



META-PHORICALLY SPEAKING...
HERE WE GO!

DDVUG, Hannover, 27.11.2205

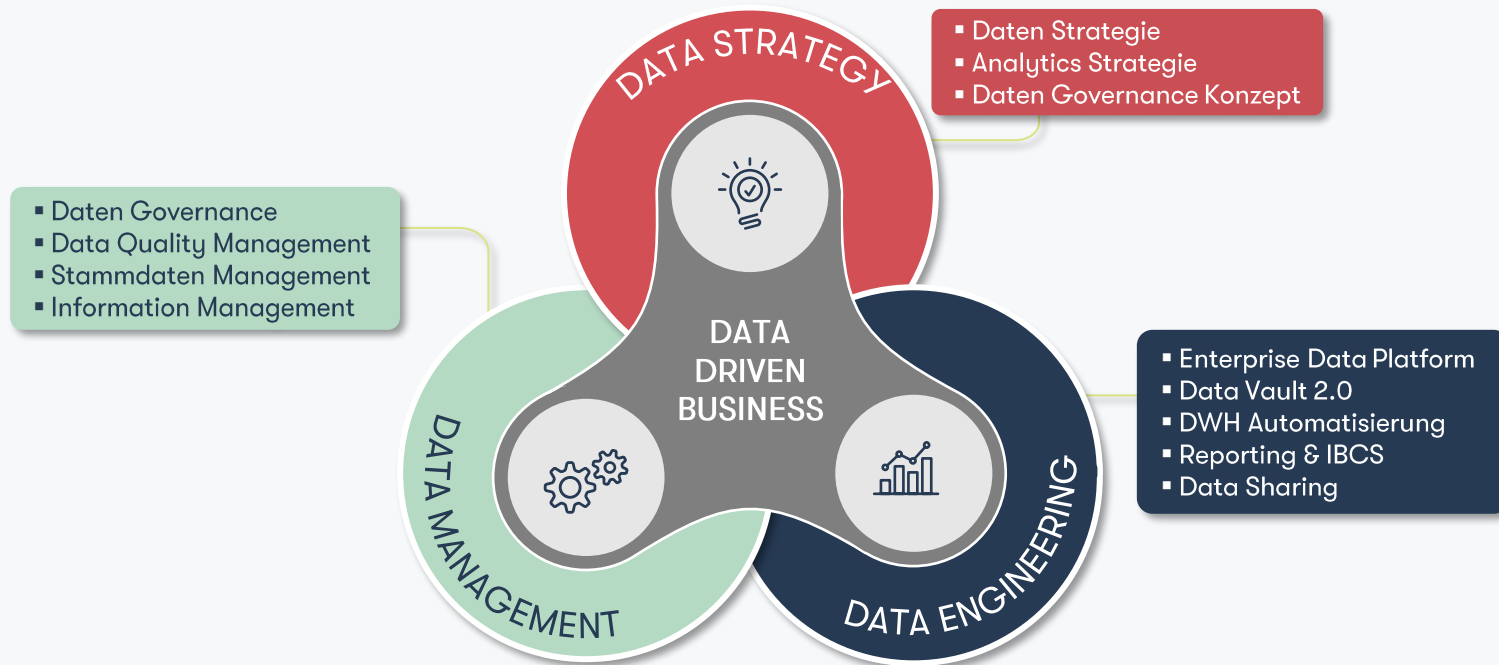
UNSER VERSTÄNDNIS VON DIGITALISIERUNG

Digitale Produkte können nur erfolgreich sein, wenn diese nachhaltig in die Organisation integriert sind.



WAS TUN WIR?

Wir unterstützen Unternehmen dabei ein Data Driven Business zu betreiben. Dazu bieten wir folgende Services an:





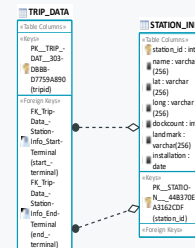
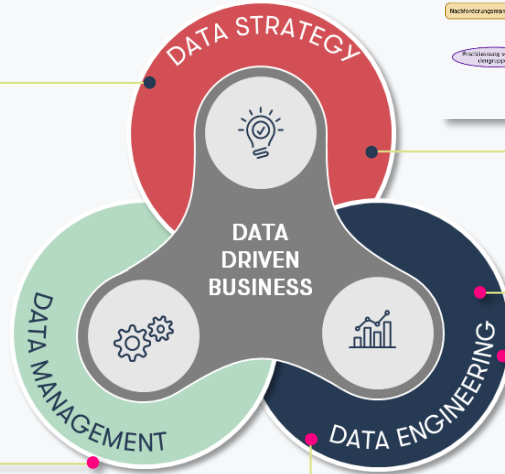
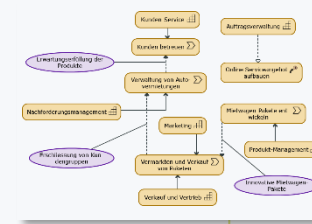
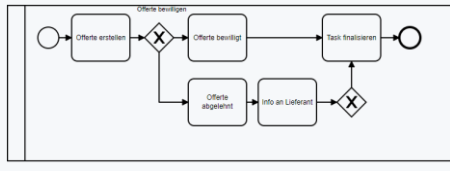
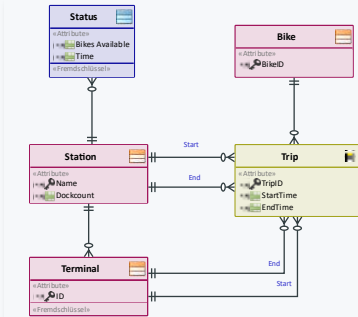
BACK IN THE DAY

