OVERVIEW OF DMBOK V2

CDI Data Management meeting

Lowell W. Fryman, CBIP-CDMP
Practice Principal
lowell.fryman@collibra.com
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Agenda

• Why do we need the DMBOK?
• What is the purpose?
• What are the DM knowledge areas discussed?
• How do the knowledge areas interact?
• How should you leverage the DMBOK?
Data Management Body of Knowledge (DAMA-DMBOK Guide) is a collection of processes and best practices.

Contains generally accepted as best practices and references for each Data Management discipline.

Data Management (DM) is an overarching term that describes the processes used to plan, specify, enable, create, acquire, maintain, use, archive, retrieve, control, and purge data.

These processes overlap and interact within each data management knowledge area.

Why the DMBOK
The current DM environment can be a confusing combination of terms, methods, tools, opinion, and hype.

To mature this discipline, DAMA International’s Guide to the Data Management Body of Knowledge (DAMA-DMBOK) provides concepts and capability maturity models for the standardization of:

- Activities, processes, and best practices
- Roles and responsibilities
- Deliverables and metrics
- A maturity model

Standardization of data management disciplines will help data management professionals perform more effectively and consistently.
DMBoK 2 – Knowledge Areas

Figure 1. The DAMA-DMBOK2 Guide Knowledge Area Wheel
Data Management Knowledge Areas

The 11 Data Management Knowledge Areas are:

• **Data Governance** – planning, oversight, and control over management of data and the use of data and data-related resources. While we understand that governance covers ‘processes’, not ‘things’, the common term is Data Governance, and so we will use this term.

• **Data Architecture** – the overall structure of data and data-related resources as an integral part of the enterprise architecture

• **Data Modeling & Design** – analysis, design, building, testing, and maintenance (was Data Development in the DAMA-DMBOK 1st edition)

• **Data Storage & Operations** – structured physical data assets storage deployment and management (was Data Operations in the DAMA-DMBOK 1st edition)

• **Data Security** – ensuring privacy, confidentiality and appropriate access to PII, PHI and an individuals private data. Ensuring network security as well
Data Management Knowledge Areas

• **Data Integration & Interoperability** – acquisition, extraction, transformation, movement, delivery, replication, federation, virtualization and operational support (a Knowledge Area new in DMBOK2)

• **Documents & Content** – storing, protecting, indexing, and enabling access to data found in unstructured sources (electronic files and physical records), and making this data available for integration and interoperability with structured (database) data.

• **Reference & Master Data** – Managing shared data to reduce redundancy and ensure better data quality through standardized definition and use of data values.

• **Data Warehousing & Business Intelligence** – managing analytical data processing and enabling access to decision support data for reporting and analysis.

• **Metadata** – collecting, categorizing, maintaining, integrating, controlling, managing, and delivering metadata.

• **Data Quality** – defining, monitoring, maintaining data integrity, and improving data quality.
How do the knowledge areas interact

- Interaction occurs through Data Governance processes
  - Data Governance is recognized as the coordinating knowledge area
  - DG processes and resources are leveraged across knowledge areas
  - Common roles and responsibilities can be leveraged across area
  - Common DG technology & Business Glossary
- Example: Reference & Master Data Governance:
  - Determining systems/data of record
  - Determining and managing business rules
  - Exception handling
  - Metrics
  - Government Regulations and Industry Standards
Using the DMBoK

• The chapter for each knowledge area provides
  – Activities, processes, and best practices
  – Roles and responsibilities
  – Deliverables and metrics
  – A maturity model
• The objective is to provide best practices and standards that can help organizations increase their overall maturity in DM
Summary

• 2017 version has expanded DM to 11 Knowledge Areas (from 10)

• Data Governance has a greater focus and identified interactions in each Knowledge Area

• Each knowledge area identifies
  – Activities, processes, and best practices
  – Roles and responsibilities
  – Deliverables and metrics
  – A maturity model

• DMBoK can be purchased at https://technicspub.com/dmbok/

• Stay calm and allow your DG program to prosper
Business Data Authority

Data governance & stewardship provide the right level of control and trust in data

**Data infrastructure (IT)**

**LEADERSHIP**
CIO

**ROLES**
Information Manager, Data Architect, Data Modeler

**TECHNOLOGY**
Hadoop, Databases, Data Integration

**DATA AUTHORITY**

**LEADERSHIP**
Chief Data Officer

**ROLES**
Data Governance Manager, Data Steward

**TECHNOLOGY**
Data Stewardship Platform

**Data Consumers (Business)**

**LEADERSHIP**
CEO, CFO, VP, Marketing

**ROLES**
Data Scientist, Business Analyst

**TECHNOLOGY**
Visualization, Self-service BI
Leading data governance software company

Collibra is a high-growth company with an international mindset and customers worldwide

185
Collibrians

280%
Year-On-Year Growth
Collibra named a leader by the leading analysts

Gartner Market Guide for Information Stewardship

Gartner Magic Quadrant for Metadata Management

2016 Forrester Wave report for data governance
Collibra: the system of record for data change agents

Know where the data comes from
Find

Catalog

Data Dictionary

Know what the data means
Understand

Business Glossary

Reference Data

Know that the data is right
Trust

Policy Manager

Data Helpdesk

Stewardship

All activities and information surrounding the data, its meaning and its use.
Data Governance Center Integration

- Connects to your current and future surrounding landscape
- Automates compliance
- Synchronizes information
- Eliminates manual work

**IT Service Management**
- IBM, Informatica, Trillium
- ServiceNow, JIRA

**Data Quality**
- IBM, Informatica, Trillium

**Big Data Platforms**
- Hadoop, Cassandra

**Consumption**
- Sharepoint, Portals, Data Warehouse

**Master Data Management**

**Data Integration**
- IBM, Informatica

**Reporting**
- Cognos, Oracle, Tableau

**Enterprise Architecture Tools**
DGC 5.0: Collibra Catalog
QUESTIONS?
THANK YOU