

"A Data Strategy For Becoming Data Driven"

Workshop



Van der Valk Hotel, Utrecht Thursday 12 October 2023

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Global Data Strategy





- Data Strategy: Definition & Rationale
- Data Strategy: Where to Begin?
- The Four Step Data Strategy Approach:
 - Step 1 Business Goals & Objectives Aligned to Data
 - Step 2 Current State Capability Assessment
 - Step 3 Proposed / Required Future State
 - Step 4 Developing the Data Strategy Roadmap
- Implementing the Roadmap: the Need for Data Governance
- The Critical Importance of Change Management
- Key Messages and Conclusions

Aim for an Interactive Session



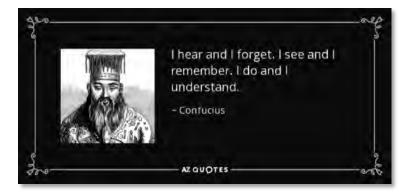








What we'll be doing...







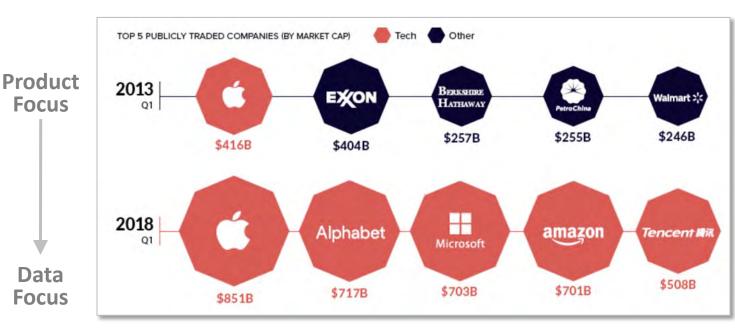
HANDS ON – A CHANCE TO PRACTISE



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"

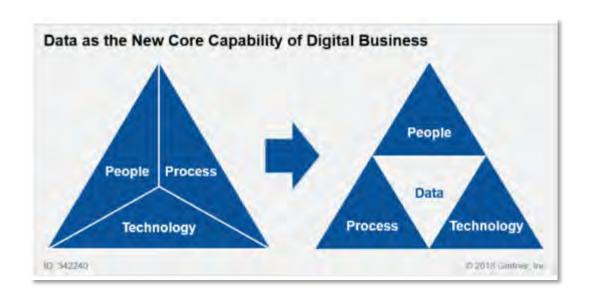


The World Economic Forum sees today's economy as driven by Data, not Goods & Services

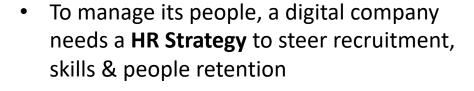


Gartner's View – the data driven, digital business

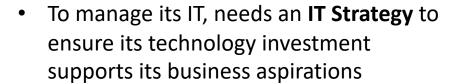














To manage its processes, needs a Process
 Strategy to drive the design, deployment
 & management of its automated and manual processes



 To manage its data, needs a Data Strategy to develop & improve its data assets to underpin its People, Process & Technology strategies



Business Optimisation vs. Business Transformation



Digital Transformation is transforming business

Business Optimisation

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

How do we do something different?



DISCUSSION

What problems or opportunities are changing or driving an increased focus on data in your organisation / industry?



Why the need for a Data Strategy?



"If you don't know where you are going, you'll end up someplace else."
YOGI BERRA,
US BASEBALL
PLAYER

"By failing to prepare, you are preparing to fail."

BENJAMIN FRANKLIN,

US FOUNDING FATHER



"Give me six hours to chop down a tree and I will spend the first four sharpening the axe"

ABRAHAM LINCOLN,

US PRESIDENT





"Strategy is a fancy word for coming up with a long term plan and putting it into action"

ELLIE PIDOT,

VP STRATEGY,

MEDTREONIC

Further good reasons for a Data Strategy - data volumes



2.5 QUINTILLIONGRAINS OF SAND
ON EARTH



7.5 QUINTILLIONBYTES OF NEW DATA
CREATED EVERY DAY



90% OF ALL DATA HAS BEEN CREATED IN THE LAST 2 YEARS

AVERAGE BUSINESS DATA VOLUMES DOUBLE EVERY **1.2 YEARS**





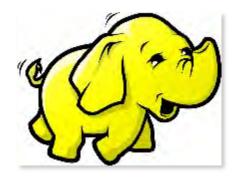
Further good reasons for a Data Strategy – complexity and divergence











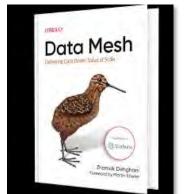






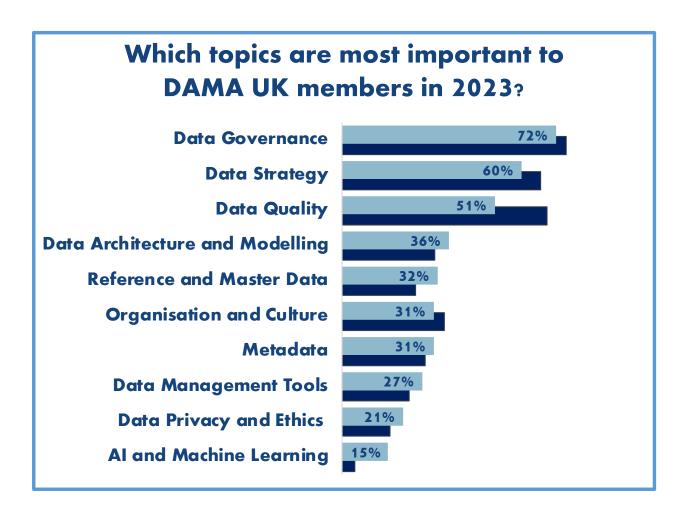








The Importance of Data Strategy in the UK: Recent DAMA UK Members' Survey





KEY: 2023 2022

Source:
DAMA UK Members Survey
June 2023



Overview of the Data Strategy Approach: Key Questions

ANALYSE CURRENT STATE

What are the organisation's current business goals and objectives?

What are the current data strengths and what weaknesses prevent or impede its ability to deliver its goals?

"The future starts today, not tomorrow"



Pope John Paul II

DESIGN FUTURE STATE

What does the business aspire to do in the future that it does not / cannot do today?

What new data capabilities would it need to support this?

Where to begin? Developing a Data Strategy





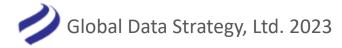


Basic definitions

Business & Data Strategies

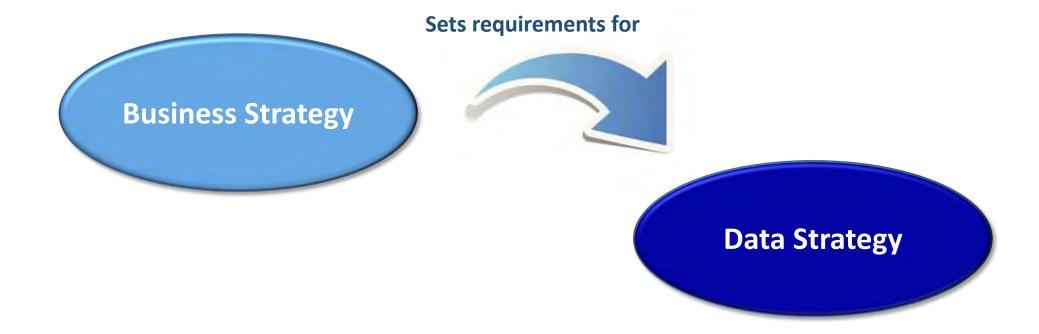
A BUSINESS STRATEGY is a medium to long term business plan which details the aims & objectives of a business and how it means to achieve them

A DATA STRATEGY is a medium to long term plan for the *improvement,* management & exploitation of data across a business, and how it is to be achieved



The traditional relationship between Business & Data Strategy

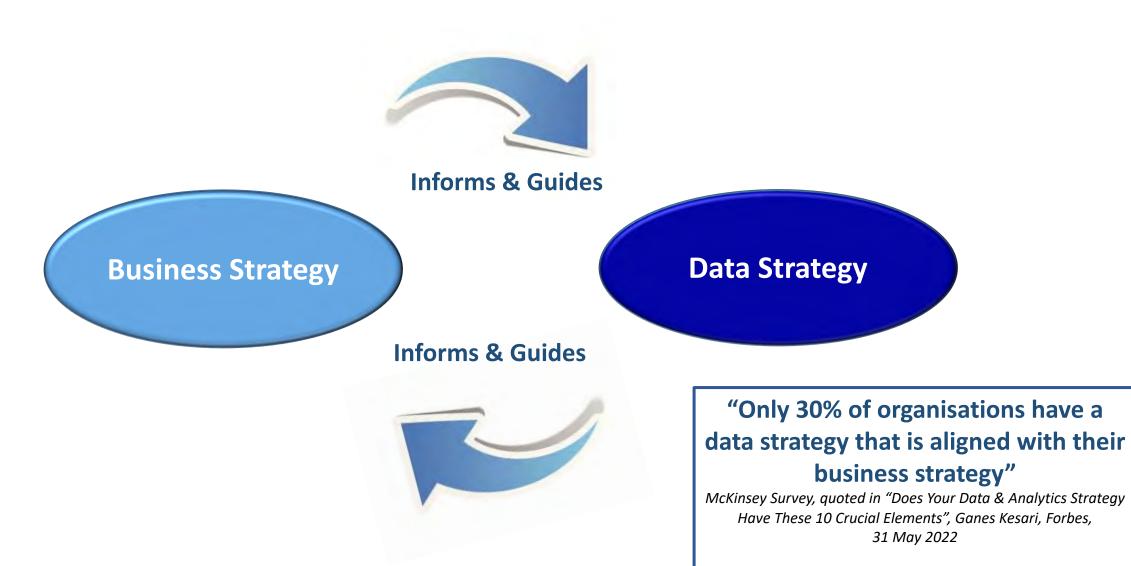






The digital, data driven enterprise – equal partners







The role of the data professional in the data driven business

- In the current environment of data driven business, data professionals have an opportunity to have a seat at the table:
 - Finding new opportunities to leverage data for business benefit
 - Creating efficiencies & business process optimisation
 - Integrating data from disparate sources for new business insights
 - Supporting organisational change



What a data strategy is NOT

... or 8 certain ways to make sure it fails



Encompass all corporate data & information



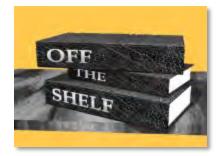
Owned and actioned by the IT Department



A technology shopping list



Led and developed exclusively by middle managers



A general strategy, reused from elsewhere



A set of noble principles & aspirations



Long term, with no immediate benefits



Set in stone and never changed

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What a data strategy IS

... or 8 certain ways to ensure it succeeds



Closely focused on the key data that the organisation depends on



Actively owned by senior business executives



Unique to the specific organisation



Holistic, encompassing People, Process & Technology



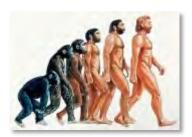
Developed & maintained collaboratively across business & IT



An action roadmap, with milestones & deliverables



Include 'quick wins' but keep sight of the longer term goals



Evolutionary & dynamic, adapting to the changing needs of the organisation



Where to begin? Developing a Data Strategy







Building a Data Strategy STEP 1

Identify Business Goals & Objectives Aligned to Data

Capturing business goals and drivers - research



- Look at company websites & documents (external and internal) to highlight:
 - Current Mission & Vision
 - Strategic business aims and goals
 - Current challenges external and internal
- Consider how these depend on data and its effective management
 - For example, a business goal to 'Increase our revenues from our top 10% revenue generating customers'
 - Data questions:
 - Can we identify our top 10% revenue generating customers?
 - What data issues may stop us doing that (data quality, data duplication, missing data etc.)
 - What are the implications if we can't?









Capturing & analysing data problems & opportunities

- Identify the primary data stakeholders (Include both Business & IT)
- Set up 1-1 interviews, group interviews or workshops to highlight:
 - How are you currently using or managing data in your role?
 - What's working well?
 - What needs to be improved and why?
 - What future data needs do you have and what opportunities can be taken with better (use of) data?
 - What are the current costs / lost opportunities of current data shortcomings? (Quantify in financial terms if possible)
 - What is your One Wish for data?
- It's important to speak to a wide range of roles across the organisation:
 - Senior Executives
 - Management roles (Business & IT)
 - Front line roles (Business & IT)





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Stakeholder Analysis

- Stakeholders are key to the success or failure of your data strategy. Like data assets, they should be analysed and managed.
 - They are the "Who" in the Zachman Framework
- A number of tools and techniques exist to help manage stakeholders
 - Stakeholder matrix: Listing of key stakeholders with their roles, contact information, location, etc.
 - Interest/Influence matrix: Rank stakeholders by level of interest vs. amount of influence they hold.
 - Interest matrix: Identify key interest areas and map their importance to each stakeholders or stakeholder group.
 - Interview schedule & key questions: Plan the interview schedule to respect stakeholders' time. Identify key questions ahead of the meeting.
 - **Preferred communication styles:** Identify the styles of communication preferred by stakeholders & their communication styles (email, face to face meeting, coffee, introvert/extrovert, etc.)
 - Communication Plan: Develop a phased communication plan including feedback, reporting, metrics, etc.



