



# beyond bim

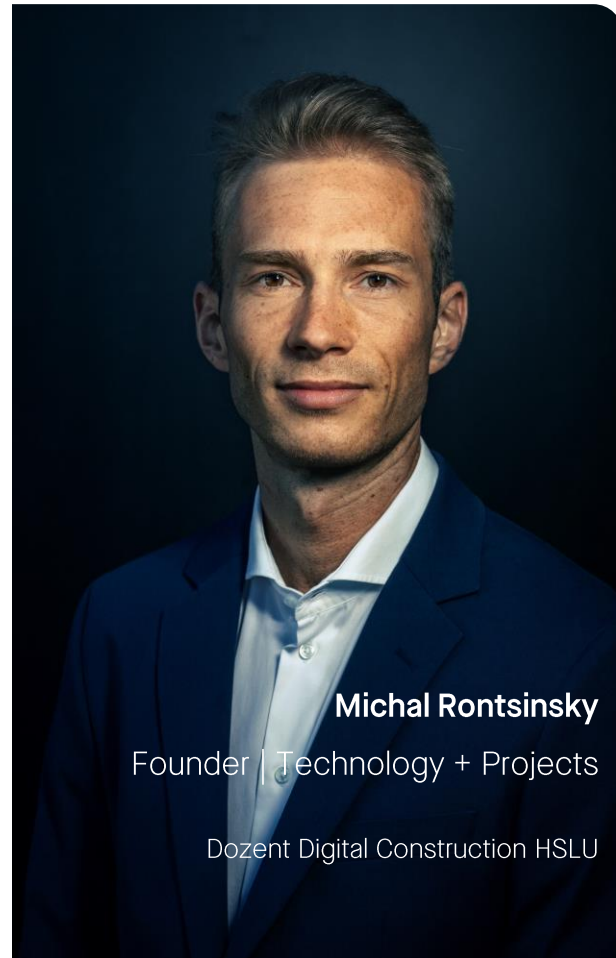
IFMA | 05.06.2023



# from data to value

Life Cycle Data Management – konkret umgesetzt

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beyond  
bim

we empower people  
on their way to our  
digital future

People

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beyond  
bim

**ETH** zürich

 Alfred Müller

**HOLINGER**  
the art of engineering

**ZOO***h!*  
Z Ü R I C H

 INSELGRUPPE

FLUGHAFEN ZÜRICH

 IMMOFONDS  
asset management

Kanton St.Gallen  
