


# Introducing Data Governance To Large Corporations

**Data Challenges And A Possible Data Governance Model**

2nd Business Intelligence, Analytics and Data Management Summit, Vienna

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# Data Challenges In Large Corporations?



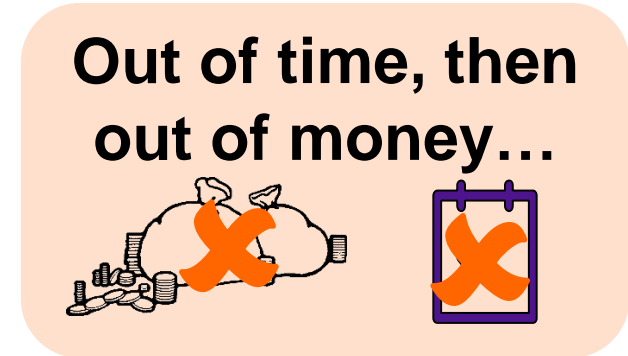
Let's assume you are A BIG  
company's NEW ChIEF data  
OFFICER...

# Data Challenges In Large Corporations?

Not everything that  
would make sense  
actually gets done.  
*Why?*

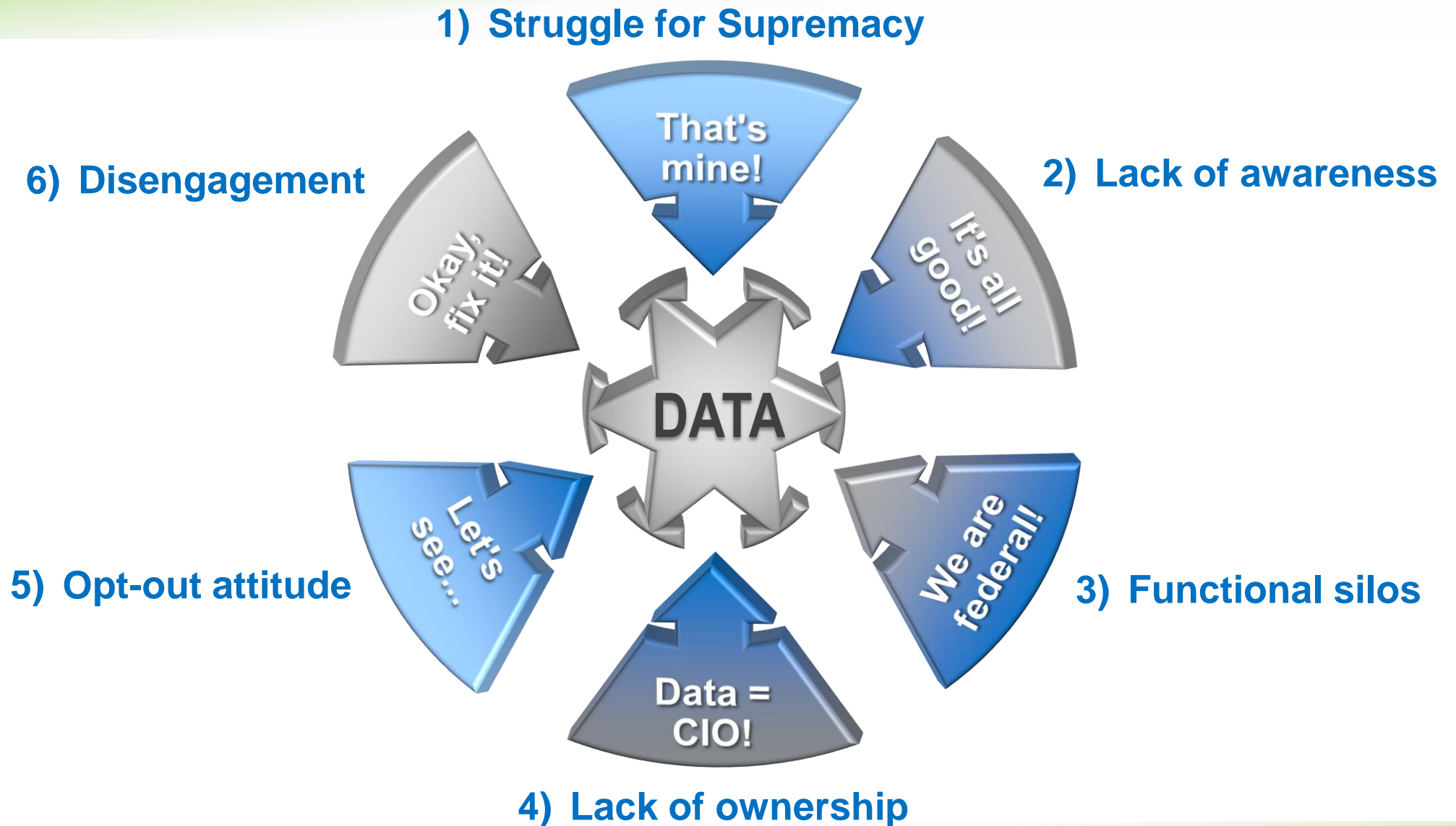
Not everything that  
gets done is done the  
way it should be.  
*Why?*