Example Stakeholder Matrix



Stakeholder Matrix												
Stakeholder Name / Group	Job Title/Role	Location	Involvement		nt	Role on Project	Influence Impacte		Phone	Email		
			R	R A C I		1		H/M/L	H/M/L			
EXECUTIVE REVIEW												
Mary Smith	CIO	Plano, TX	Х			X	Executive Sponsor	Н	Н	+1 (214) 555-1212	mary.smith@thisco.com	
Robert Quantiles	CFO	New York, NY		П	Х	X	Executive Chamption for Finance data	Н	Н	+1 (212) 555-1212	robert.quantiles@thisco.com	
STEERING GROUP												
Stuart Ling	Director of Enterprise Architecture	San Francisco, CA	Х	Х			Core working group	Н	Н	+1 (415) 555-1212	stuart.ling@thisco.com	
Ian Wordingham	Director of Data Strategy	London, UK	Х	Х			Core working group	Н	Н	+44 (020) 1234 1234	ian.wordingham@thisco.com	
Melissa Smith	Strategic Consultant	Edinburgh, UK			Х	X Core working group		Н	L	+44 131 123 1234	melissa.smith@thisco.com	
DATA ARCHITECTURE								M				
Eric Wong	Data Architect	Plano, TX					Recommendations & input on data architecture		Н	+1 (214) 555-1212	eric.wonq@thisco.com	
Wendy Collington	Data Architect	San Francisco, CA			Х	X	Recommendations & input on data architecture		Н	+1 (415) 555-1212	wendy.collington@thisco.com	
Myles Stuart	DBA	Plano, TX	_	X Historic		Х	Historical input on legacy systems	L	M	+1 (214) 555-1212	myles.stuart@thisco.com	
ETC - Other IT Groups listed				\square		\rightarrow						
ETC - Other IT Groups listed						\dashv						
FINANCE	•											
Lisa Winston	Director of Finance	New York, NY		X X Input into US finance needs for data		Н	Н	+1 (214) 555-1212	lisa.winston@thisco.com			
Timothy Preston	EMEA Finance Lead	London, ÚK		П	Х	X	Input into EMEA finance needs for data	Н	Н	+44 (020) 1234 1234	timothy.preston@thisco.com	
Juan Morales	Latin America Finance Lead	Santiago, CL			Х	Х	Input into LATAM finance needs for data	Н	Н	+56 2 12345678	juan.morales@thisco.com	
			\perp	Ш		\rightarrow						
ETC - Other Business Groups listed												

RACI *:

R: Responsible

A: Accountable

C: Consulted

I: Informed





Data Issues & Opportunities Log: Suggested Template from Interviews

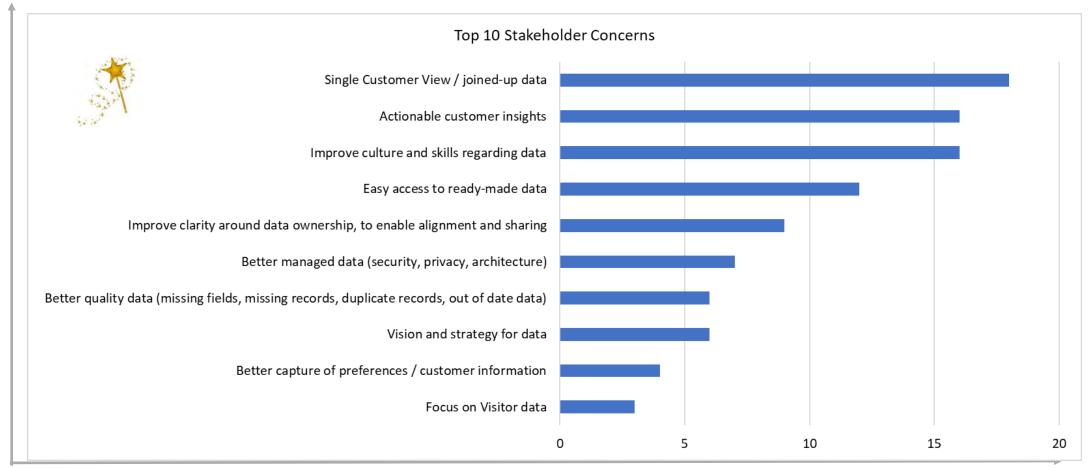
Unique ID	Interview No.	Short Name	Description	Impact of the Problem	Raised By
	1101				



Example: What is your One Wish related to data?



Top Themes: All Stakeholders



Number of Interviewees Raising Theme

AnyCo faces some challenges due to its operating model of multiple businesses, and this came through strongly in the themes such as "Single Customer View / joined-up data" and "Improve clarity around data ownership, to enable alignment and sharing"



Top 10 Themes

Issue Matrix



- An Issue Matrix lists:
 - Key Themes & Issues around data
 - Which teams are interested in each issue / theme
- Creates a "heat map" of priorities

Key Issues & Themes	Leadership	Sales	Finance	Marketing	Support	R&D	HR	Legal	Compliance
Improved Customer Information		Χ	Х	Х	Χ	Х	Х	Х	Х
No Cross-Domain Integration view (Sales, Marketing, Support, etc.)	X	Х	Х	Х	Х	Χ	Х	Х	Х
Inconsistent Definitions of Key Business Terms		X	Х	Х	Χ			Х	Х
Inconsistent Summarisation/Timing (e.g. Monthly view)		Χ	Х						
External data integration needed				Х	Χ				
Faster Time-to-Market for New Applications		Χ		Х		Х			
Lack of standards creating quality issues & rework					Х	Χ			
Siloes of information slow development across teams	Х	Х		Х	Х	Х	Х		
Increase Efficiency & Reduce Costs									
System Redundancy	Х	Χ	Х	Х	Χ	Х			
Staff spend extra hours looking for information	Х	Χ	Х	Х	Χ	Х	Х	Х	Х
Rework needed due to incorrect definitions			Х		Χ	Х			
Etc.									



Legal Rider

This case study is based upon a purely fictional hotel business

Any resemblances to real hotel chains are unintentional and purely coincidental



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Case Study: MAdept Events Global Destinations & Spas (GDS) Hotel Chain

- The Global Destinations & Spas (GDS) Hotel Group is a hotel, casino, spa and nightclub chain.
- The hotel has grown rapidly through aggressive acquisition and now has 30,500 employees.
- Although the GDS Group has remained profitable, increasing competition from other chains & new accommodation services (e.g. Airbnb), and the rapid rise of online gambling, have been gradually eroding its profit margins over the last five years.
- There is a low level of confidence in the accuracy of financial reports and the CFO is nervous about the financial and regulatory implications of this.
- A new CEO was appointed six months ago. Her brief is to increase the profitability of the Group and assure its future.

ACTIVITY: Read the case study and then consider who would be the key stakeholders

Activity – Stakeholders

Who are the Key Stakeholders for the Hotel Chain?

For the key business initiatives you identified, who are the key stakeholders you need to speak with?

Include at least:

- 1 or more high-level managers or executives
- 1 or more operational staff members from "the field"
- 1 or more potential external stakeholders



	Key Stakeholders by Role/Title
1.	
2.	
3.	
4.	
5.	
6.	
7.	
8.	
9.	
10.	

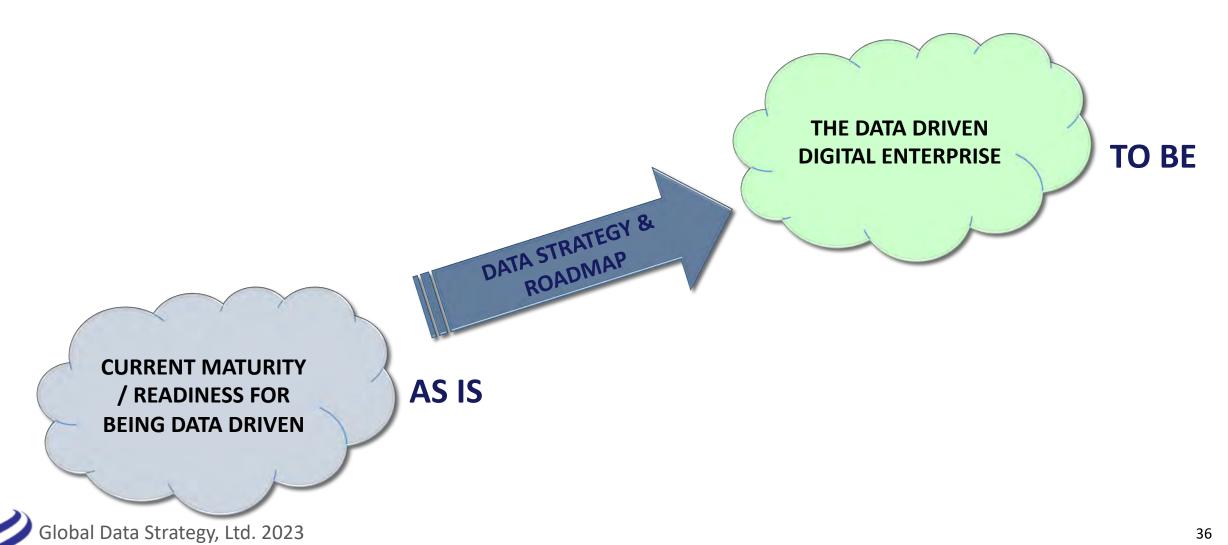


Building a Data Strategy STEP 2

Understand Current Data Maturity & Environment

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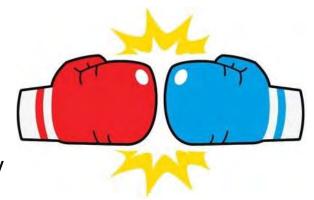
Maturity baseline – plotting your data strategy



Discussion: "Offence" vs. "Defence"

Which style of data management fits your organisation?

Offence



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

Defence

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

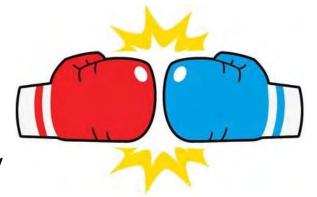
Discussion: On which end of the spectrum is your organisation?



Discussion: "Offence" vs. "Defence"

Which style of data management would fit the Hotel Group?

Offence



- Focused on Creating Opportunity
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Defence

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

Discussion: On which end of the spectrum is the Hotel Group?



Motivation Model: What is it?



Artful Art Supplies



Corporate Mission

To provide a full service online retail experience To be the respected source of art products worldwide, for art supplies and craft products.

creating an online community of art enthusiasts.

External Drivers

Digital Self-Service

Increasing Regulation Pressures

Online Community & Social Media

Customer Demand for Instant Provision

Internal Drivers

Targeted Marketing 360 View of

Customer Cost Minimisation

Brand Reputation | Community Building

Revenue Growth

 One page diagram, used to clarify and communicate the rationale for, and the main priorities of a Data Strategy

Top half highlights the business need for better data and new data

Goals & Objectives



Accountability

- Create a Data Governance Framework
- Define clear roles & responsibilities for both business & IT staff
- Publish a corporate information policy
- Document data standards
- Train all staff in data accountability



Quality

- Define measures & KPIs for key data items
- Report & monitor on data quality improvements
- Develop repeatable processes for data quality improvement
- Implement data quality checks as BAU business activities



Culture

- Ensure that all roles understand their contribution to data quality
- Promote business benefits of better data quality
- Engage in innovative ways to leverage data for strategic advantage
- Create data-centric communities of interest

Bottom half summarises the primary focus, goals and objectives of the Data Strategy

- Consider how the Drivers depend on data and effective data management and highlight current weaknesses raised in interviews etc.
- Motivation Model overall can be the basis of a 2 minute 'elevator pitch' – see later



Motivation Model: How to Develop It



Artful Art Supplies



Corporate Mission

Corporate Vision

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Targeted Marketing

360 View of Customer

Cost Minimisation

Community Building **Brand Reputation**

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- Create data-centric communities of interest

Mission & Vision can be identified from business strategies, annual reports etc.

