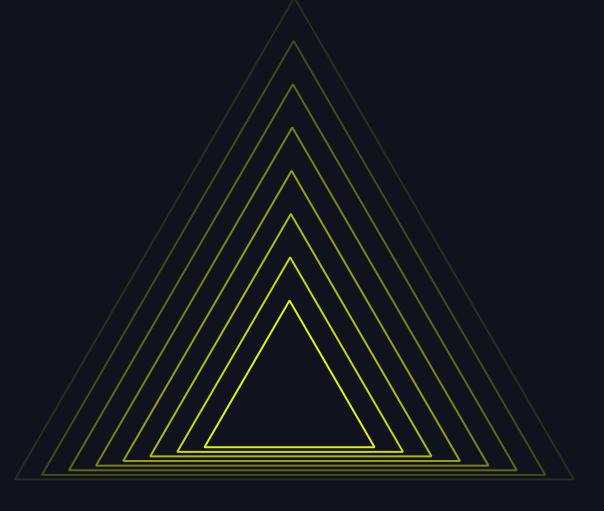


Pax' Journey from SAP to Databricks



Clemens Nickel & Jan Scharnetzky 11.06.2024



Background





insurance



Founded 1876



CHF 8.6 billion assets



Cooperative society



oldest active policy January 1956

SAP BW, SAP ERP & many SAP custom solutions





Life Insurance Context

Challenging business with very complex data



high degree of customization





challenging data quality





retrospective mutations







The Analytics Stack

Status Quo



SAP BW on HANA

- End of life 2028 (extended 2030)
- Complex Business Logic
- High costs & Performance limits

The logical candidate



SAP BW/4HANA

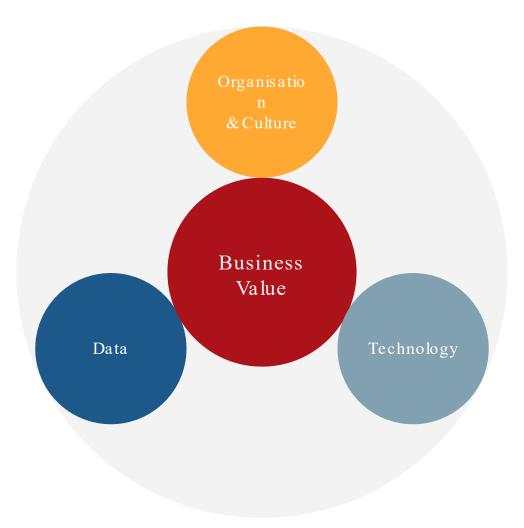
- Integrated in SAP Solution (ERP System)
- Simple Migration of Business Logic
- Strong Developers in house

Is there a better alternative?



