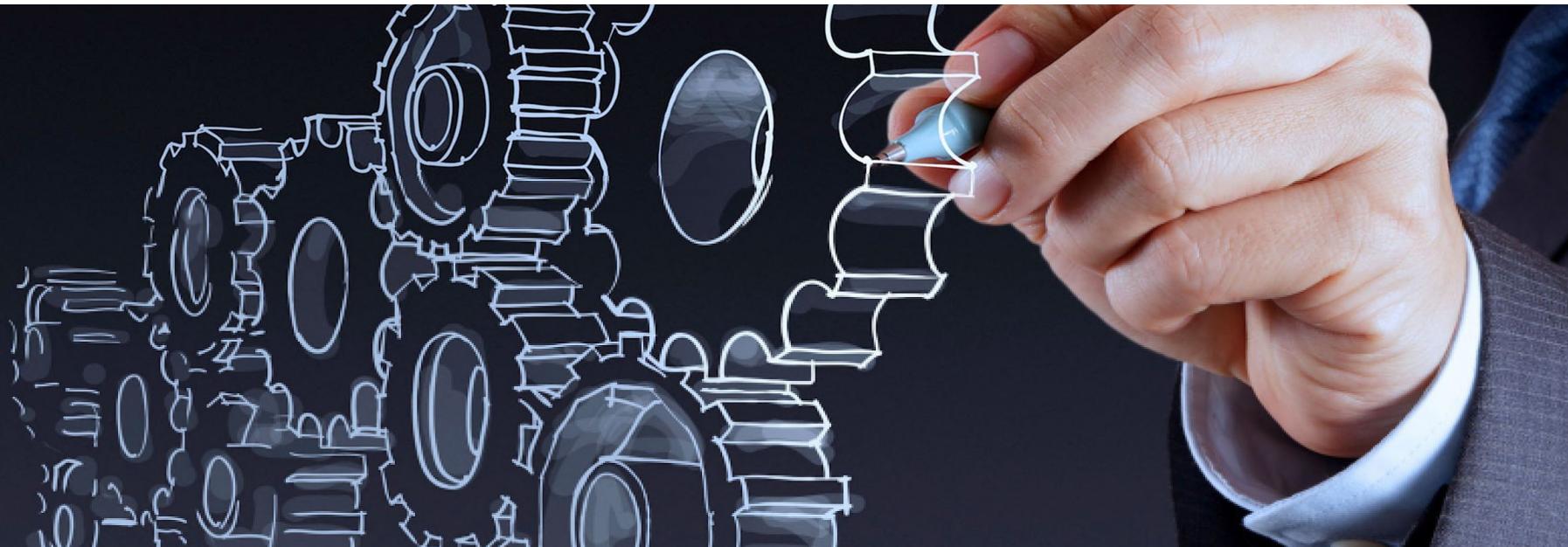


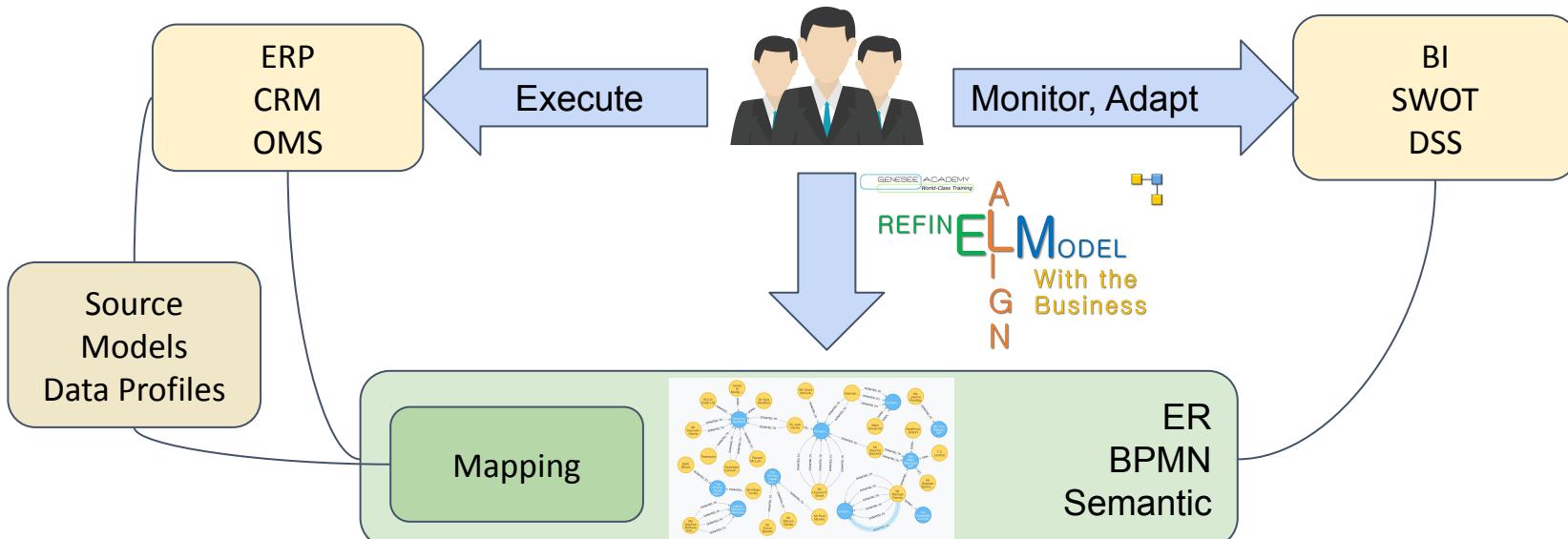
Alligator Company

Innovate Your Data Warehouse with Data Vault Automation



Empower Business Users, Accelerate Delivery, and Gain Complete Control

Automate the Automation - Model Driven - LLM assisted



Sample LLM Assisted Implementation

Input

- ELM Workshop → Align → Refine → Conceptual Model / CBC & NBR
- Mapping Source to Business → Source Dataset, PK, FK

Output

- Template based Datavault implementation
- Entity Views for granular access / Feature Store