Internal & External Drivers are the forces which are driving the need for change, including better data management. Can be derived from stakeholder interviews and documents e.g. Annual Report

External Drivers are the forces which are in the environment of the organisation and so cannot be directly controlled

Internal Drivers are the forces which are within the control of the organisation and reflect business challenges & initiatives

Top half of model (Business needs) can be completed after the end of the Vision stage of the framework

Bottom half of the model (Data Strategy goals) can be completed after Current & Future State analysis is complete (see later)



Real (Anonymised) Motivation Model



ACME MISSION

To champion better work and working lives by improving practices in people and organisation development, for the benefit of individuals, businesses and society

ACME VISION

To define and represent the international benchmark for excellence in people and organisation management and development

External Drivers

Hub for Professional
Connections

Customer & F

Digitisation of Products & Services

Relevant & Timely Communication

Create a Collaborative Ecosystem

Regulatory & Legal Compliance

Brand & Reputation

Competitive Landscape

Internal Drivers

Coherent Customer View: Individual & B2B

Faster Time to Market

Enhance Customer Insight

Exploit Intellectual
Property

Increase Customer Satisfaction / NPS

Increase Surplus

Create & Leverage Partnerships

Efficiency & Cost Minimisation



Strategy

- Develop a Data Strategy aligned with Business Strategy
- Identify high priority data issues and problems
- Review and join up ongoing data improvement initiatives
- Ensure focus & resources align with business priorities
- Make the case for investment in data and supporting IT



Accountability

- Define clear roles & responsibilities for both business & IT staff
- Set up cross-business governance to lead and implement change
- Make data fit for purpose through better data quality
- Manage master data to enable a coherent customer view



Architecture

- Develop an Architecture for the business of today and tomorrow
- Define & document supporting data models
- Develop and implement an IT Strategy to support the Data Strategy
- Manage architecture as a key business / IT function



Innovation

- Gain greater insight on the ACME market & ecosystem
- Better use and exploit data to gain new insights through BI & analytics
- Use data to drive & develop new products & services
- Share data with partners and others to enhance knowledge



Culture

- Communicate the goals and achievements of the Data Strategy to all
- Enhance digital skills of staff by organic development and recruitment
- Train all staff in data management best practices
- Encourage active participation in data improvement





Business Motivation for Global Destinations & Spas

- Revisit the Hotel Case Study:
- What is the Group's stated Mission & Vision?
- 2. What are the top Internal & External Drivers? (Try to find at least 5 of each)

See next slides for templates (see also workbook)

Activity – Business Motivation & Drivers

HOTEL GROUP MISSION:

HOTEL GROUP VISION:

EXTERNAL DRIVERS

1. _____

INTERNAL DRIVERS

1.						
	 	 	 	 	 	_

4.

5.

Data Management is an Evolution



Business Value

Tactical Management

- Little or no Formal Governance
- Manual efforts in place
- Reactionary approach to data issues

Project-Level Management

- Project-level Governance Leads
- Architecture developed for specific projects & tools

Enterprise Management

- Single Enterprise Lead
- Business-driven priorities
- Aligned Architecture

Strategic Management

- · Chief Data Officer
- Dedicated data organisation or committee

Transformational Management

- Data tightly integrated with business operations
- Business strategy aligned with data strategy

Tactical Approach

Project-level

Enterprise

Strategic

Transformational

ractical Approach

Maturity

Level 1: Performed

Data is not seen as a strategic asset. Created for tactical documentation needs only

Level 2: Managed

Data is seen as a requirement for the implementation of individual projects **Level 3: Defined**

Data is seen as an enterprise asset that can be reused across the organisation

Level 4: Measured

Data is seen as critical to business performance and as an asset that helps create and grow business value **Level 5: Optimised**

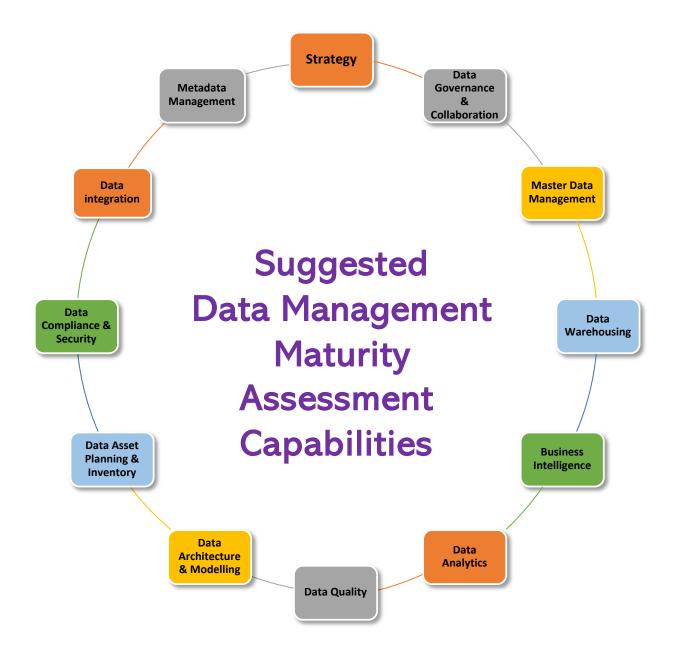
Data is seen as mission-critical for business performance, and a source for competitive advantage in a dynamic and competitive marketplace 44

Global Data Strategy, Ltd. 2023

^{*} From Global Data Strategy's Maturity Assessment Methodology, adapted from CMMI, DMBOK, and industry experience with Global Fortune 100 Companies

Performing a Current & Future State Assessment

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Performing a Current & Future State Assessment: Capabilities



DATA MANAGEMENT CAPABILITY	EXAMPLE TOPICS ANALYSED					
Data Strategy	Alignment of data to business strategy; budgets & resources; communication					
Data Governance	Accountability; stewardship; data issue management; critical data identification					
Master Data Management	Master & reference data storage & processing; matching rules; hierarchies; CDEs					
Data Warehousing	DW capability; performance & scalability; documentation; design methodologies					
Business Intelligence	Provision of user reports; tooling; self-service; semantic layer; visualisation					
Data Analytics	Operational v predictive; use of data science, AI/ML; social media; geographic data					
Data Quality	Measurement & KPIs; root cause analysis; tooling; enrichment; data entry validation					
Data Architecture & Modelling	Models; data standards; process / data mapping; system architecture; documentation					
Data Asset Planning & Inventory	Location & documentation of data assets; data lifecycle management; data retention					
Data Compliance & Security	Legal & regulatory compliance processes; privacy tagging; access & security controls					
Data Integration	Batch v real time capability; APIs ; common business logic; platforms & tools					
Metadata Management	Business data glossary, dictionaries & catalogs; data lineage; maintenance processes					



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Data Management Maturity Assessment

Defining "As Is" and "To Be" maturity levels

Detailed Questionnaire for Each Capability Area

"Heat Map" of Problem Areas

	Current State	Future State
Strategy	2.8	4.3
We have a Data Strategy for maximizing the use of data within our organization	3	5
Our Data Strategy is aligned to our Business Strategy.	3	5
We have executive and/or senior-level business support and sponsorship for our strategy	2	4
We have published a plan to achieve our Data Strategy that includes organization support, process, and IT.	4	4
We have organizations and budgets in place to support our Data Strategy and Plan.	3	4
Our Data Strategy is published and well understood across lines of business and technology groups.	2	4
Data Governance	3.0	5.0
We have a standard, auditable process for resolving data governance issues, such as change management, priority management, conflict resolution, etc.	3	5
We have data stewards who manage key data used across functional groups. They have clearly defined and well understood roles and responsibilities.	4	5
We have identified business-critical data elements and define & store them in a commonly-accessible format.	4	5
All of our people understand the importance of data to the organization and their personal responsibilities for managing it.	3	5
We have a data communications strategy to ensure data policies and standards are reinforced across our organization.	3	5
Data related objectives and responsibilities are formally included in job descriptions and/or personal objectives.	1	5
Our data governance process has a senior business and IT sponsorship and stakeholder buy-in across the functional leaders.	3	5
Master Data Management	4	5
Etccontinue for each capability area	1	4

Summary of Strengths, Weakness & Target Maturity



Visualising Current vs. Target Maturity

Determine Relative Strengths

- It's important to take a realistic look at your organisation's current state maturity
 - Where you are
 - Where you want to be



STEP 2 into STEP 3: Maturity Assessment –

Key Recommendations

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In general, there is an overall lack of data labelling and documentation. A POC with Data Catalog is underway within the Azure environment around the claims data assets but is still in the early stages of discovery.

XXX has invested the capabilities in the MS Azure stack to start addressing system performance issues. However, current platforms and applications remain siloed, with limited ability to integrate data from these sources.

An external audit of XXX's Information Security policies and practices has produced a 2021 Information Security roadmap, which is being executed to improve capabilities around internal/external technology assets and data access

Data assets cataloguing and classification exists at XXX, within the scope of meeting data protection and regulatory compliance around personal data. Performing a more comprehensive inventory of XXX's assets and definition of key domains and their lifecycles needs to be prioritised as critical activity for XXX.

There is a lack of any overall Data Architecture, with primary and secondary data sources not clearly identified and documented. Conceptual data models exists on a limited set processes, making it difficult for XXX to identify its key data objects and attributes and where these are physically held and mastered.

Although XXX is currently engaged in efforts to modernise its external database platforms, a more comprehensive data strategy needs to be developed to align data mgmt capabilities for both internal and external applications. Sponsorship for the data strategy should be actively championed and visible at the highest level of senior leadership.

1. Strategy

12. Metadata Management

8. Data Architecture &

Modeling

11. Data Integration

10. Data Compliance &

Security

9. Data Asset Planning &

Inventory

2. Data Governance &

6. Data Analytics

Collaboration

3. Master Data Management

4. Data Warehousing

5. Business Intelligence

A formal Data Governance organisation has not yet been established. While the Data Solutions team and Data Governance Officer in particular have been critical in developing the initial framework of policies to date, the programme is challenged by lack of business involvement. The next step for XXX is to focus on building out and operationalising DG practices.

Master Data is not formally managed at XXX and key data domains (e.g. customer, product, employee) should be identified as a future priority. At present, master data is duplicated in inconsistent ways across several data sources. This causes inefficiencies and the need for significant manual matching of data.

XXX has migrated the existing DW repository to an Azure environment which includes a suite of products that support increased capacity for storage, data transformation, and reporting. Subsequent focus in this space should be on integrating and conforming data in an optimised data warehouse design.

PowerBI is currently being used as XXX's enterprise reporting tool and is increasingly replacing MS Excel reports. Future outputs in this area should also ensure enterprise-wide metrics and data sourcing consistency

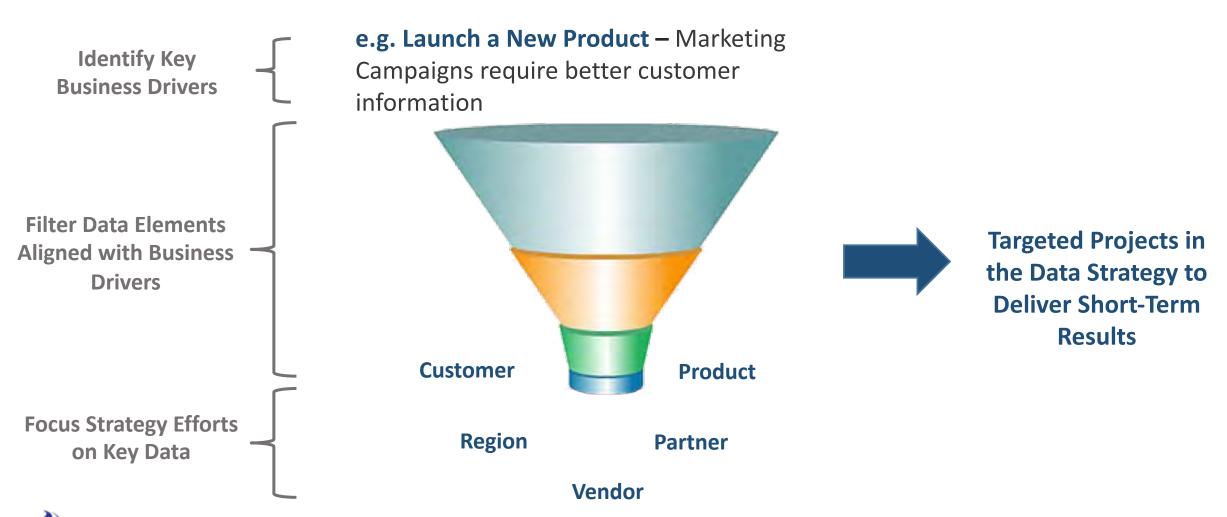
Data Quality practices have largely been done in an ad hoc, reactive & manually intensive way. XXX has recently acquired a data profiling tool and this can accelerate development of formal business rules and target KPIs / quality thresholds with wider business engagement.