Hochbauamt



bonacasa

 **EY** Parthenon

**MIGROS**



 Stiftung Gesundheitsförderung  
Bad Zurzach + Baden

 **BAUEN DIGITAL SCHWEIZ**  
BÂTIR DIGITAL SUISSE  
COSTRUZIONE DIGITALE SVIZZERA  
CONSTRUIR DIGITAL SVIZRA

Home of  buildingSMART.  
Switzerland



Portfolio

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**ANFORDERUNGEN**

**FM SICHT**

**LÖSUNG**

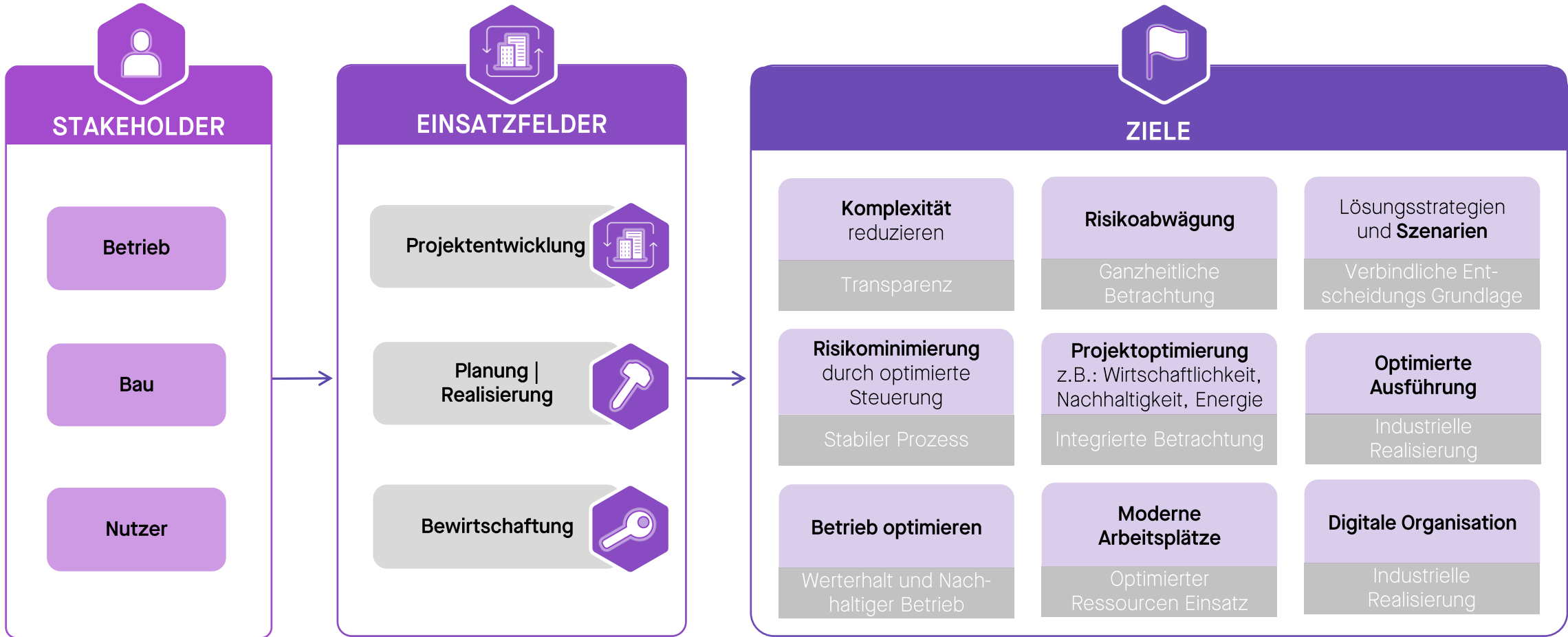
**RUN TIME ENVIRONMENT (?)**

**LIVE BEISPIELE**

Inhalt

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# ANFORDERUNGEN

