



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

Donna Burbank
Global Data Strategy, Ltd.
February 27, 2025





Enhance your Data Strategy with CData Software

The Data Connectivity Company

Creating a data foundation for your business is both more urgent and complicated than ever

62%

of IT leaders say their organizations **aren't equipped to harmonize data** systems to fully leverage AI⁴

Adding pressure to existing demands for fresh, accurate data



Exponential growth of data sources and destinations

Large enterprises now manage over 664 different applications and are adding an average of 11 new applications every 30 days¹



Growing diversity of users who need to access data

57% of IT professionals spend more than half their work week servicing data requests²



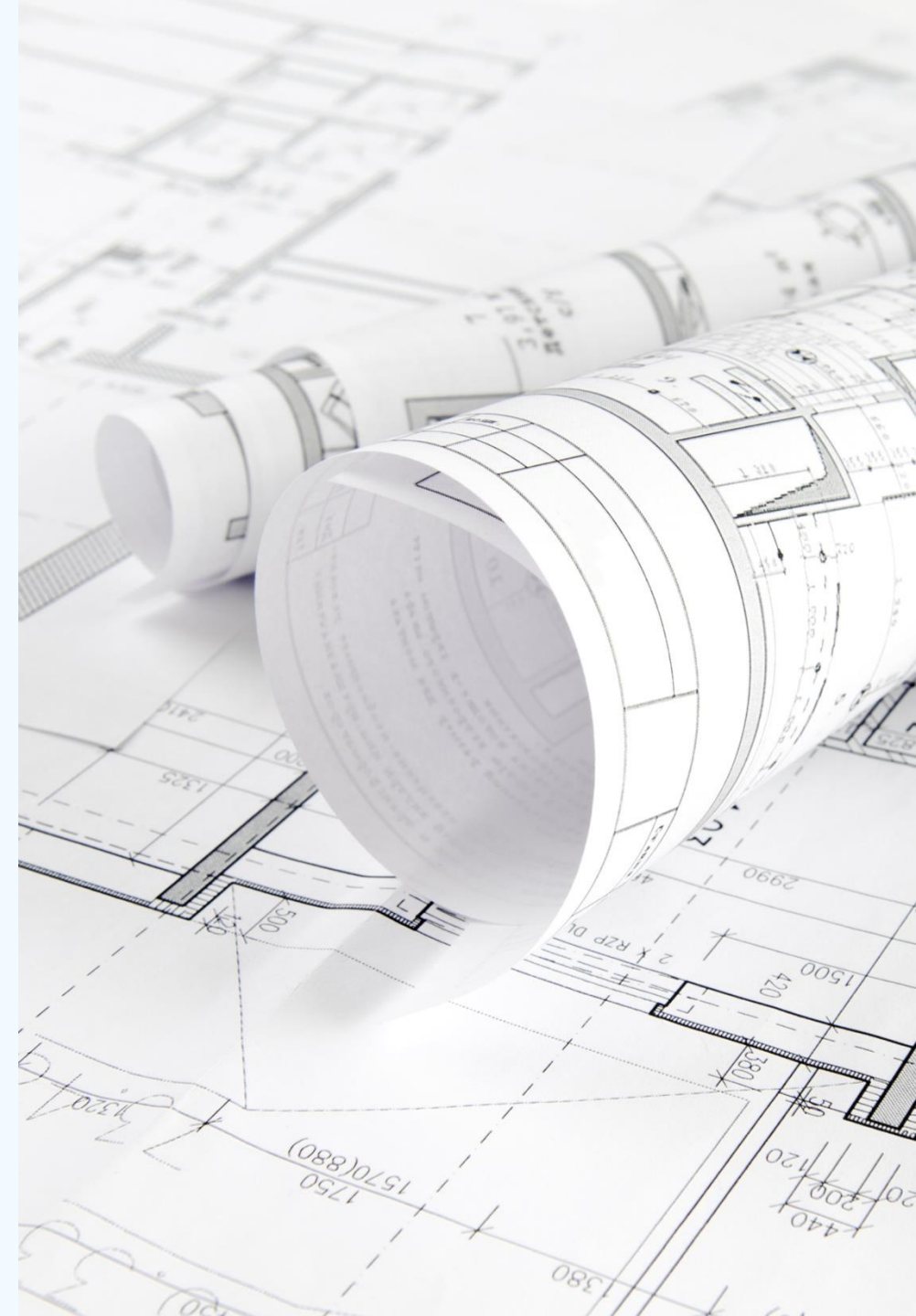
Increasing demand for diverse integration types

Increasing architectural complexity and greater diversity of use case requires multiple integration patterns³

Building Your Data Strategy

Essential questions to consider

- What are the business goals?
- Where is your data? Where does it need to be?
- What is your tolerance for "staleness"?
- How will you support modern data tooling?
- What environments do you need to support?



Companies work with CData to implement a solid data strategy in four main ways



ETL/ELT and data preparation standardization

Standardize ETL/ELT pipelines and data manipulation



Centralized source of truth for analytics

Create a real-time, unified semantic layer



Accelerate tech stack modernization

Decouple data access from operation systems and analytics tools

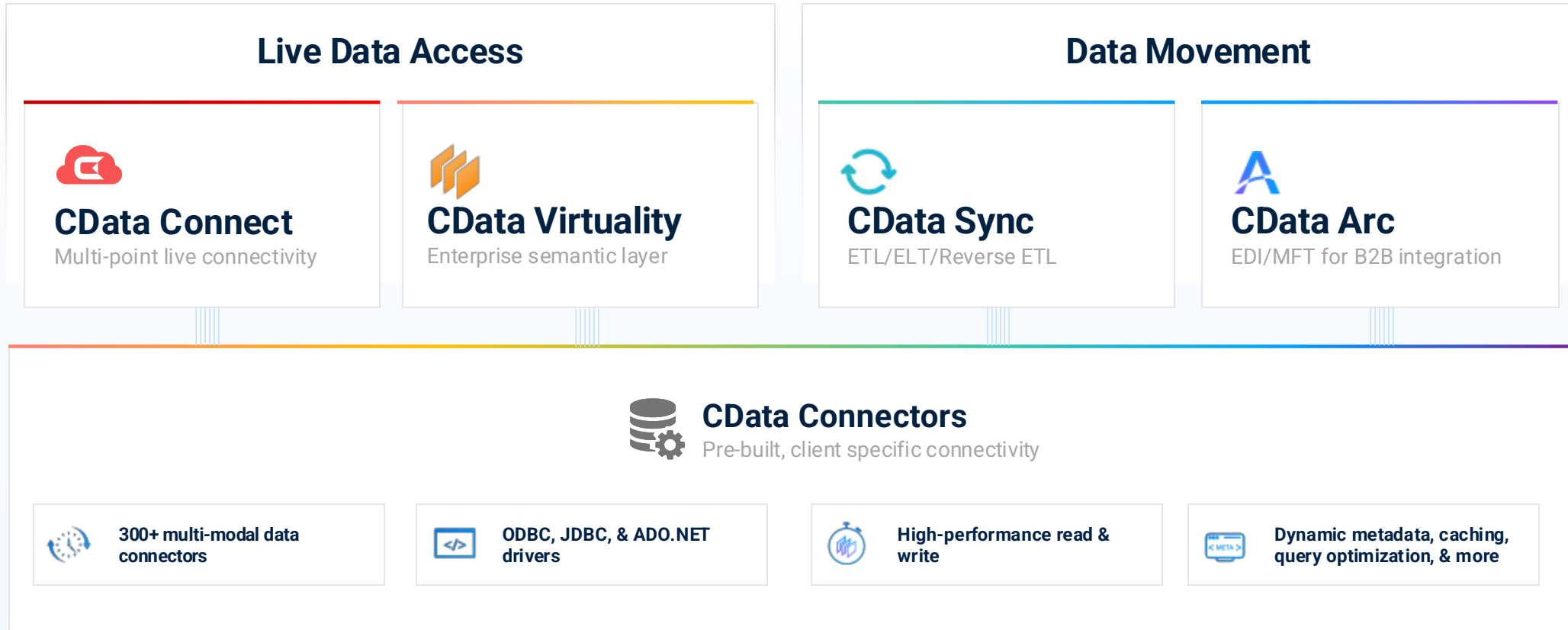


Connect across architecture types and ecosystems

Create integration flows across hybrid architectures and between diverse ecosystems

The CData Connectivity Platform

Industry-leading connectivity framework packaged to handle every integration use case



Providing unmatched
Range of Connectivity | Time-to-value | Price-to-performance

How are CData customers modernizing?

