



POSEDIO

Your guiding light to innovation

WE TRIED TO SELL A CAKE FOR 1 BILLION €

...Then we decided to build a data mesh

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WHY DATA MESH?

1. The story of the billion-euro cake
2. Data everywhere and not a drop to be used
3. How would a data mesh help?
4. The REWE Data Platform



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THE STORY OF THE BILLION- EURO CAKE



WHY A CAKE

- Obvious data error
- Requires collaboration between different departments
- Sensitive data (prices)
- Difficult to propagate the fix through all the systems



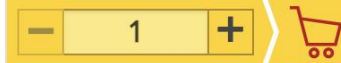
**Coppenrath & Wiese
Feinste Sahne**
1400 g Stk

18⁹⁹€
1 kg 13,56 €



**Coppenrath & Wiese
Minions Pinata Torte**
590 g Schachtel

13¹⁹€
1 kg 22,36 €



**Coppenrath & Wiese
Lust auf Torte**
390 g Schachtel

9¹⁹€
1 kg 23,56 €



**Coppenrath & Wiese
Feinste Sahne**
1220 g Karton

18⁹⁹€
1 kg 15,57 €



**Ulreich Sacher Art
Torte**
950 g Karton

13⁹⁹€
1 kg 14,73 €



**Ulreich
Schwarzwälder**
1400 g Karton

26⁹⁹€
1 kg 19,28 €












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DATA EVERYWHERE AND
NOT A DROP TO BE USED



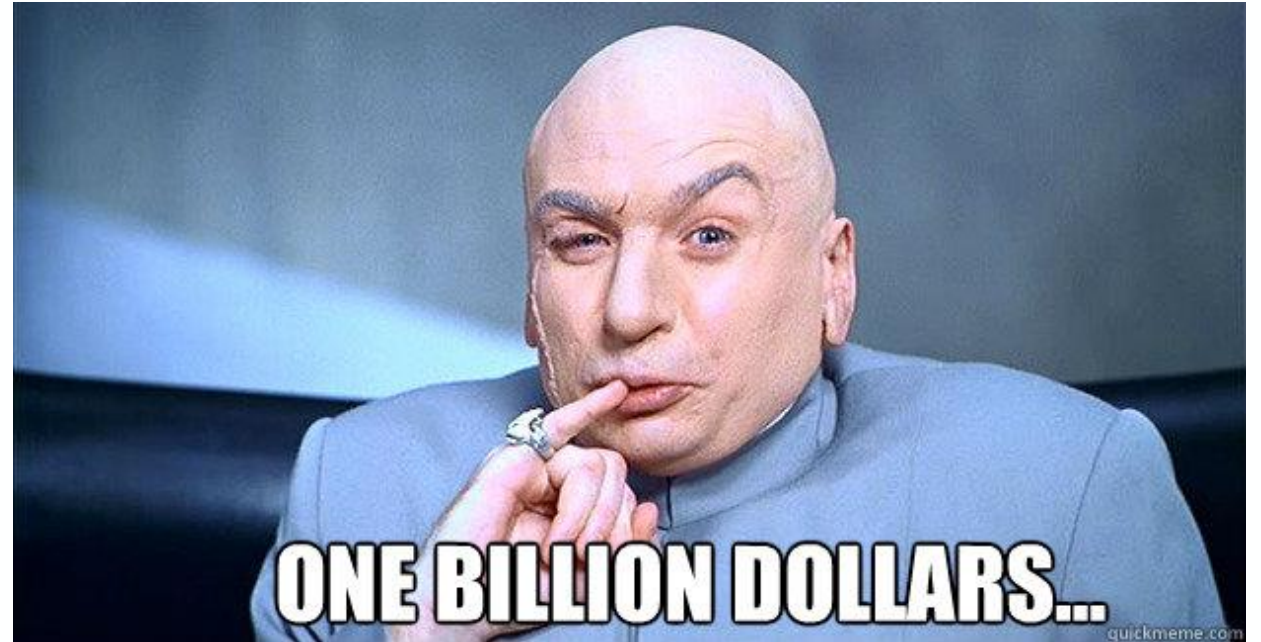
MEANING

- Data is scattered across teams
- Meaning is unclear or different outside the context of the team