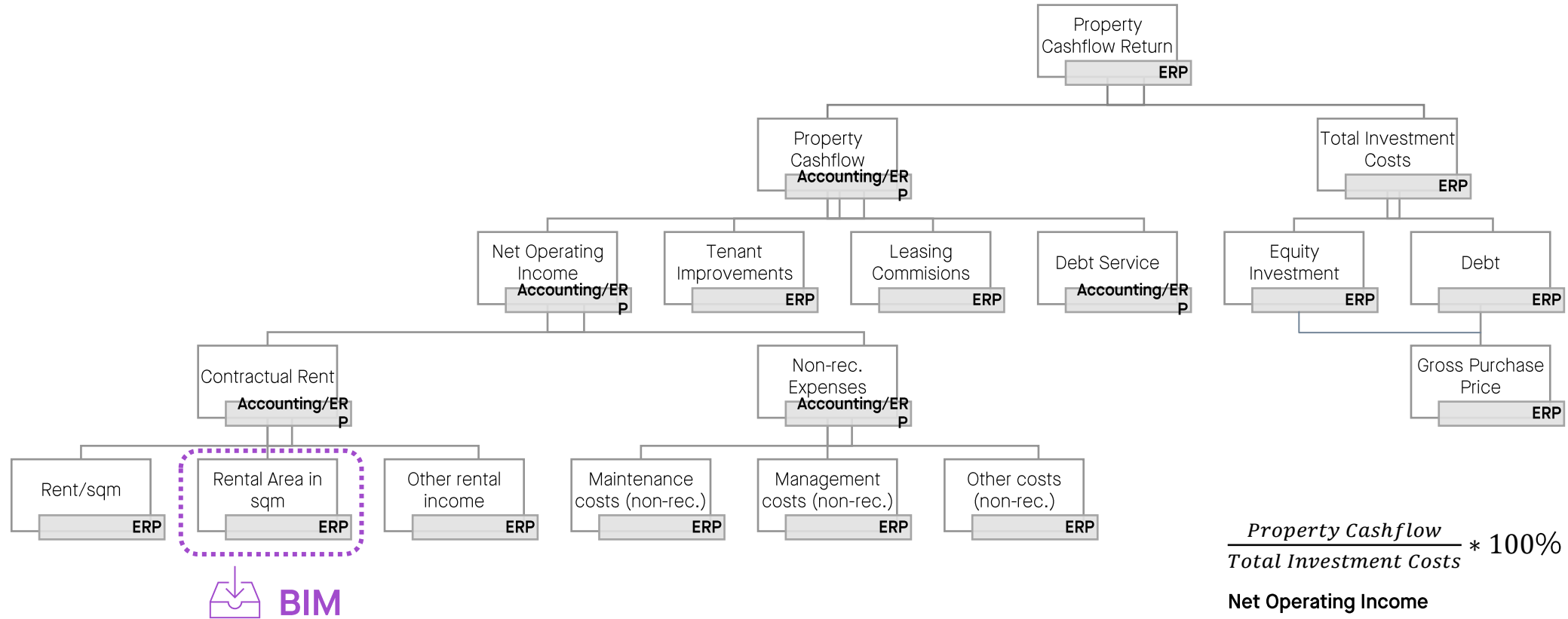


**Legende:** Digitale Hebel  
WIRKUNGSEBENE

Anforderungen

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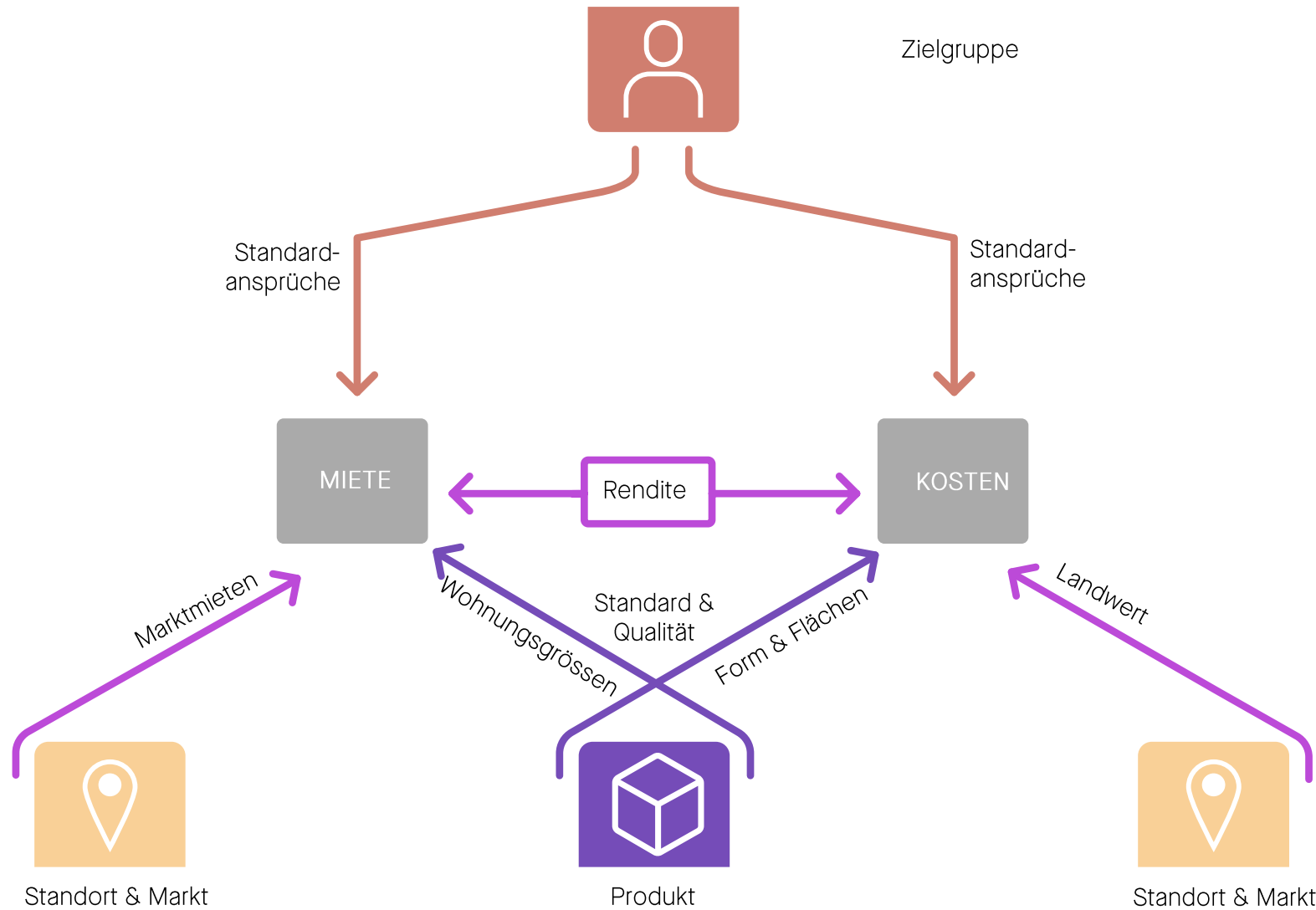




$$\frac{\text{Property Cashflow}}{\text{Total Investment Costs}} * 100\%$$

- Net Operating Income**
- Tenant Improvements
  - Leasing Commissions
  - Debt Service
  - =Property Cashflow

Rendite (?)



# FM SICHT

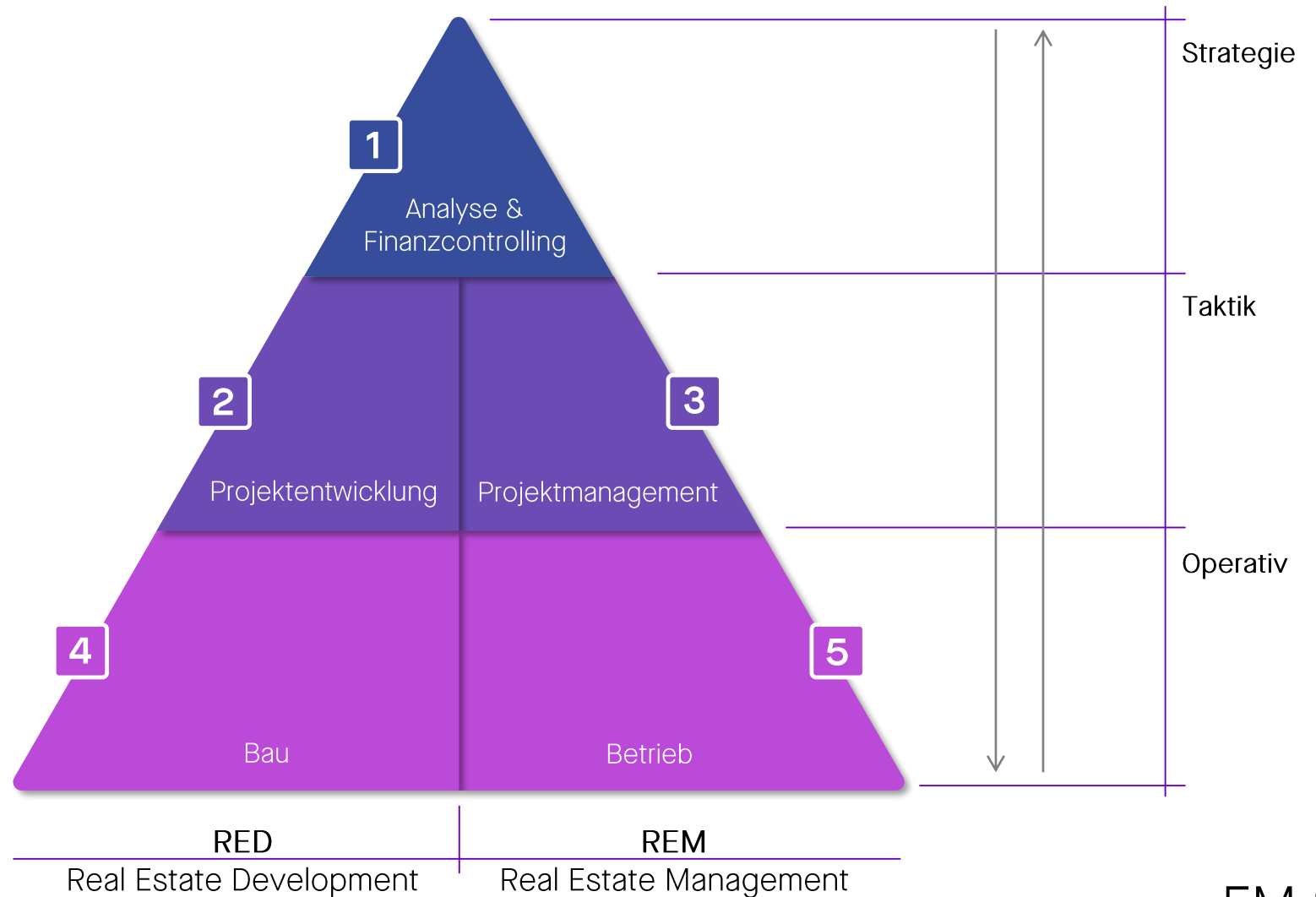
**1** Analyse & Finanzcontrolling  
Soll-Ist-Vergleich und Reports