- Semantic Model for Measures and Analytical Paths for guided Information retrieval

[Datavault GenAI Repository](#)

[LLM ELM conversation](#)

[LLM Mapping conversation](#)



ELM: Simplify DWH Models by Modeling With the Business



What is ELM (Ensemble Logical Model)?

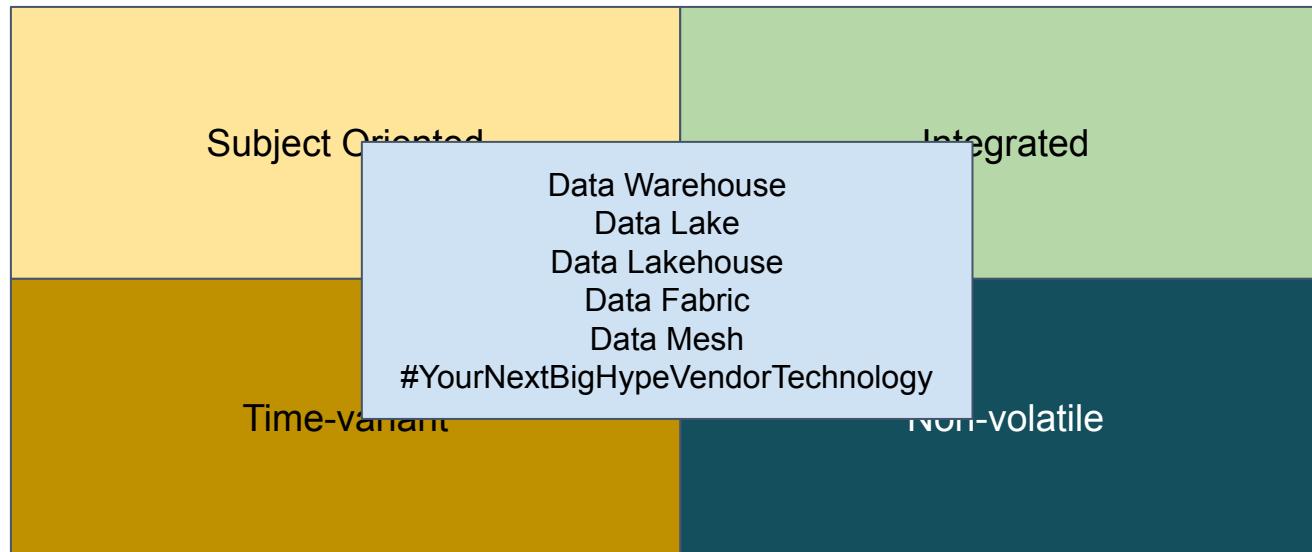
- A non technical approach to map the business concepts into an aligned and refined model (logical model).
- Relates to a family of multiple agile modelling patterns like Datavault, Anchor Modelling and Focal Point.
- The first approach where business is leading over sources.