- ✓ Consolidating operational data into a central repository
 - Manhattan Associates moves Salesforce and Jira data into Snowflake
- ✓ Moving data from on-premise to cloud
 - American Red Cross replicates data from on-prem Teradata to Amazon Redshift
- ✓ Deploying new data fabric, mesh, or governance strategies
 - NYU ensures all data users gain self-service data access through a single hub



How are CData customers modernizing?

- ✓ Rapid pipeline deployment for comprehensive reporting
 - Recordati saw SAP HANA, SAP ERP, and Salesforce reports delivered 7x faster with half the errors
- ✓ Scaling IT infrastructure with a growing business
 - Scorpion's FP&A team replaces manual processes for extracting and consolidating data
- ✓ Connecting data between specific systems
 - BJ's improved employee retention by 10%



Start building your data foundation with CData today

"You need all kinds of styles of data, but the data is locked away in these complex enterprise applications and databases and a lot of legacy systems.

And that's where we have found an amazing partner like CData to be able to unlock the data, bring it in, **so you can get on your AI journey.**"



Chai Pydimukkala

Product Lead, Data Analytics and BigQuery Governance



Exponential growth of data sources and destinations

Unmatched breadth and depth of connectivity that scales as your environment matures



Growing diversity of users who need to access data

Every user from developer to business analysts can work with and access data how they want to



Increasing demand for diverse integration types

Integrate across architectures and ecosystems with multiple integration styles

What's next?

Free trials

- Live data access:
Connect Cloud & CData Virtuality
- Data movement:
CData Sync & CData Arc
- Point integration:
CData Drivers



Want to learn more?

Check out CData Foundations and hear from our customers how how a modern data connectivity strategy can build a strong foundation for your company.



Thank You



THE DATA CONNECTIVITY COMPANY

Donna Burbank



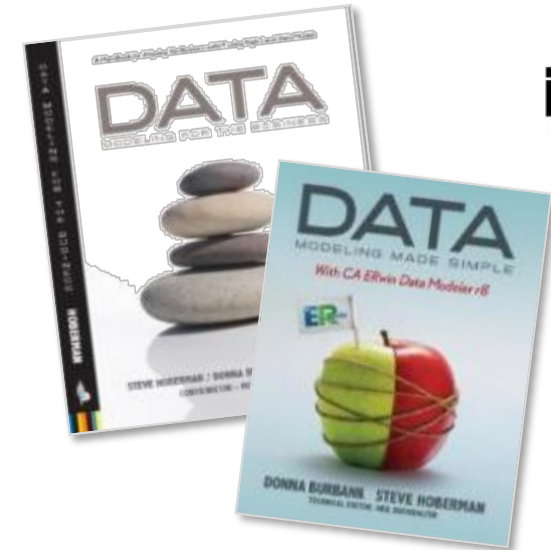
Donna is a recognized industry expert in data management with over 25 years of experience in data strategy, data governance, data modeling, metadata management, and enterprise architecture. Her background is multi-faceted across consulting, product development, product management, brand strategy, marketing,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



DATAVERSITY Data Architecture Strategies



This Year's Lineup

- **January** Trends in Data Architecture
- **February** Building a Data Strategy - Practical Steps for Aligning with Business Goals
- **March** Building the Right Architecture for Analytics & Reporting
- **April** Data Architect vs. Data Engineer vs. Data Scientist – Making Sense of Roles in Today's Data-Centric Organization
- **May** Master Data Management - Aligning Data, Process, and Governance
- **June** Where Data Models Fit in Today's Modern Data Architecture
- **July** Data Architecture vs. Enterprise Architecture
- **August** Data Quality Best Practices (with guest Nigel Turner)
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- **October** Best Practices in Metadata Management
- **December** The Business Value 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

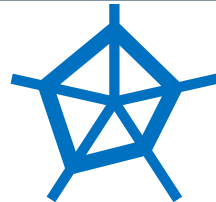
Business Goals & Strategy

- 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?



Current State Assessment

- How complex is the **current data landscape**?
- What **key technical issues** impacting the business?
- How **mature** is our data management practice?
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Proposed Future State

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



Implementation Roadmap

- **What do we do next?**
- How do **we plan for the long-term, via “quick wins”** along the way?
- How do we **change the culture** to support data?
- 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.



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Challenges and Opportunities Confront the Data-Driven Business

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



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?

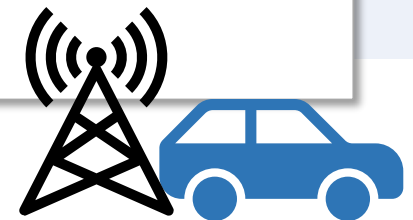


Business Transformation

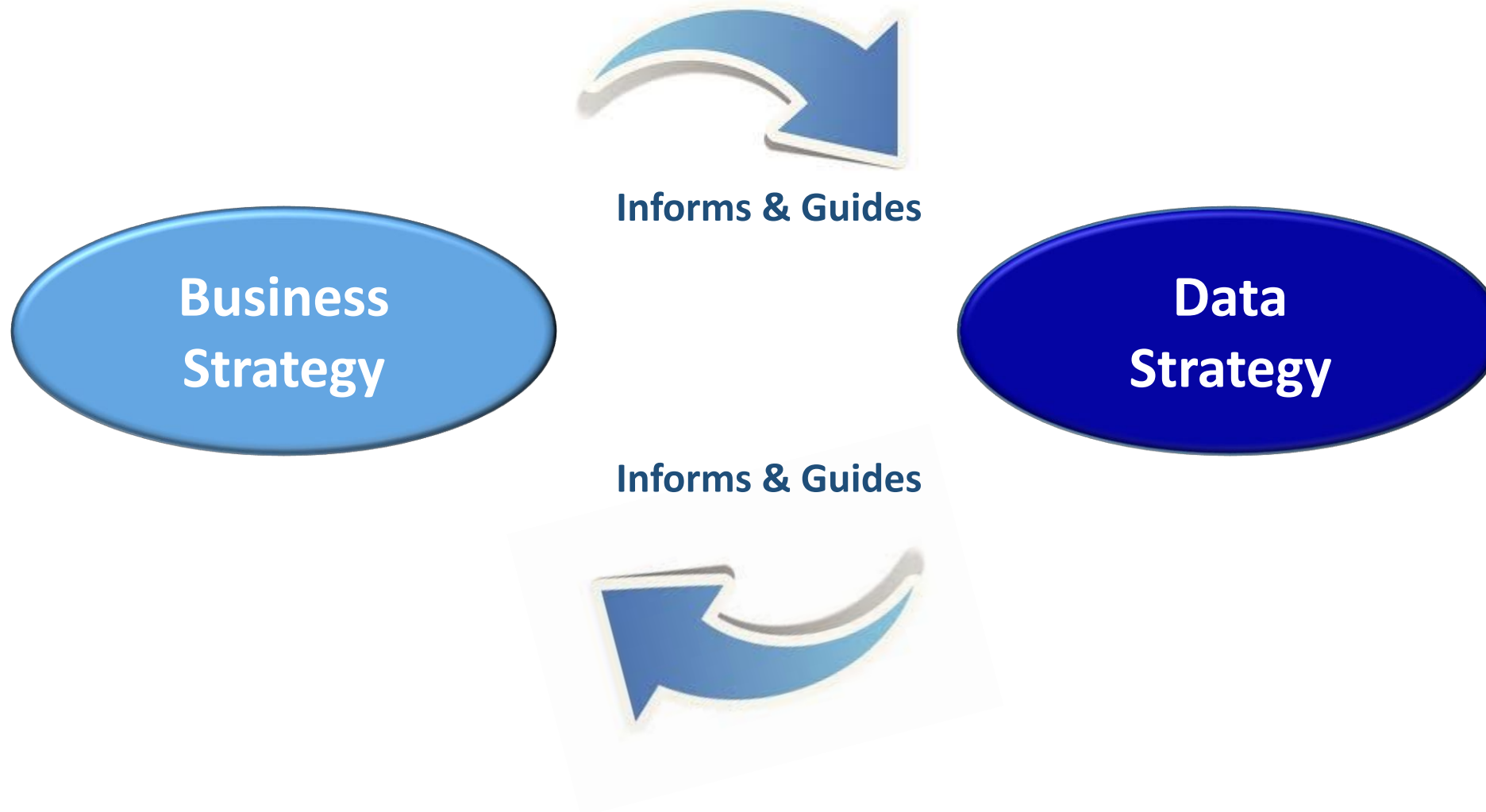
Becoming a Data Company

- 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?