**2** Portfolio Management  
Realisierung und Projektsteuerung

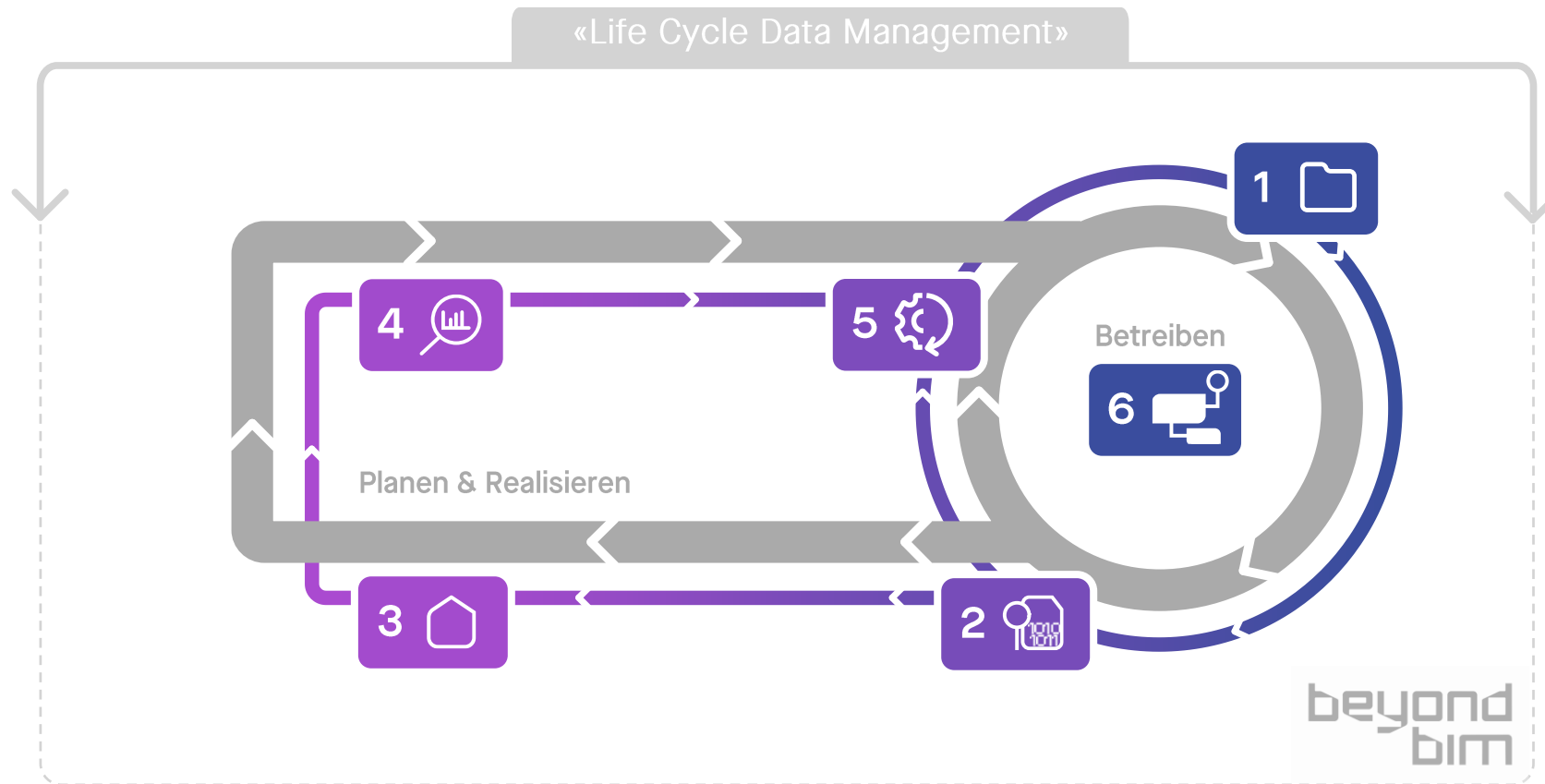
**3** Projektentwicklung  
Verwaltung aller Prozesse