MODELING CHALLENGES

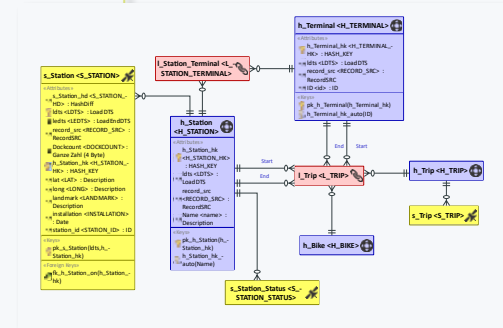
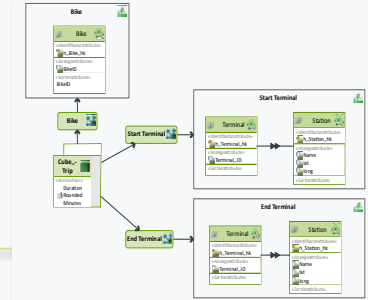
- ! „Only Documentation“
- ! High invest, low value
- ! Always out of date
- ! Standardization



MODELLIERUNG



Physical Data Model



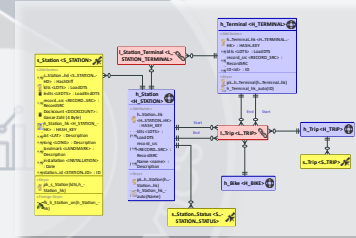
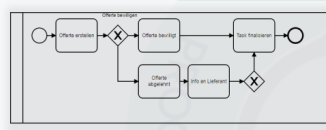
Logical Data Model (Data Vault)

VOM MODELL ZUM SYSTEM / APPLIKATION

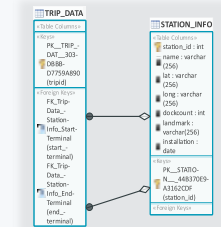
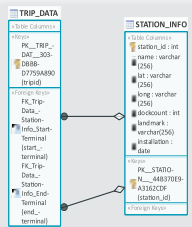


Transaktionelles System

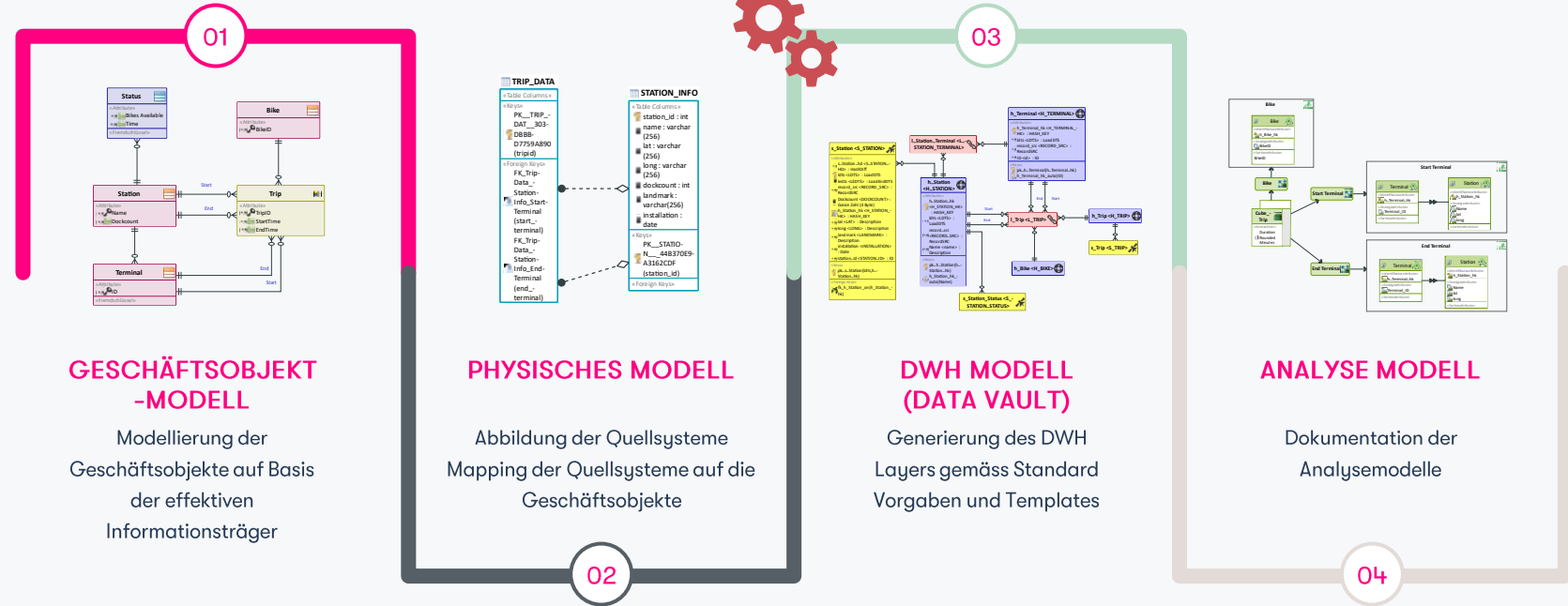
Analytisches System



Automatisierung

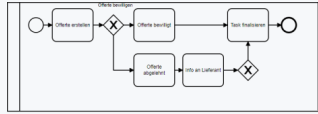


MODEL DRIVEN DWH AUTOMATION



MODEL DRIVEN COMPANY

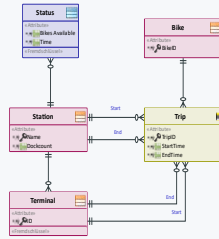
Verknüpfung der Prozesse / Applikationen mit dem Geschäftsobjektmodell