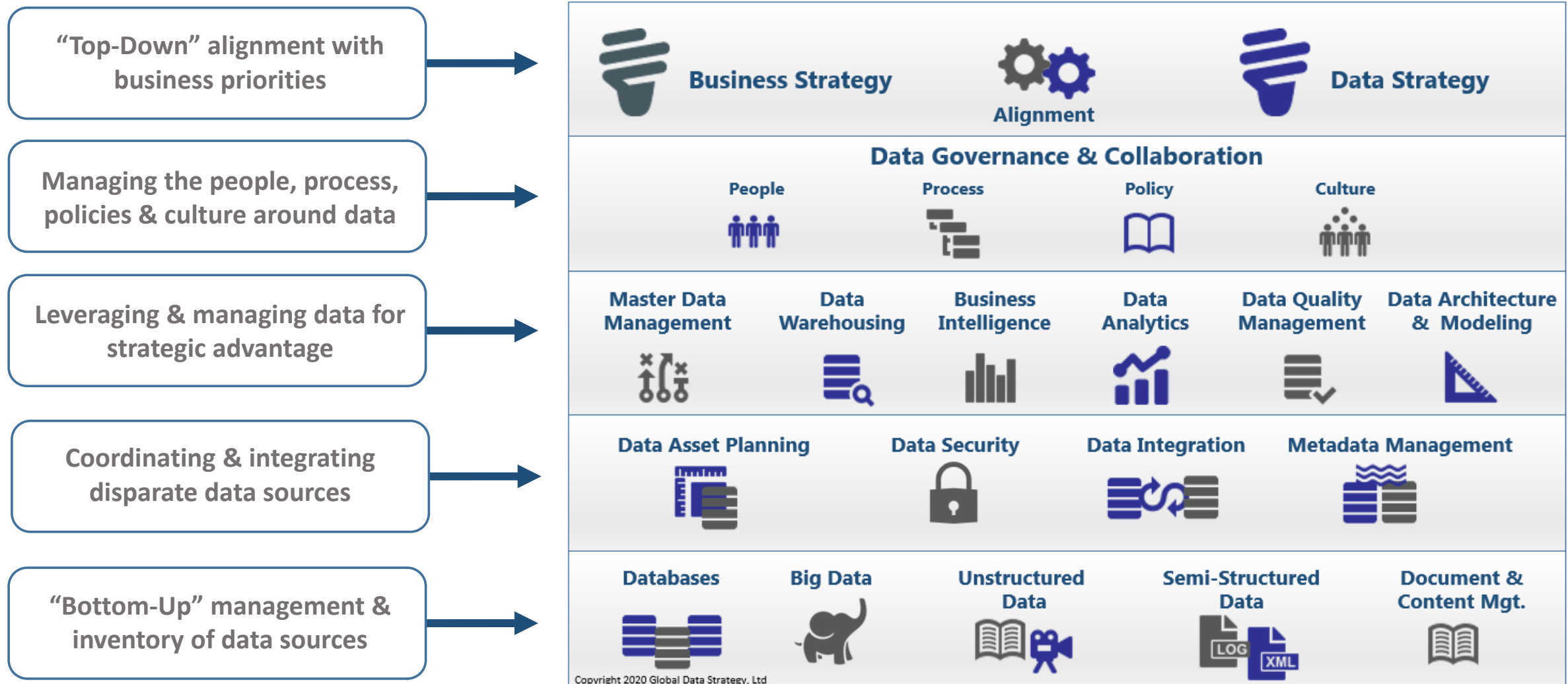


Business & Data Strategy – the Interdependency



Aligning Business and Data Strategy

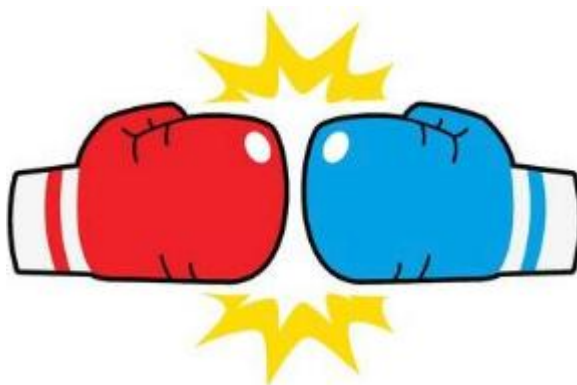
A Successful Data Strategy links Business Goals with Technology Solutions



“Offense” vs. “Defense”

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?



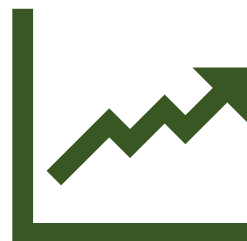
Making the Business Case

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



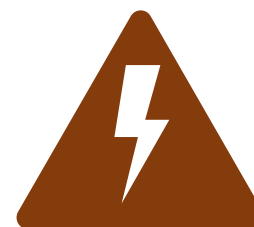
Decreasing Costs

- **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, 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'**

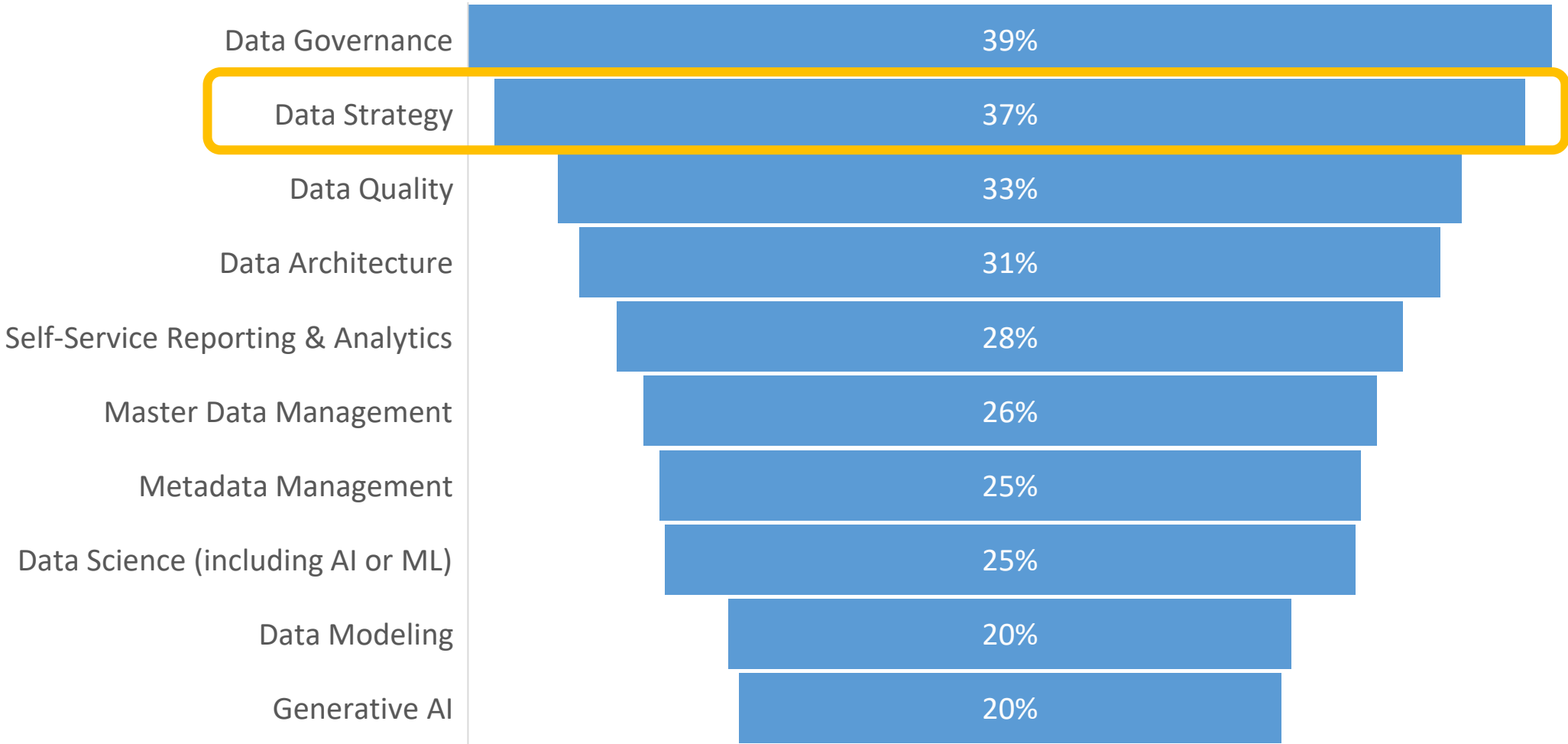
Include the Risk of Doing Nothing

- 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 is a Priority for Organizations