# Why Do Data Projects Fail? A Report...



**What happened to this project???**

# Challenges In Managing Data: Typical Patterns



**Companies don't  
get self-organised  
like anthills**

**People need  
guidance, rules  
and motivation**

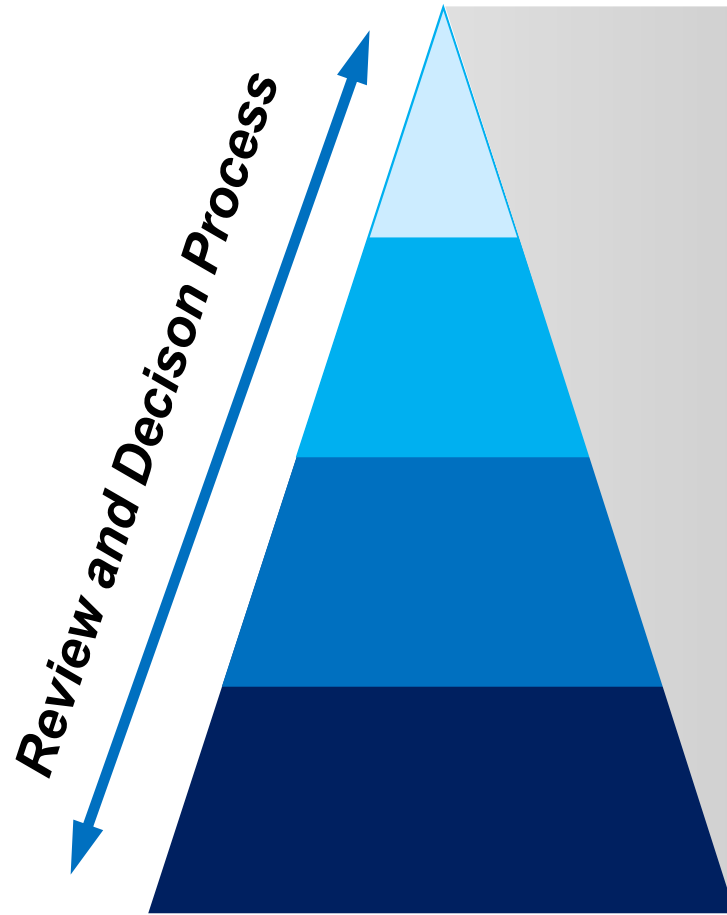
**→ Data  
Governance!**



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# (1) Responsibilities & Ownership

## *Data Roles Across All Hierarchy Levels*



1. **Management Board** as final **escalation** body, as well as for **strategic Board-level** decisions
2. **Executive Data Decision body**  
2nd hierarchy level; cross-functional!
3. **Data Collaboration group** on 3rd hierarchy level; to develop concepts; to review, propose, decide
4. **Data Community**: Subject matter experts work together, exchange knowledge, come up with ideas and proposals

**Define the  
roles of the  
CDO and  
the Data  
Office!**

## (1) Responsibilities & Ownership *Avoiding Silo Thinking*



### **Data Owners**

Responsible for an entire area of the data model.  
Needs to align across all business functions.

