations**



Etc.

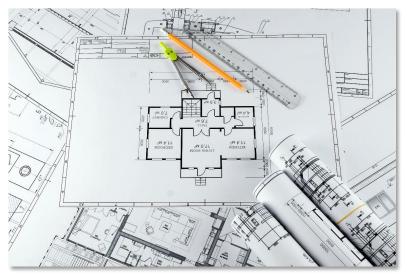


Data Governance – roles, organization, policies, standards, etc.



Architectures Are Becoming Ecosystems







50

- Singular, Fit for purpose solutions
- Design for individual use-cases (e.g. DW, Big Data Analytics)
- Scalability could be limited by platform
- Targeted users by solution

- Dynamic, interrelated best of breed solutions
- Multi-faceted, interrelated use cases
- Faster-scalability with cloud-based provisioning
- User communities with self-service reporting & analytics capabilities





Building Blocks to an Effective Roadmap



Who?

Why?

What are the key business drivers? Think both "Offense" & "Defense" Who are the key stakeholders who will benefit? Who are the Data Stewards who can be "discovered" in the organization?

When?

When will you roll this out?

What is the timing and cadence or actions and deliverables?

Are there other key initiatives it's important to align with?

What?

How?

How will you organize the Data Governance team(s)?

What Data Architecture will you put into place?

What data needs to be managed?

Is this structured or unstructured?

Real-time or batch?

Data Lake and/or Warehouse – or Fabric?

Tell the Story – Explain Vision and the Journey to Get There



- Storytelling and vision-building is a key part to any strategy.
 - Build a sense of excitement
 - Provide a vision for what the future will look like
 - Show the journey and the effort required
 - Explain the steps to achieve the journey
 - Clarify everyone's role in the journey where do they fit, and what skills do they need?





Assess Organizational Maturity



Current vs. Target Maturity

Current State Future Maturity

- Perform a realistic maturity assessment of the organization's data management capabilities:
 - Current state by discipline
 - Future Goals
 - Gaps that need to be filled



Global Data Strategy's Data Management Maturity Assessment



Find Your "Quick Wins"



 It's important to show early value for the Data Strategy effort • ... and continue to deliver iterative value over time.







A "Quick Win" is Not a "Quick Fix"



A Quick Win is not a sloppy, "quick fix" that will not scale for future use.





NO



YES

A Roadmap is Not a Laundry List



- A common error is to create a roadmap that reads like a "Laundry List" of activities
 - Create "themes" for each stage that tie into the vision
 - Call-out "quick wins" and value for each activity
 - Consider the WIIFM what do key stakeholders care about?



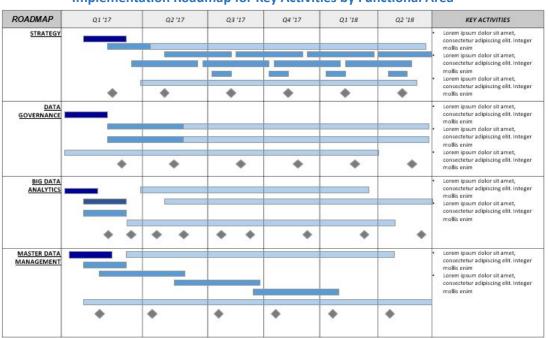
Implementation Roadmap

DATA ARCHITECTURE STRATEGIES

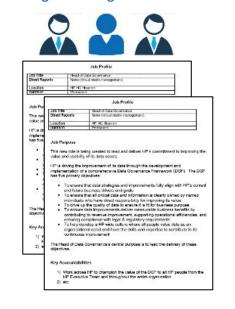
Define Roadmap & Staffing for Executing the Strategy

- Define your roadmap with key activities timed to align with key business initiatives.
- Align with necessary staffing and training.