[Elm Standards](#)

		Relational	Dimensional	NoSQL	ELM
Conceptual	Align (Business Terms)	Terms & Rules	Terms & Paths	Terms & Queries	Core Business Concepts & categorization
Logical	Refine	Sets	Measures with context	Query-focused hierarchy	Events and Natural Business Relationships
Physical	Design (model)	Compromised sets	Star schema or Snowflake	Enhanced hierarchy	Data Vault or Focal Point or Anchor or ...

Original by Steve Hoberman, ELM addition by Remco Broekmans

Data Warehouse Requirements - Technology agnostic



“The primary purpose of a data warehouse is to transform data from an application state into
into an integrated corporate state”

Bill Inmon, the father of data warehousing

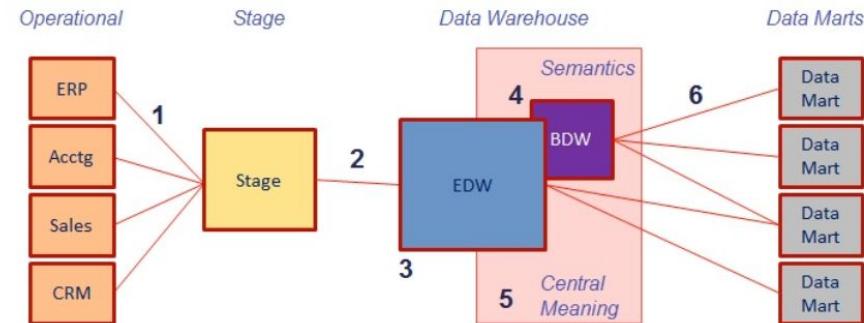
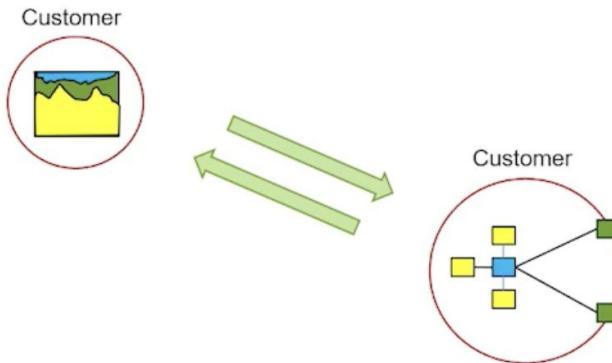
“A data warehouse is a copy of transaction data specifically structured for query and analysis.”