Which Initiatives Are You Looking to Implement in the Next 1-2 Years? - Top 10
(Select All That Apply)



Applying a Structured Data Governance Framework



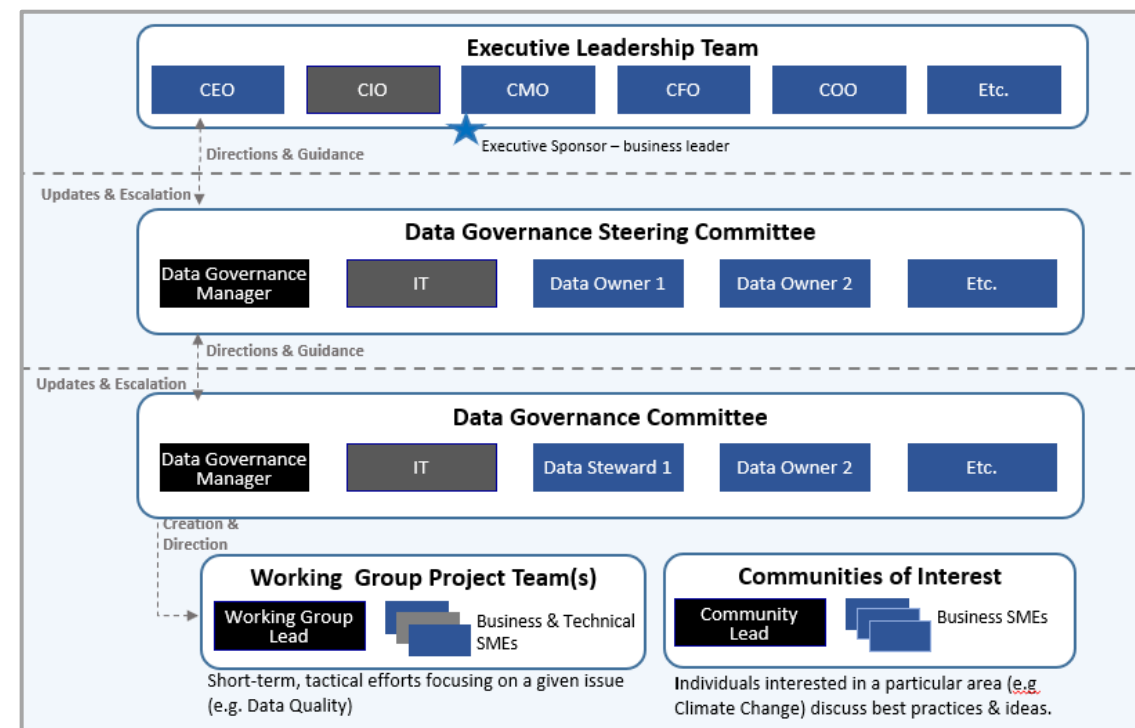
Mapping Organizational Capability for Data Governance

- 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

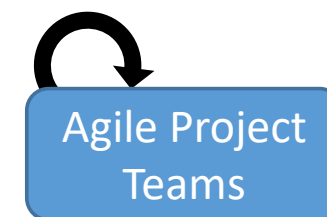
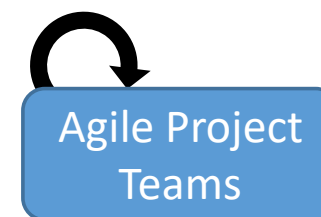
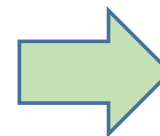
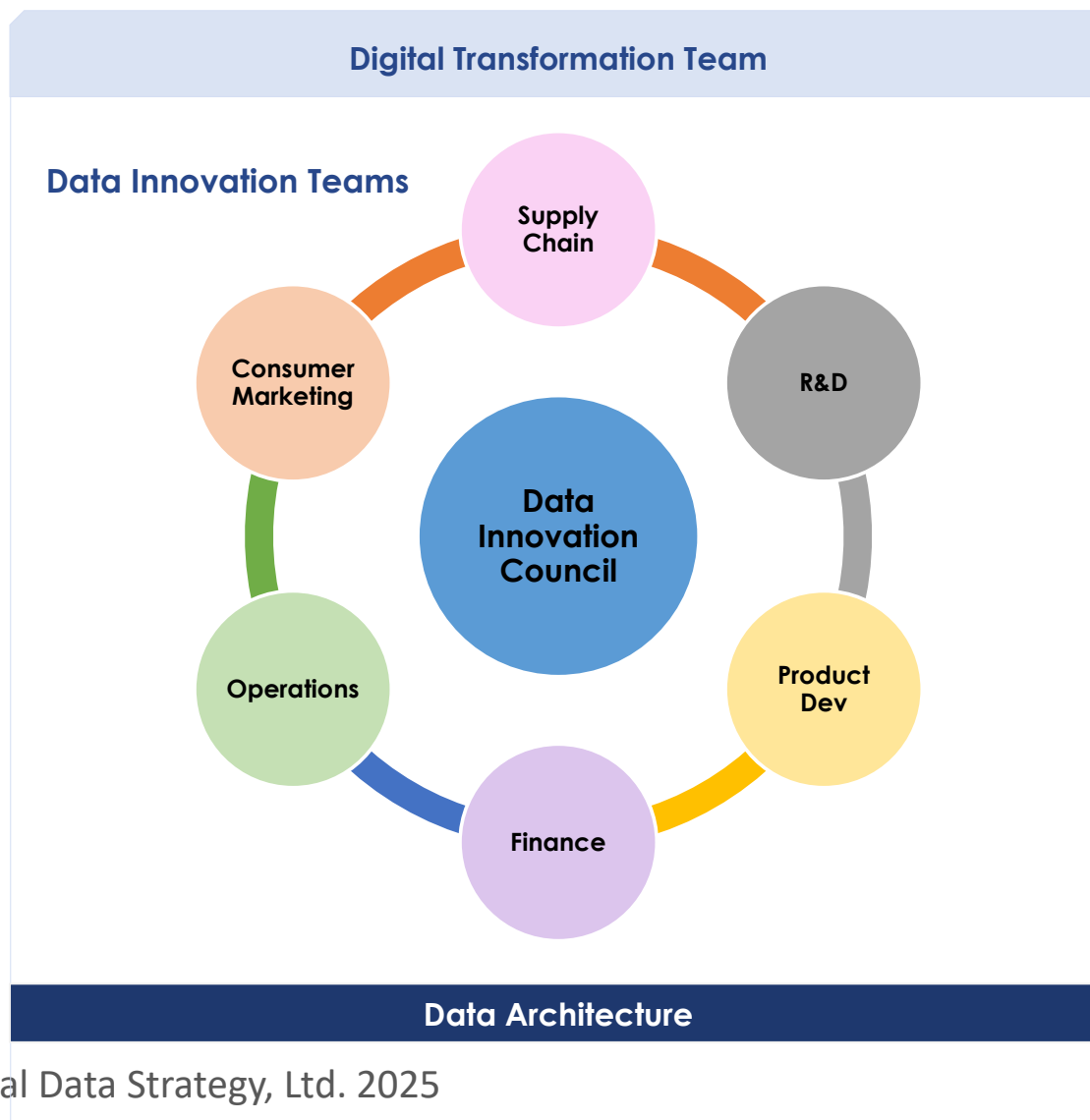