Example: **Data Owner of “Customer”**

### **Data Champions**

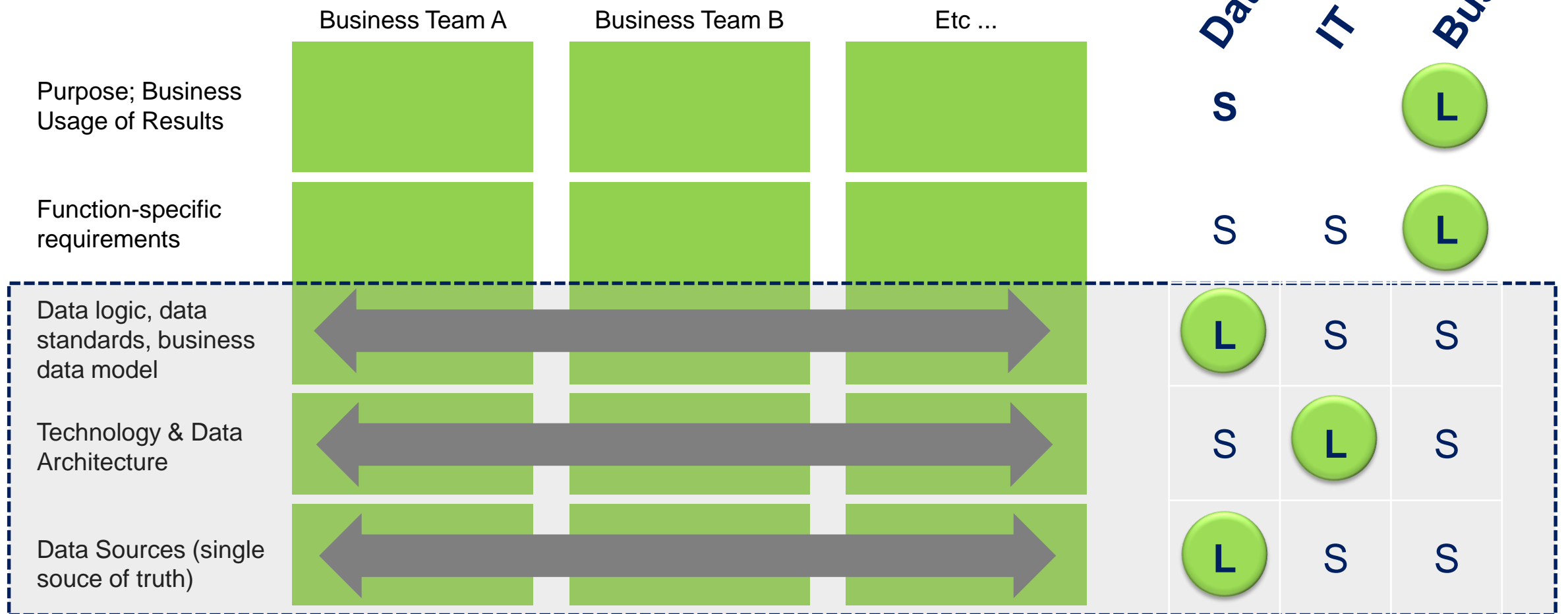
Representing one single business function in any data discussion.

Example: **Data Champion for “Marketing”**



# (1) Responsibilities & Ownership

## *A Possible Model To Overcome Silos*



 = Foundation. This is a central Data Office's responsibility!

