Enterprise Data Knowledge Governance for more Value

Acceliance 2024

With the kind permission from NexusData South Africa

The market & opportunities improvement

Why We Exist

4 out of 5 Projects Fail

Data analytics projects face a very high failure rate.

★ 25% EBITDA Opportunity

Opportunity – based on data analytics projects reported by successful data analytics companies

\$280 Billion Wasted

In 2024, spend on data analytics projects globally is estimated at \$350 billion. With an 80% failure rate, that's a lot of wasted investment.

We improve the financial results of our clients by taking them on a value-driving data analytics journey.

NexusData



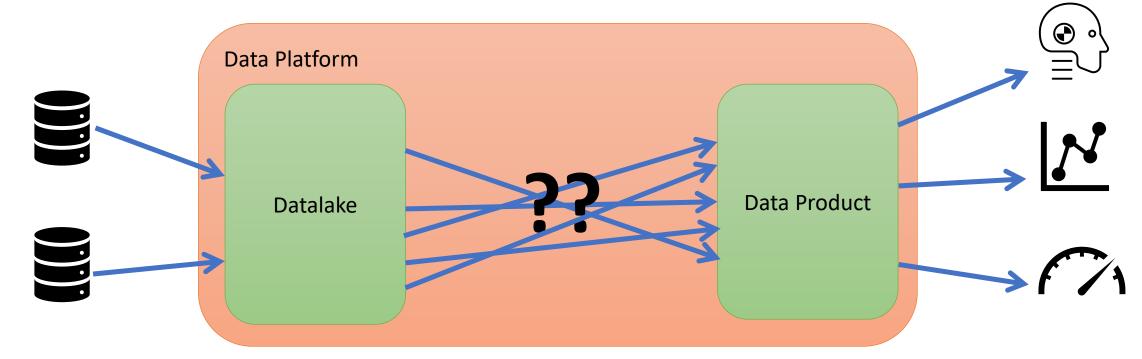
The Value of Data not clearly identified

Q3

Q1

Q2

What Value in the Data Platform ? Which real cost ?



Aggravating factors:

- Data platform size increase
- Number of Data Engineers acting/having acted on the Pipeline Code



"It is not the **domain experts' knowledge** that goes to production, it is the **assumption** of the developers »