PROZESSMODELL

Abbildung der Geschäftsprozesse mit Geschäftsobjekten und Datenobjekten

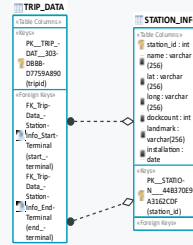
01



GESCHÄFTSOBJEKT - MODELL

Modellierung der Geschäftsobjekte auf Basis der effektiven Informationsträger

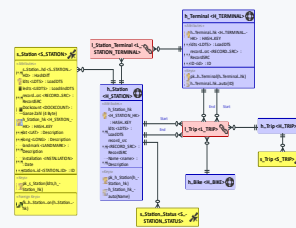
02



PHYSISCHES MODELL

Abbildung der Quellsysteme Mapping der Quellsysteme auf die Geschäftsobjekte

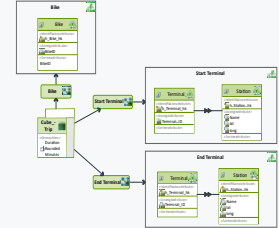
03



DWH MODELL (DATA VAULT)

Generierung des DWH Layers gemäss Standard Vorgaben und Templates

04

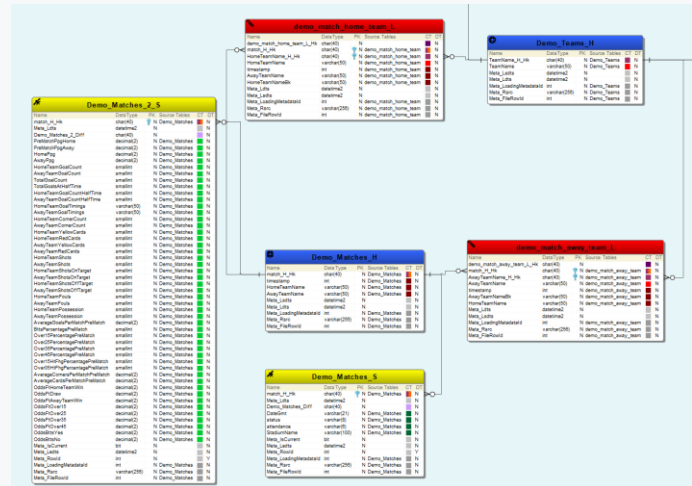


ANALYSE MODELL

Dokumentation der Analysemodelle

05

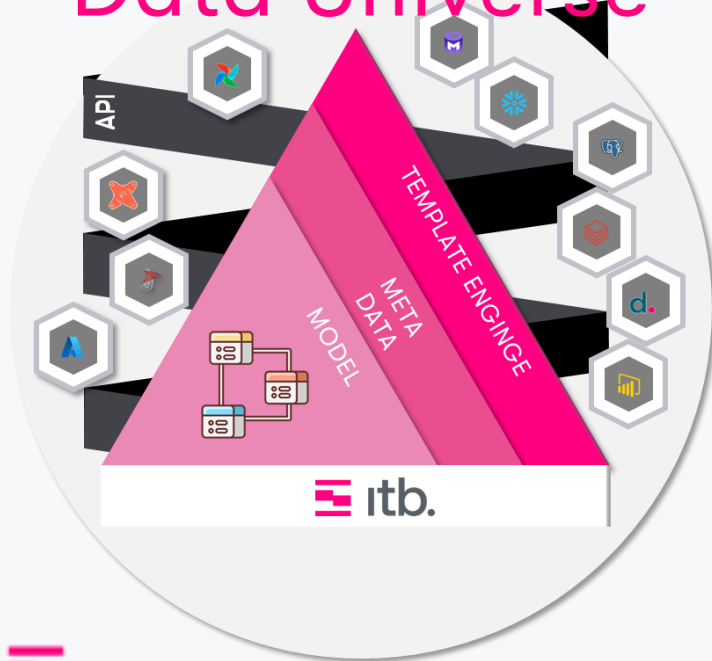


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FROM THEN TO NOW

MODEL DRIVEN Data Universe



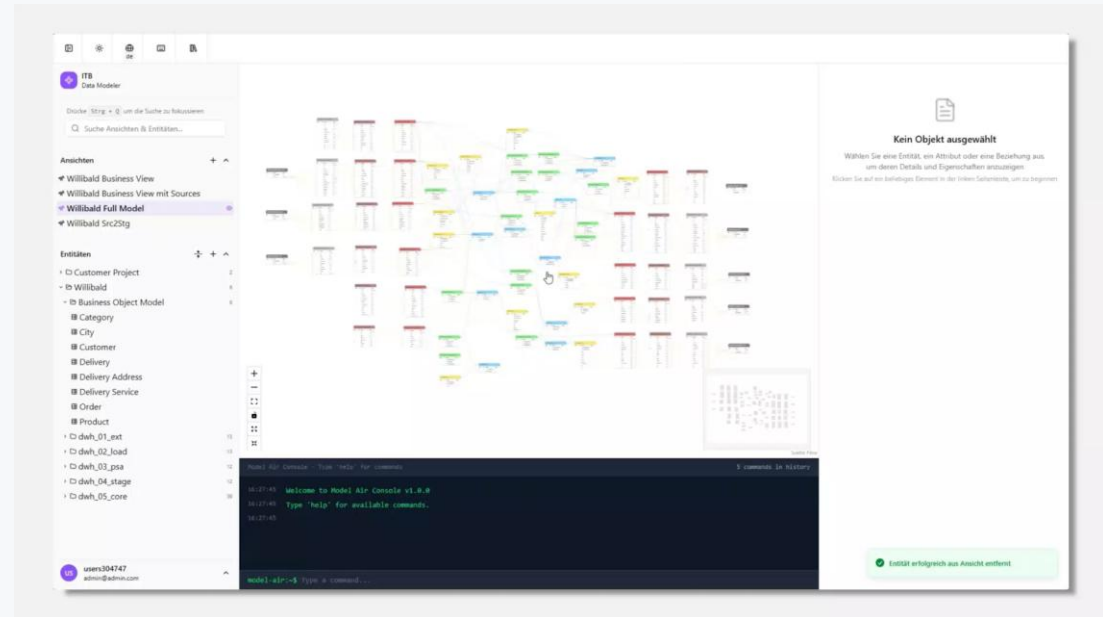
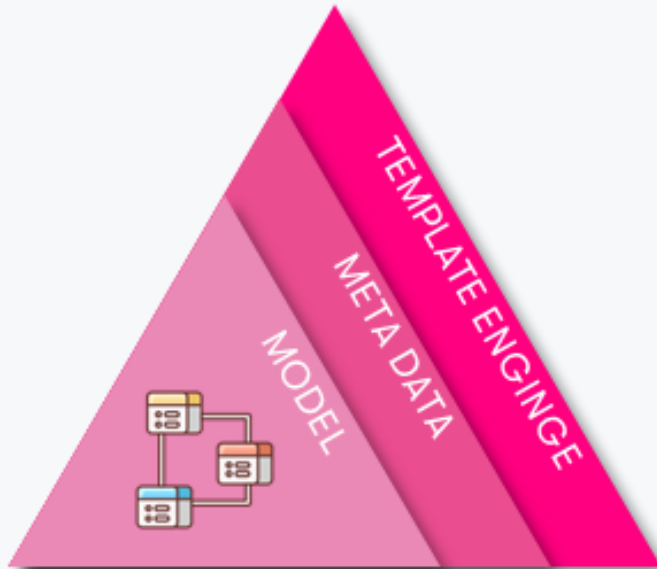
Everything is Metadata

We imagine a world where businesses are driven automatically by models. The key lies in the metadata behind every piece of information, orchestrated seamlessly across all systems.