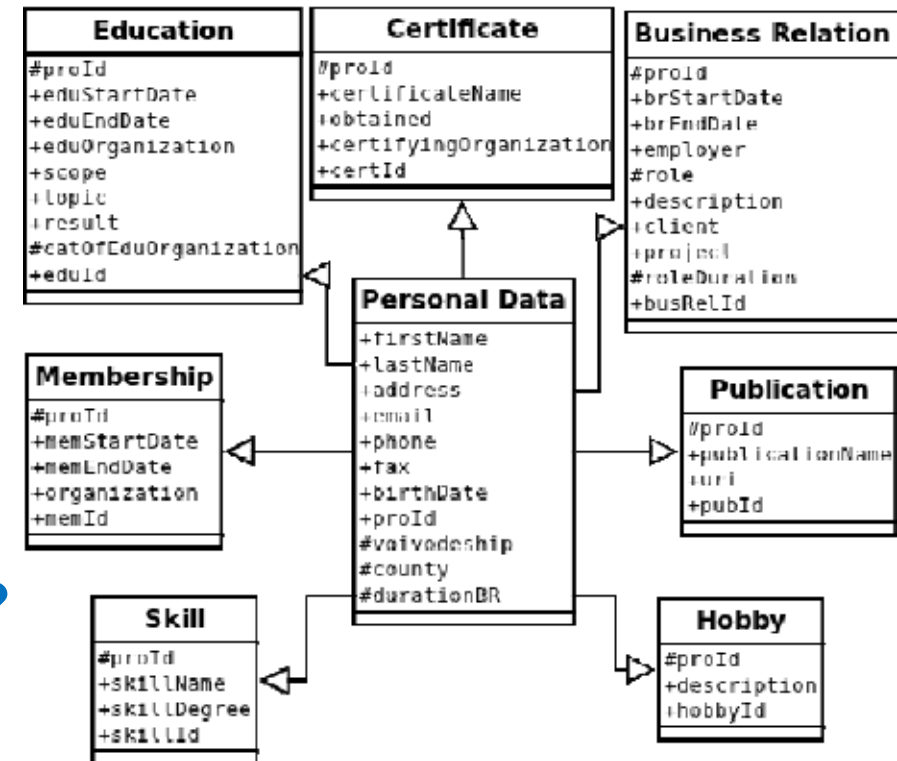
L = Lead; S = Support

## (2) Data Under Control *Manage The Structure Of All Data*



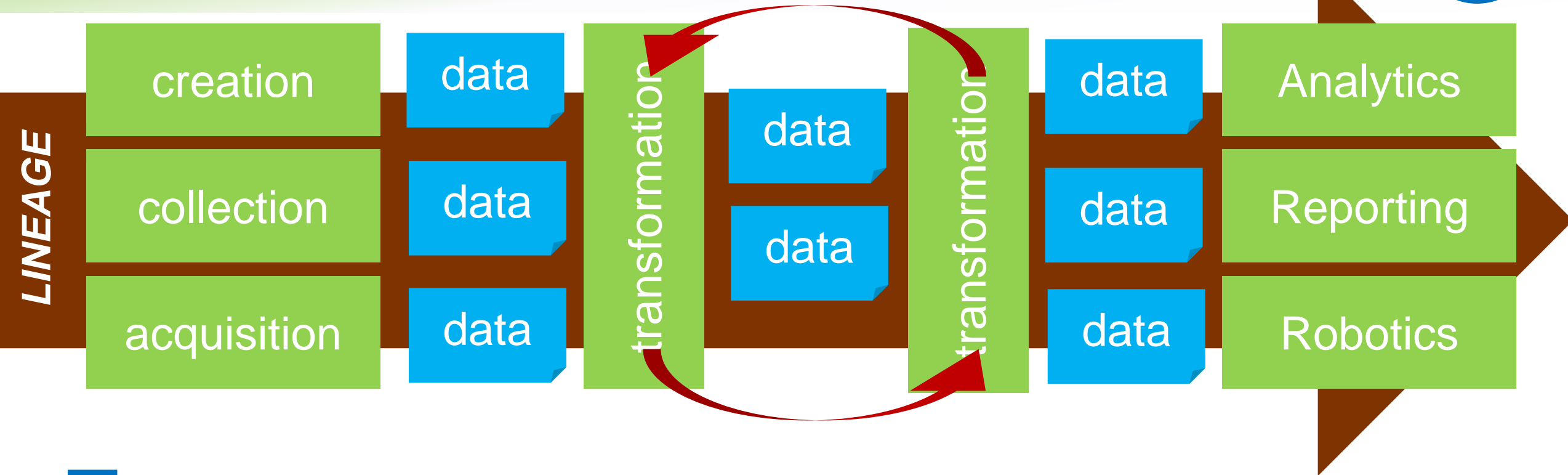
### Data Model changes:

- Who needs to check?
- Who must approve?
- What is the downstream impact?
- What needs to be universally defined?
- What needs to be kept flexible?
- Does the data logic reflect business logic?



