

## Creating an open-source data platform for Swiss Government OSA CON 2024

#### Agenda

- Introduction
- HelloDATA Overview
- Live Demo
- Developing HelloDATA
- Utilizing HelloDATA and our learnings



### Introduction



#### Speakers



Michael Disteli Business-Lead Data



Micha Eichmann Team-Lead Data Projects



#### Bedag in a nutshell

#### **Our customers**

- Canton of Berne
- Administrations of all other cantons
- Federal administration and private sector

#### Our key figures

- CHF 103 million turnover (as at 31.12.23)
- 470 employees (including 49 apprentices)
- Ownership: 100% Canton of Berne

#### Our services

#### Solutions

Software solutions and products for digital administration

#### **Workplace Services**

Modern working instruments for your employees

#### **Data Center Services**

Secure operation for your applications and data



### HelloDATA Overview



# State-of-the-art data tools combined into an integrated, open-source data platform



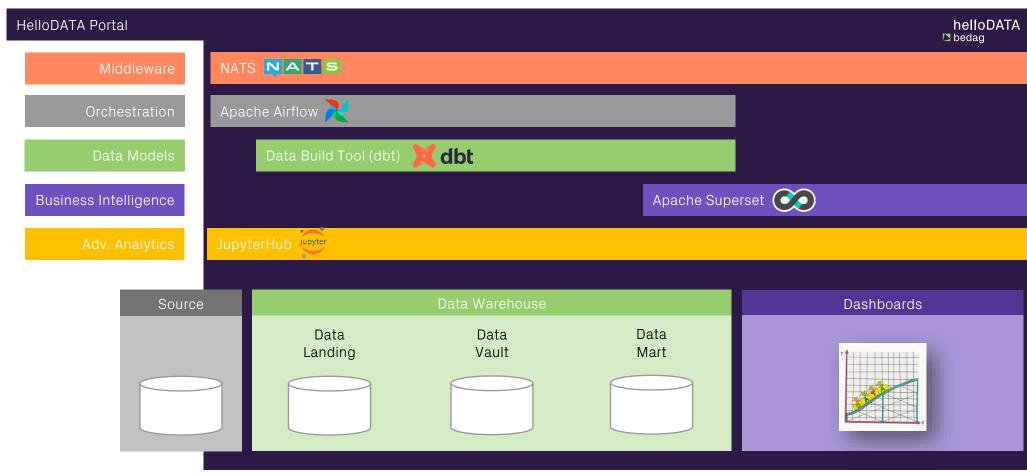
#### Platform-Features

#### Keep it simple!

- Retrieve data from different business applications
- Automated data preparation
- Visualize data in a user-centric manner

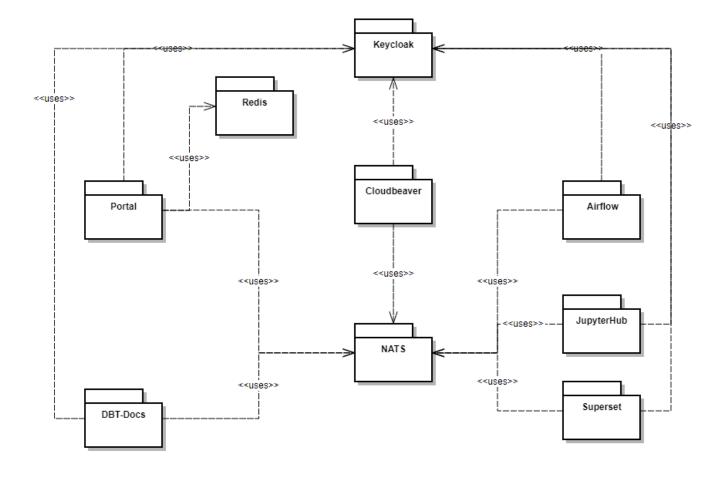


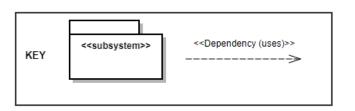
#### Platform-Tools





## Subsystem communication







#### Advantages HelloDATA

- Central usermanagement
- Single webbased touchpoint
- Integration between implemented tools
- Serves all degrees of data literacy and empowers users (from viewer to editor/admin)



