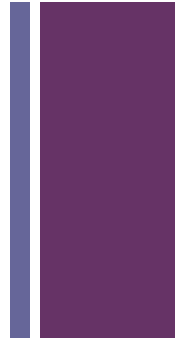
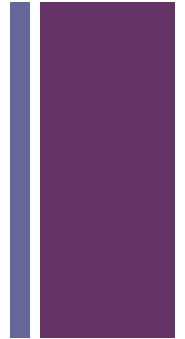


+ Themes



- Big Data
- Governance and Framework Development
- Measurement and Value
- A roadmap approach to Data Lifecycle Management

+ Data Lifecycle Management: What and why



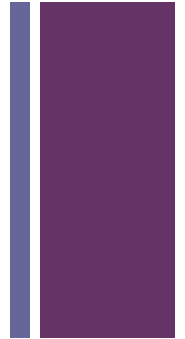
The What

- Data lifecycle management (DLM) is an approach to managing the flow of **data, information** and **associated metadata** through information systems and repositories, from creation and storage through to when it can be discarded.
- DLM encompasses **principles, policies, processes, practices, systems, and tools** used by an organization to manage information through every phase of its existence.
- DLM recognises that the importance and business value of data does not rely on its age, or how often it is used and reused.

The Why

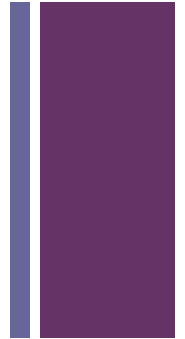
- Data and information has value for strategic and operational business needs, for managing risk, and for meeting legislative obligations.
- The value of data to the business decays over time. We don't want to, or need to, keep all of it.
- As business value decays, some information can be archived, and much of it can be discarded.
- Occasionally, sometimes unexpectedly, older data may need to be accessed again, quickly, completely and accurately

+ Data Lifecycle Management: An Ill Organisation



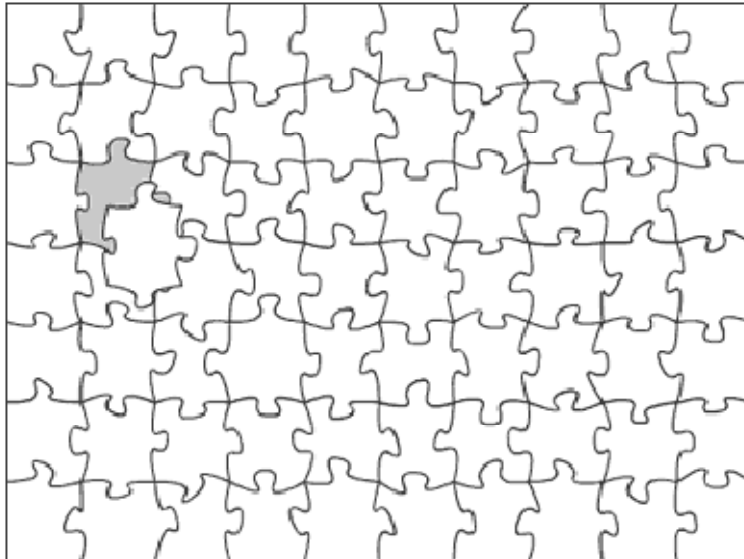
- Siloed data – in line of business systems, databases, data warehouse, shared drives, email, filing cabinet, desk drawers...
 - No way to link **structured** and **unstructured** data together, so no single view
 - No way to determine **authoritative** source
 - Very little **described** or **defined** (limited metadata)
 - Everything is **kept** because there are no guidelines. Information is piling up, and yet...
 - ...a lot is at **risk** of being hard or slow to access, **irretrievable**, **unreliable** or **lost**.
- Business requirements for lifecycle management not well understood (who needs what, when and for how long?)