7. Data Quality

XXX has access to an extensive amount of data held in its externally hosted databases around managed services which is only likely to increase with shifts in both technological and legislative advances within the industry. The organisation needs to be positioned with regards to its analytical and real time capabilities once a solid foundation in supporting data mgmt domains has been established.

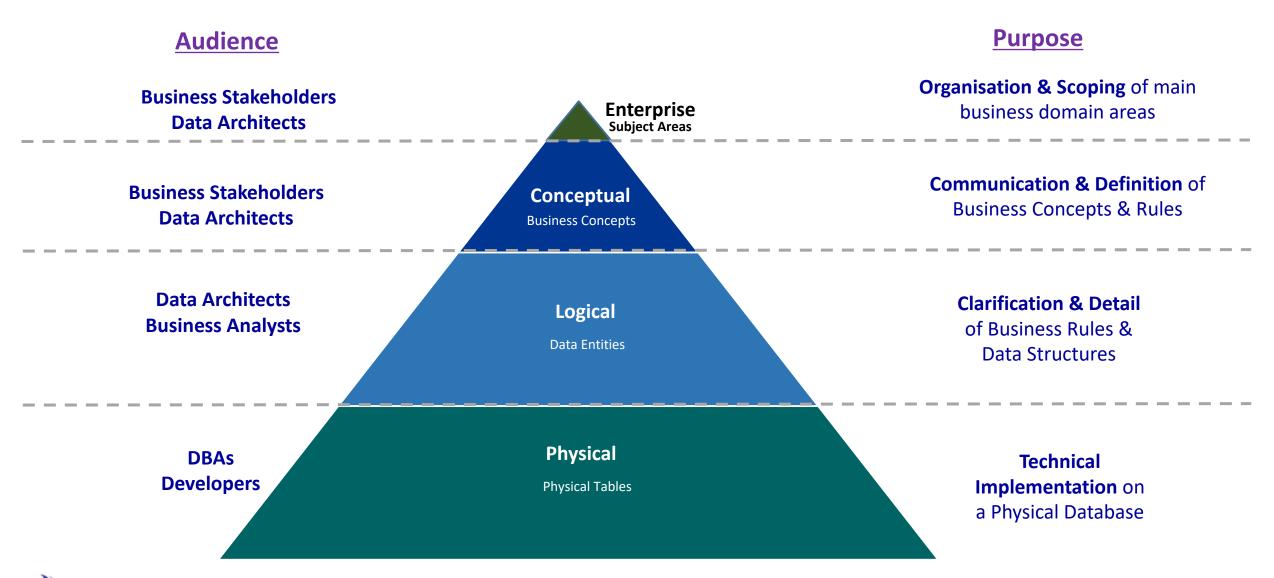
Critical Data Element (CDE) Identification – One Way

High priority data items and attributes



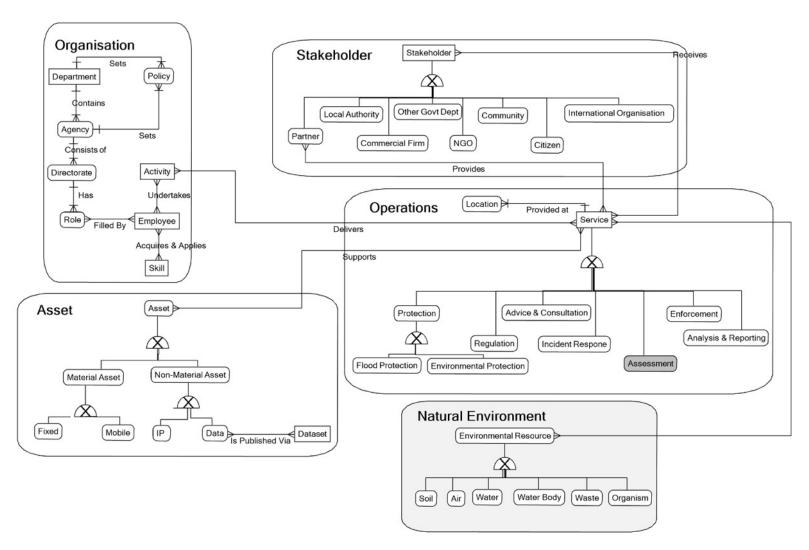
CDE Identification – Another Way







Actual Business / Conceptual Data Model





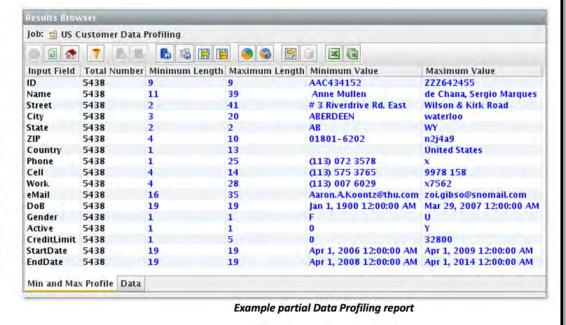
Baseline Key Data Sources

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- Data quality will arise as a key problem in Step 1 – guaranteed!
- To quantify the scope and scale of data quality problems consider data profiling key data sources
- This will:
 - Provide real, concrete evidence for existing data problems
 - Help identify and quantify the state of critical data elements (CDEs)
 - Help to build the business case for action

DATA PROFILING TOOLS

- Data profiling tools automate the process of assessing and reporting on the quality of data sources
- The benefits of data profiling include:
- Fast processing of large data sets
- Complete analysis of an entire data set, so identifies all outliers
- Some profilers enable drill down to individual records / rows
- Automatic generation of metadata
- Checks conformance of the dataset with business rules (pre-built or added)
- Enables fact based discussion of the causes and impacts of data problems
- Excellent starting point in data quality workshops





Key Data Identification: Create a Business Glossary

The importance of definitions

- Definitions are as important as the data elements themselves
- Many data-related problems and issues are caused by unclear or ill-defined terms

What do you mean by "customer"?

How are we defining a "household"?

We're calculating "total sales" differently in each region!

What's the difference between an "ingredient" and a "raw material"?

Sales is using a different "monthly calendar" than Finance.

What's a "PEG ratio"?

"API" as in "Application Programming Interface?" or "American Petroleum Institute"?

What's an "equity derivative"?



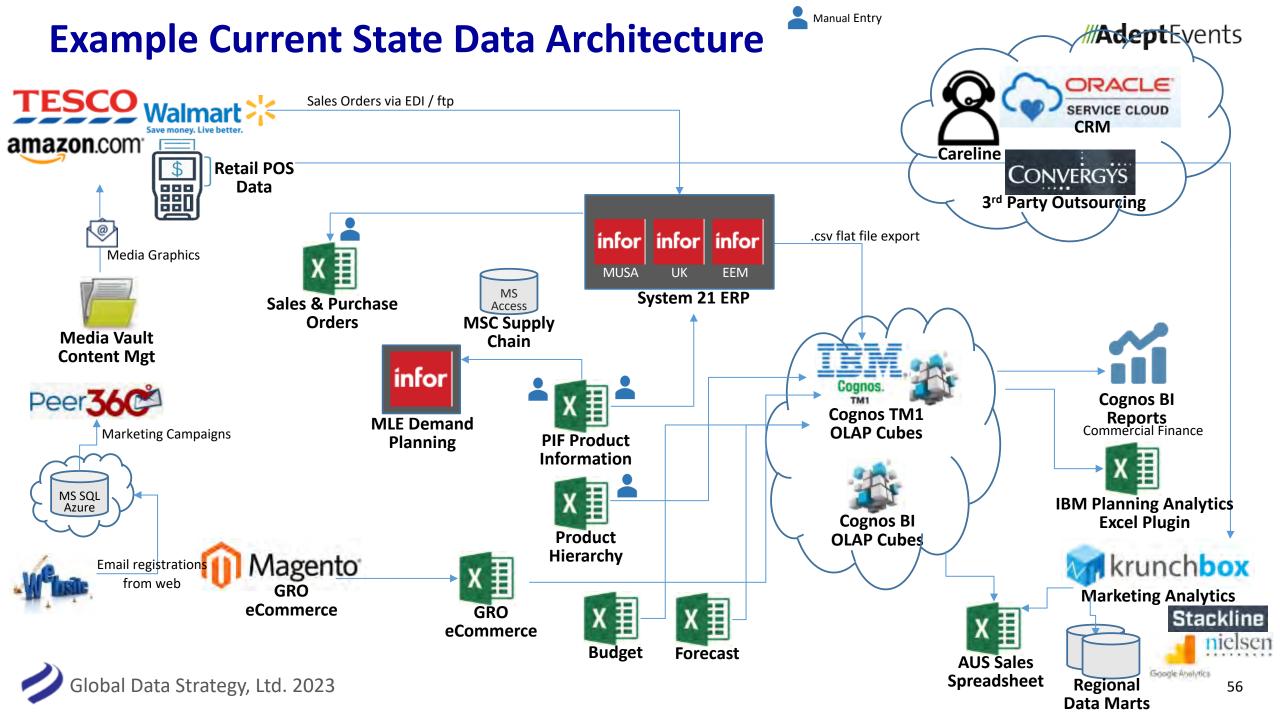


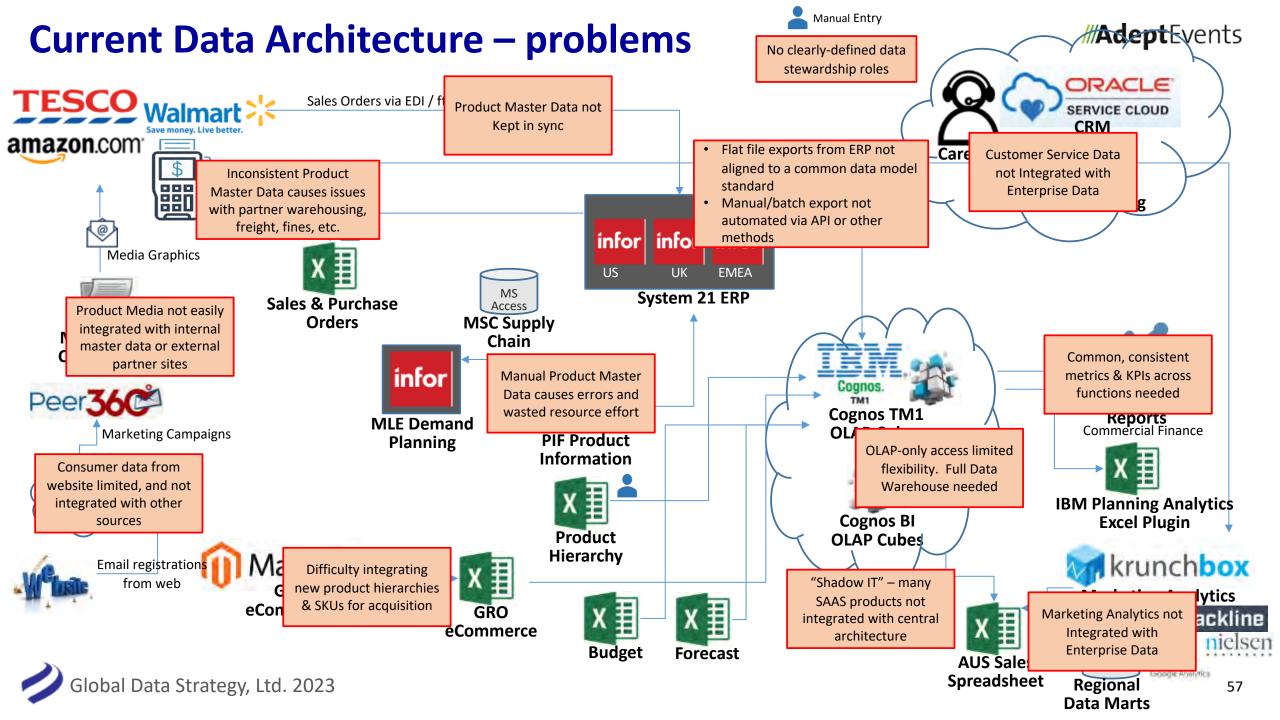
Data Source Inventory

- Document key data sources across the organisation... as well as who is using them (i.e. key departments & stakeholders)
- Data models & other architecture tools can help document the technical structures & metadata

Data Sources	Leadership	Sales	Finance	Marketing	Support	R&D	HR	Legal	Compliance
Relational Databases									
MySQL				Х					
Oracle		Х	Х	Х	Х	Х	Х	Х	Х
SQL Server		Х	Х						
Sybase			Х						
Etc.									
BI Tools									
Tableau		Х			Х	Х	Х	Х	Х
Qlik	Х		Х	Х					
Etc.									
Open Data									
Data.gov – agricultural data	Х			Х		Х			
Etc.									