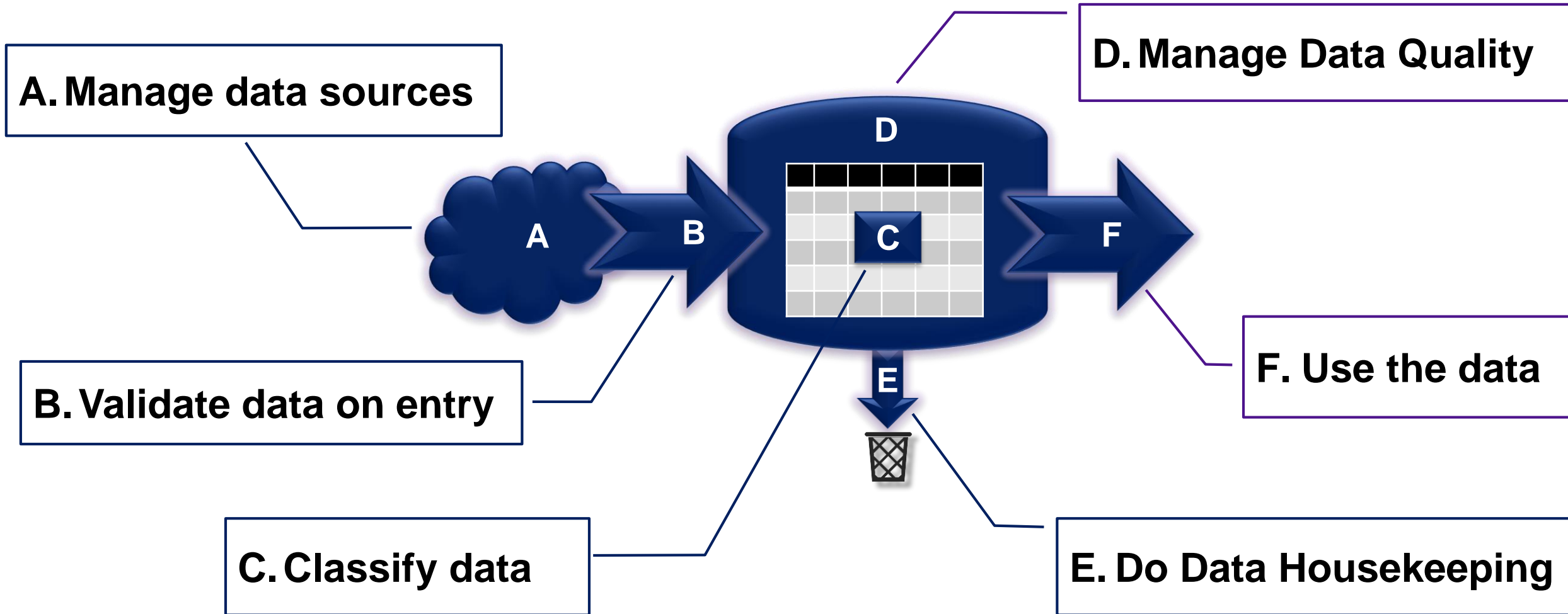
**Don't exclude Big Data!**

## (2) Data Under Control *Manage The Single Source Of Truth*



- The **Initial creation** or acquisition needs to be defined unambiguously (origin, rules, timestamp)
- The **journey** from one repository to another must be well-documented (including timing)
- Any **manipulation** of data needs to be **published**, if the output can be used by multiple consumers
- **Ageing** needs to be well-defined: As of when is data considered “outdated” or up for review?

### (3) Covering All Aspects Of Data *Manage The Entire Data Supply Chain*



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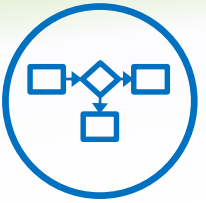


If a Chief Data Officer acts as a Chief *Analytics* Officer, your managed data supply chain may look like this:



## (4) Processes

### *Well-Described Processes*



- ➔ Start with high-level process groups. Then break down and refine.
- ➔ Define a change process for processes (including the change process...)

#### *Typical Process Groups*

- Data **Support** processes
- Data **Change** processes (for format and content)
- Data **Project Review** processes
- Data **Gate** processes (pass or reject)
- Data **Glossary** Processes
- Data **Access Request** processes
  - for operational activities
  - for Analytics
- Data **Quality** processes (defining, checking, action)