+ Data Lifecycle Management



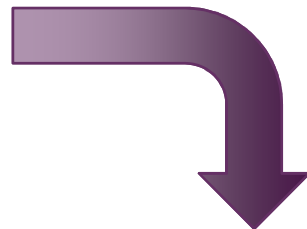
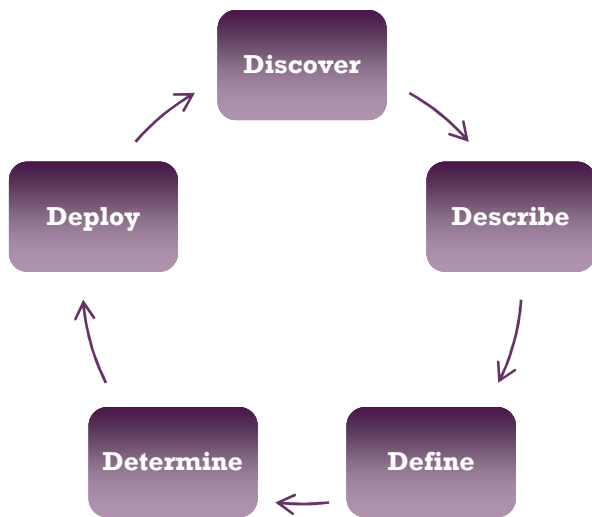
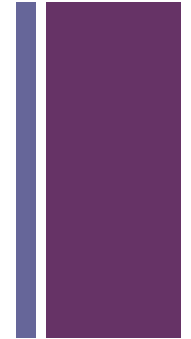
Scope:

- All unstructured data or information held in personal and shared directories, email inboxes, databases that hold documents, web-based information including intranets, public websites and social media
- All structured data, including all repositories, transactional databases and the data warehouse
- Data or information in any format, including paper-based, electronic, and any other media or storage formats.



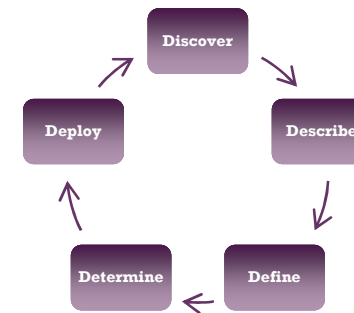
- Principles
- Policies
- Processes
- Practices
- Systems
- Tools
- Change management
- ...and a Roadmap

+ Data Lifecycle Management: Roadmap Development



Framework Component	Activity	2011		2012				2013	
		Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Principles	Agree Principles								
Policies	Record Policy								
	Lifecycle Policy								
	Metadata Policy								
Data value	Business process analysis								
	Information risk								
	Legislative framework								
Data description	Metadata Schema								
	Classification schema								
Storage/Format Planning	Existing systems								
	Future approach								
Retention and Disposal	Business requirements								
	Disposal Authority								
	Implementation Plans								
	Disposal Schedule								

+ Discover



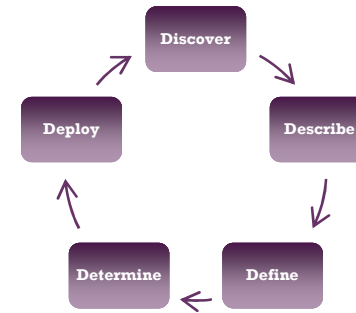
6

Discover what data assets exist and how they are used

- Map core business process data and artefacts to identify the point(s) in core business processes where active use of data diminishes.
- Determine what **datasets** are authoritative
- Determine what **data formats** are authoritative



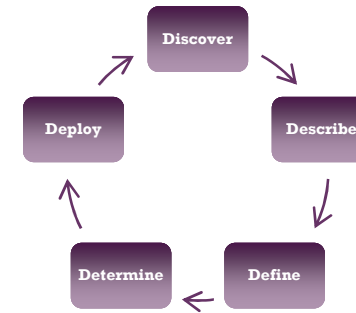
+ Describe



Describe, characterise and label those data assets

- Develop or extend your metadata schema to include lifecycle management. Metadata includes retention period, trigger and disposal action
- Use metadata to enable data matching across systems. Data in one is metadata in another.
- You'll also need a function/activity business classification schema, so you can group things

+ Define

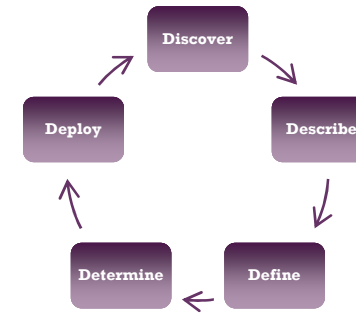


8

Identify and **define** business and legal requirements associated with the data assets

- Identify availability requirements for core datasets. Is it mission critical? How long will we need it, who needs it, and in what format?
- Assess the risk associated with data and data lifecycles. What happens if the data is not available? If it's wrong? If we got rid of it already?