 <p>Coppenrath & Wiese Feinste Sahne 1400 g Stk</p> <p>18⁹⁹€ 1 kg 13,56 €</p> <p>− 1 + </p>	 <p>Coppenrath & Wiese Minions Pinata Torte 590 g Schachtel</p> <p>13¹⁹€ 1 kg 22,56 €</p> <p>− 1 + </p>	 <p>Coppenrath & Wiese Lust Auf Torte 390 g Schachtel</p> <p>9¹⁹€ 1 kg 23,56 €</p> <p>− 1 + </p>
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QUALITY

- Quality gates do not exist, data is not checked
- Data graveyards
- By-product of the operational processes



SECURITY

- Some data is sensitive
- Usage of some data must be tracked and reported
- The people that produce the data are not always aware of all the rules

EXTERNAL USER ACCESS REQUEST FORM				
Effective Date: ____/____/____				
All NEW requests must be accompanied by a completed User Affirmation Statement (Form 02-002F)				
I. Security Access Requirements:				
Mainframe/PMMIS:	<input type="checkbox"/> New User	<input type="checkbox"/> Change User	<input type="checkbox"/> Delete User	
Network:	<input type="checkbox"/> New User	<input type="checkbox"/> Change User	<input type="checkbox"/> Delete User	
II. User Information:				
Name: _____		_____		
(Last)		(First)	(MI)	
Title: _____		Phone: _____		
Email: _____		Consultant <input type="checkbox"/> Other _____		
III. Mainframe Access Requirements:				
Group #	Worker ID	Type	Site	Control D <input type="checkbox"/>
				(PMMIS Mainframe Report Access)
E/C Adj Lvl: L= _____		Health Plan ID(s): _____		
Mainframe/PMMIS User ID: _____		Last 4 numbers of SSN: _____		
users) (for all new mainframe)				
IV. Network Access Requirements:				
Protected Directory: <input type="checkbox"/> Path _____ Read <input type="checkbox"/> Write <input type="checkbox"/>				
Fortis: <input type="checkbox"/> Group Name(s): _____				
HEA plus: <input type="checkbox"/> Group Name: _____				
SharePoint: <input type="checkbox"/> Site Name: _____				
Cognos: <input type="checkbox"/> Universe: _____ Universe: _____				
Other Application(s): <input type="checkbox"/> _____				
V. Security Administration:				
Authorized By: x _____			Date: ____/____/____	
Title: _____			MD: _____ Phone: _____	

AVAILABILITY

- Data is difficult to find
- It takes weeks to get access to data
- It takes weeks to give access to data

Column	Datatype	Nullable
FIRMA	CHAR(2)	N
ARTNR	NUMBER(6)	N
VON_DATUM	DATE	N
BIS_DATUM	DATE	N
STATUS	CHAR(1)	N
AEND_CD	VARCHAR2(2)	Y









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HOW WOULD A DATA MESH
HELP?