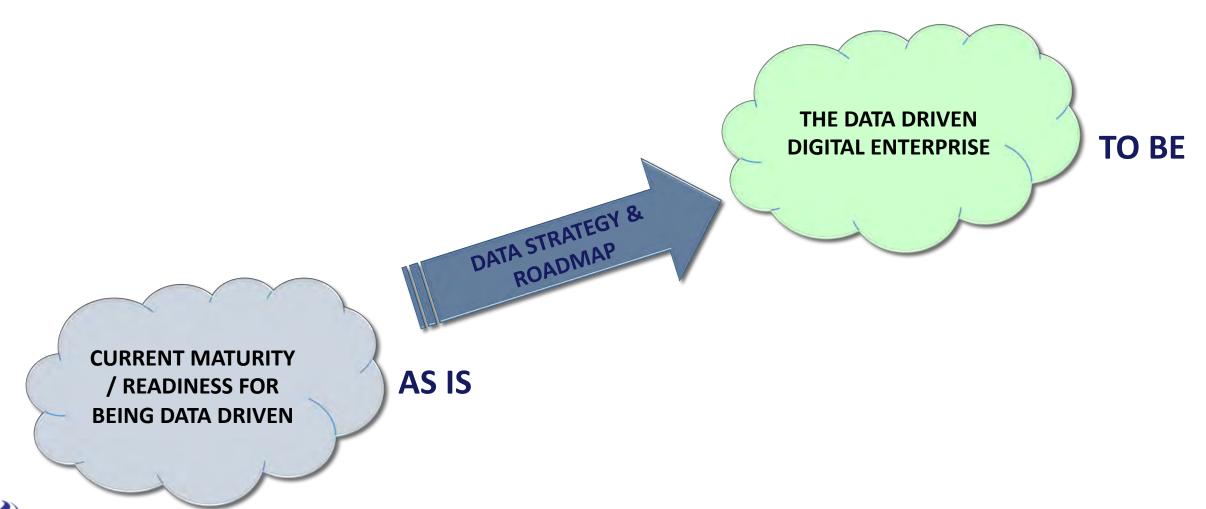
Building a Data Strategy STEP 3

Propose Future State Capabilities, Processes &

Organisational Structure

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Maturity baseline – plotting your data strategy



Example Future State Architecture

Consumer





Customer Relationship (CRM) managers relationships and interactions with consumers and prospects.



eCommerce Platform builds Digital Storefront to

sell products to customers digitally.

Product Consumer Branding & graphics

Transactions



Product Information Management (PIM)

ensures provides trusted product content for unified commerce.

Product

Product

Etc.

Consumer

Enterprise Resource Planning (ERP)

provides operational end-to-end processes, such as finance, HR, distribution, manufacturing, service and the supply chain.



Product Supplier Consumer Location Employee

Consumer

Location **Employee** Transactions **Supplier** Consumer Product Customer

> MDM Hub stores a Single, Consistent View of Customer, Product, Supplier, etc. to publish across all enterprise systems



Power BI

Business Intelligence (BI) tool provides the ability to visualise data via structure reports and graphs.

Data Warehouse stores data extracted from transaction systems, operational datastores and external sources for summarised reporting and easy "slice and dice" analysis.



Enhanced Customer Support through text mining & voice analytics and potential for automated chat bots.



Social Media Platforms provide insight into customer sentiment and advocacy.



Data Lake stores structured & unstructured data in raw format for advanced analytics & insights.

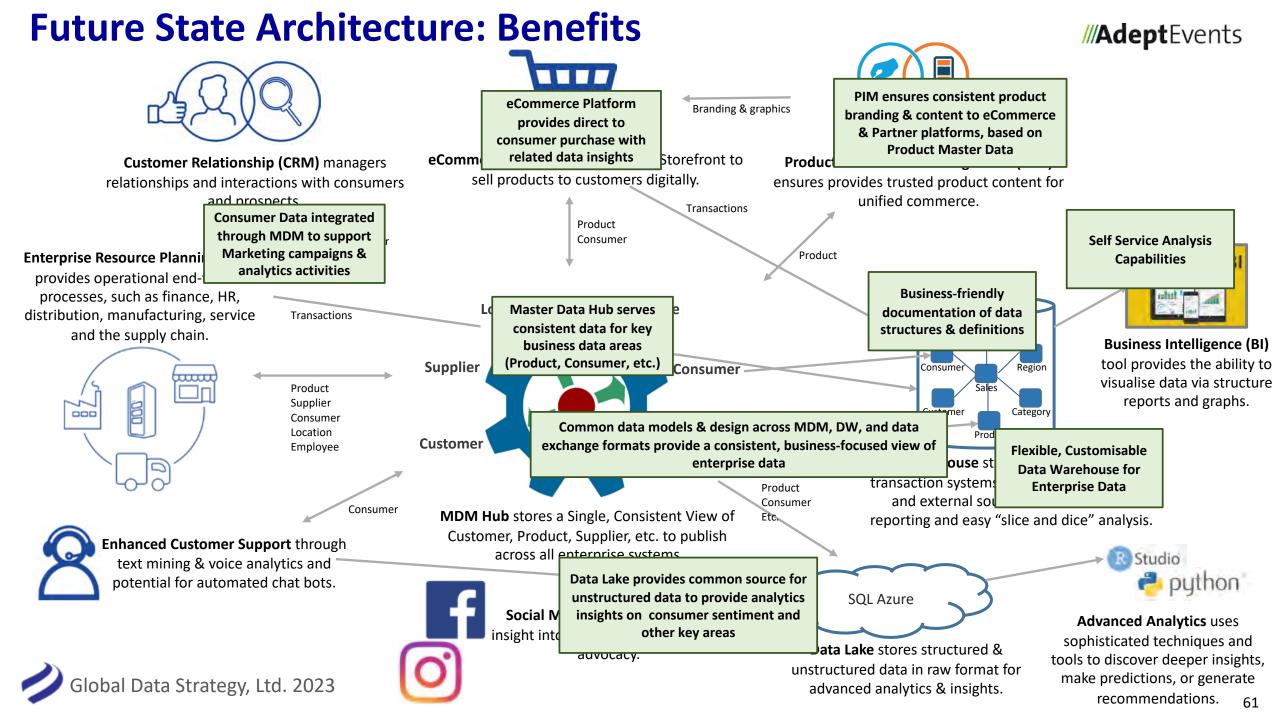


sophisticated techniques and tools to discover deeper insights, make predictions, or generate

Advanced Analytics uses

recommendations.







HOTEL GROUP CASE STUDY ACTIVITY

- Perform a high-level enterprise Data Management maturity assessment of the Hotel Group
- Use the Data Management Capability topics to help your assessment
- Highlight a score for each capability between 1 & 5 where:
 - 1 is lowest capability (Current or Desired)
 - 5 is highest capability (Current or Desired)
- Provide a brief reason for your scores
- Use the Assessing Maturity template and the Data Management Capability topics in the workbook to complete the activity

Activity – Assessing Maturity



Data Maturity Capability	Current State Score	Desired Future State Score (within 3 years)	Reason
Data Strategy			
Data Governance & Collaboration			
Master Data Management			
Data Warehousing			
Business Intelligence			
Data Analytics			
Data Quality			
Data Architecture & Modelling			
Data Asset Planning & Inventory			
Data Compliance & Security			
Data Integration			
Metadata Management			

Rating Scale for Current State Score & Desired Future State Score:

1 = Lowest

5 = Highest

Performing a Current & Future State Assessment: Capabilities



DATA MANAGEMENT CAPABILITY	EXAMPLE TOPICS ANALYSED					
Data Strategy	Alignment of data to business strategy; budgets & resources; communication					
Data Governance	Accountability; stewardship; data issue management; critical data identification					
Master Data Management	Master & reference data storage & processing; matching rules; hierarchies; CDEs					
Data Warehousing	DW capability; performance & scalability; documentation; design methodologies					
Business Intelligence	Provision of user reports; tooling; self-service; semantic layer; visualisation					
Data Analytics	Operational v predictive; use of data science, AI/ML; social media; geographic data					
Data Quality	Measurement & KPIs; root cause analysis; tooling; enrichment; data entry validation					
Data Architecture & Modelling	Models; data standards; process / data mapping; system architecture; documentation					
Data Asset Planning & Inventory	Location & documentation of data assets; data lifecycle management; data retention					
Data Compliance & Security	Legal & regulatory compliance processes; privacy tagging; access & security controls					
Data Integration	Batch v real time capability; APIs ; common business logic; platforms & tools					
Metadata Management	Business data glossary, dictionaries & catalogs; data lineage; maintenance processes					



Building the Business Case

Making the Case for Change

- Make the Right Business Case to the Right Audience
 - Know your audience do they want a spreadsheet, quick PowerPoint, 100 page document, water cooler conversation?
 - Understand what detail is needed, i.e. don't "overkill" sometimes simple is better
 - Focus on high-priority business needs
 - Define key business metrics for success aligned with data mgt deliverables
- Plan to start small, with a plan to build to a longer-term goal
- Lay out the current status quo including
 - Successes to date
 - Challenges with current structures & processes
- Include Metrics & Anecdotes where possible
 - Cost savings or revenue gains
 - Data quality improvements
 - Compliance & regulatory issues
 - Any real-world anecdotes that can be shared (e.g. We underreported sales last year due to data quality issues)





Find Advocates Across the Organisation

- It's key to find champions for your data strategy effort across the business
 - Both "business" and "IT"
 - From senior level executives as champions to field staff as supporters
- In making the case for funding or buy-in, it's helpful to have someone else tell your story
 - Can marketing advocate the case for change to improve campaigns?
 - ... Or sales discuss the potential increases in revenue?
 - Or Engineering point out the increases in efficiency and quality?

While we may want to take the "credit" for the data strategy, it is often most successful when other people have embraced it as their own



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 Optimisation 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



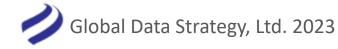
Reducing Risk

- 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'



Activity: Making the Business Case

What are some key areas that can drive ROI for the hotel?

List some of the ROI drivers for the hotel chain in each of the areas below:



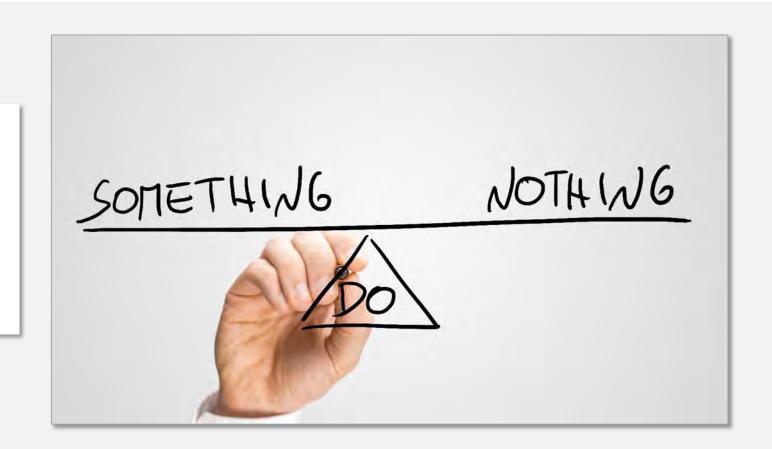






Include the Risk of Doing Nothing

- 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.



An outline for a documented Data Strategy

Typical Data Strategy 'headings' - document and / or presentation

- Executive Summary Headlines
- Business Context
 - Current business drivers, strategy & goals (Motivation Model)
 - The overall dependence on data
- Key Data Focus What is our key data?
- Current Problems with Key Data
 - What are the main issues quality, accountability, accessibility, security, etc.
 - Potential benefits of improvement
 - Unrealised / future data opportunities
 - Implications of the 'Do Nothing' option
- Overall Approach Key Objectives of the Data Strategy
 - Business priorities
 - Consequent data priorities
- Roadmap:
 - 0-3 Months
 - 3 6 Months
 - 6 12 Months
 - 12 24 Months
- Tracking Benefits and Progress KPIs and Success Measures





Building a Data Strategy STEP 4

Developing the Data Strategy Roadmap: Prioritise Efforts & Identify Quick Wins

Setting Priorities & Activities

WHY?

- Ensure clear focus & priority to manage limited time
- Important to make an early impact to gain credibility
- Need to gain support of Data Champion & Steering Group (see later)
- Build confidence & experience in principles & approaches

HOW?