Ralph Kimball, Dimensional Modeling



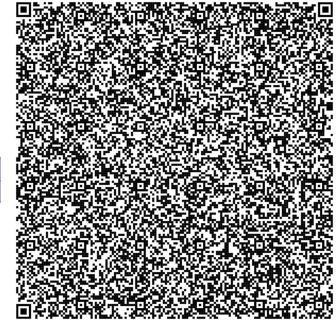
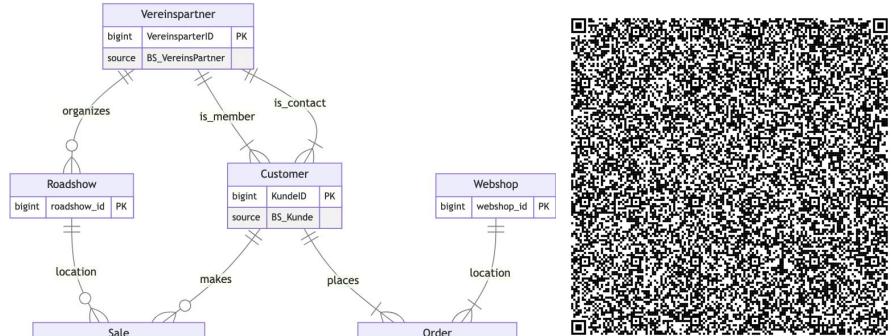
DataVault is invented to Automate the Data Warehouse

- Based on existing Data Model principles
 - 3NF & Historization
 - Separating Primary Key, Foreign Key & Context
- Easy, repeatable load patterns
- Divide & Conquer
- Non Destructive Data Model - Adaptation in Increments - Agility