- Cloud Strategy Azure
- Costs & Performance
- New business cases

Our Approach



Framework for the Journey





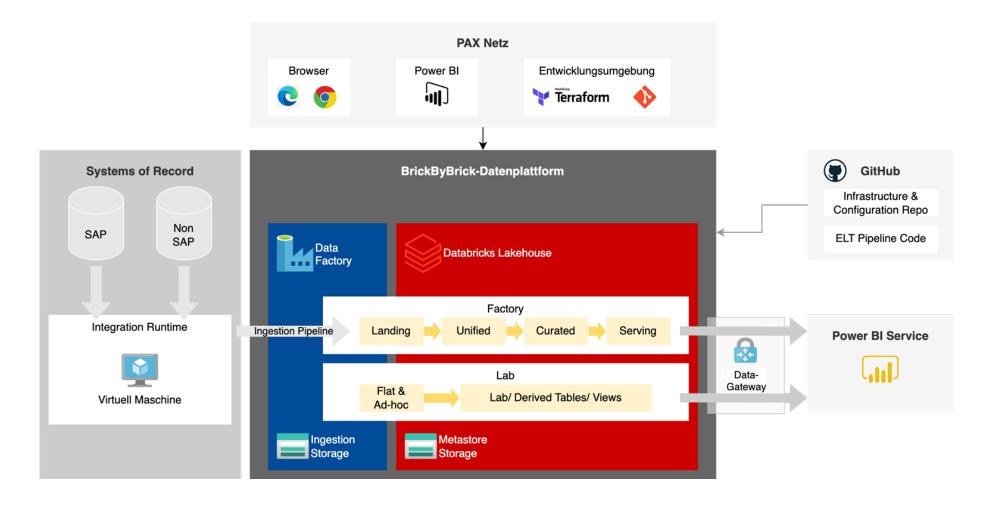


Proof of Value





Architecture

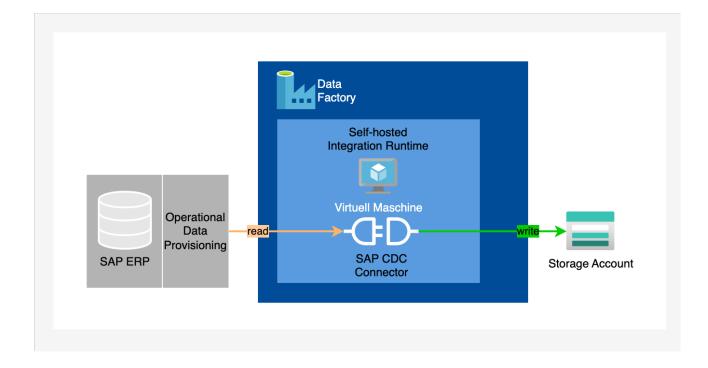


Zoom In: SAP Data Ingestion

In the center of the SAP Data
Ingestion is the SAP CDC
Connector integrated in the
Azure Data Factory with following
features:

- Using the ODP framework with Extractors
- It offers delta and full load option
- It allows Metadata-driven data extraction

Prod/Acce/Test/Dev-Spoke







Convincing Use Case

Easy Report + Speed + Chance of success EASY WAY HARD WAY Complex Analysis + Convincing + Acceptance HARD WAY Complexity / Effort



- Bitemporal modelling & retrospective corrections
- ~1 year initial development time
- ~10'000 lines ABAP Code
- ~2.3 billion records

.Pax

d-one.ai

Our Journey





Culture



Co-creation

Synergies

Appreciation

Culture





Excellent team chemistry



Extensive knowhow transfer to Pax



Specialized business process knowledge



Strong analytics & hands-on performance





Technolog Business Value





Value Proposition Technology

Value Drivers

1

Eliminate Cost & Complexity

Reduce Total Cost of Ownership (TCO)

Retire Existing Software Reduce data processing costs

Increase Data
Team
Productivity

Other 'hidden' cost & complexity

"Hard TCO benefits"

Softer TCO benefits

2

Accelerate Innovation

Business Use Cases...