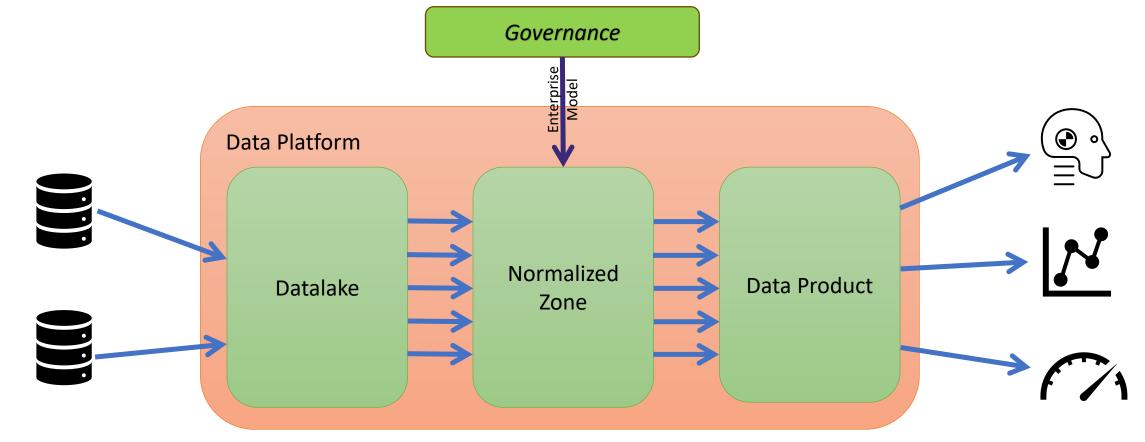
- Alberto Brandolini

Need for Governance

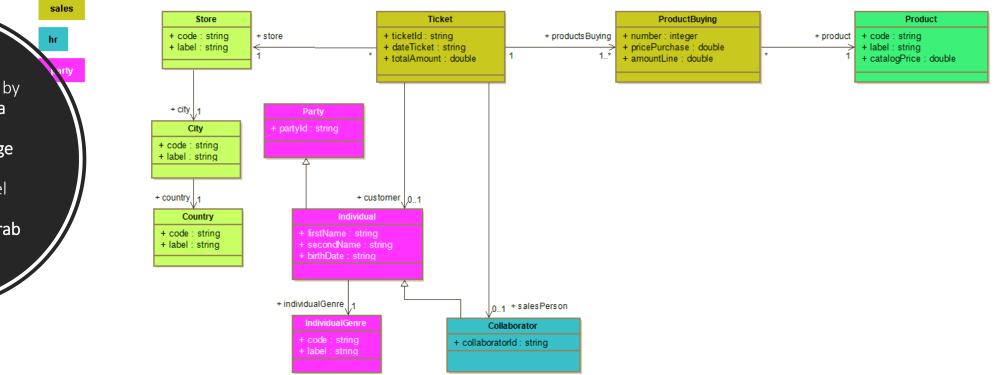




Data Knowledge under Governance in the Data Platform





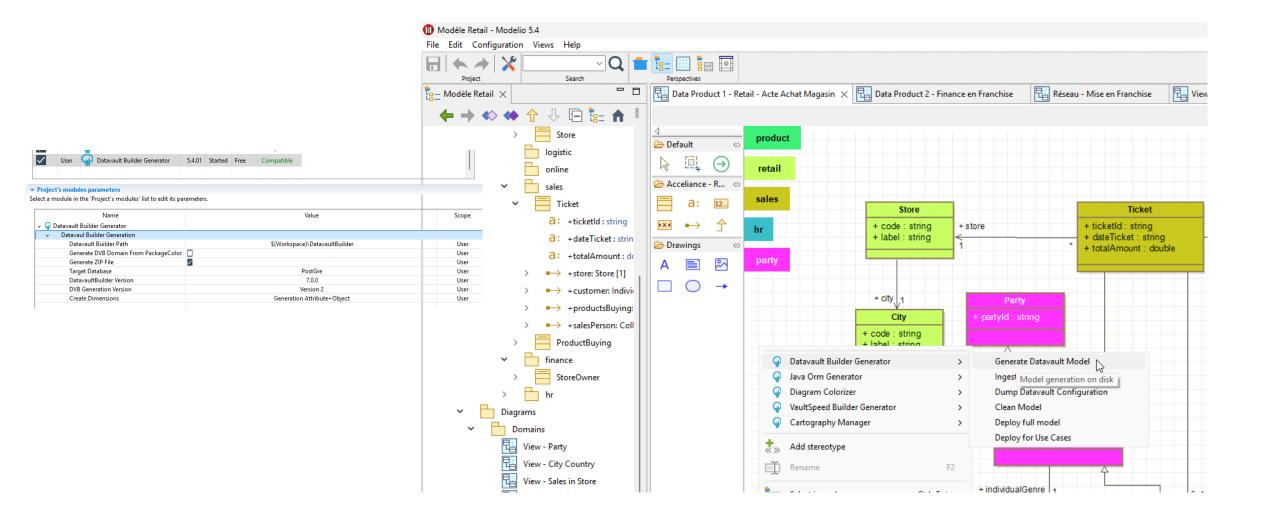


The Data Knowledge by The **Enterprise Data** Model highlights **Enterprise Knowledge** product