Implementation Roadmap for Key Activities by Functional Area



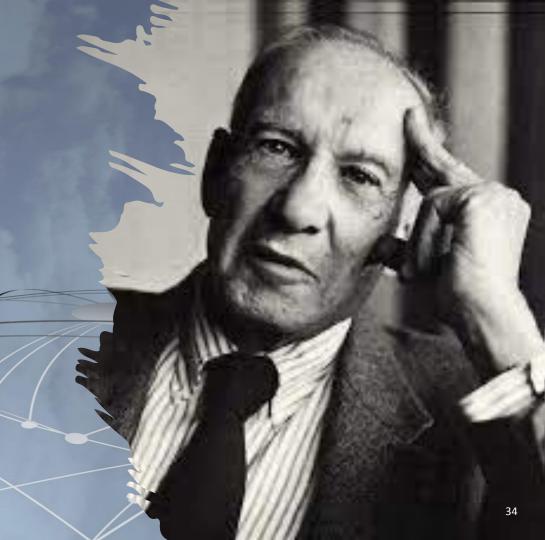
Staffing & Training Recommendations





'Culture eats strategy for breakfast.'

Peter Drucker, Management Strategist & Consultant



Organizational Culture and Organizational Change Management



Organizational Culture:

"Organizational culture is the personality of the organization". ¹





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Organizational Change Management:

Organizational change refers to the actions in which a company or business alters a major component of its organization, such as its culture, the underlying technologies or infrastructure it uses to operate, or its internal processes.

Organizational change management is the method of leveraging change to bring about a successful resolution. - Harvard Business School

1 https://managementhelp.org/organizations/culture.htm

DATA **The Change Journey** ARCHITECTURE STRATEGIES I'm seeing the value of this over time - how did I Other people are excited ever work without this? about it - maybe it can help me, too. **AWARENESS KNOWLEDGE** REINFORCEMENT **MOTIVATION** Alignment with •WIIFM Launch Awareness Ongoing **Business Value** •Trainings Communication Plan Vision & Roadmap Swag, slogans, Coaching •ROI & Value over time •Etc. Certifications Success Stories •Etc. •Etc. **COMMUNICATION! COMMUNICATION! COMMUNICATION! COMMUNICATION!** This is interesting – I'm This is new! Should I be starting to understand how concerned? it can help me. 36 tegy, Ltd. 2024

Organizational Change Happens at Three Levels



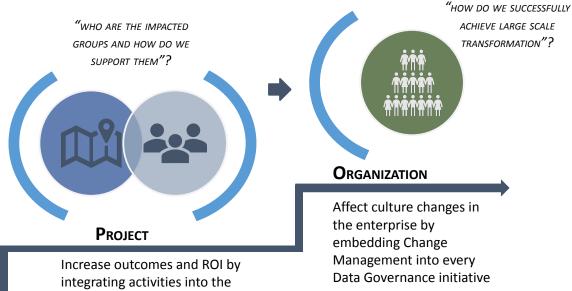
An organizational move to a future state requires individuals to reach their own future state

usage

Data Strategy directly impacts the culture of an organization



Enable people's success by supporting them through the dimensions of change



project plan that help prepare, manage, and reinforce change "The achievements of an organization are the and results in adoption and results of the combined effort of each individual". Vince Lombardi

Garnering Excitement - Engage Marketing & Branding



- It's beneficial to engage with your internal Marketing organization and/or an external agency
- Include a number of activities and materials in your communication and marketing plan. Here are a few ideas:



Resistance Management: Causes for and Approaches to



What looks like resistance is often a lack of direction

Typical Root Causes

Executives: Disconnected with their strategy, financial objectives or compensation

Middle Management: Lack of awareness, loss of authority or control, and overload of current responsibilities

Employees: Lack of awareness if why the changes are happening and "WIIFM". Comfort with the status quo and fear of the unknown.

Addressing Resistance

- Resistance prevention
 - Change management applied early at the onset of every project
- Proactive resistance management
 - Anticipation and early identification of likely resistance so it can be addressed and eliminated upfront
- Reactive resistance management
 - Applying a set of tactics when resistance becomes enduring and persistent



Parting Thought – Culture Change in Your Organization



What do you think is the biggest fear of change that you'll face?



What would be the biggest excitement/opportunity driver?





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Summary



- Aligning Data Strategy with business drivers & goals is key to success
- Orchestrate the people, process, technology, & culture required through a robust Data Governance program.
- Define a right-sized **Data Architecture** to manage technological change
- Your roadmap should tell a story and show an evolution from the current state.
- Culture building and organizational change are critical to success



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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?