Designing Org Structures for Data-Centric Efforts e.g. Aligning Data Governance to Individual Culture



No “One Size Fits All” Data Governance Approach

Federated Approach with Agile Development Lifecycle



Designing the Right Architecture – Fit for Purpose Solutions

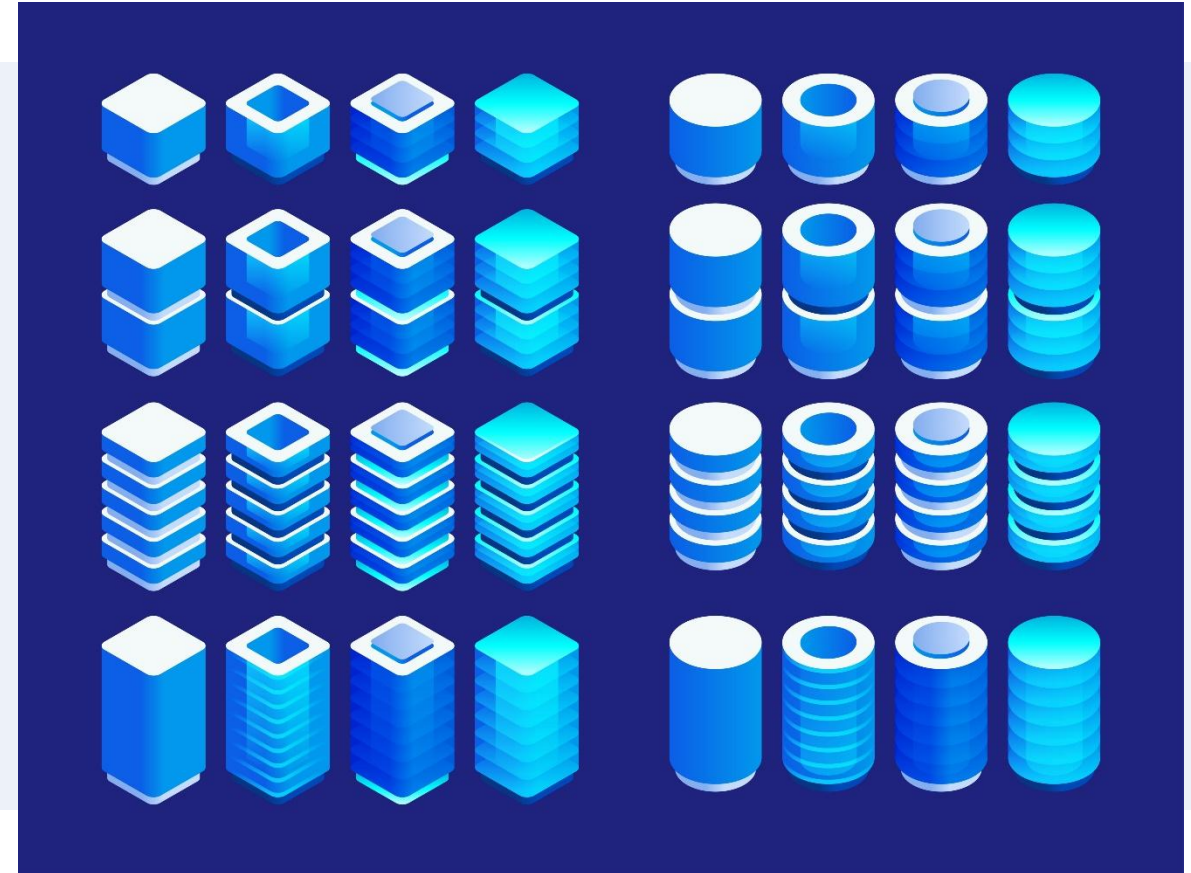
Data Technology & Platforms continue to evolve

There are a wide range of database technologies to choose from:

- Relational Databases (on-premises & Cloud)
- Graph databases
- NoSQL databases
- Big Data and more

According to a recent survey of global organizations¹:

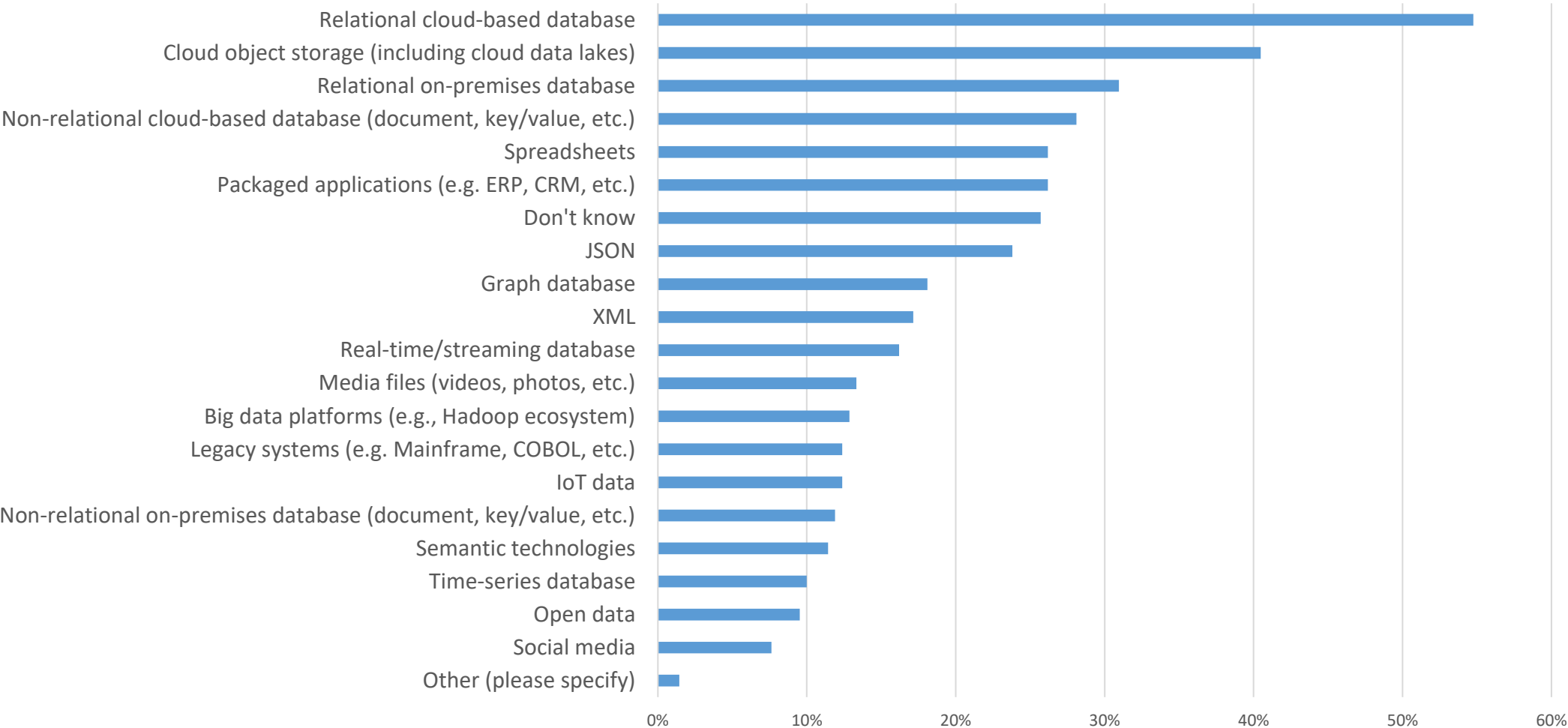
- **69%** are using relational databases on-premises
- **67%** are using cloud-based relational databases.
- **66%** are using spreadsheets as a data platform (!?)



While relational databases remain the leading platform, new technologies are being added to the mix.