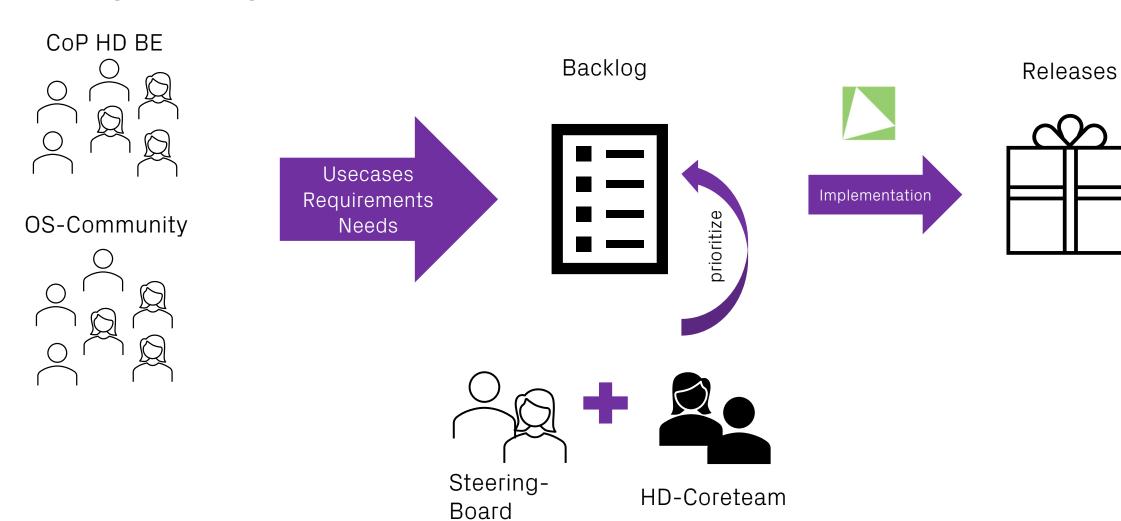
### Live Demo



### Developing HelloDATA



#### Development proces





Innovations-Dialog - Einblicke in HelloDATA BE

#### Feature Roadmap HelloDATA

Oct. 2023: HelloDATA V1.0

Q4 2023 ABIS MVP 2024

~2 Releases / year 2025

~2 Releases / year

#### HD V1.0

- HD-Portal
- Integration Airflow / DBT / Superset
- Integration Keycloack
- User and Permissionmanagement
- Monitoring and Alerting
- Data-Lineage
- Documentation

#### HD V1.1

- Conception V1.1
- Data Engineering Self-Service Extension
- Conception V1.2
- Architecture requirements check according to Datadomainconcept

#### Release Sep24

- Advanced Analytics v1 Integration of JuypterHub
- Data Publisher Extension
- Conception Object-Storage integration

#### Release Mai25

- Implementation of languages English & French
- Integration of Object-Storage
- Integration of data ingestion tool
- Improving self-service possibilities