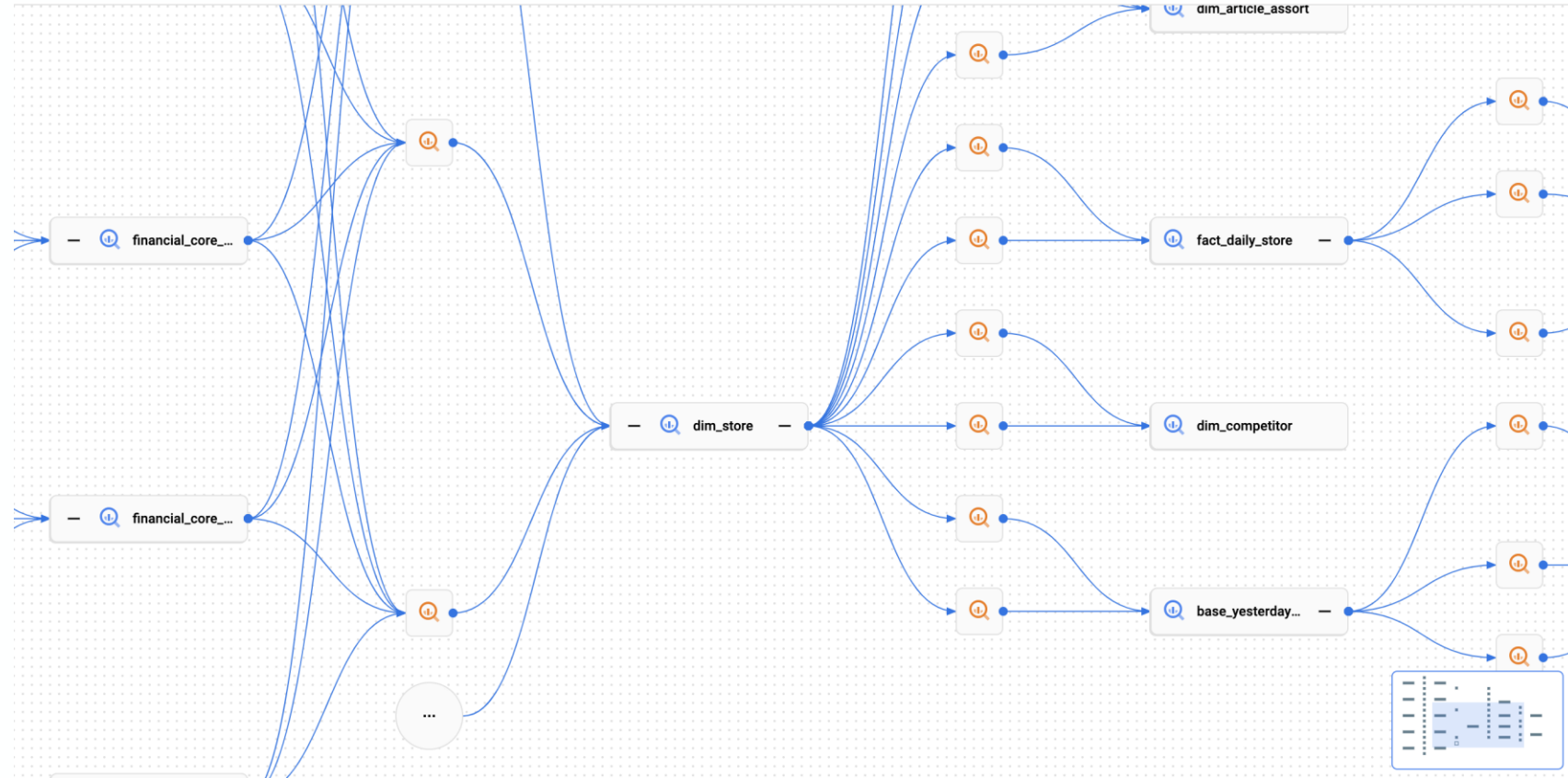
DOMAIN OWNERSHIP

- Article masterdata domain is responsible for all article data
- The team makes the data available to all

 <p>Coppenrath & Wiese Feinste Sahne 1400 g Stk</p> <p>18⁹⁹€ 1 kg 13,56 €</p> <p>1</p>	 <p>Coppenrath & Wiese Minions Pinata Torte 590 g Schachtel</p> <p>13¹⁹€ 1 kg 22,36 €</p> <p>1</p>	 <p>Coppenrath & Wiese Lust auf Torte 390 g Schachtel</p> <p>9¹⁹€ 1 kg 23,56 €</p> <p>1</p>
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DATA PRODUCTS