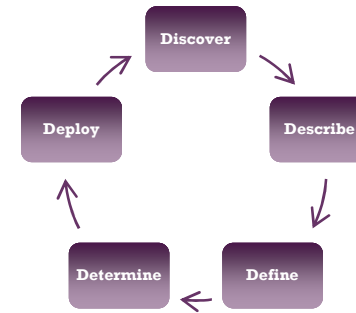
+ Define, cont.



9

- Establish a legislative framework for data lifecycle management
 - What records do we need to maintain? Which of them must be maintained beyond the lifespan of individual systems? How must we manage them?
- Plan for how to implement disposal
 - What formats and repositories? How to consolidate data into records? Do we use pre-disposal tiered storage?

+ Determine

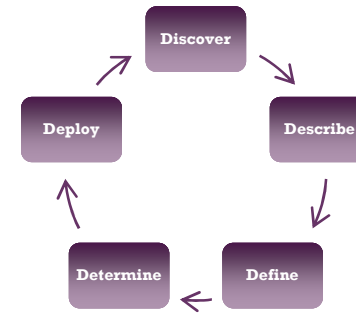


10

Determine how you will manage the lifecycle, through principles, policies and rules for data assets

- Develop or extend principles. Examples might include:
 - Information will only be managed for only as long as it is required, and only as comprehensively as required.
 - Information that provides evidence of a transaction or business decision is deliberately managed throughout its lifecycle in such a way that it is complete, authentic, reliable, comprehensive, useable, tamperproof and has integrity (*we'll look at what this means for databases*)
 - Data and information assets will be managed throughout the lifecycle in accordance with security requirements (*note that this can change over the data lifecycle*)

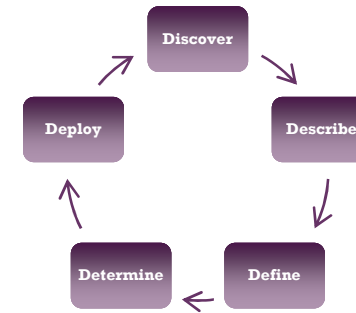
+ Determine, cont.



11

- Develop or extend other necessary policies, for example:
 - Lifecycle management policies: ie: automated systems management; storage; roles and responsibilities; decommissioning and migration
 - Records management
 - Metadata management (so that retention, triggers and disposal is captured)
- Develop business rules and guidance

+ Deploy

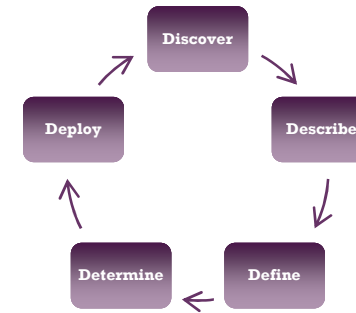


12

Deploy lifecycle management elements and artefacts to actively manage data assets over their lifecycle

- Map lifecycle artefacts (metadata, disposal classes, etc) to existing systems, and identify appropriate formats, so that...
- ...data is stored in the format and repository suitable to its value at any given point in its lifecycle

+ The 'silent sixth D'



13

- **Do** it again, and keep doing it!
- Managing data lifecycles should become part of your overall data governance, data quality or information asset management programme

+ EDW: Summary

**ENTERPRISE
DATA WORLD**



THE TRANSFORMATION TO
DATA-DRIVEN BUSINESS
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- Next year: San Diego
- Is it worth it? Yes, if your context is a large(ish) organisation
- Who to send? Those involved in governance or architecture
- What to expect: Extremely diverse content, lots of case studies, and many ‘data celebs’

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