Top Data Platforms Planned in Future (2025-2026)

Which of the following data platform/data storage technologies do you plan to use in the next 1-2 years? (select all that apply)



Enterprise Data Management

Part of a Data Strategy is Defining Fit for Purpose Solutions

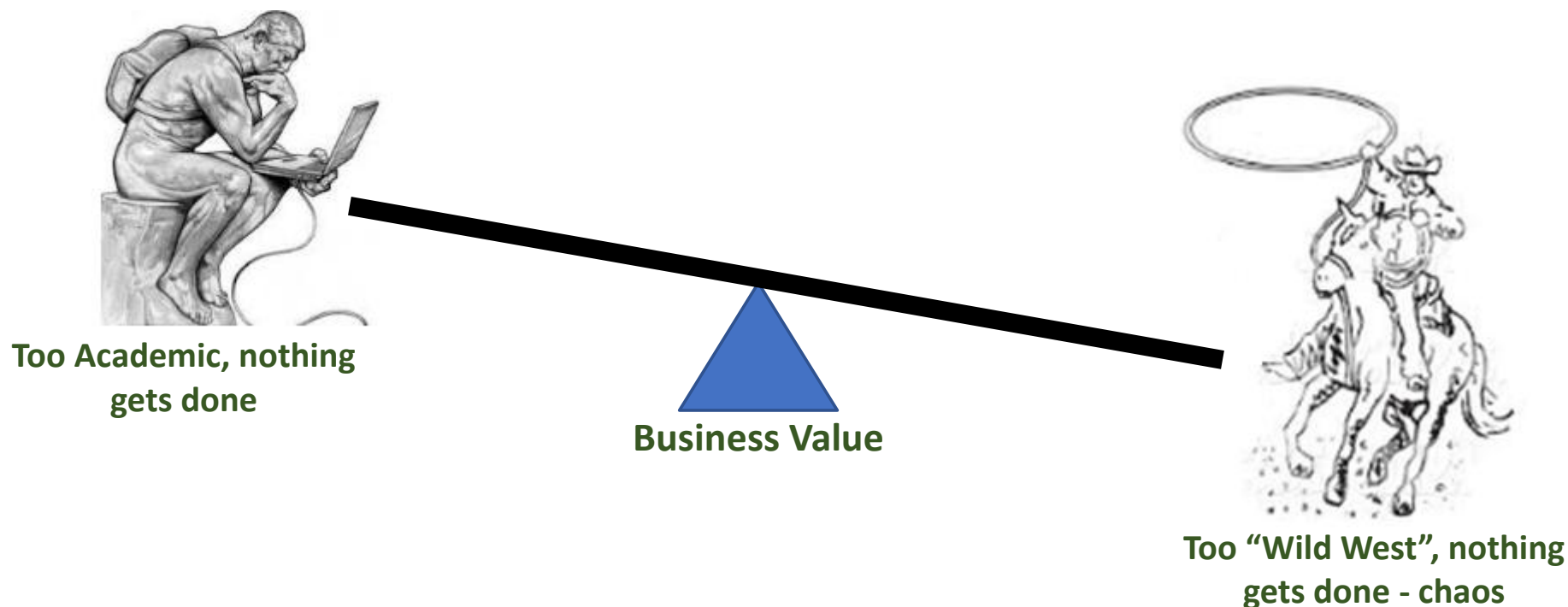


Operational Data	Reporting & Analytics	Master & Reference Data	Metadata
<div><div>CRM</div><div>Customer X orders Product Y at 2pm on Oct 24, 2017</div><div>Sales</div></div> <div><div>CRM</div><div>Customer X calls Support at 1pm on Nov 1, 2017</div><div>Customer Care</div></div> <div><div>ERP</div><div>Inventory consists of x number of Product X components on Oct 24, 2017</div><div>Supply Chain</div></div> <div><div>IoT</div><div>Customer turns on foot warmer at 11pm on Oct 30, 2017</div><div>Product Team</div></div> <div><div></div><div></div><div>Customer</div></div>	<div><div>Enterprise Historical Reporting</div><div><div>DW</div><div>What were total sales for Product X in 2016 by region?</div><div>ELT Managers</div></div></div> <div><div>Analytics & Discovery</div><div><div>Lake</div><div>What variables most influence customer repeat purchases?</div><div>Analytics Team</div></div></div> <div><div>Operational Reporting</div><div><div>CRM & other systems</div><div>How many support calls are currently open?</div><div>Managers</div></div></div> <div><div>Limited Personal Use</div><div><div>X</div><div>Limited ad hoc analysis for small data sets.</div><div>Access</div><div>Not recommended for enterprise data management.</div></div></div>	<div><div>"Golden Record" for Customer, Product, etc.</div><div><div>UCM</div><div>Mary Smith lives on 101 Main ST, Detroit, MI and has been a customer since 2011</div><div>Applications</div></div><div><div>UPM</div><div>Product 720 has a product code of SS720 & a suggested retail price of \$11,000 USD.</div><div>DW Etc</div></div><div><div>Reference Data</div><div><div></div><div>Valid Return Codes are "X, Y, & Z" State Codes include MA, MD MI ...</div><div>DW Etc</div></div><div><div>Hierarchies</div><div><div></div><div>The Sales management reporting hierarchy is structured as follows.</div><div>DW Etc</div></div></div></div></div>	<div><div>Business & Technical Context & Descriptions</div><div><div>Business Glossary</div><div>How is Total Sales calculated? What is a Qualified Lead?</div><div>Business Users</div></div><div><div>Data Models</div><div>How do we uniquely identify a customer? Can a customer have more than 1 email?</div><div>Business Users</div></div><div><div>Data Dictionary</div><div>What is this DW table used for? The standard length for customer ID is CHAR(12)</div><div>Developers</div></div><div><div>Data Lineage</div><div>How was this field calculated? What will break downstream if I make a change?</div><div>Developers</div></div></div>

Find a Balance in Implementing Data Management

Focus on Business Value

- Find the Right Balance
 - Data Management projects can have the reputation for being overly “academic”, long, expensive, etc.
 - No architecture at all can cause chaos.
 - When done correctly, Data Management helps improve efficiency and better align with business priorities



Building the Roadmap – Making Sense out of Chaos

Building Blocks to an Effective Roadmap

Why?

What are the key business drivers?
Think both “Offense” & “Defense”

Who?

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?

How?

How will you organize the Data Governance team(s)?
What Data Architecture will you put into place?

What?

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

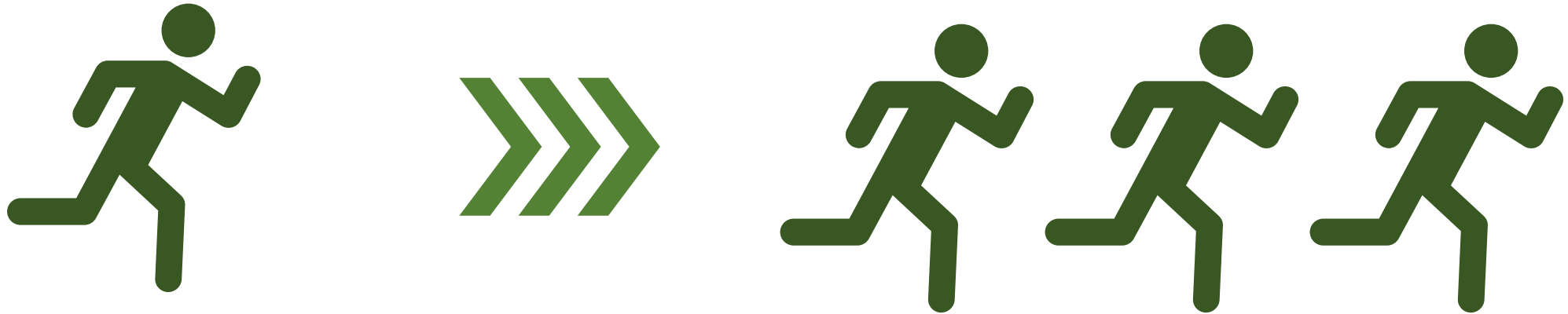
- Perform a realistic maturity assessment of the organization's data management capabilities:
 - Current state by discipline
 - Future Goals
 - Gaps that need to be filled



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

A Quick Win is well-planned first step to build a strong foundation for future efforts.



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?