**4** Bau  
Kontrolle des Bauprojekts

**5** Betrieb  
Bewirtschaftung des Portfolios



# LÖSUNG



- 1** Ableiten der digitalen Anforderungen aus Zielsystemen
- 2** Überführung in Bestellerinstrumente
- 3** Management und Optimierung, Planung und Realisierung
- 4** Qualitätsmanagement der digitalen Ergebnisse
- 5** Datenüberführung in Zielsysteme
- 6** Informationsübertrag zwischen Zielsystemen

# RUN TIME ENVIRONMENT (?)

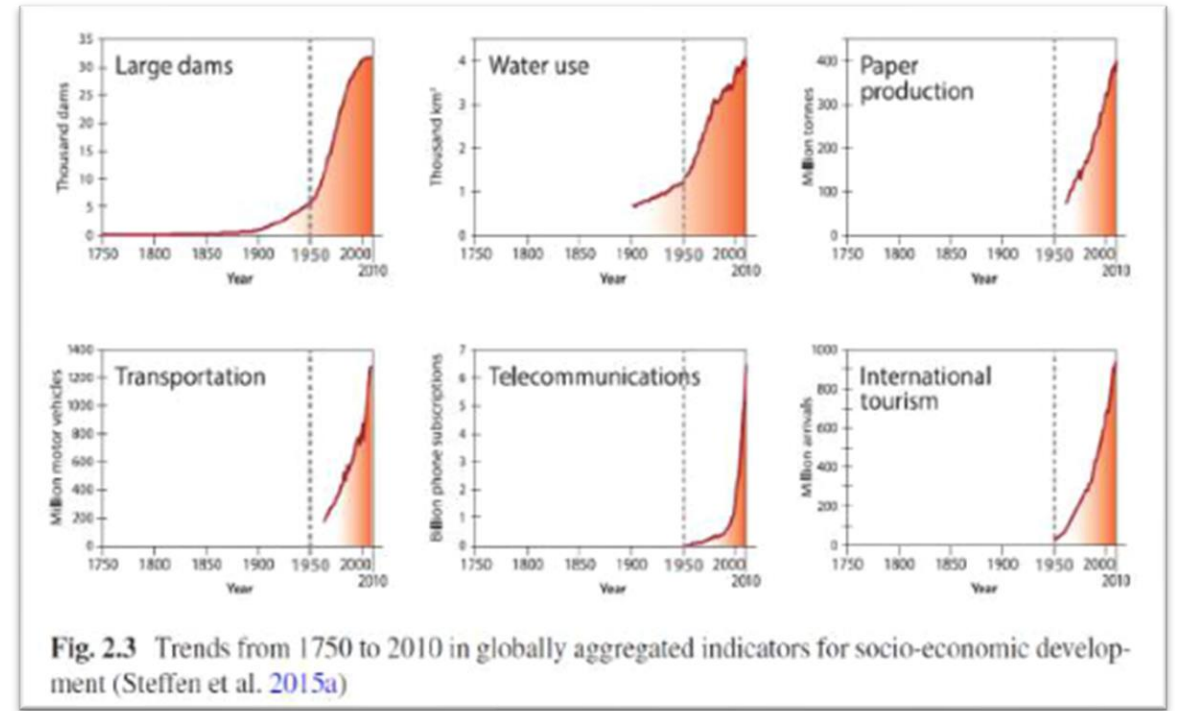
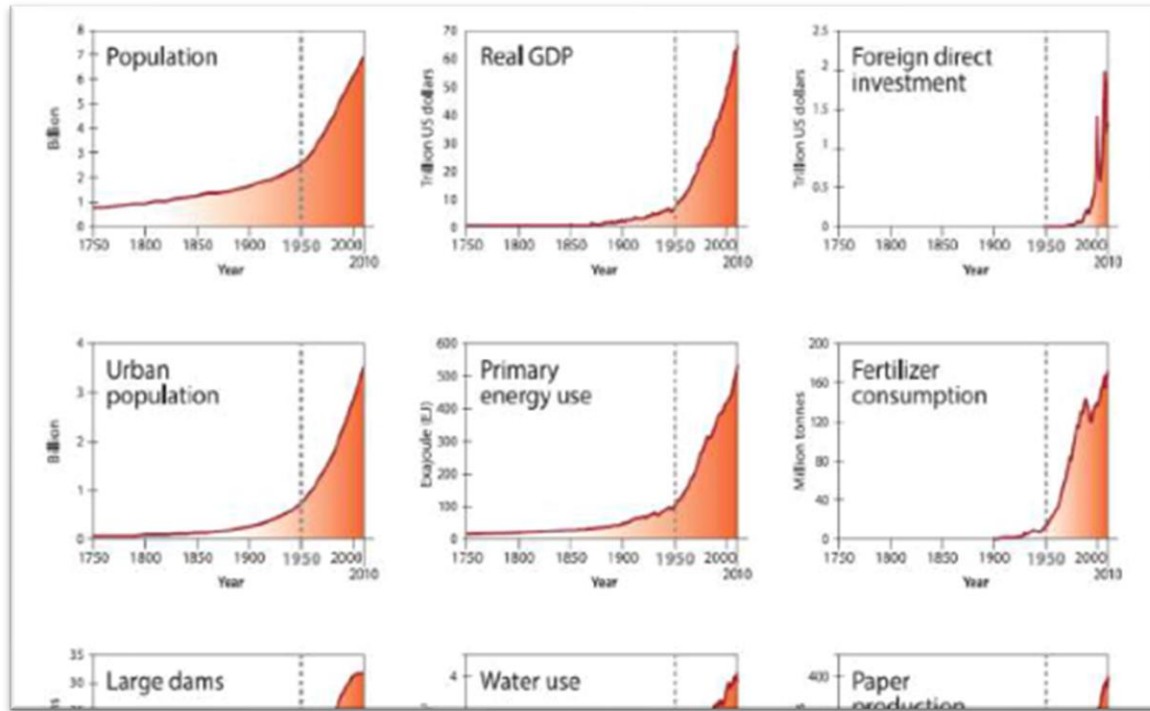