Streaming, data warehousing & data science

- 1 Revenue
- **↓** Operational Risk
- **↓** Cost

... Accelerated with Databricks
Simplicity, Performance & Productivity

'Go-live' sooner

Scale faster







Data Team Productivity

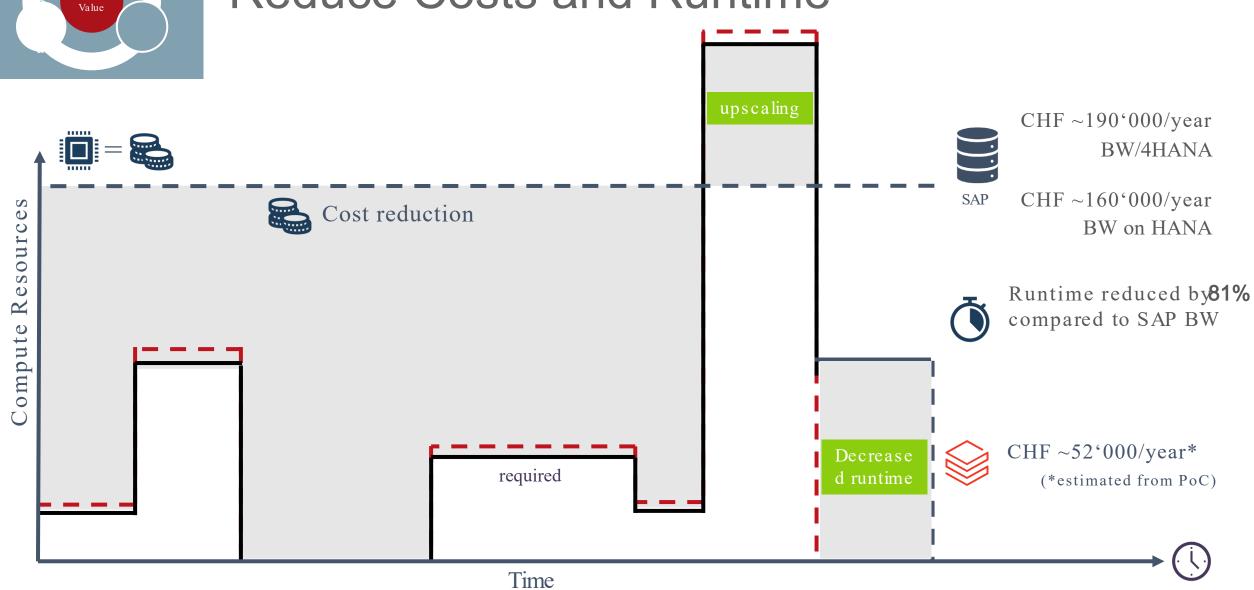
.Pax



d-one.ai



Reduce Costs and Runtime





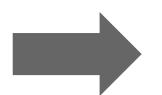
Retire Existing Software

Status Quo

Lack of self-service capabilities on SAP BW

Numerous non-centralized business solutions





Target Operating Model

Databricks for data analysis and self-service

Power BI as reporting solution



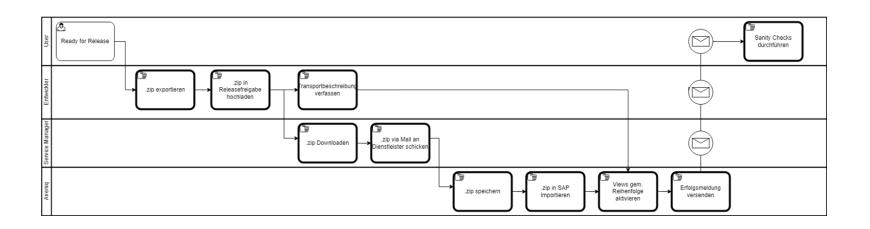




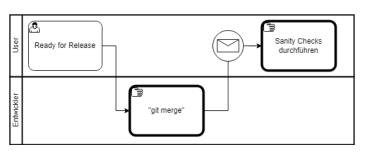


Other hidden Costs - Releases















Value Proposition Technology

Value Drivers

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Organization



IT must serve business

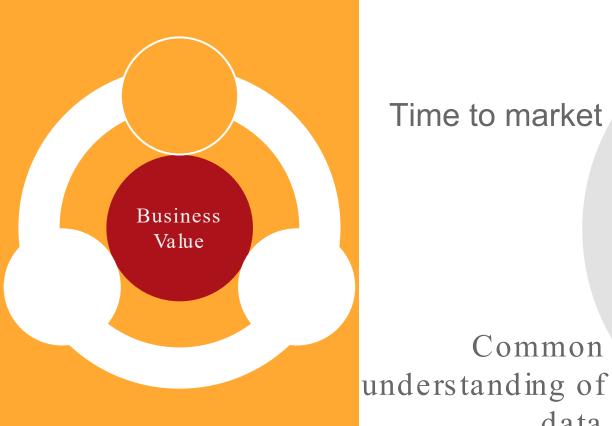


25 interviews with all business areas



relevant criteria for business value

Organization



Time to market