- Prioritise Issues List & agree priorities with the Data Champion
- Sell the data vision to the Steering Group
- Specify any support (financial and / or resources) required
- Create & lead a team to deliver the Data Strategy



WHAT?

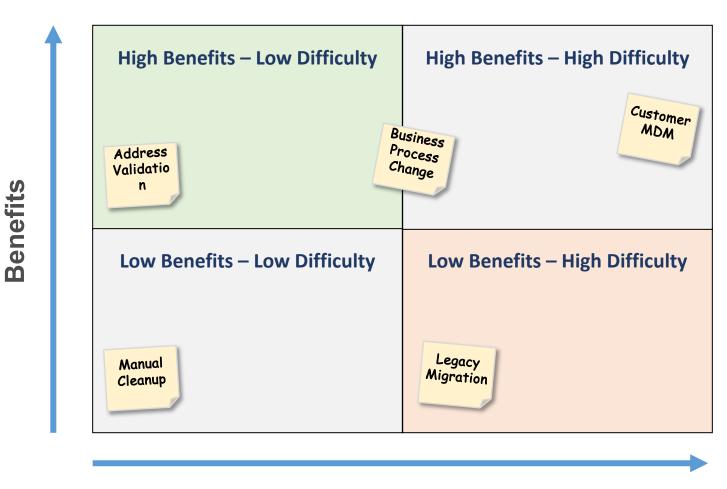
- Look for 'quick wins'
- Data Quality improvement projects often a good source of quick wins as benefits easier to quantify
- Create a use case for promoting the value of the Strategy
- Build a foundation for longer term success

WHEN?

- Don't spend too long doing analysis and reflection
- Start a pilot / PoC project as the top priority
- Use the pilot / PoC to introduce
 Strategy principles & practices
- Apply to further pilots / POCs



Priorities based on Benefits vs. Level of Difficulty can often be easily determined via a workshop activity using a Priority Grid.



Who: Return to the Stakeholder Matrix

- When building the Roadmap, it's important to consider the Key Stakeholders who will see benefits
 - Document the departments, roles, etc. that will be affected
 - Consider the WIIFM factor (What's in it for me)?



Stakeholder Matrix											
Stakeholder Name / Group	Job Title/Role	Location	Involvement			nt	Role on Project	Influence	Impacted	Phone	Email
			R	Α	С			H/M/L	H/M/L		
EXECUTIVE REVIEW	•										
Mary Smith	CIO	Plano, TX	X			Х	Executive Sponsor	Н	Н	+1 (214) 555-1212	mary.smith@thisco.com
Robert Quantiles	CFO	New York, NY			Х	Х	Executive Chamption for Finance data	Н	Н	+1 (212) 555-1212	robert.quantiles@thisco.com
STEERING GROUP	·										
Stuart Ling	Director of Enterprise Architecture	San Francisco, CA	X	Χ			Core working group	Н	Н	+1 (415) 555-1212	stuart.ling@thisco.com
lan Wordingham	Director of Data Strategy	London, UK	X	Х			Core working group	Н	Н	+44 (020) 1234 1234	ian.wordingham@thisco.com
Melissa Smith	Strategic Consultant	Edinburgh, UK			Χ		Core working group	Н	L	+44 131 123 1234	melissa.smith@thisco.com
DATA ARCHITECTURE											
Eric Wong	Data Architect	Plano, TX			Х		Recommendations & input on data architecture	M	Н		eric.wong@thisco.com
Wendy Collington	Data Architect	San Francisco, CA			Х		Recommendations & input on data architecture	M	Н	+1 (415) 555-1212	wendy.collington@thisco.com
Myles Stuart	DBA	Plano, TX				Χ	Historical input on legacy systems	L	M	+1 (214) 555-1212	myles.stuart@thisco.com
ETC - Other IT Groups listed											
FINANCE											
Lisa Winston	Director of Finance	New York, NY			Х	Х	Input into US finance needs for data	Н	Н	+1 (214) 555-1212	lisa.winston@thisco.com
Timothy Preston	EMEA Finance Lead	London, UK			Х	Х	Input into EMEA finance needs for data	Н	Н	+44 (020) 1234 1234	timothy.preston@thisco.com
Juan Morales	Latin America Finance Lead	Santiago, CL			Χ	Χ	Input into LATAM finance needs for data	Н	Н	+56 2 12345678	juan.morales@thisco.com
ETC - Other Business Groups listed											



Look for "Quick Win" Projects

Quick Win Project: A "Quick Win" Project is a project that shows early value while at the same time building towards a long term goal. A successful "quick win":

- Aligns with business objectives and solves a high-value business problem or
- Creates a proof of concept for a high-value business opportunity
- Sets a solid foundation for future efforts
- Acts as a "light bulb moment" for key stakeholders to understand the value of data-centric activities









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

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

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



NO



YES

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Quick Wins Should Build Towards the Journey

- As part of the Roadmap Planning
 - Show how each Quick Win fits as a step towards the goal
 - Plan the timing and coordination accordingly
- Tie these steps into the larger Story and Vision







HOTEL GROUP CASE STUDY ACTIVITY

- Use the Boston Grid to identify at least 5 potential top priority activities which should be included in a Data Strategy for the Hotel Group
- Try to ensure that you identify at least
 2 quick win projects

Activity: Defining Priorities

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Pick 5 potential top priority activities for the Hotel Chain and place them in the appropriate area of the matrix

Activity	High Benefits – Low Difficulty	High Benefits – High Difficulty
Benefits	Low Benefits – Low Difficulty	Low Benefits – High Difficulty

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A Roadmap is Not a Laundry List

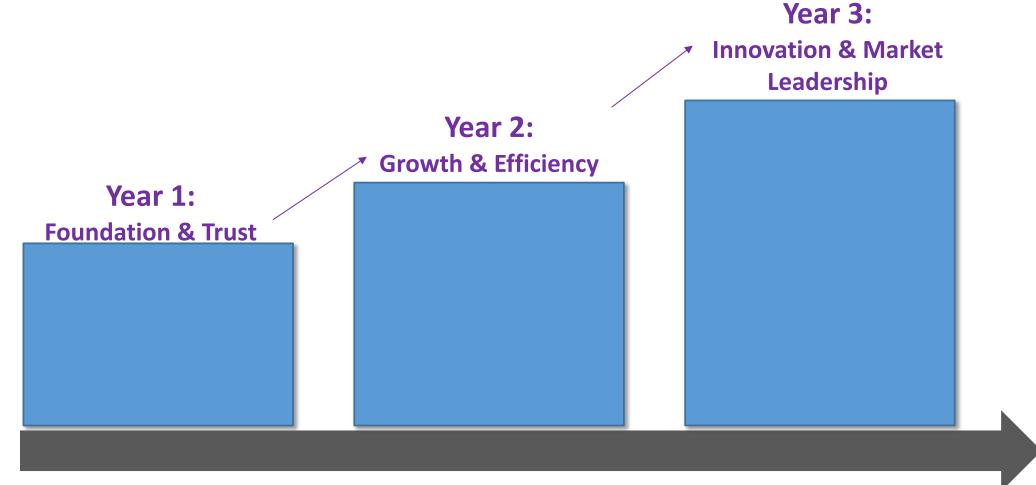
- A common error is to create a roadmap that reads like a "Laundry List" of activities
 - Create "themes" for each stage that tie into the vision
 - Call-out "quick wins" and value for each activity
 - Consider the WIIFM what do key stakeholders care about?



Define Themes and Evolution

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• Tell the "Story" of the Journey by defining an overarching theme for each year





Define Themes and Evolution



Build the roadmap around the themes

Year 2:

Growth & Efficiency

- Acquire Data Catalog & populate with CDEs
- Start MDM hub for product
 & customer data
- Create reporting semantic layer
- Deliver priority data quality improvement projects
- Run analytics and data science pilot projects etc.

Year 3:

Innovation & Market Leadership

- Fully integrate data catalog into operational environment
- Complete customer & product MDM hubs
- Operationalise data analytics and data science capabilities
- Expand data warehouse to accommodate new reporting requirements
- Create comprehensive selfserve reporting environment

Year 1:

Foundation & Trust

- Create Data Governance
 Framework & organisation
- Produce business cases for Yr 1 workstreams
- Baseline CDE data quality & establish KPIs
- Run data quality pilot projects etc.

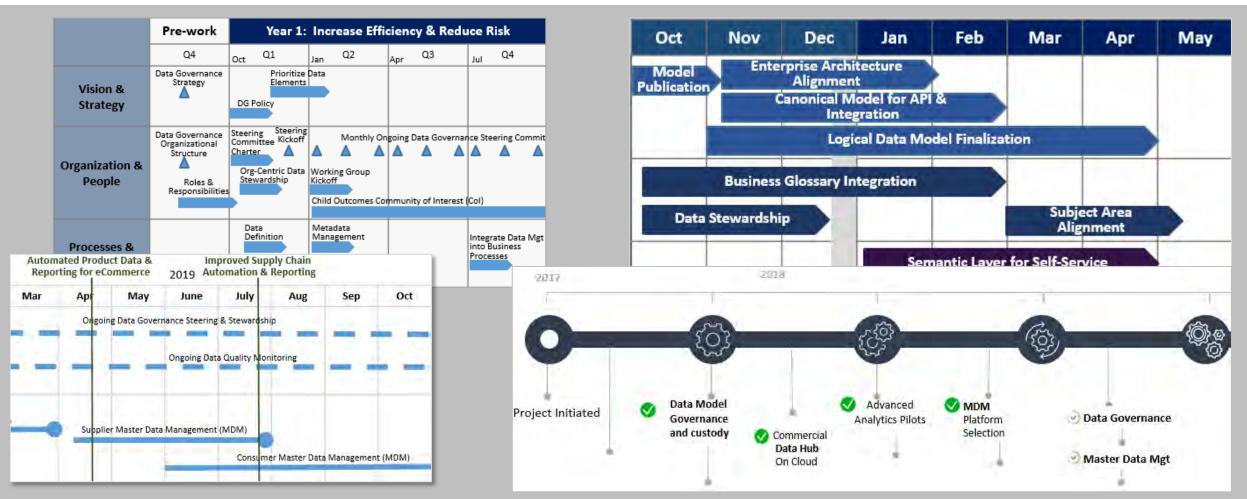
DATA STRATEGY ROADMAP TIMELINE



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How to Visualise the Roadmap

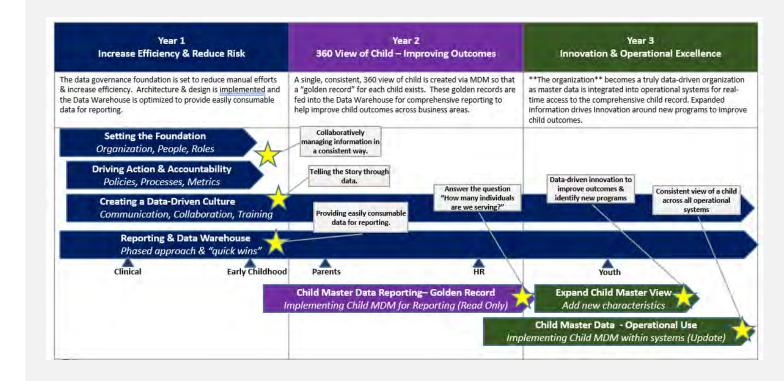
- The way the roadmap is visualised is highly subjective based on the audience.
- Understand your stakeholders & the level of detail and style they prefer. You may have several versions for different audiences.





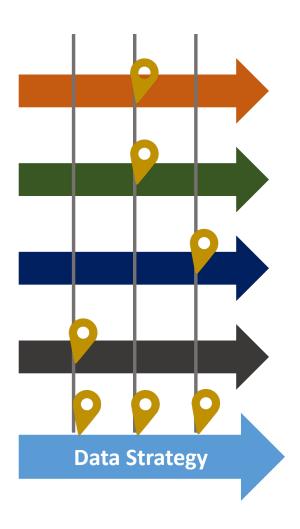
Create Themes for the Roadmap

- Tell the story of the evolution Year over Year
 - Showing a 3 year trajectory with a theme/aspiration for each year
 - High-level activities shown in a Gantt like chart
 - "Quick wins" highlighted with narration"



Align with Other Roadmaps

- When building the Data Strategy, it's important to align with other key Roadmaps being developed.
 - Can the Data Strategy provide benefits that support these Roadmaps?
 - Will there be any conflicting resources?
 - Are there marketing events or communications you can align with and leverage the momentum?