Fig. 2.3 Trends from 1750 to 2010 in globally aggregated indicators for socio-economic development (Steffen et al. 2015a)

Run Time Environment (?)

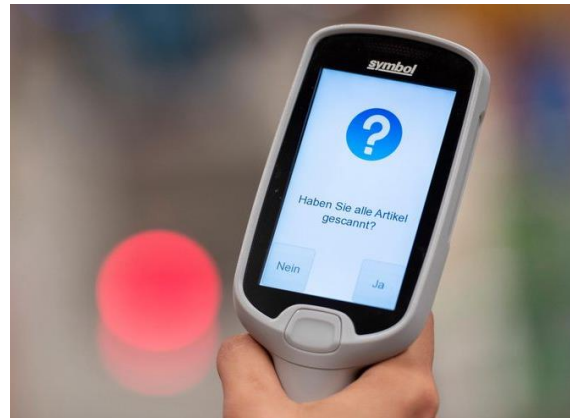




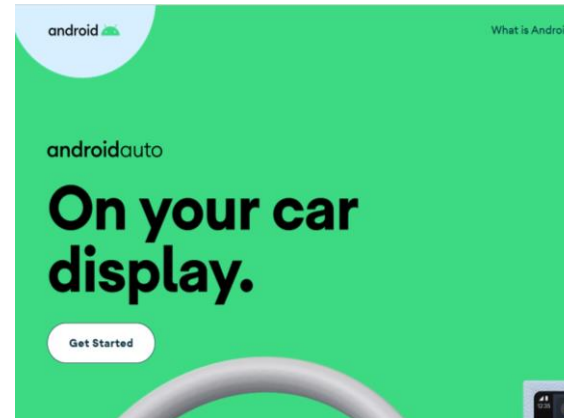
1965



2011



2020



Nov. 2022



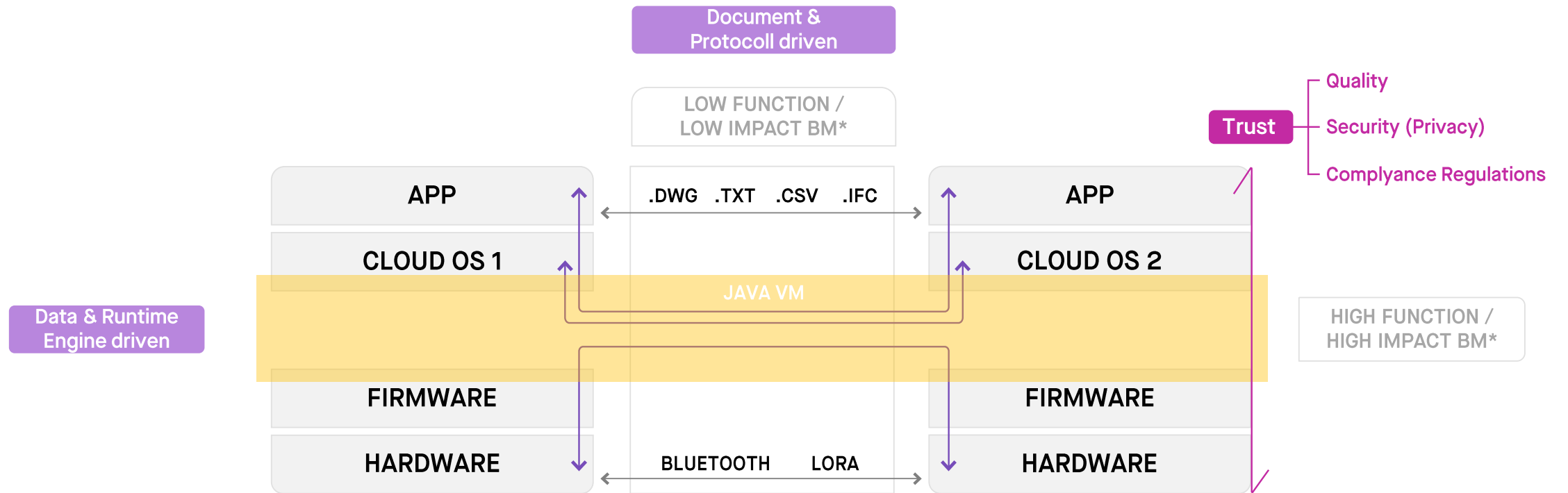
Run Time Environment (?)