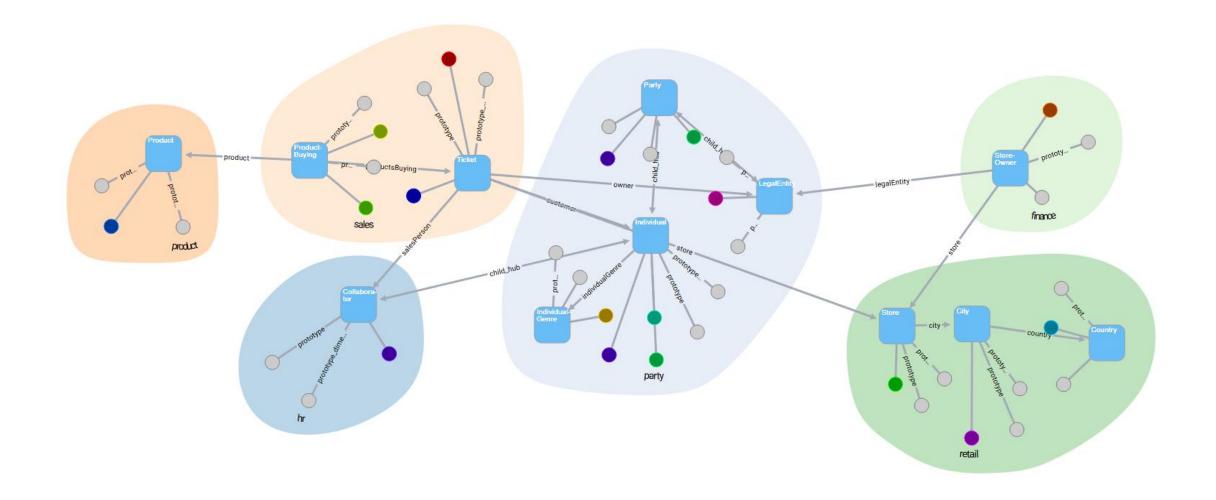
retail

The Business Model presented makes Knowledge **easy to grab**

Enterprise Data Model with Datavault Builder automatic generation

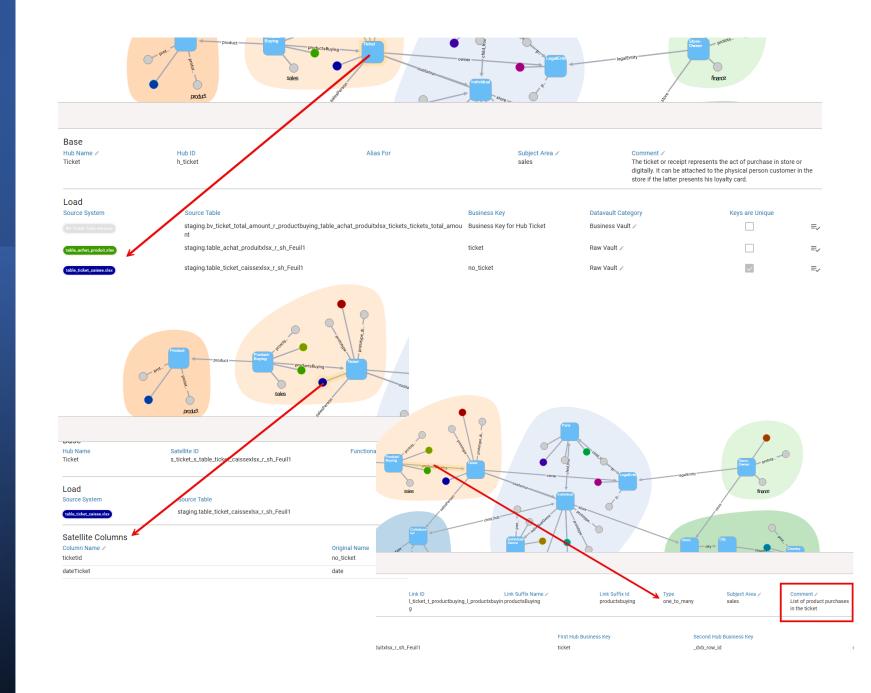


The enterprise Data Model automatically instantiated



The Enterprise Model fed with the Data from all the needed source Systems

Datavault Business Model designed as Normalized Zone





Data Product - Reaping the benefits of the Normalized Zone – Live Demo

How Data supports the company's strategy

retail

- Progressive franchising of the store network
- Normalized Zone support for smooth Data Platform alignment to Enterprise Transformation