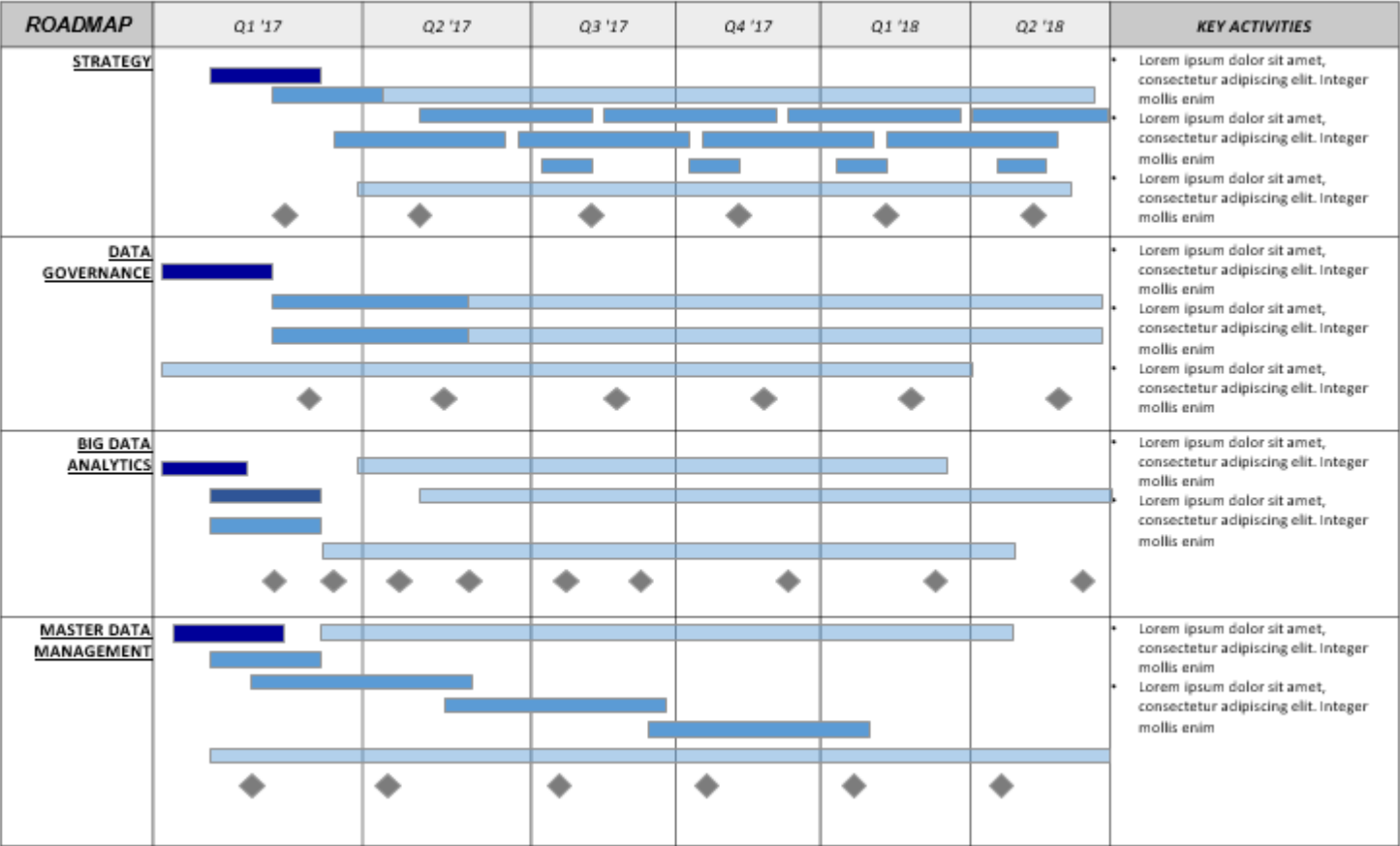


Implementation Roadmap

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



Job Profile

JOB TITLE

Direct Reports

Location

ORGANIZATION

Head of Data Governance

Note (Risk of mismanagement)

HP HQ Houston

Personnel

Job Purpose

This new role is being created to lead and deliver HP's commitment to improving the value and usability of its data assets.

HP is driving the improvement of its data through the development and implementation of a comprehensive Data Governance Framework (DGF). The DGF has five primary objectives:

To ensure that data strategies and improvements fully align with HP's current and future business drivers and goals

To ensure that all critical data and information is clearly owned by named individuals who have direct responsibility for improving its value

To drive up the quality of data to ensure it is fit for business purpose

To ensure data improvements deliver measurable business benefits by contributing to revenue improvement, supporting operational efficiency, and ensuring compliance with legal & regulatory requirements

To help develop a HP-wide culture where all people value data as an organizational asset and have the skills and expertise to contribute to its continuous improvement

Key Accountabilities

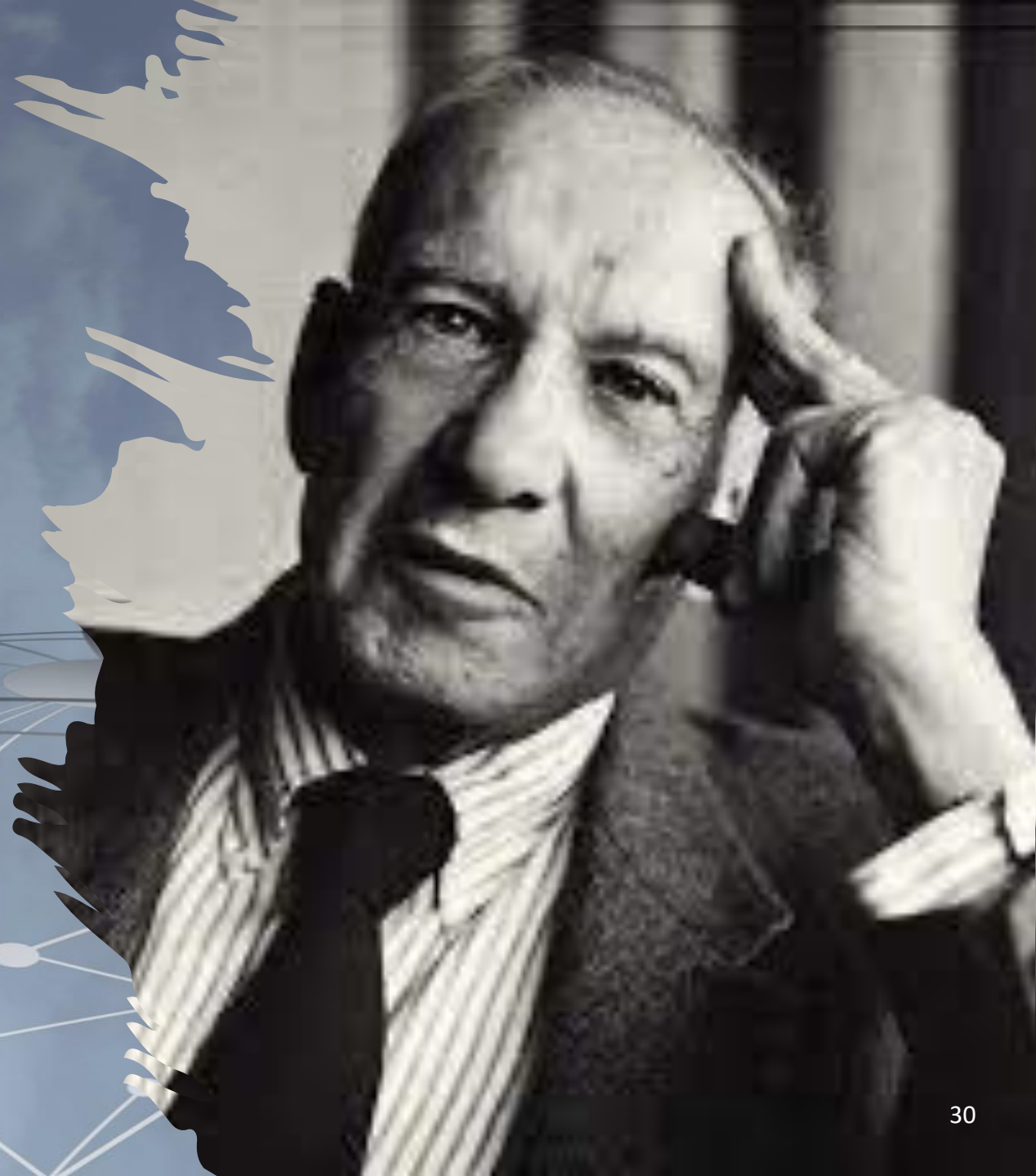
The Head of Data Governance's central purpose is to lead the delivery of these objectives.