<https://chat.openai.com/share/dfc20e8e-7417-46d6-92a2-60204ca3a166>

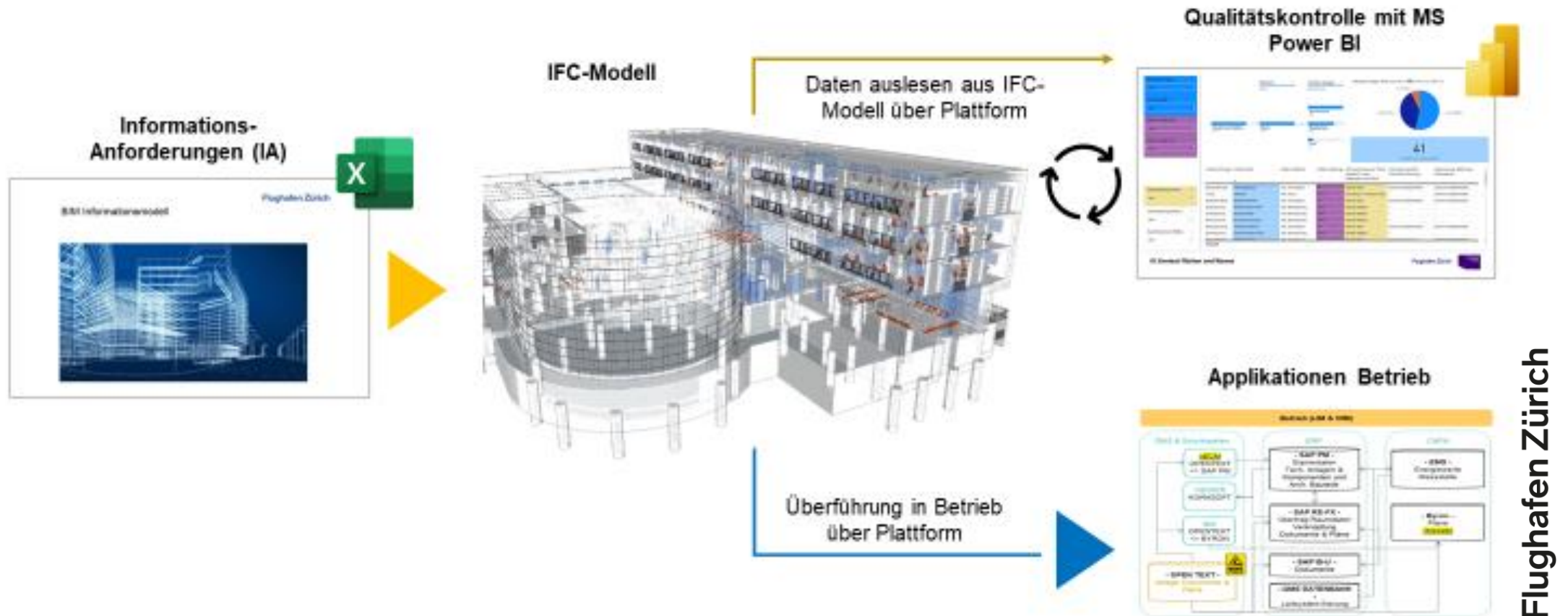
Run Time Environment (?)

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## Run Time Environment (?)