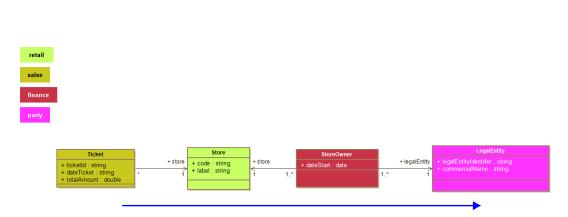
Store		StoreOwner		LegalEntity
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retail	Store	code	string	Yes		Sprint1	
retail	Store	label	string	Yes		Sprint1	
finance	StoreOwner	dateStart	date	Yes			
finance	StoreOwner	legalEntity	LegalEntity	Yes			
finance	StoreOwner	store	Store	Yes			
party	LegalEntity	legalEntityIdentifier	string	Yes			
party	LegalEntity	commercialName	string	Yes			
sales	Ticket	ticketId	string	Yes		Sprint1	
sales	Ticket	dateTicket	string	Yes		Sprint1	
sales	Ticket	totalAmount	double	Yes		Sprint1	
sales	Ticket 🗘	store	Store	Yes		Sprint1	

Governance is integrated – Sprints & Data Mesh 2.0

- New Data Product : Financial report on franchised Legal Entities
- Domains or Data Mesh : Retail & Finance
- Reaping the benefits of the Normalized Zone : 6 out of 11 data already present, effort needed for only 5 new data
- Data Mesh 2.0 : Federal Model-driven