- The team is responsible for the data quality
- Internal customer satisfaction is tracked
- Tests catch errors



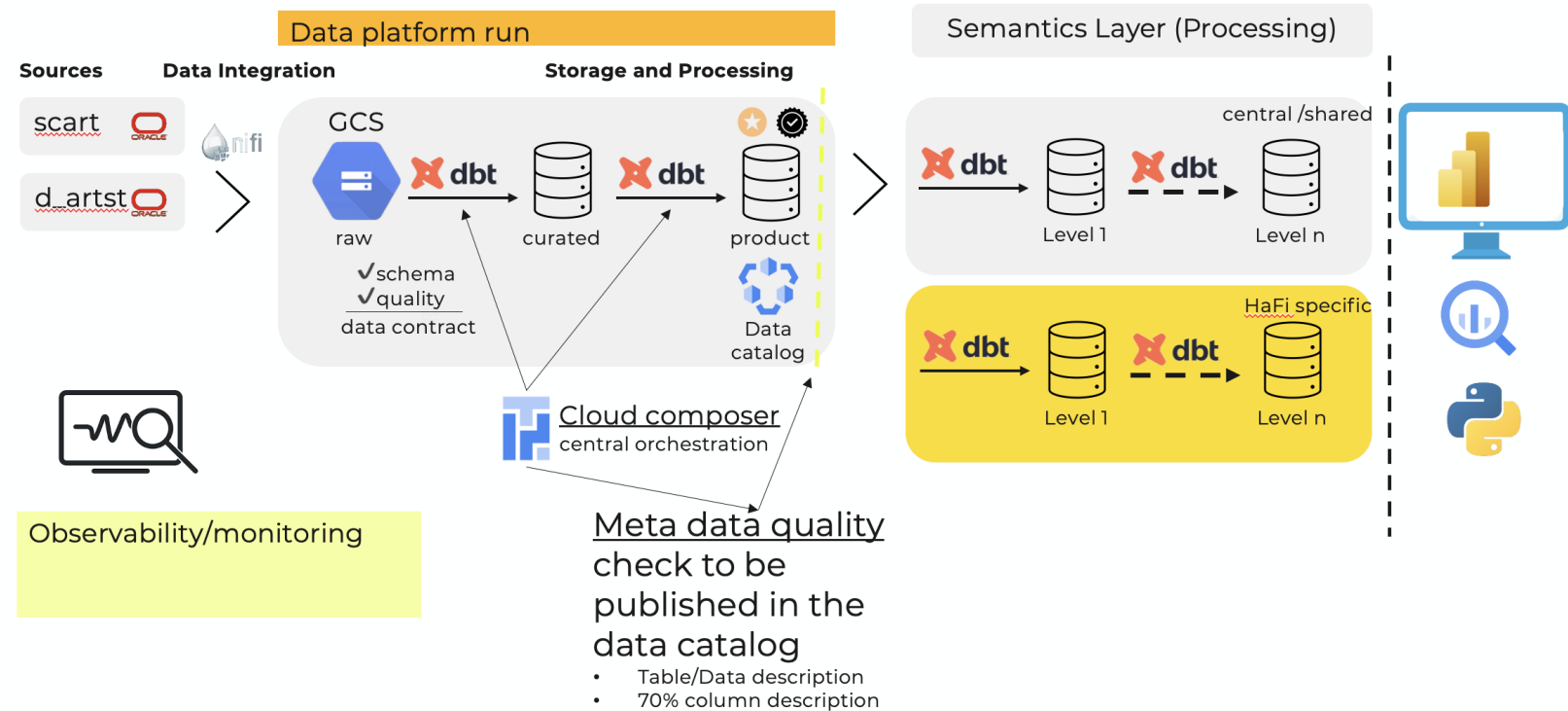
FEDERATED GOVERNANCE

- A governance team decides on rules and access control
- Rules are enforced by the system