ARCHITECTURE & TECHNOLOGY OVERVIEW

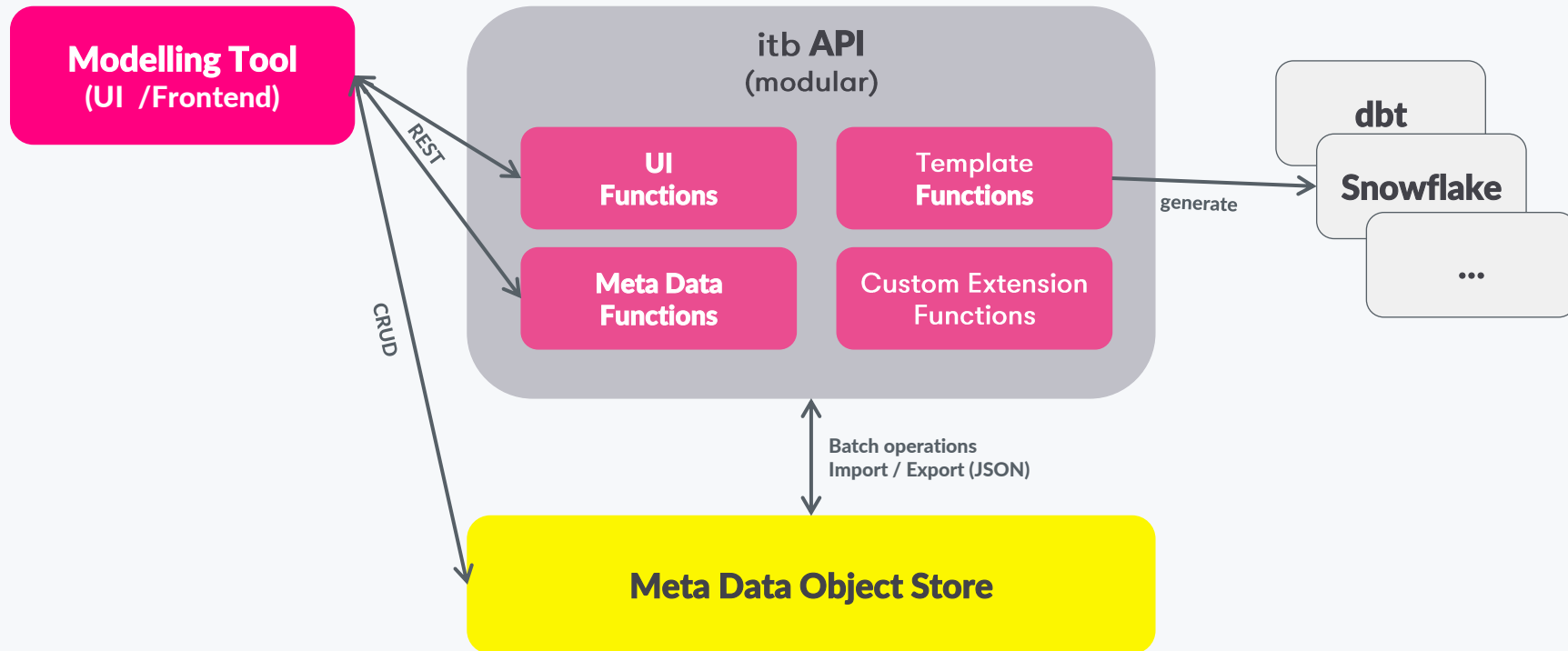
INFORMATION TOOL BENCH

Overview



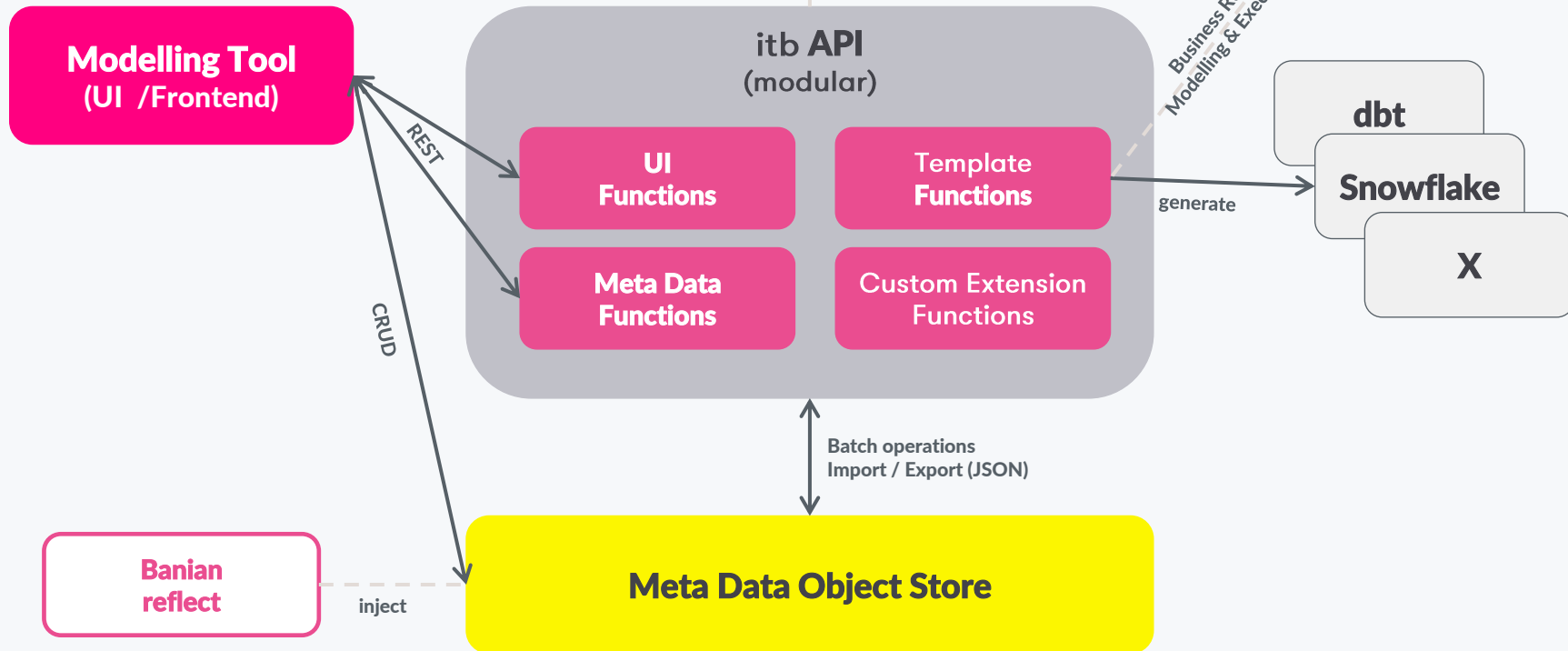
ÜBERSICHT

Flow View



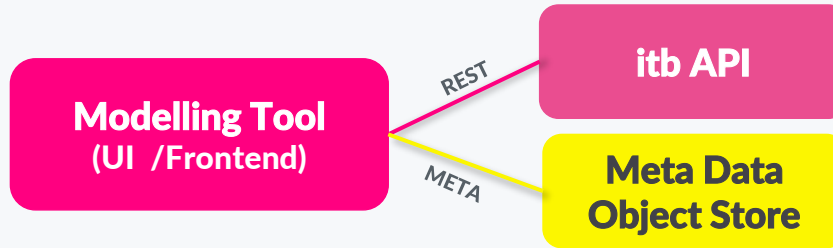
ÜBERSICHT

Weitere Bausteine (modular)



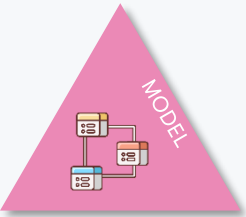
MODEL

UI / Frontend / Modelling Tool



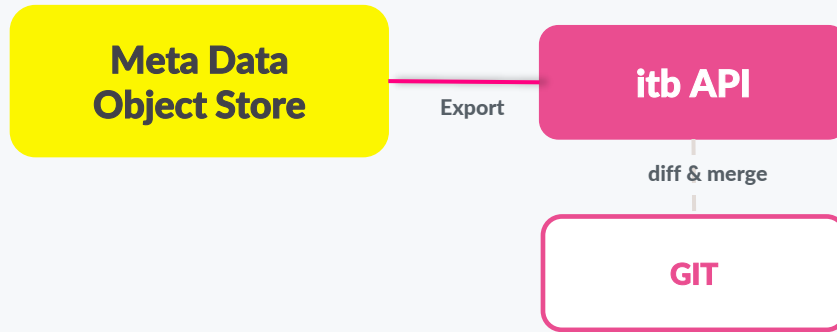
Was passiert in dieser Schicht?