Data Product, Usage Data & Very Low Code

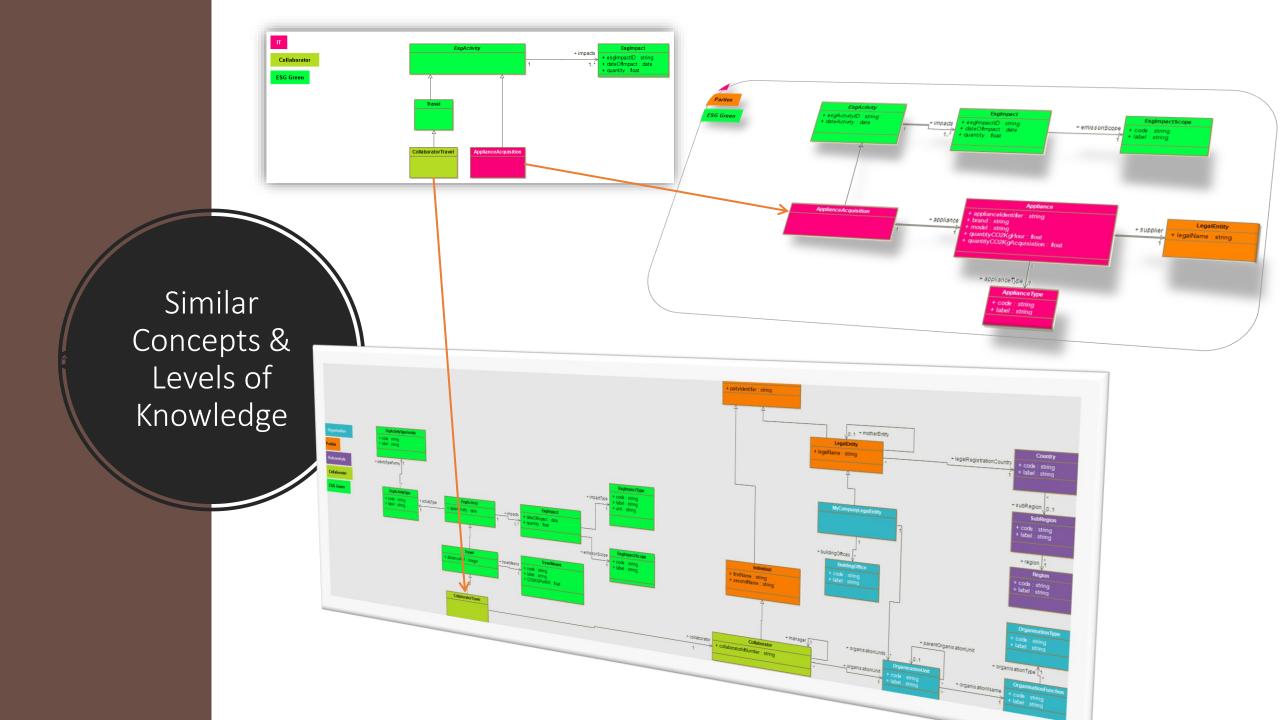


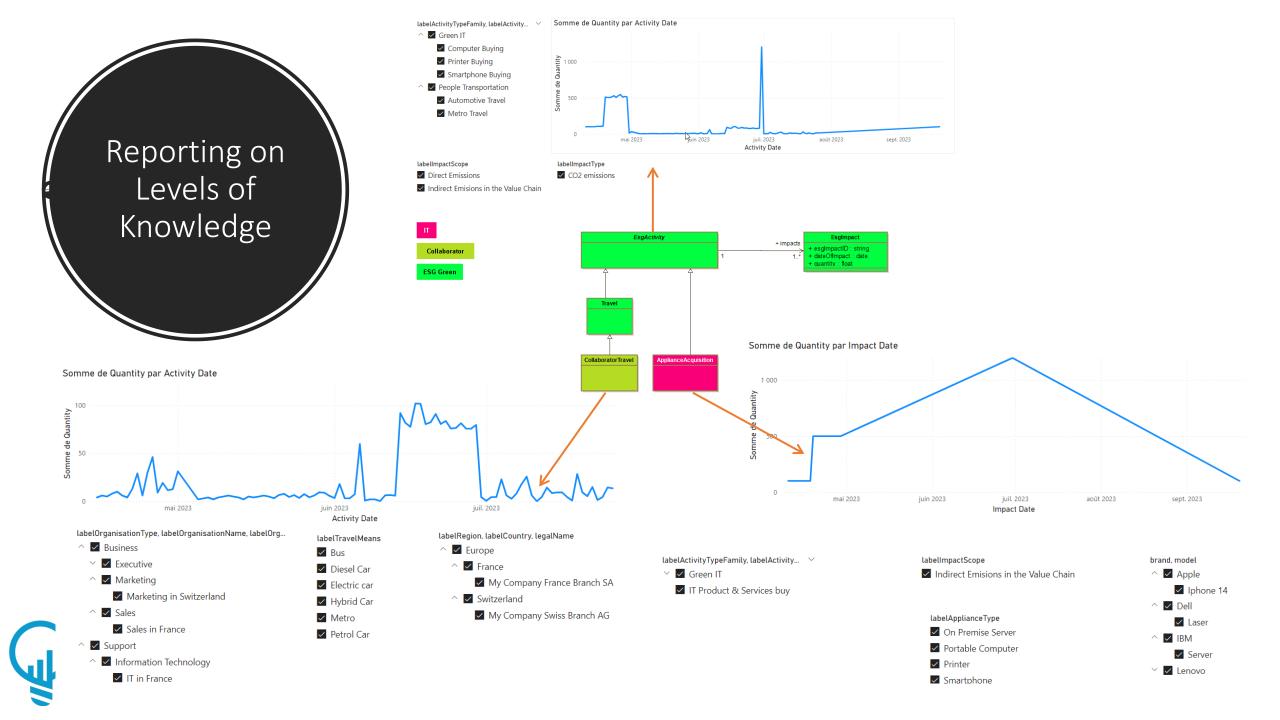
Linking Ticket to Owner Legal Entity as Usage Data