Common

data



Self-service

We require substantial improvement





Central data hub



Organization





Status Quo





Weighted requirement fulfilment score







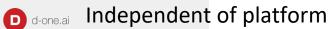






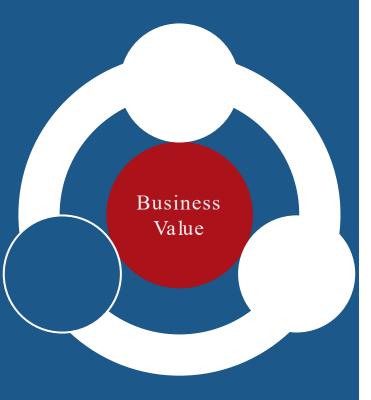






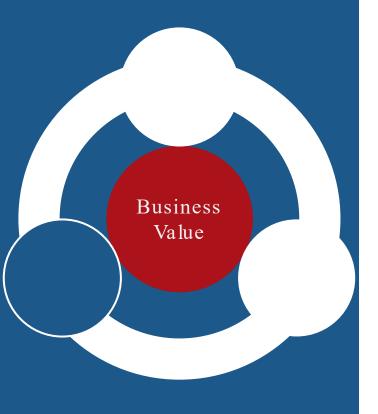


Data





Essence of curation

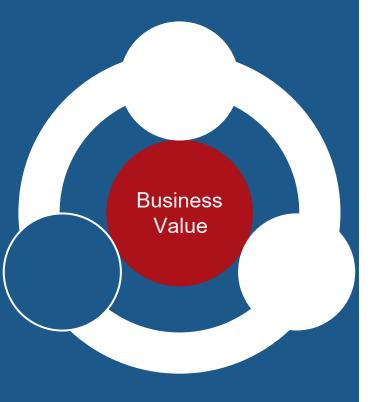






VS.

Data Modelling



Separating the data elements according to functionality into hubs, satellites & links Curating the data incl. calculation of derived quantities, harmonisation, consolidation Shaping the data into dedicated & tailored access interfaces

Landing

Temporary layer
within the
Information
Factory to enable
data processing

Unified

Single version of facts
Storage of the data as raw as possible fully historized

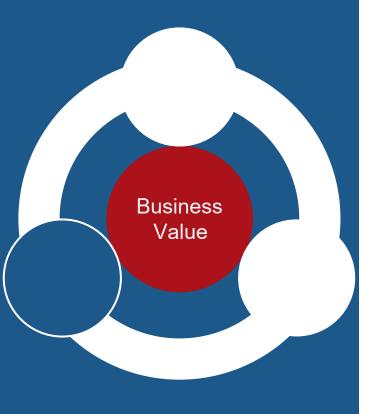
Curated

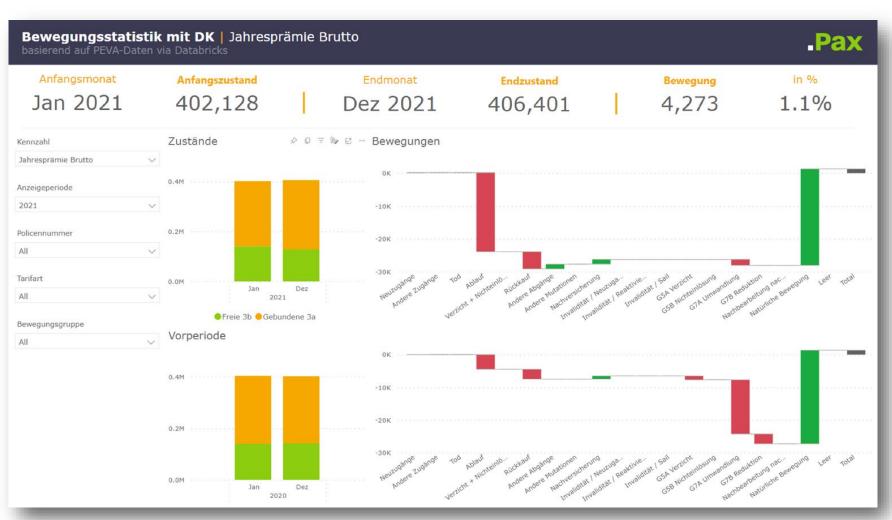
Curated & consolidated data that supports multiple versions of the truth depending on business domain