## (5) Collaboration Model

### *Two Different Audiences At All Levels*



Level	DATA VIEW	BUSINESS VIEW
Collaboration	<b>a) Data Networks</b> <ul style="list-style-type: none"><li>• Data Creators Network</li><li>• Data Consumers Network</li></ul>	<b>a) Collaboration Workgroup</b> <ul style="list-style-type: none"><li>• Reviews, proposals, agreements</li><li>• Team Leads and Senior Experts</li></ul>
Management	<b>b) Data Forum</b> <ul style="list-style-type: none"><li>• Review of actions, progress</li><li>• Approval and escalation</li></ul>	<b>b) Data Management Council</b> <ul style="list-style-type: none"><li>• Update, review and feedback</li><li>• Data Owners and Functional Heads</li></ul>
Executive	<b>c) Executive Briefings by the CDO</b> <ul style="list-style-type: none"><li>• Current status and new ideas</li><li>• Technical executives like CIO, CTO</li></ul>	<b>c) Data Strategy Board</b> <ul style="list-style-type: none"><li>• Information, Approval, Escalation</li><li>• Management Board incl. CDO</li></ul>

## (6) Data Guidelines

### *A Checklist For Data Structure And Quality*



*Example: Does Your Data Meet The “USA” Criteria?*

U	S	A
<input type="checkbox"/> Understandable	<input type="checkbox"/> Stable	<input type="checkbox"/> Available
<input type="checkbox"/> Understood	<input type="checkbox"/> Secure	<input type="checkbox"/> Authorized
<input type="checkbox"/> Up-to-Date	<input type="checkbox"/> Structured	<input type="checkbox"/> Accurate
<input type="checkbox"/> Unambiguous	<input type="checkbox"/> Sustainable	<input type="checkbox"/> Accepted

**You should build your own checklist!**



## (6) Data Guidelines

### *The “Data Constitution”*



#### **Data Guidelines are meant to “cover the unknown”**

- Generic principles! Concrete direction to be derived on demand
- Make people think themselves

#### **Data Guidelines should be easy to digest**

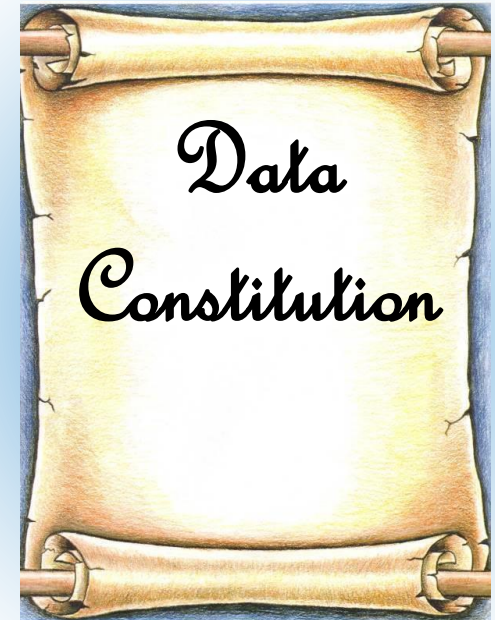
- Headlines alone should be clear
- Think of a catchy name that people remember

#### **Data Guidelines must have authority**

- They should be explicitly endorsed by the Board
- People should be able to refer to this list

#### **Data Guidelines must be broadly accepted**

- Develop them together with all stakeholders
- Data Guidelines should match relevant IT principles



## (6) Data Guidelines

### The “Data Constitution” – “10 Principles” As An Example



- PRINCIPLE 1 → Focus on Business Opportunities
- PRINCIPLE 2 → Data is Cross-functional
- PRINCIPLE 3 → Single Source of Truth
- PRINCIPLE 4 → Minimize Duplication of Data
- PRINCIPLE 5 → Harmonize Data Structures
- PRINCIPLE 6 → One Common Language
- PRINCIPLE 7 → Adopt Industry Standards
- PRINCIPLE 8 → Single Foundation for Analytics
- PRINCIPLE 9 → Sustainable Data Quality
- PRINCIPLE 10 → Standardize!

**Encourage  
teams to  
refer to any  
of these!**

## (7) Data Literacy and Buy-In

### *Three Aspects Of "Getting Everybody On Board"*



#### 1) Publish!

- Make all artefacts easily available to all stakeholders
- Use the existing infrastructure: Intranet, Sharepoint, ...

#### 2) Train!

- Create a Data Academy. Re-use existing training infrastructure if possible
- Make courses mandatory, including certification for data-related roles

#### 3) Communicate!

- Sell Data pro-actively
- Use all internal communication channels
- Repeat the message!

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**Thank You!**