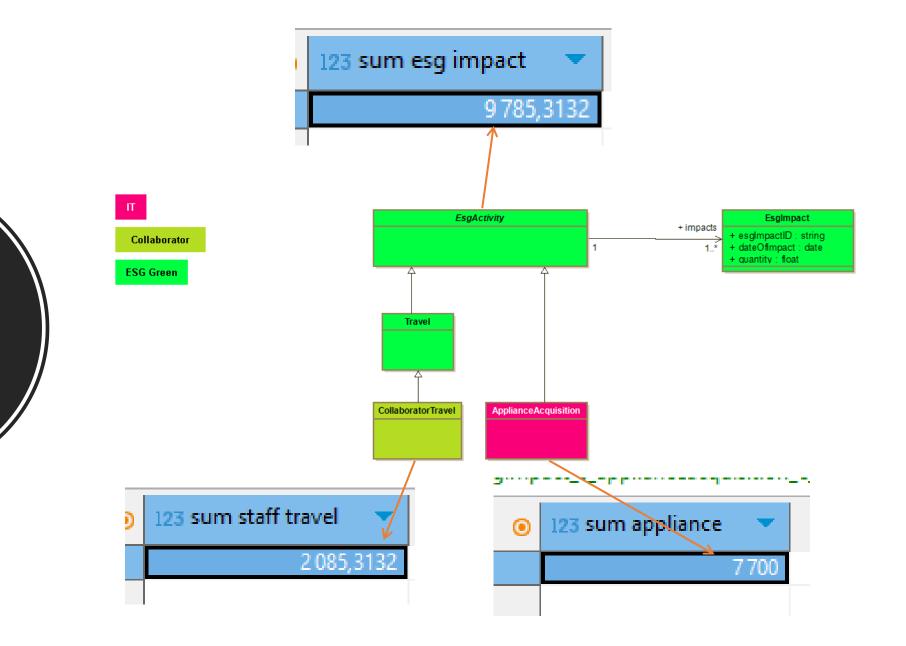
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45265431	TICK 1	45265431
45265431	TICK_5	45285431
623984609	TICK_2	623984609
45265431	TICK_3	45285431

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TICK_1	2023-01-02 00:00:00.000	45265431		My Enterprise	PARRIV	Magasin Rivoli		100
TICK_5	2023-07-02 00:00:00.000	45265431		My Enterprise	SHCTR	Shangai Center Store		140
TICK_2	2023-03-05 00:00:00.000	623984609		Entreprise Franchised 1	PARRIV	Magasin Rivoli		250
TICK_3	2023-05-05 00:00:00.000	45265431		My Enterprise	SHCTR	Shangai Center Store		120







Reaping the benefits of the Enterprise Data Model as real-life – Always Coherent Values

Data Cataloging

- Business Data Catalog
 - Cataloging most focusing on Terms/Wording
 - Catalog elements randomly mapping to different levels of actual Data artefacts
 - Catalog elements not consistently staged to Data Products
 - Cataloging often referring as Mind-Mapping
 - Documentation-scope

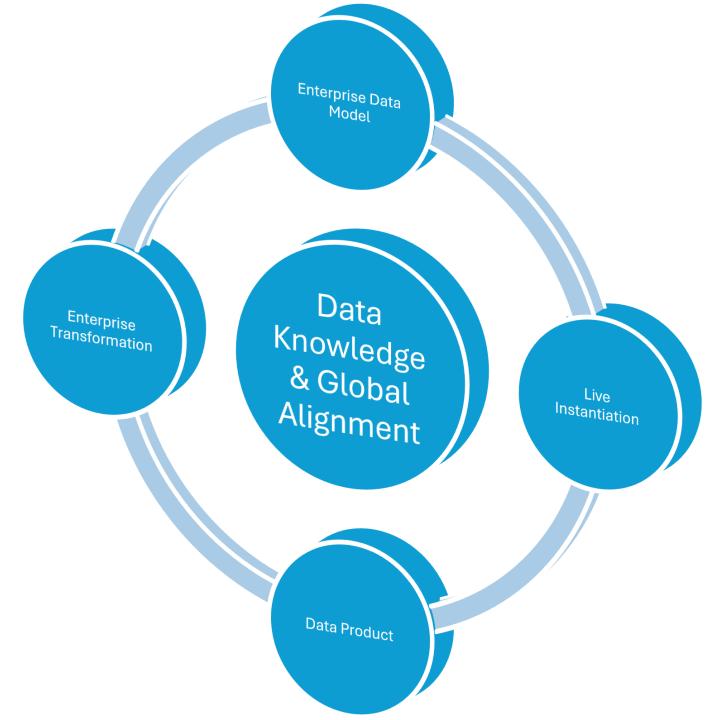
• Data Model

- Enterprise Data Model instantiated brings it to real life into Production
- Actual Data Products alignment to Enterprise Data Model