- Modellkonfiguration im Object Store: Entities, Attribute und Relationen inkl. Custom Properties
- Fachliche & technische Modellierung
- Statisch generierte UI (SSG): performant, leichtgewichtig und einfach zu deployen
- Kommunikation über definierte Interfaces: UI spricht sowohl mit dem Object Store als auch mit der ITB-API
- Modularer Aufbau: flexibel erweiterbar und klar getrennt nach Verantwortlichkeiten



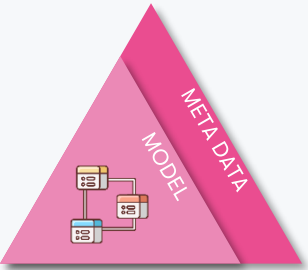
META DATA

Object Store / PocketBase / JSON



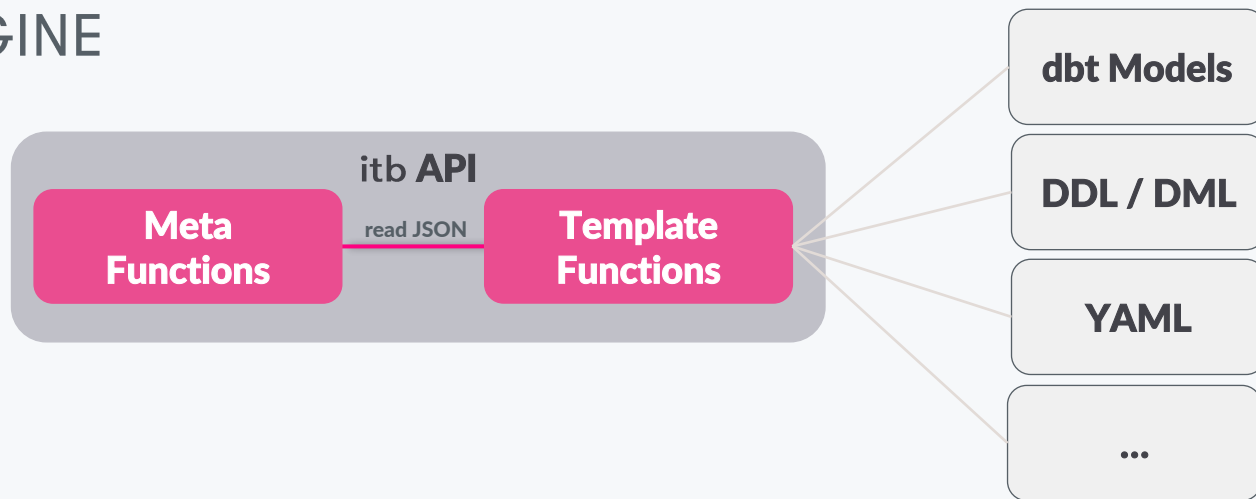
Was passiert hier?

- Persistenz der Modellobjekte und –configuration (Data Vault / Star Schema / weitere Modelltypen)
- PocketBase als flexibler Object Store zur Speicherung aller Artefakte und Metadaten
- JSON als einheitlicher Austauschstandard und zentrales Interface zur Template Engine
- Basis für Generierung & Orchestrierung aller Zielartefakte
- Versionierung & Change-Integration über gängige Workflows, z. B. Git



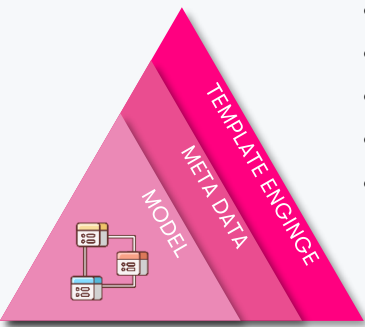
TEMPLATE ENGINE

API / Jinja / Generator



Was macht die Template Engine?

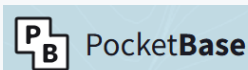
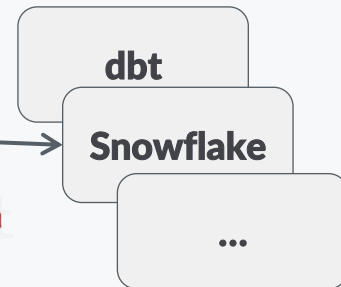
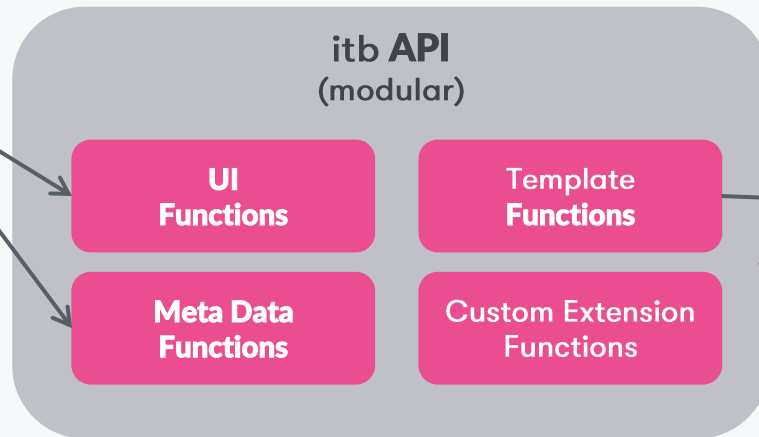
- Verarbeitet JSON-Artefakte als Input für die Templates
- Bietet klare Funktions-Interfaces über eine definierte API
- Generiert Zielartefakte via Jinja (z. B. DDL, DML, dbt, YAML ...)
- Erzeugt in unserem Setup Data-Vault dbt Modelle für Snowflake
- Modular erweiterbar: Neue Targets = neue Templates
- Flexible Metadaten-Nutzung: Custom Properties können im Object Store abgelegt und von Templates konsumiert werden