Name	Role	Inheritance
Data curation service account	Dataplex Data Reader	 projects/ri-as-
	Dataplex Administrator	 projects/ri-as-
	Dataplex Data Owner	 projects/ri-as-
	Dataplex Data Writer	 projects/ri-as-
	Owner	 data-platform
	Security Reviewer	 data-platform
	Dataplex Administrator	 projects/ri-as-
	Dataplex Data Owner	 projects/ri-as-
	Dataplex Data Writer	 projects/ri-as-

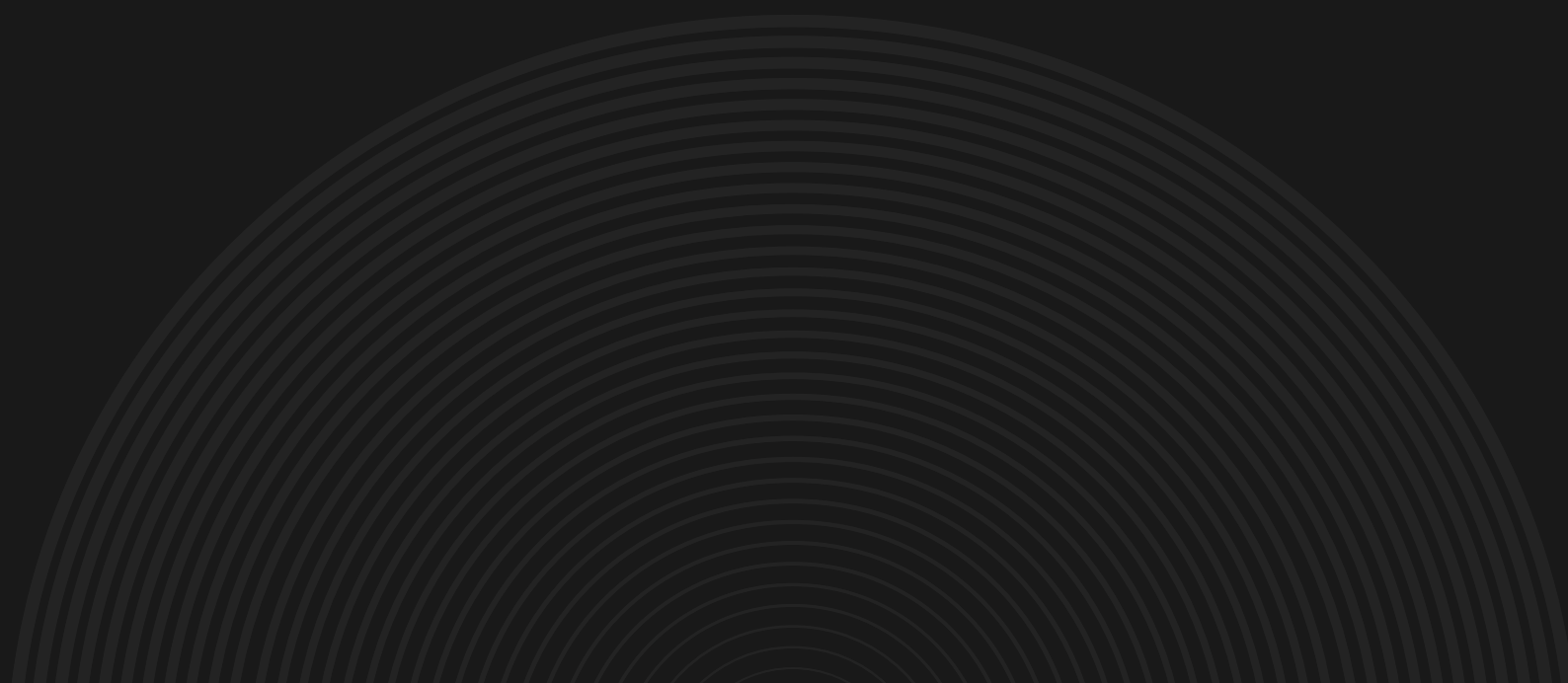
SELF-SERVICE DATA PLATFORM

- Data is easy to find
- Data is easy to publish and consume
- The platform enforces the rules