Key success factors

- Governance
 - Enterprise Data Knowledge
 - Reporting Values Always Coherent
 - Smooth Sprint/DataMesh integration
 - Synergy between Organisations
 - Most value Quality / Data Product driven
 - Holistic
- Normalized Zone
 - Natively designed in Datavault Standard
 - Data Product mandatorily based on it
 - Physical Data Alignment
- Smart Automation
 - Reduced Time To Market
 - Cost Efficiency



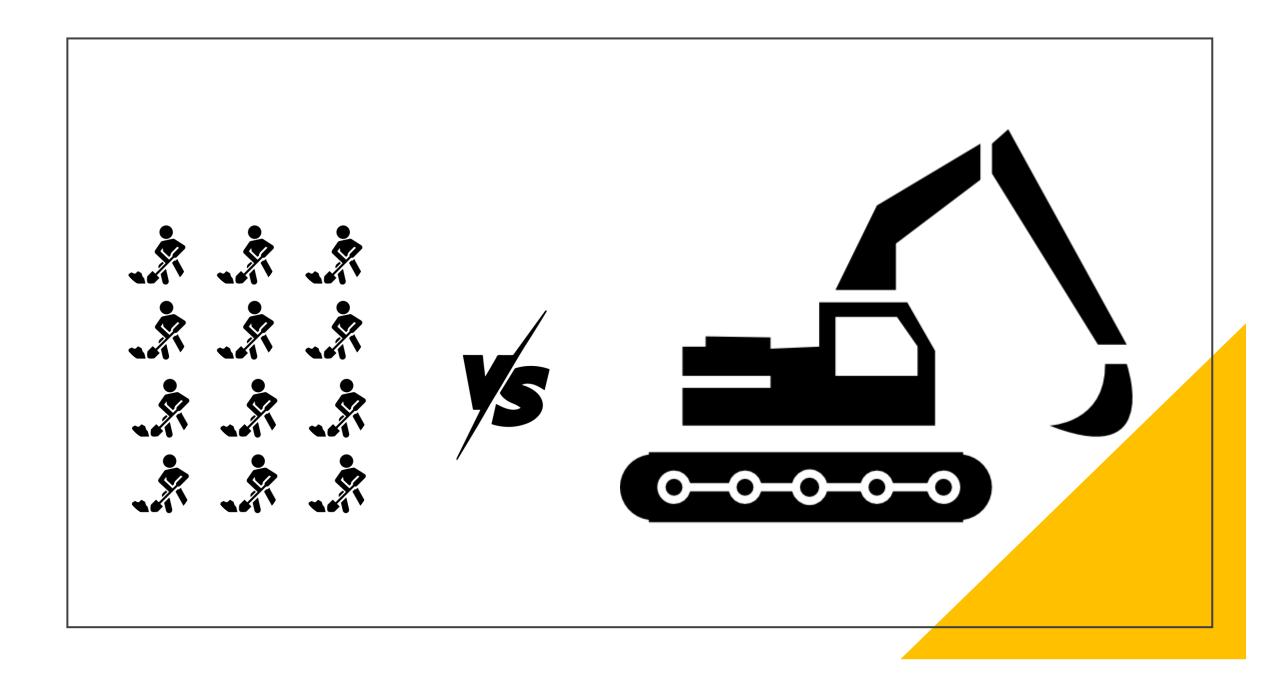
Datavault Builder – Integrated Data Knowledge platform

- State-of-the-Art Data 3-stage Pipeline Architecture
- Datavault is Normalized Zone-Centered (Business Model)
- Smoothly Incrementable Business Model
- Hot Deployment of New Data Products
- Finops Cloud Storage
- GIT CI/CD fully JSON/SQL scripted
- No Hidden Costs



How to organize yourself in the IT department?

- 2 ETP, 3 Roles
- Architect Role: organizes business workshops, organizes sprints by Data Product in relation to the Business, configures the Datavault
- Data Analyst role: has knowledge of data systems in the Company
- Technical Architect Role: Provisions environments, deploys and sets up log exploitation for production monitoring
- Not forgetting Self-Service Data Marting accessible to any authorized person





"Data Knowledge **should not be taken for granted**, it must be **governed**"



- Jose Torres

To go further

- Consider a 20-40 day POC
- Website: <u>https://www.acceliance.fr</u>