Automate the Data Vault Lifecycle

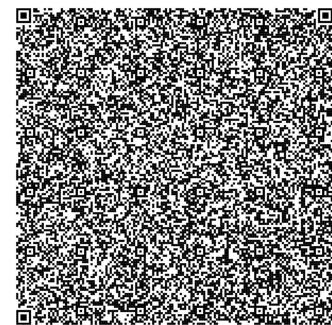
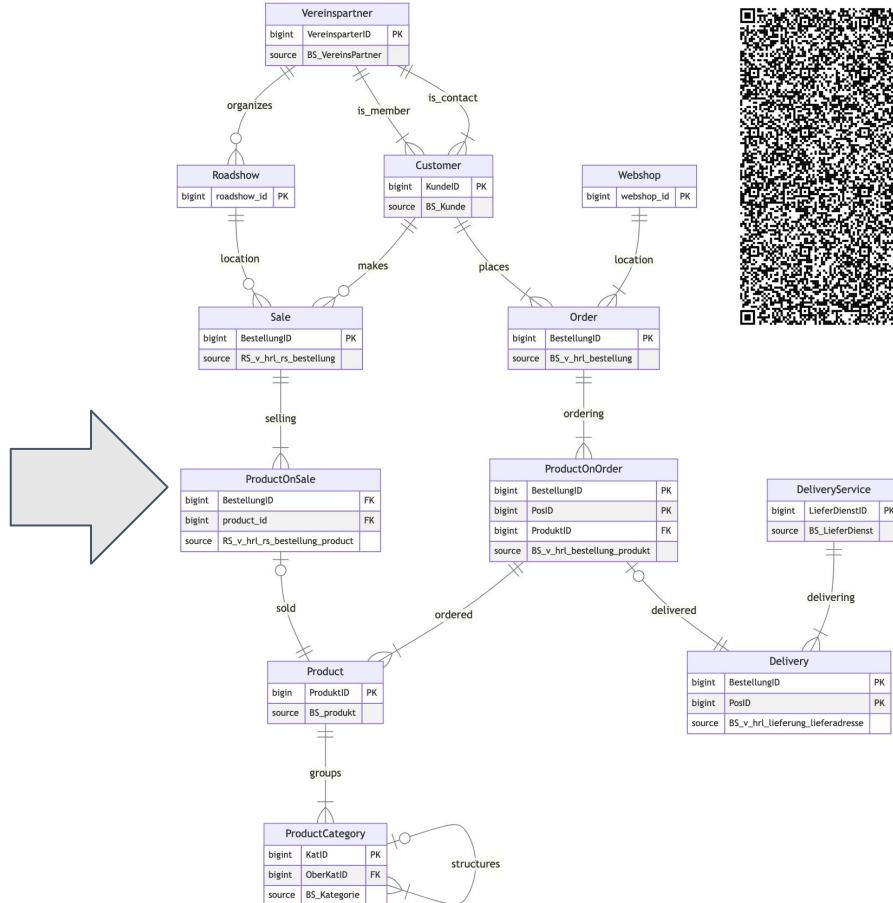
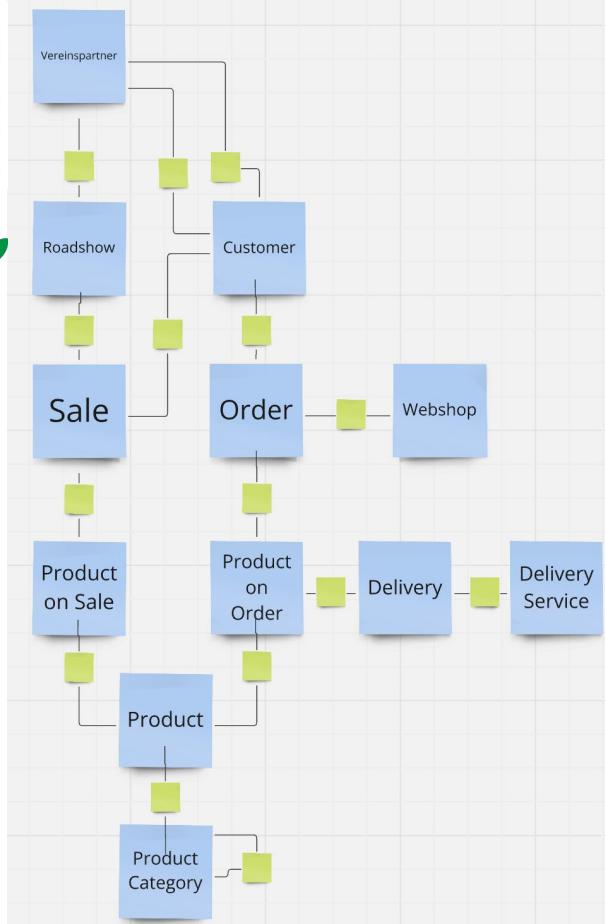
- "Imagine a world where business users define their data needs, and the Data Vault is automatically built."
- Data Vault implementation is incremental by nature and therefore perfectly suited for domain driven and decentralized approaches
- Data Vault Lifecycle starts with the business user requirements and should put his view of his business first - the IT views of source data second