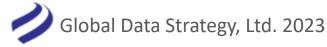
HOTEL GROUP CASE STUDY ACTIVITY

- From the Data Maturity assessment carried out earlier:
 - Identify 3-5 potential Roadmap themes and give each a 1or 2 word title
 - List 2-3 key objectives for each of the themes / objectives. The objectives should relate to potential data strategy work packages or projects

Activity: Roadmap Themes and Goals



Theme 1	Theme 2	Theme 3	Theme 4	Theme 5	
Objectives	Objectives	Objectives	Objectives	Objectives	
1.	1.	1.	1.	1.	
2.	2.	2.	2.	2.	
3.	3.	3.	3.	3.	





Data Governance – A Simple Definition

Data Governance is a business led continuous process to improve data for the benefit of all data stakeholders

Business Led Continuous Process

- Data is a business asset so must be owned by the business
- Data Governance must be an ongoing activity it's not a project

Improve Data

- Data Governance must demonstrate business improvement through better data
- Monitoring data without an improvement agenda is pointless

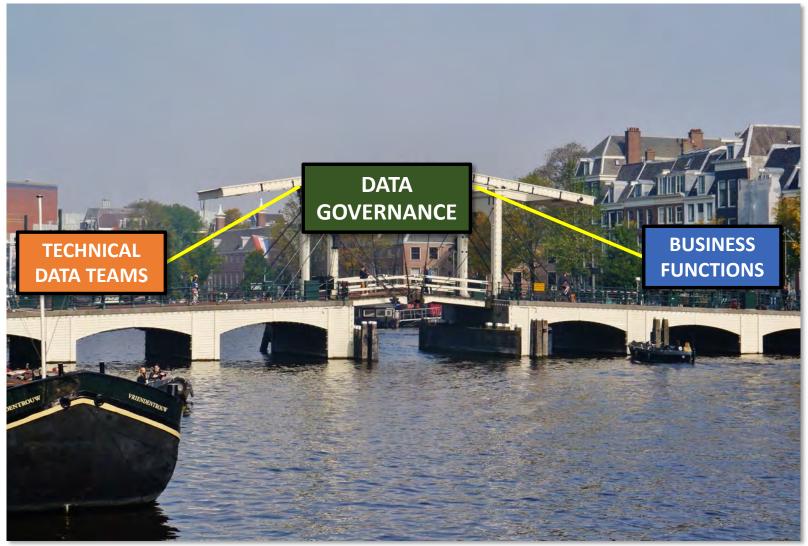
Benefit

- The benefits of Data Governance must be real and measurable
- All stakeholders (Business, IT, Customers, Suppliers, Regulators etc.) should recognise the benefits it brings to them



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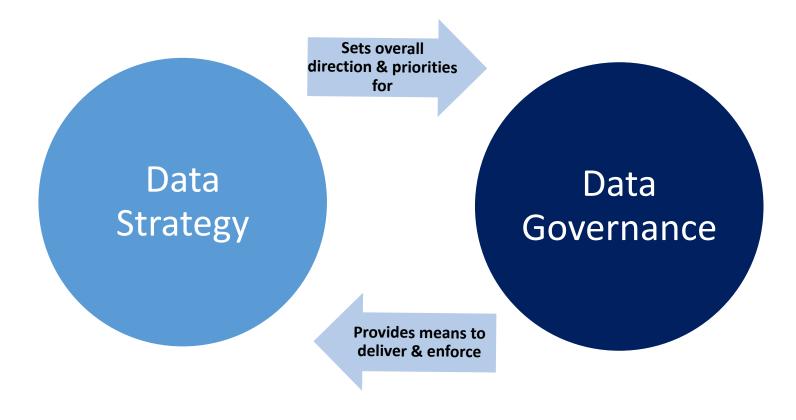
Data Governance: The Bridge Between Business & IT





Data Strategy and Data Governance – mutual allies





Most successful Data Strategies depend on Data Governance as the primary mechanism to deliver it



Data Governance – Relationships with Other Data Discipline Adept Events

11 DATA DISCIPLINES Data Architecture Data Modelling & **Data Quality** Design Data Storage & Metadata Operations **Data** Governance Data Warehousing & **Data Security Business Intelligence** Data Reference & Master Integration & Data Interoperability Documents & Content

DAMA DMBOK – Version 2 2017

DISCIPLINE	EXAMPLE RELATIONSHIPS
Data Quality	Data Quality requires Data Governance to drive & sustain improvement so it becomes BaU
Data Architecture	Designs the structural framework for the management of data across platforms & systems
Data Modelling & Design	Identifies business definitions, entities & attributes to focus Data Governance activities
Data Storage & Operations	Lack of business accountability for data can impact Data Storage & Operations efficiency & reliability
Data Security	Lack of business accountability makes data less secure & more open to fraud
Data Integration & Interoperability	Depends on defined & consistent data formats & content
Documents & Content	Good Data Governance practices support Documents & Content, e.g. content ownership, version control, tagging, taxonomies
Reference & Master Data	Manages widely shared, business critical data, ensuring single truth data. Governance of the data is critical for success.
Data Warehousing & Business Intelligence	Data Governance is the foundation of effective DW&BI (e.g. business definitions for KPIs etc.). Also garbage in, garbage out is as true as ever.
Metadata	Metadata provides context & meaning to data and so supports effective Data Governance

DAMA-DMBOK

Data Governance Roles



Executive Sponsor



- Promotes Data Driven Culture
- Champions Best Practices
- Advocate with ELT and Board
- Escalation Point for Key Issues

Business Data Owner



- Represents the data needs for a particular functional area
- Defines key KPIs & data elements
- Defines key business rules
- Sets Data Quality Metrics & Thresholds

Business Data Steward



- Responsible for the day-to-day management and quality of data
- Subject Matter Expert (SME) for a given business domain
- · Aligns with the Data Owner to support business rules and to align with key KPIs

Technical Data Steward



- Digital/IT expert for a given business unit
- Subject matter expert for a given system and its usage
- · Aligns with Business Data Stewards to ensure technical needs are met



Data Strategy and / or Governance Lead*

- Acts as a cross-functional lead for the data governance effort, working with both business and IT roles
- Chair of the Data Governance Steering Committee

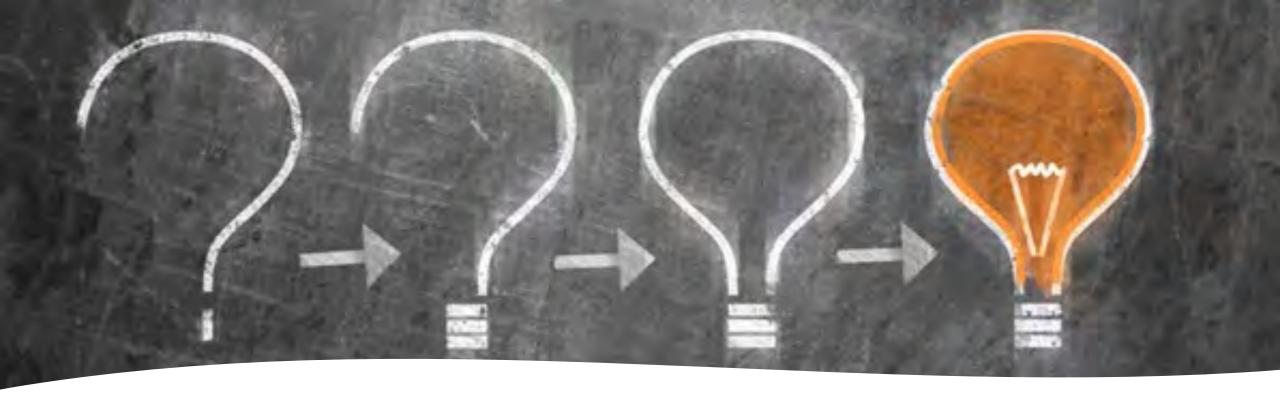


Data Architect*

- Oversees the holistic data architecture for the organisation, including data models, data standards, data integration, etc.
- Works with both business and technical stakeholders to ensure that systems implementations align with key business rules & needs



- Data Security Lead*
 Ensures that the organisation adheres to the adequate security standards to support industry regulations and best practices
- Works with the Data Governance Lead and Data Architecture to ensure that data implementations support business needs in a secure way.



DISCUSSION

How might you determine who Data Owners and Data Stewards should be?

How to Find Potential Data Owners & Data Stewards



De Facto (Maybe Unrecognised)
Owners & Stewards



Data Domain Experts / Geeks (The 'Go To' person)



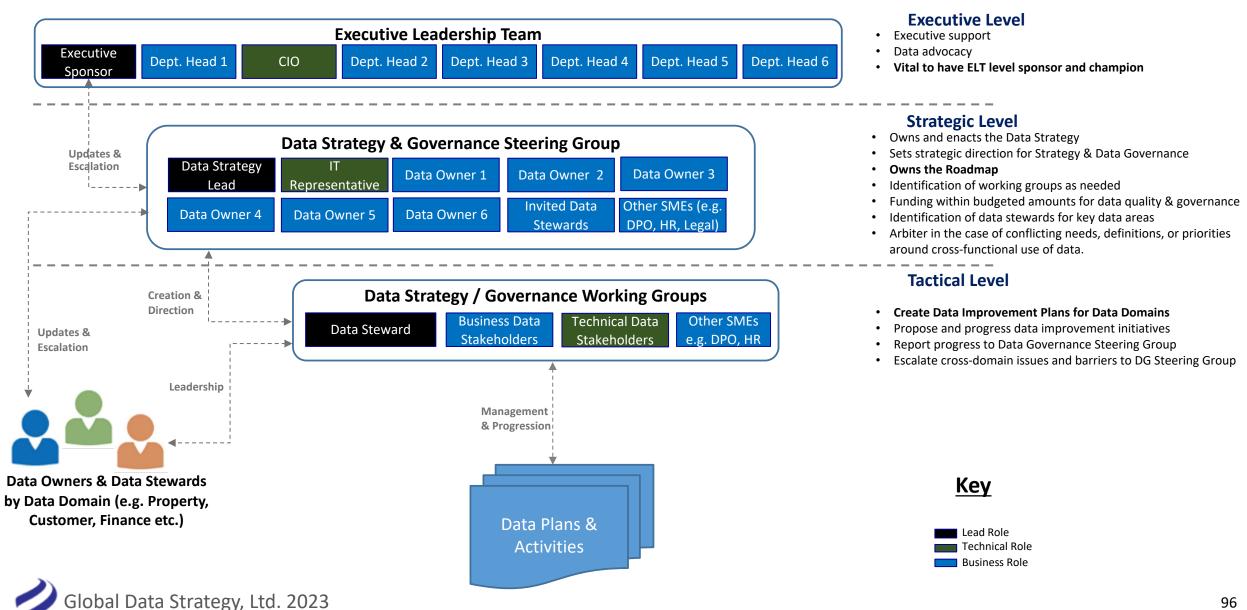
People Who Feel the Pain of Poor Data



Enthusiasts Seeking a New Challenge

Example Strategy / Governance Organisation





Business & IT Roles in Data Strategy

BUSINESS ROLES	IT ROLES	JOINT ROLES
Establish a clear and communicable Business Strategy	Understand the Business Strategy & its potential technology implications and requirements	Formulate & execute the Data Strategy
Prioritise key data areas and problems	Evaluate, select & procure appropriate data technologies to support the Data Strategy	Ensure both business & IT senior management play an active role to ensure its success
Owns the Strategy through the establishment of Data Governance principles & practices	Understand and introduce Data Management industry best practices and methodologies	Exercise rapid and effective change control
Estimate, measure & realise potential and actual benefits delivered by the Data Strategy	Be aware of technology innovations and propose how these can be introduced to enhance the Data Strategy, e.g. Big Data, Cloud, Internet of Things, AI etc.	Monitor Data Strategy deliverables and instigate corrective action as required
Enact the business process and behavioural changes required to implement the Data Strategy	Proactively propose how future technologies might improve and enrich the Business Strategy	Ensure constant cross-business & IT collaboration to ensure continued alignment of Business & Data Strategies 97