1) Work across HP to champion the value of the DGF to all HP people from the HP Executive Team and throughout the entire organization

2) etc

**‘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>

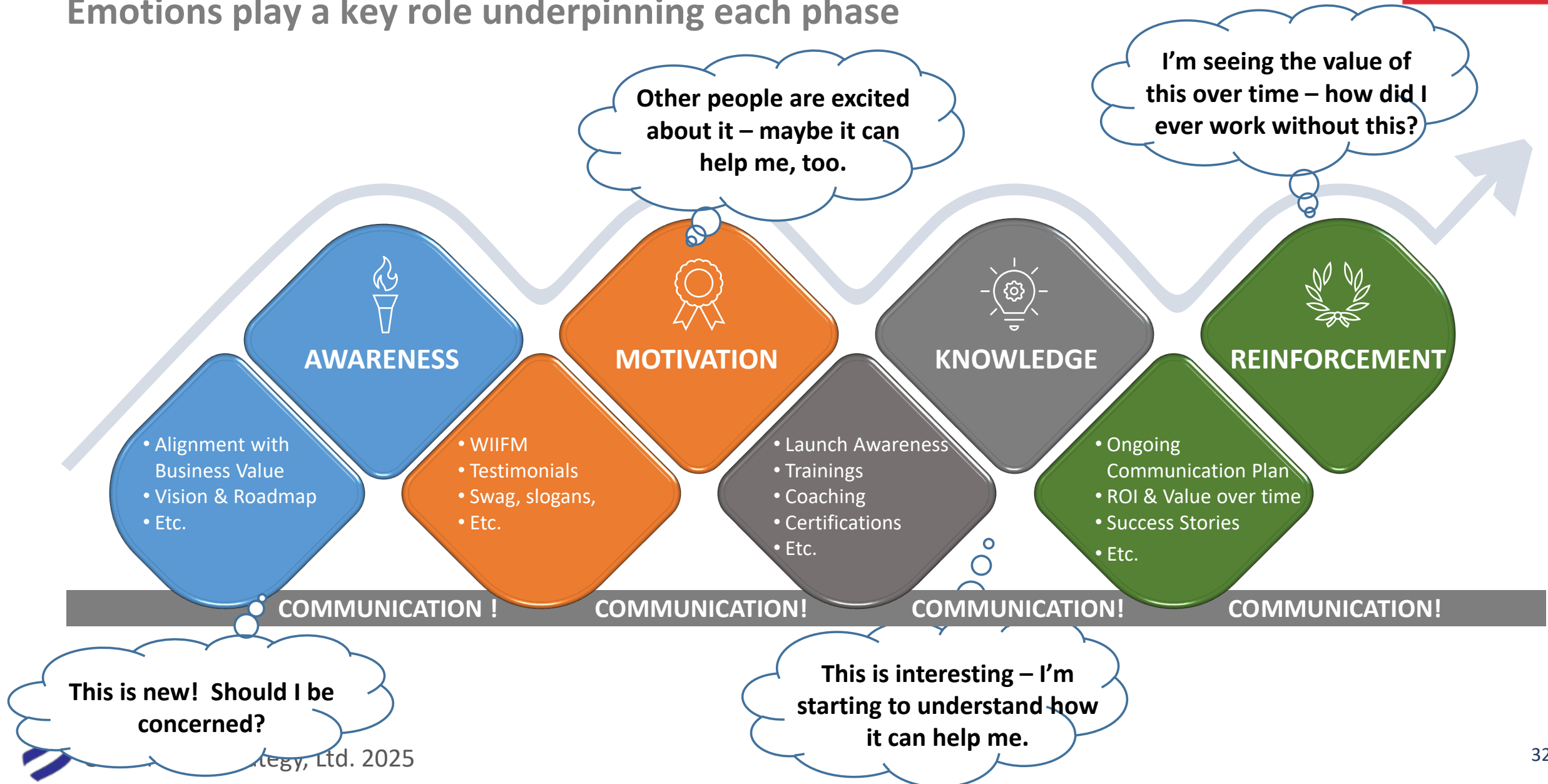


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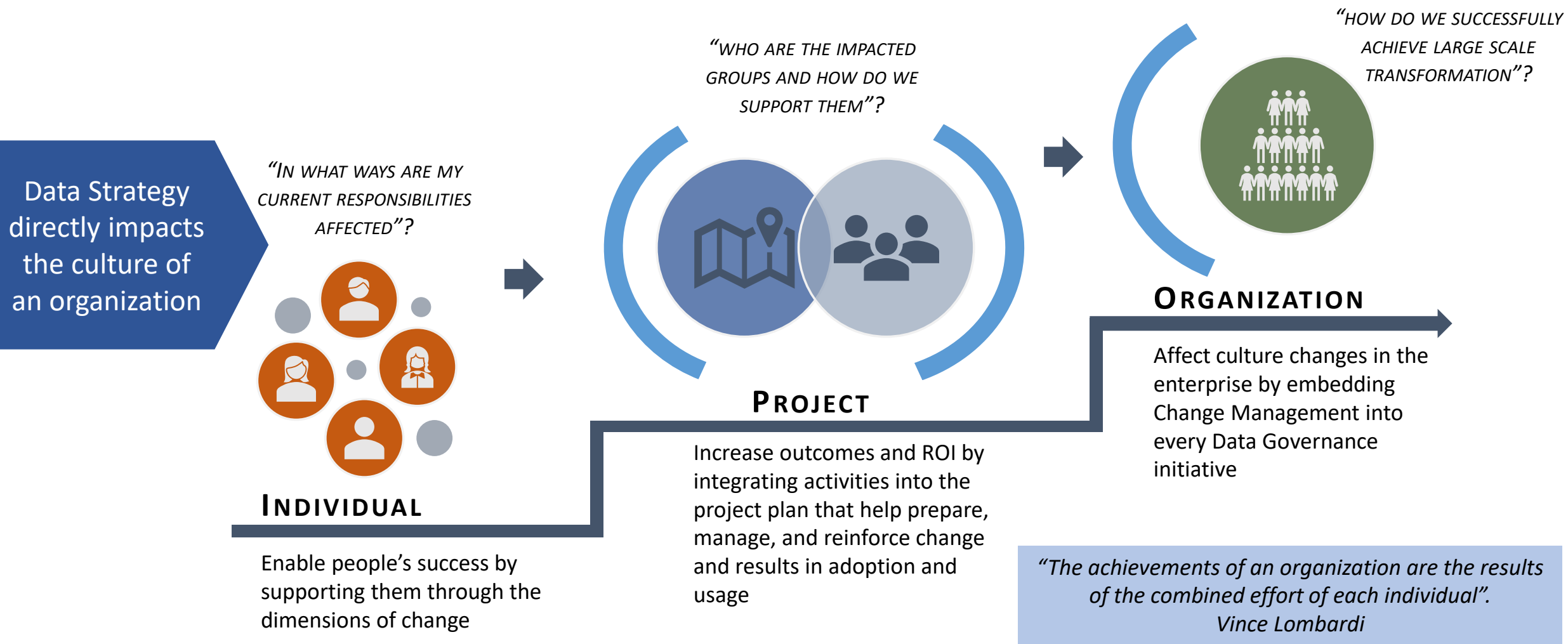
The Change Journey

Emotions play a key role underpinning each phase



Organizational Change Happens at Three Levels

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



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:
 - Video Testimonial from users/stakeholders
 - Executive sponsor video
 - Lunch and learn sessions
 - Roadshows
 - Training sessions
 - Newsletters
 - Website for data initiative
 - Data initiative slogan
 - "Swag" – t-shirts, stickers, mugs, etc.
 - Posters
 - Badges and awards



Avoid Data Jargon – use
Business Language!

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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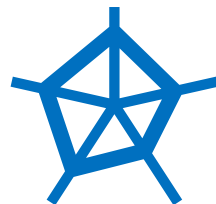
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Summary

- **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



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**.
- 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 shares experience from some of the largest international organizations scaled to the pace of your unique team.

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?