TECHNOLOGIEN



Modelling Tool
(UI /Frontend)



DEMO



BACK TO THE FUTURE

ITB IS FREE TO USE

Start today – ask us

Free to use

CHF **0** /month

- ✓ Single Developer Setup
- ✓ Unlimited Viewpoints
- ✓ Unlimited Entities
- ✓ Fully customizable

Get it now

Enterprise

Coming soon

- ✓ Multi-User Ready
- ✓ Enterprise Setup
- ✓ GIT Integration
- ✓ Kubernetes Support
- ✓ Technical support via email

Not available yet

Assisted

Contact for offer

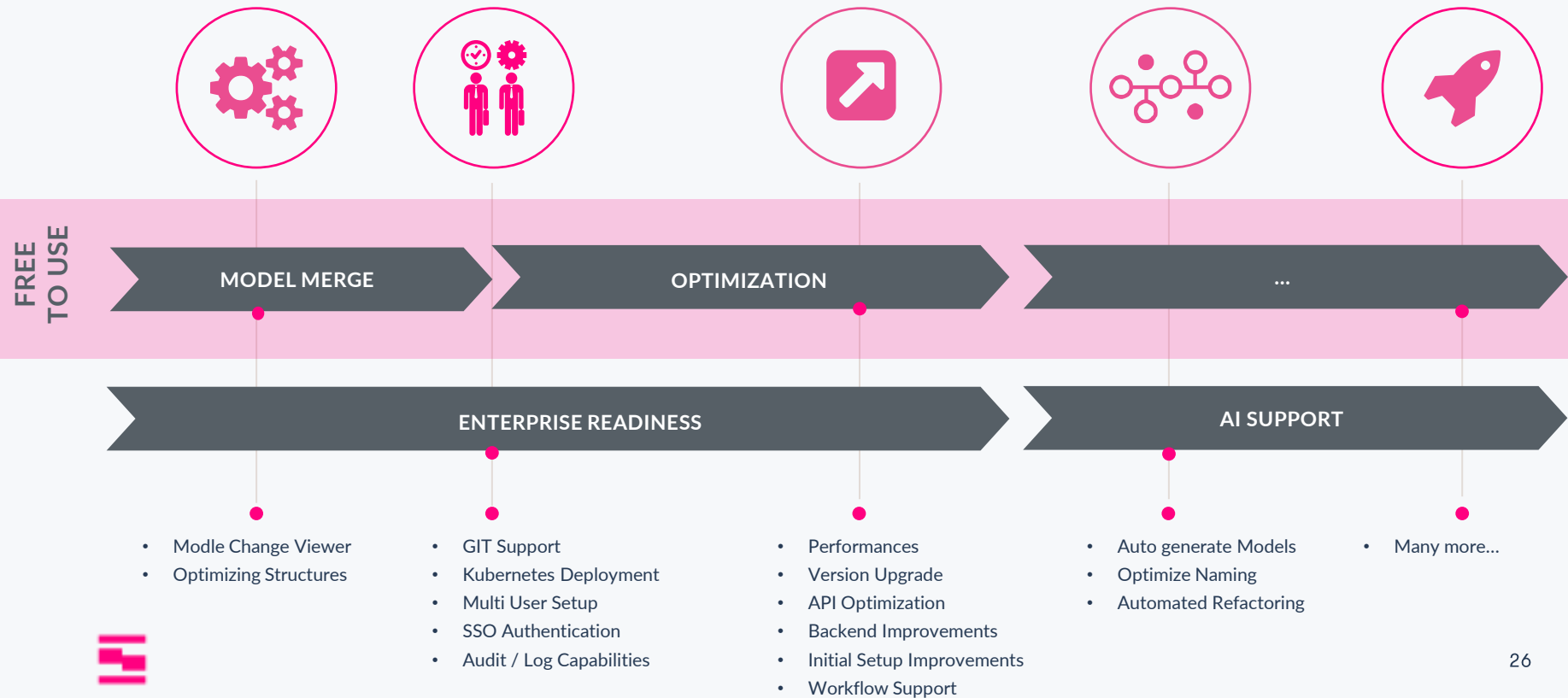
- ✓ Everything from Enterprise
- ✓ Pre-defined Configurations
- ✓ Project Support
- ✓ Feature Request Priority
- ✓ Technical support via email and chat