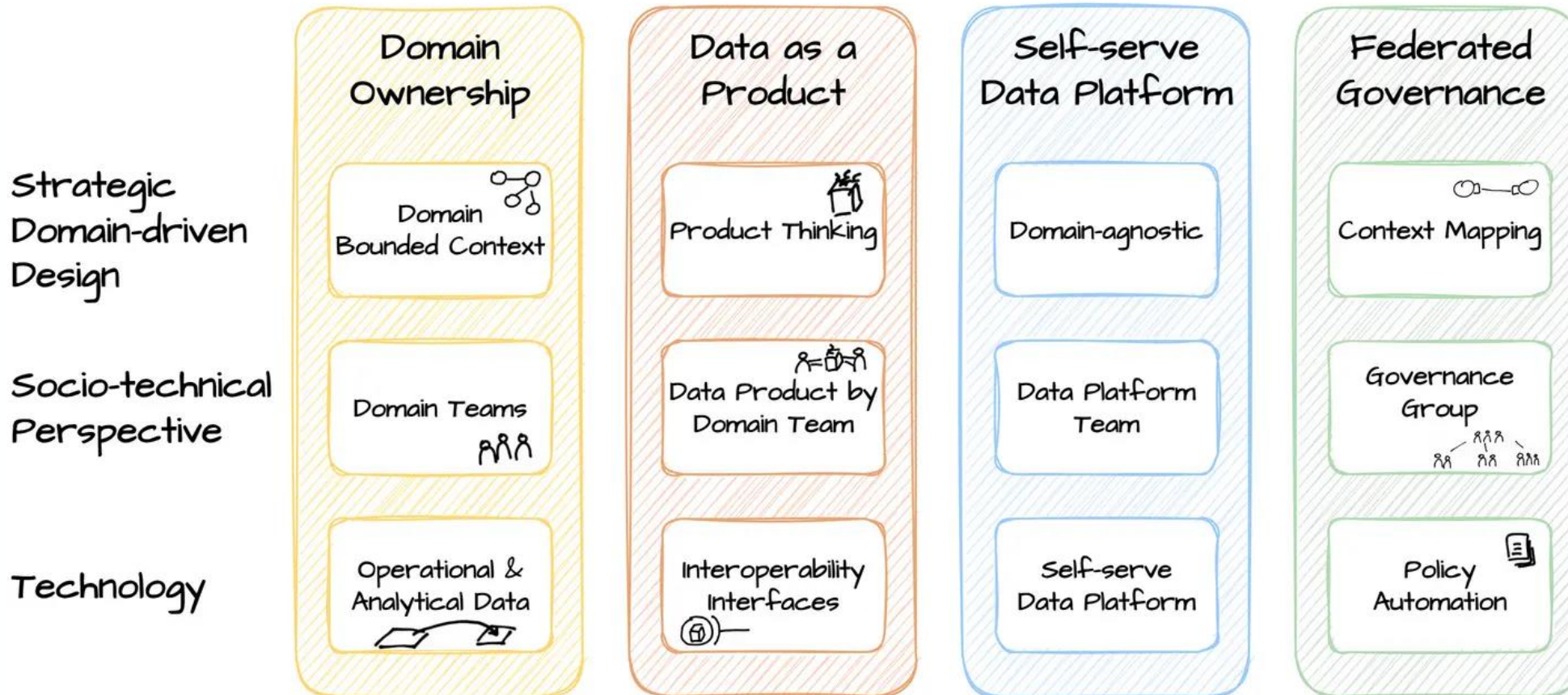




THE REWE DATA PLATFORM



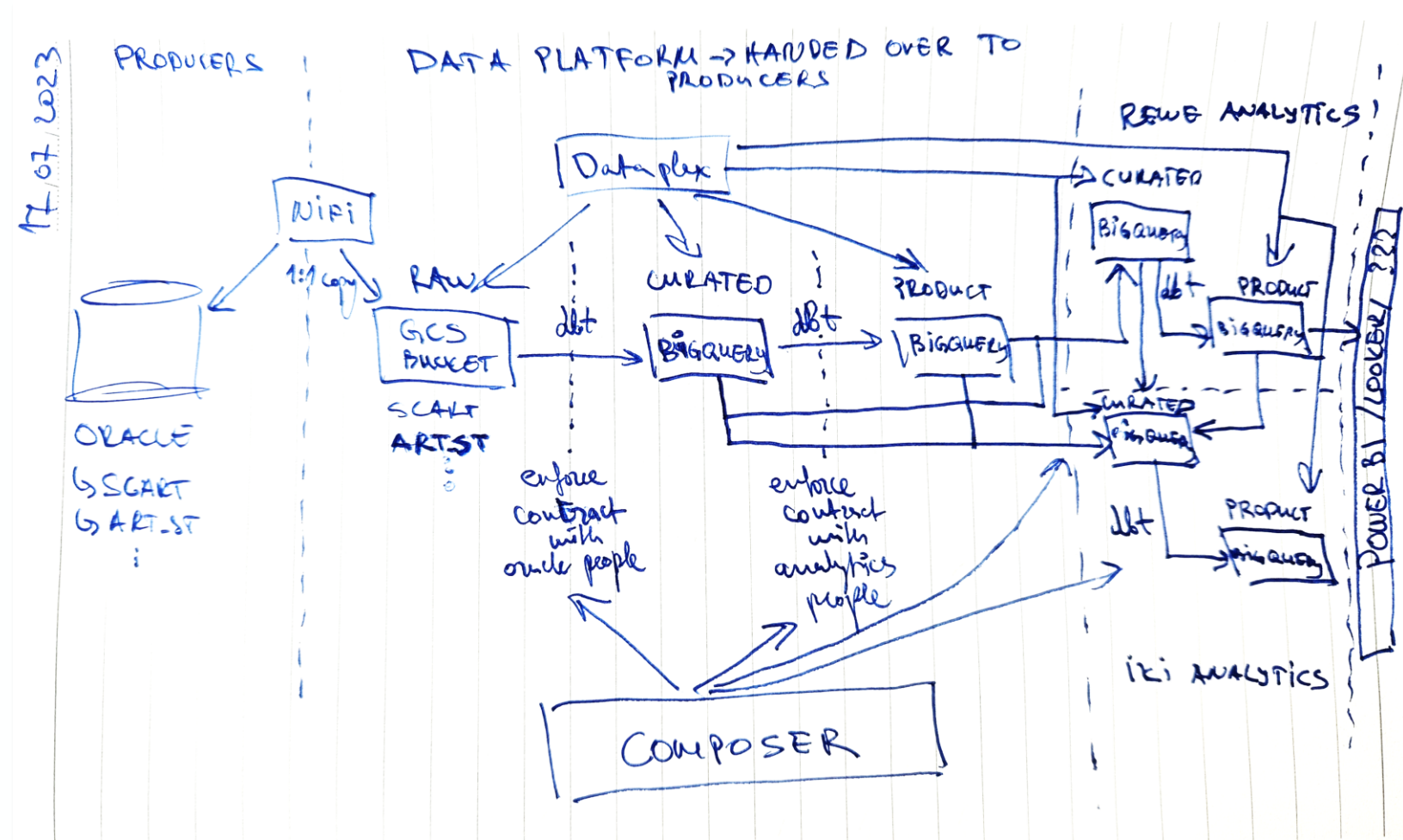
What Is Data Mesh?



datamesh-architecture.com

THE REWE DATA PLATFORM

- Not all smooth sailing
- Idea to working platform
- Technical and organisational challenges
- See you in the workshop





THANK YOU!!!

and see you
IN THE WORKSHOP!