## Utilizing HelloDATA and our learnings



## Empowering our customers step by step



#### Customer Empowerment Success Story

#### Project 1

#### Project 2

#### Project 3

#### Customer tasks

- Requirements
- Review
- User management

HelloDATA tasks

## EWDOM8IWEL

#### Customer tasks

- Requirements
- Review
- User management



Dashboards

#### HelloDATA tasks





#### Customer tasks

- Requirements
- Review
- User management



#### HelloDATA tasks



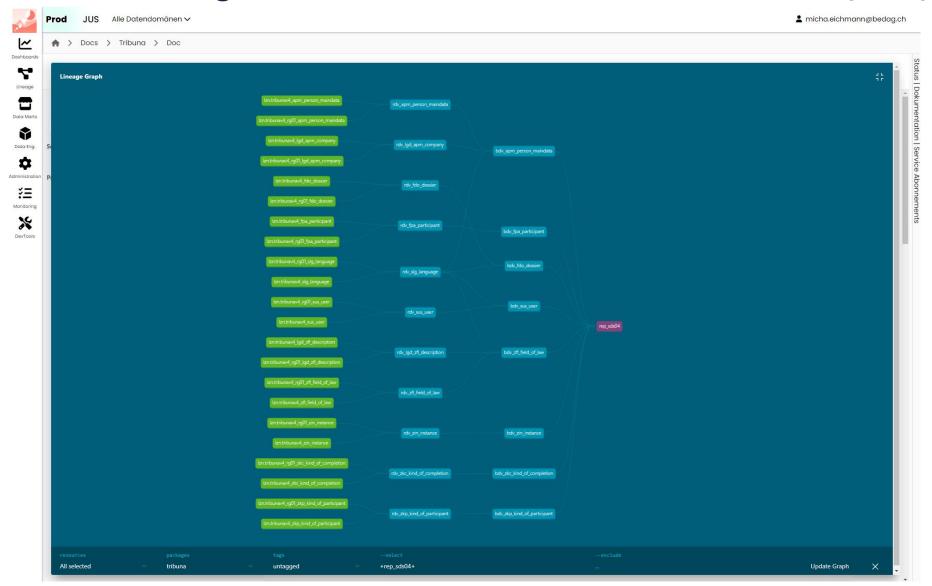




## Full transparency in product & in projects

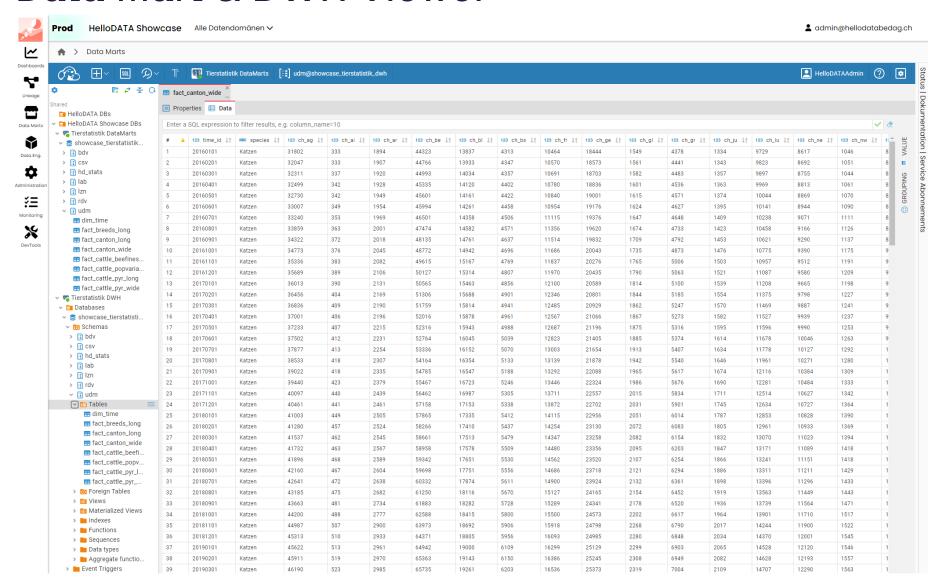


#### Data Lineage & Data Model Documentation (dbt)





#### Data Mart & DWH Viewer





# "Workspaces" Run the same HelloDATA project locally and on cluster



#### Workspaces – How we collaborate in multi-company teams



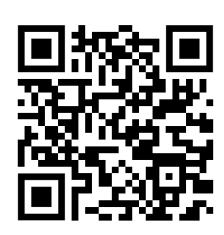
If you can build it, you can run it.



#### HelloDATA on GitHub

#### Visit us on GitHub:

github.com/kanton-bern/hellodata-be
The Open-Source Enterprise Data Platform
in a single Portal







## Thank you for your attention