Serving

Dedicated & tailored access interfaces for the various data consumers

Data Visualization



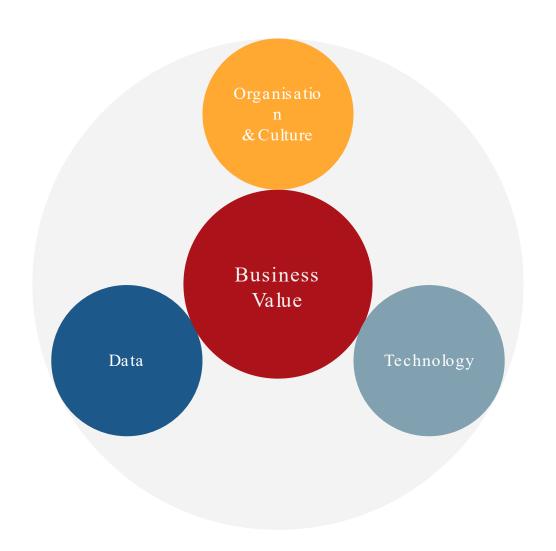


mock data





Our Journey



Executive Board Decision









Organisatio n & Culture

Self-service platform to reduce time to market Increase data literacy across the organisation

Technolog y Reduce cost and increase performance Simplify the technical landscape

Data

Data model living up to the complex requirements Enterprise data catalog & lineage

Outlook & Our Vision





Immediate Use Case

Replacement of a legacy se-kfeveloped information system for insurance claims







Cluster Scaling



Onboarding



Connectivity

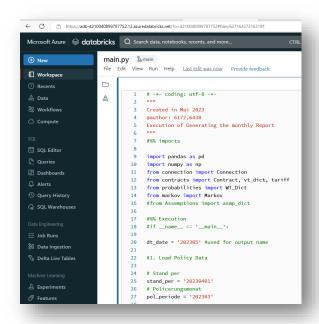


Fun to work and a great success





Excitement Across the Organization



Product & Pricing

PoC Kundenportal **SQL** Endpoints



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OpenAl

... the value has been recognized company-wide





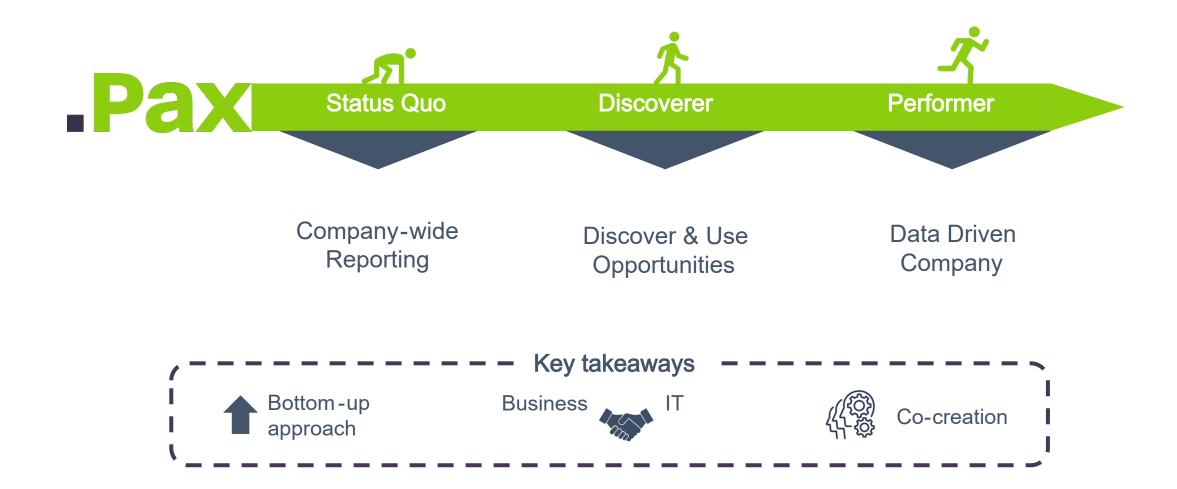
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The Journey Continues at Pax



DATAI SUMMIT

Your questions are welcome!