Contact now



ROADMAP

We have a lot of ideas 😊

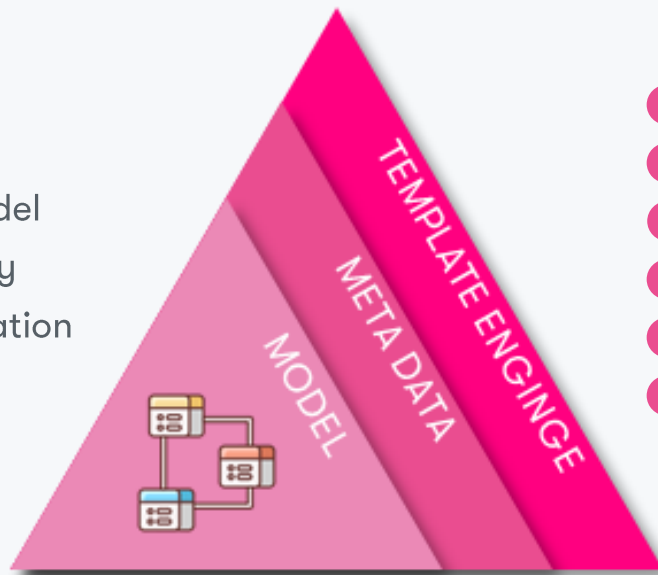


ITB KEY TAKEAWAYS

This is only the first version; there is still much to build, and the potential is great.

Here we are

- ✓ Scalable Architecture
- ✓ Modular & Extensible
- ✓ Standardized Metamodel
- ✓ Multi-Target Capability
- ✓ High Degree of Automation
- ✓ Developer Experience
- ✓ Field-Proven



More to come

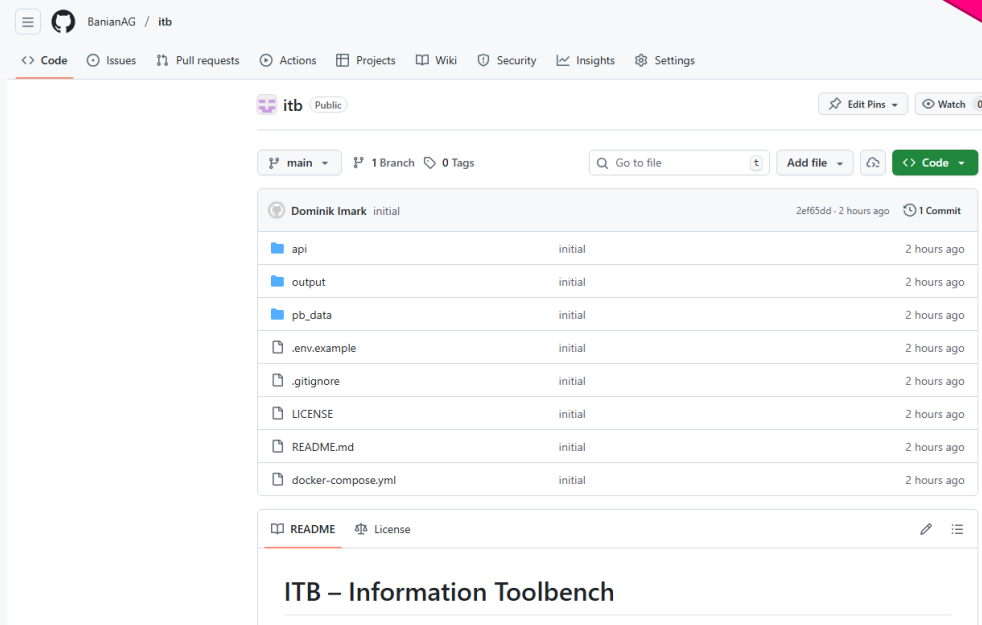
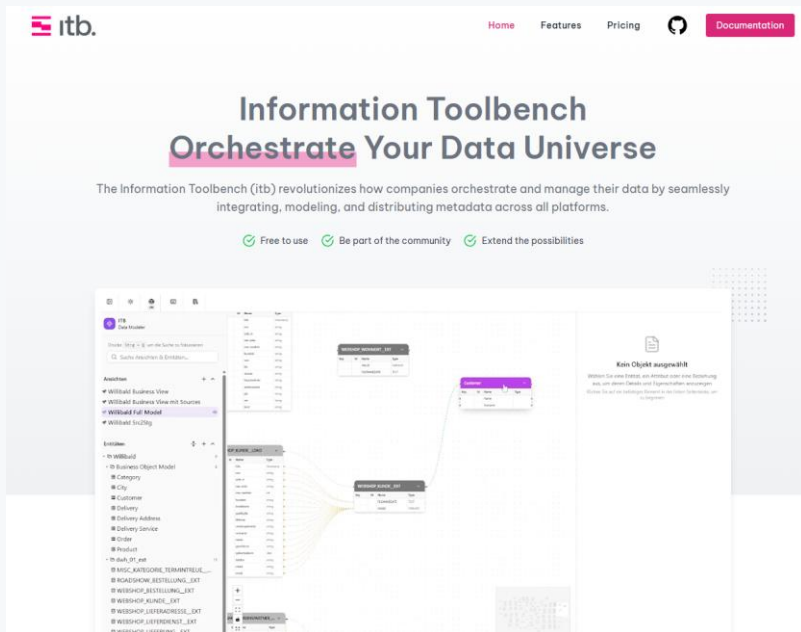
- Platform Stabilization
- Additional customizing Features
- Further Decoupling
- LLM Integration
- More Modules
- Expanded Use Cases



JOIN TODAY!

Contact us – itb@banian.ch

itb.banian.ch





THANK YOU