



Data Governance

A short introduction

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DMS Consulting Ltd.

- Established in 2004
- Data, Management, Systems, Consulting
- Mostly DW/BI, metadata management & data governance
- Planning, implementation, consulting, training
- Microsoft, Oracle, Teradata, etc.

Gábor Gollnhofer

- Since 1996 working with DW and large data systems
- Member of TDWI and ACM, Certified Data Vault Data Modeler

Very short introduction to Data Governance

Today's hot topic terms are Big Data and Analytics, Data Warehousing, Self-service BI.

Still, to be able to handle and analyze the collected data and do not spend on unnecessary things, we have to know what do we have, what it's worth and what does it cost.

One of the major goal of Data Governance it to answer these questions.

Topics

Introduction



Why data „assets“?

What is Data Governance?

- Terms, building elements
- Tools

How to start?

Conclusions

Q & A

The value of the data – Why data „asset”?

Raw data:

- 9/11
- AA11
- UA175
- AA77
- UA93

Do you know
the meaning?

The value of the data – Why data „asset”?

Raw data:

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An example on handling (data) assets



Original from: [wikimedia](#)

Summer, autumn:

1. Collect food
2. Make some depots
3. Hide food in it

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Summer, autumn:

1. Collect food
2. Make some depots
3. Hide food in it

Winter:

1. Searching
2. Not founding!
3. Found (some of) it (eventually 😊)

What is data governance?

Data Governance has to deal with:

- availability,
- usability,
- integrity (and quality),
- security

of the managed data.

What is data governance?

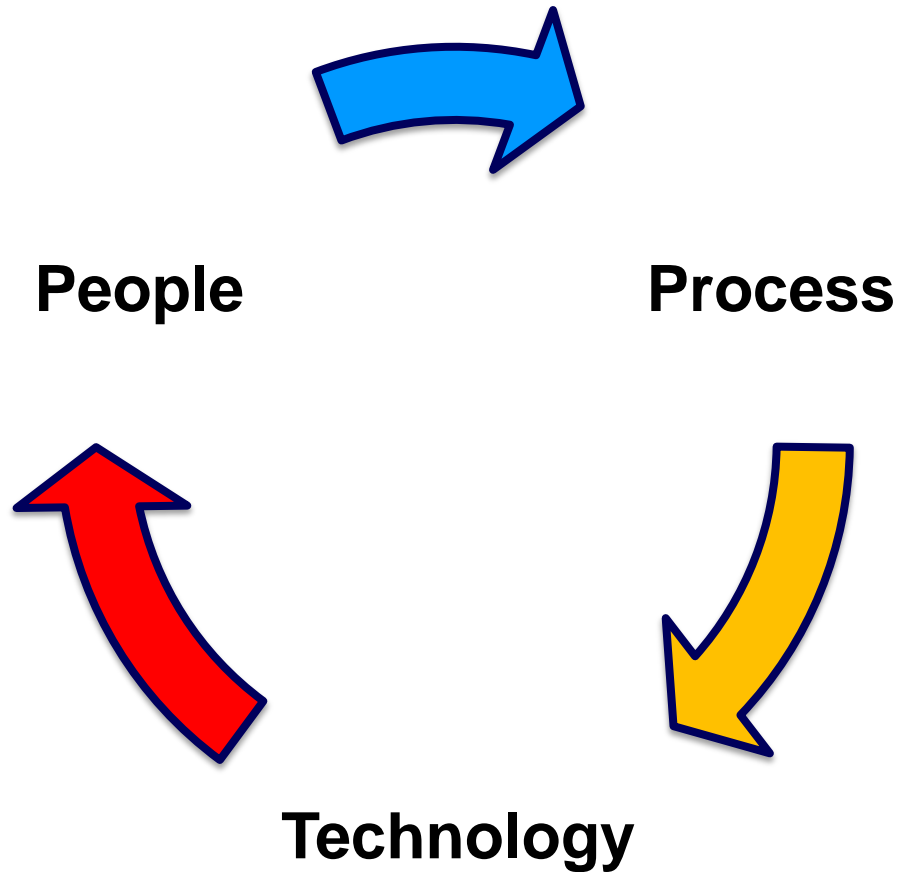
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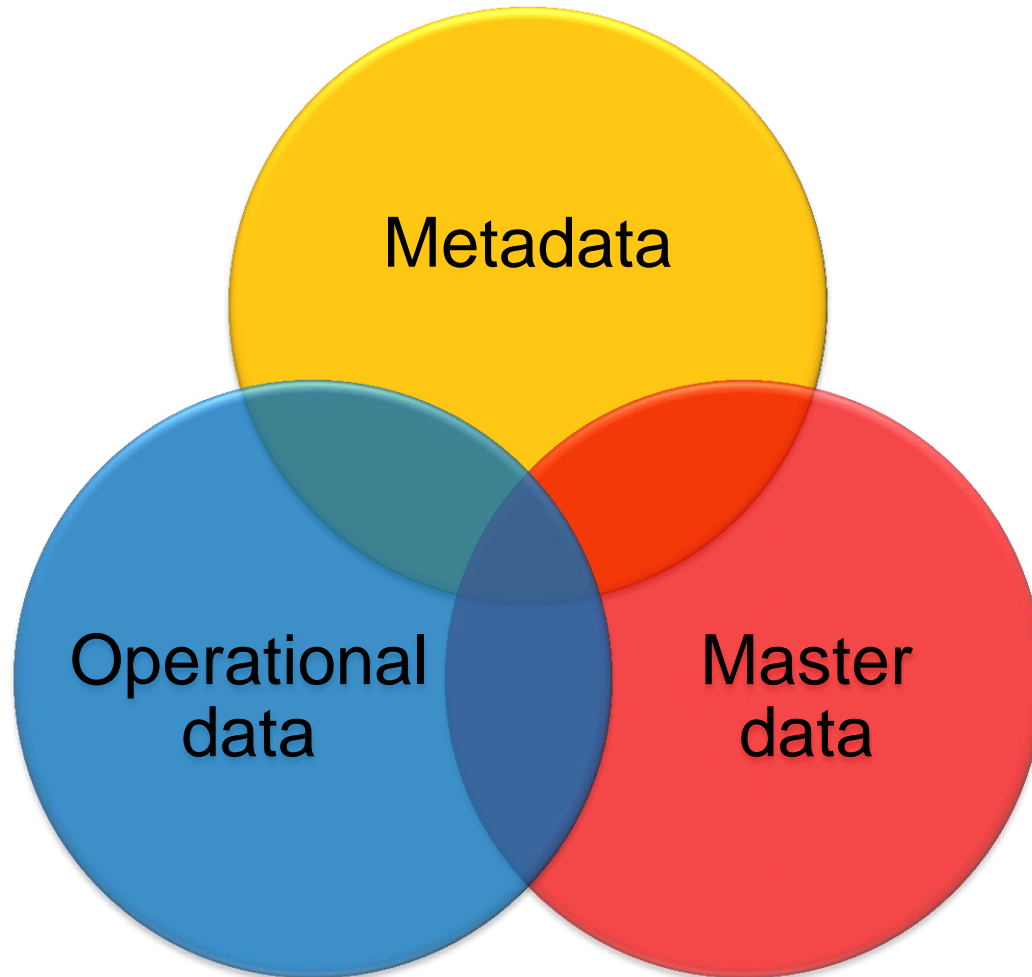
of the managed data.