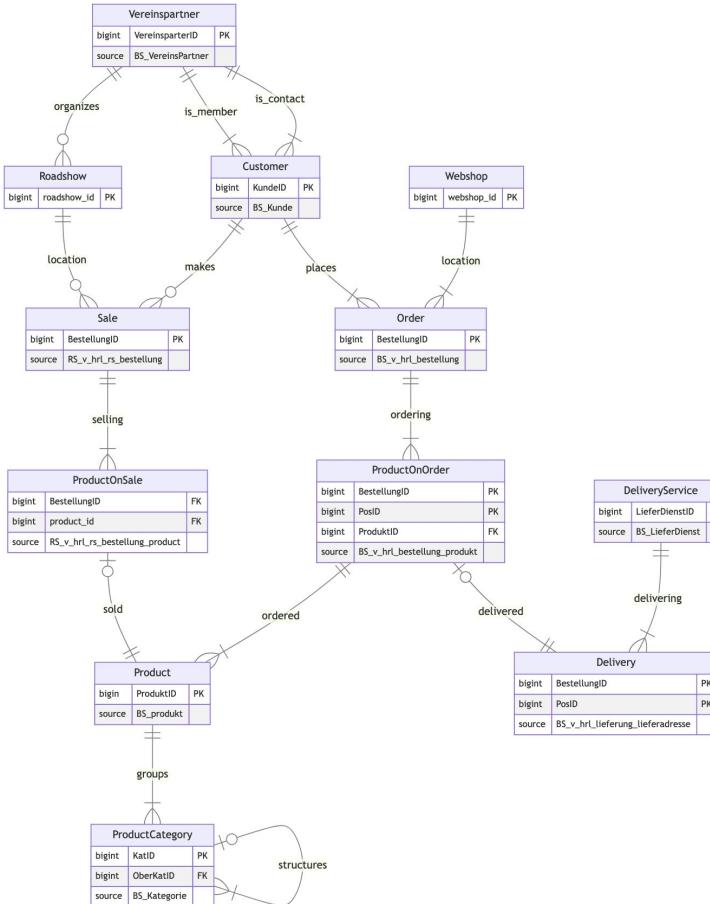
<https://mermaid.live>



Willibald - From ELM to Specification - Align - Refine



Willibald - Refine & Re-align



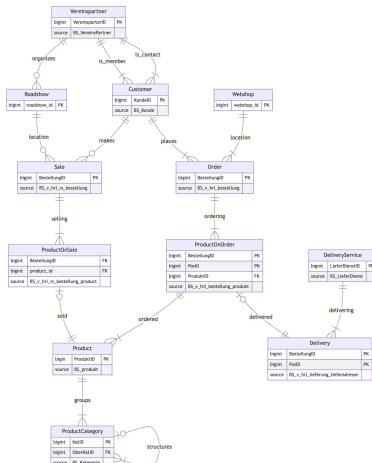
1. A **Vereinspartner** organizes multiple **Roadshows**.
2. A **Vereinspartner** can have multiple **Customers** as members.
3. A **Vereinspartner** can have multiple **Customers** as contacts.
4. A **Roadshow** can host multiple **Sales** as its location.
5. A **Sale** involves the selling of multiple **ProductOnSale** items.
6. A **Customer** can make multiple **Sales**.
7. A **Customer** can place multiple **Orders**.
8. A **Webshop** acts as the location for multiple **Orders**.
9. An **Order** consists of multiple **ProductOnOrder** items.
10. Each **ProductOnOrder** item corresponds to a specific **Product** that was ordered.
11. Each **ProductOnSale** item corresponds to a specific **Product** that was sold.
12. A **ProductOnOrder** can be associated with multiple **Deliveries**.
13. Each **DeliveryService** is responsible for delivering multiple **Deliveries**.
14. Each **Product** belongs to a single **ProductCategory**.
15. A **ProductCategory** can group multiple **Products**.
16. A **ProductCategory** can structure itself hierarchically by referencing other **ProductCategories**.

GPT



Streamline Development and Cut Time-to-Market

- Automated code generation for Data Vault components (Hubs, Links, Satellites).
- Rapid deployment and testing of data pipelines.
- Free up IT resources for complex tasks and innovation.



Automate



Ready to Transform Your Data Warehouse?



"Let's discuss how Data Vault Automation can revolutionize your data strategy."



Alligator Company - Works! Data

Torsten Glunde

Data Warehouse Automation und Modernization

Data Warehousing and Business Intelligence since 2002.

Core Competencies:

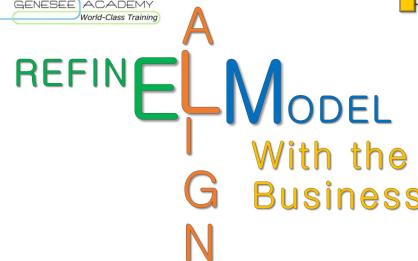
Modern Data Platform, Data Vault Automation, Analytics Engineering,
Cloud DBMS

Methods:

ELT/ETL, SQL, CI/CD, Datavault, Information Modeling, ELM, BEAM



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