Data Strategy Development – Potential Deliverables & Useful Tools

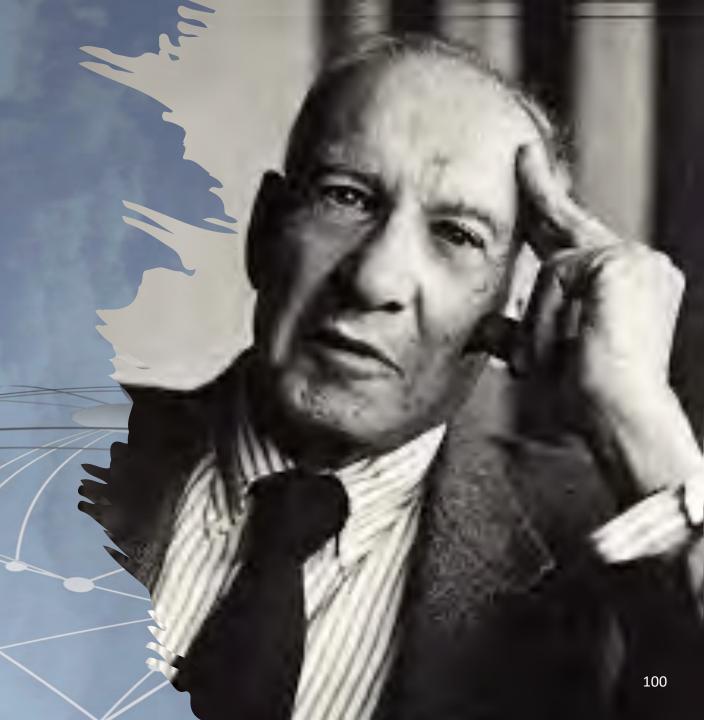
01
POTENTIAL DELIVERABLES
Data Strategy Slide Deck + 2 /10 min. pitches
Motivation Model
Stakeholder Matrix
Data Issues & Opportunities Log / Matrix
Business / Conceptual Data Model
Outline Business Case
Maturity Assessment Report Summary
Roadmap (1-3 Year Horizon)
Data Strategy Steering Group Charter
Data Strategy Working Group Charter
Application Landscape Diagram (Current)
Application Landscape Diagram (Future)
Business Glossary
Communications Plan

USEFUL TOOLS
PowerPoint / Visio
Data Modelling Toolset (e.g. ERwin, ERStudio)
Data profiling tool to baseline data quality in current source systems



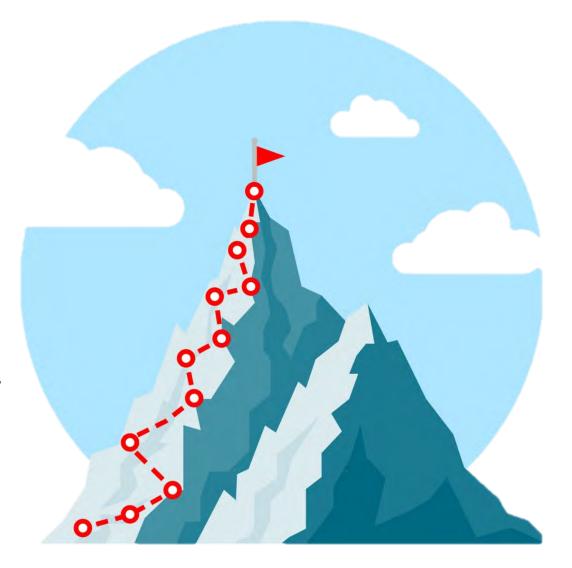
'Culture eats strategy for breakfast.'

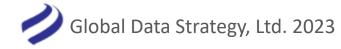
Peter Drucker,
Management
Strategist &
Consultant



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

- 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?







Organisational Change Happens at Three Levels

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

Data
Governance
directly impacts
the culture of
an organisation

"IN WHAT WAYS ARE MY CURRENT RESPONSIBILITIES AFFECTED"?



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

"WHO ARE THE IMPACTED
GROUPS AND HOW DO WE
SUPPORT THEM"?



PROJECT

Increase outcomes and ROI by integrating activities into the project plan that help prepare, manage, and reinforce change and results in adoption and usage



ORGANISATION

Affect culture changes in the enterprise by embedding Change Management into every Data Strategy initiative

"The achievements of an organisation are the results of the combined effort of each individual".

Vince Lombardi

Methods for Managing the Change Impact of Data Strategy & Bert Events Data Governance



1. Stakeholder Assessment

Identify, evaluate, and properly support people who can exert influence or pressure on your change, are responsible for creating your change, choose to use or not use the results of your change, & benefit from the work of your change

Key Success Enabler For:

Overall Adoption and ROI



2. Communication Planning

Aim to build awareness, interact with stakeholders, solicit feedback, elicit transparency, and publicly celebrate success as appropriate

Key Success Enabler For:

Awareness & Reinforcement



3. Knowledge & Coaching Plans

Develop a competency skill set in impacted stakeholders by providing tools, vocabulary, and best practices and other training they can utilise effectively in their roles and ensure their ability to be able to adopt changes appropriately

Key Success Enabler For:

Knowledge & Coaching



4. Resistance Management

Directly addresses barriers to successful adoption of change and increases the overall effectiveness of change management

Key Success Enabler For:

Interest & Excitement

Stakeholder Assessment Example



- Evaluate by using your stakeholder matrix and categorise into impacted groups
- Rate each group in each
 Change Phase from 1-5
 (1 = least favorable
 5 = most favorable)

The output score for each group allows the Change Mgt Team to prioritise the plans that are needed for each stakeholder group

Change Phase	Question	Group 1	Group 2	Group 3
Change Impact Scope	What aspects of the change will directly impact this group? None or indirect impacts New data governance policies New technology Changes to process workflows Added responsibility to existing role New job role Deprecated responsibilities in existing role Changes in reporting structure			
Awareness Awareness	What are the business drivers or issues for this change? Are there group-specific issues wrt to this change that need to be considered? Will building awareness with the group be easy or difficult? Why			
Awareness Rating	What is the level of awareness of the need for this change with the impacted group? 1 = None, 2-4 Limited degrees, 5 = High			
Motivation	What are the motivating forces in support of this change (what would cause someone in this group to support this change)? What are the opposing forces to this change? (what would cause someone in this group			
Motivation	to oppose this change)?			
Motivation Rating	Where would you label this group with regards to current level of support for the change? 1 = Resistant, 2 = Neutral/Unknown, 3 = Mixed, 4 = Supportive			
Knowledge/Coaching	List the knowledge, skills, and behaviors needed to support this change with this impacted group			
Knowledge/Coaching	Considering the skills and knowledge needed, what potential challenges do you see for employees in this group successfully implementing the change?			
Knowledge/Coaching	What barriers may inhibit this group from implementing this change?			
Knowledge Rating	To what extent does this group have the ability to implement the new change? (1 = None, 2-4 = Limited degrees, 5 = Sufficient)			
Reinforcement Reinforcement	What reinforcements would be necessary to sustain the change in this group? What characteristics of the group may cause the change not to be sustained?			
Reinforcement Rating	To what degree is this group receiving reinforcement for demonstrating the change? $ {\it 1 = Low, 5 = High} $			104



The importance of culture change & communication

- Remember that a Data Strategy is transformational and so must impact and involve all in the organisation who touch data
- This includes Data Creators & Data Consumers in addition to formal roles such as Data Owners, Stewards etc.
- Communication is critical as:
 - Data Strategy is a collaborative activity
 - It requires alignment of business and IT
 - All people in the organisation are required to change behaviours to support new ways of working
- Develop a clear communications plan and disseminate to all
- Develop case studies / use cases of successes
- Use existing internal events, newsletters, web sites etc.
- Create a 'home' for Data Strategy materials (web site etc.)



Garnering Excitement - Engage Marketing & Branding



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



- Executive sponsor video
- Lunch and learn sessions
- Roadshows
- Training sessions
- **Newsletters**
- Website for data initiative

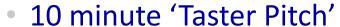


AVOID DATA JARGON: USE BUSINESS LANGUAGE!

Selling & Communicating Your Data Strategy

2 minute 'Elevator Pitch'

- This should simply state what a Data Strategy is, why your organisation needs it, how are you going to deliver it, and what the expected benefits will be.
- It's best memorised and replayed whenever you need it. This is useful when asked what your job is and what you are trying to achieve.
- It is also valuable when you are part of a Data Strategy core team to ensure all members of the team relay the same basic messages.



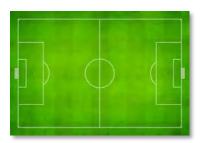
- Create a PowerPoint deck to expand on the above which can be delivered by you and others when you get an opportunity to talk to a senior manager or if you can get an invite to scheduled team meetings held across the organisation.
- Try to use pictures to illustrate your key points again these are more impactful than text lists and remember to include some of the stories you've collected. Use the ones most relevant to the audience of any particular pitch.

30 minute 'Full Pitch'

- Expand on the Taster Pitch above to provide a more in depth overview of your Data Strategy & roadmap.
- This can be used to brief key potential stakeholders and to convince people to become data owners and data stewards.







Discussion – Thinking of the Hotel Chain...

What do you think is the biggest resistance to change that a Data Strategy would face?



What would be the main excitement / opportunity drivers?





Discussion – Thinking of Your Organisation...

What do you think is the biggest resistance to change that a Data Strategy would face?



What would be the main excitement / opportunity drivers?







Summary: key steps to creating a Data Strategy

10 steps to success / key lessons learned

THE ESSENTIAL COMPONENTS OF A SUCCESSFUL DATA STRATEGY

Secure Senior Executive Support

 Identify a Data Champion among senior leadership

Define Vision, Drivers & Motivations

 Define a business-driven vision for the strategy & Roadmap

Identify & Interview Stakeholders

 Elicit feedback from key stakeholders – listen & communicate

Build the Business Case

 Outline key benefits of data strategy & risks of not doing so

Create Change Organisation

Define an organisational structure

to oversee and deliver the Data

Identify Business-Critical Data

 Focus on the data that has the highest impact on the business

Assess Data Maturity

 Assess the data maturity of the organisation across all aspects of data management

Map Business Priorities to Data Capabilities

 Create a realistic "heat map" aligning business goals with data management capabilities

 Implement change management to build support and engagement

Strategy

Deliver "Quick" Wins

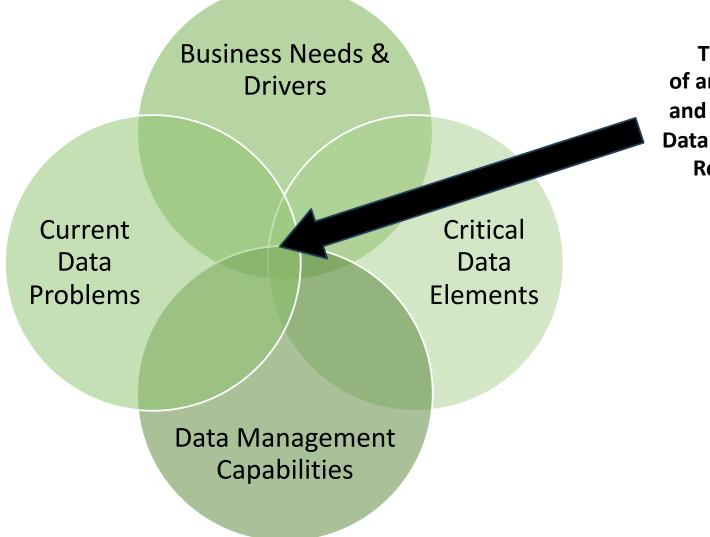
• Short, iterative, business-driven projects deliver short-term value, building towards long-term gains

Communicate

• Build a communications plan from initial feedback phase through all phases of implementation

Summary: A Laser Focus on the Core Priorities





The core
of an effective
and successful
Data Strategy &
Roadmap

Case Study: Starfish Family Services

Using Data to Improve the Lives of Children



• A local Head Start Program was looking to improve the lives of children & families through data, through a holistic, integrated view of the individual:

- Physical Health
- Mental Health
- Education

- Family Support
- Community Support
- Etc.
- Global Data Strategy performed a Data Maturity Assessment
 & Strategy in 2017
 - Evangelising to CEO
 - Holistic view of Data Landscape
 - Interviewing staff

- Maturity Assessment
- Alignment w/ Business
 Drivers
- Etc.
- Resulting in a 5 Year Grant over \$1M to better leverage data to help children
 - Data Governance
 - Data Warehousing

- Reporting & Analytics
- Master Data Management (MDM)





Building the foundations of a Data-Driven Business through a Data Strategy



For Data Strategy success, anchor Digital Innovation with Foundational Excellence

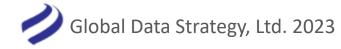
DIGITAL INNOVATION

- Big Data
- Analytics
- Internet of Things
- Artificial Intelligence

FOUNDATIONAL EXCELLENCE

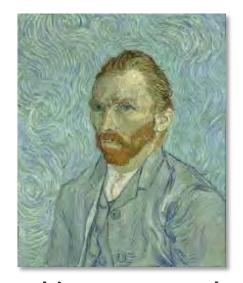
- Data Governance
- Data Architecture
- Data Quality
- Master Data Management

And remember,
like the
Parthenon,
building a Data
Strategy is part
art and part
science



Final Words





"Great things are not done by impulse, but by a series of small things brought together.

And great things are not something accidental, but must certainly be willed."

Vincent van Gogh

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Good luck with your Data Strategy and hope our paths cross again!