These are not only technology related topics!
But business and even legal (e.g. handling of personal data; „Right to be forgotten” in EU)

Elements of Data Governance



Data elements of the “data assets”



Tools

„Soft” tools

- Business Glossary, definitions and ontologies
- Process descriptions, rules (business and IT), documentations
- Trainings!

„Hard” tools

- Master Data Management (MDM) and/or Customer Data Integration (CDI) & Product Data Management (PDM)
- Metadata Management (business & technical)
- Access Management (rights/policies and logging/auditing)
- Archiving tools and processes (e.g. anonymize)
- Catalogs (e.g. system map)
- Data Quality Management
- Etc.

How to start?

Mandatory elements of a good DG program:

- Governing body,
- Well defined processes,
- Plans for execution

What is required?

- A good sponsor (more is better)
- Patience, good negotiation skills
- Cooperation between business and IT
- Cooperation between separate business areas (& people)!
- Dedicated resources (people, time, money)

Key elements

Cross-functional team

- Business & IT people
- Cooperation
- Communication

Supportive organization

- Data stewards (named & trained)
- DG Competency Center or Center of Excellence

Supporting technology

- e.g. metadata repository, document management system, workflow support, etc.

Challenges

„Soft”

- Company culture
- Lack of cooperation
- Either “It’s my data!” or “Whose data is it?”

„Hard”

- Missing or inconsistent business definitions
- Bad or missing documentations on systems, processes, interfaces
- Data quality problems
- Constantly changing systems, processes, organization

When to start? When is it used to be started?

The earlier, the better! 😊

When there are external expectations:

- From the owners
- From supervisory bodies

When it bothers the top management to:

- Not getting answers to their question (in time)
- Getting inconsistent answers

But:

- Do an assessment of the current state (Where we are?)
- Define where do we want to be in the future; and plan the route and how fast to go.

Conclusions

Data Governance is a “upcoming” area, because:

- The volume and variety of data collected are growing
- Having more and more complex systems (sometimes even with inconsistent data)
- The related processes are getting more complicated

Data Governance...

- ...helps to “rule the chaos” 😊
- ...allows to handle that data, that way and till that time while it is required by answering data management related questions from business, technology and even legal areas
- ...consists of people, processes and technology solutions

Could be implemented in small steps!

Questions & answers



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