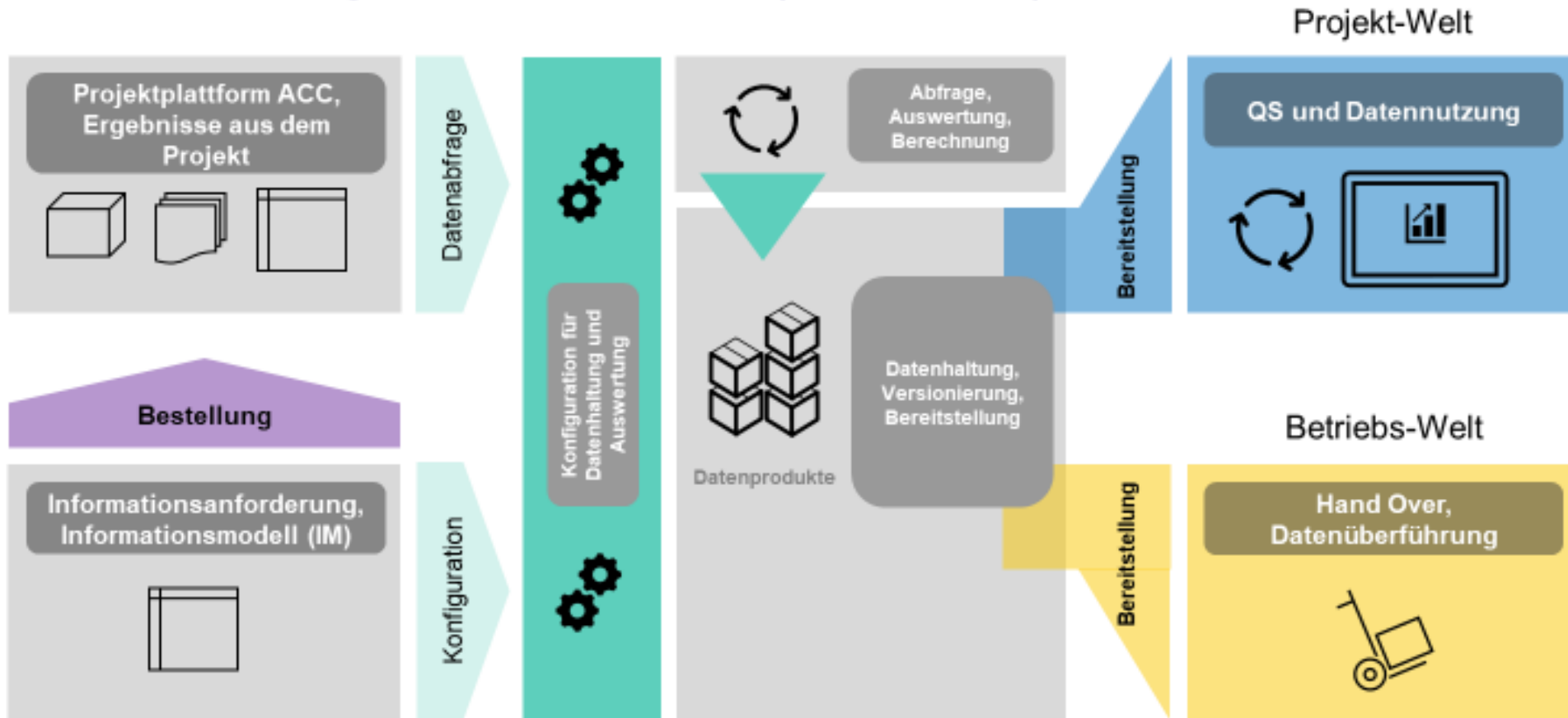
# Qualitätsmanagement der Daten



Beispiel FZAG

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# Qualitätsmanagement der Daten

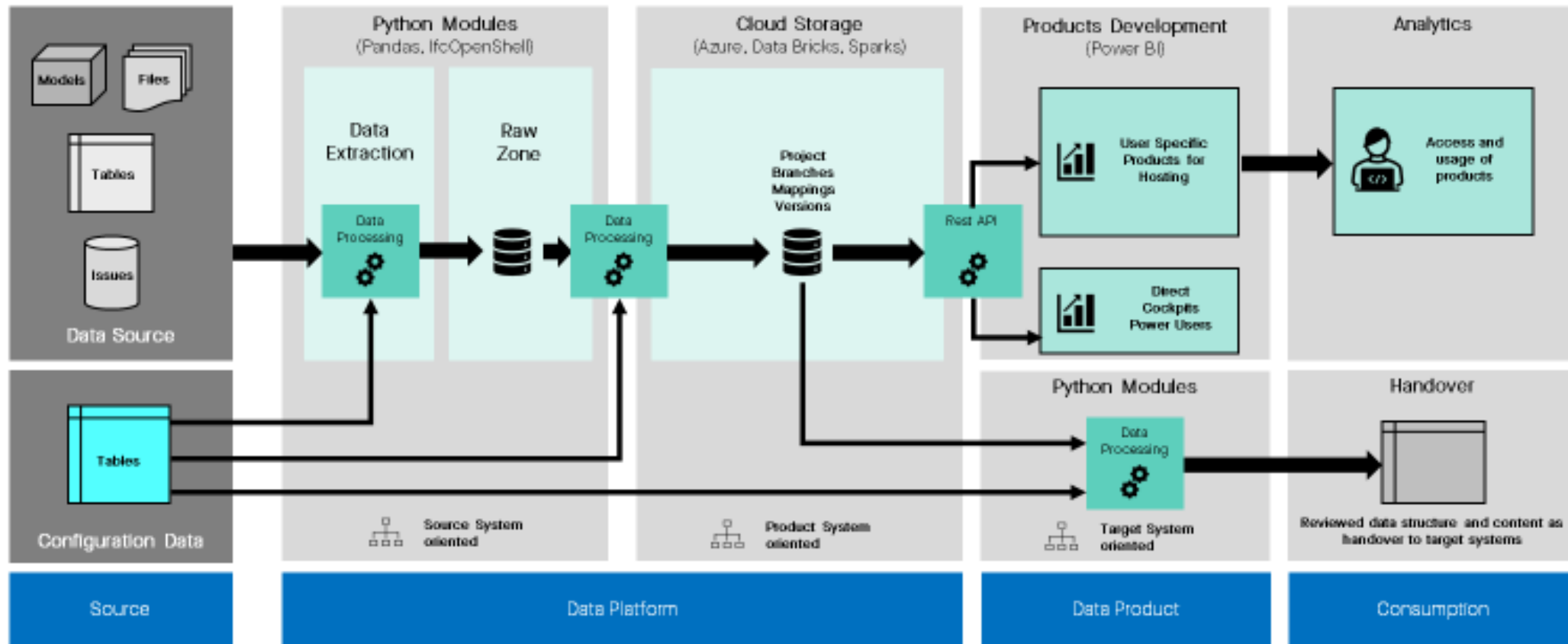


Flughafen Zürich

Beispiel FZAG

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# System-Architektur FZAG-Plattform (ZRH-Bridge)

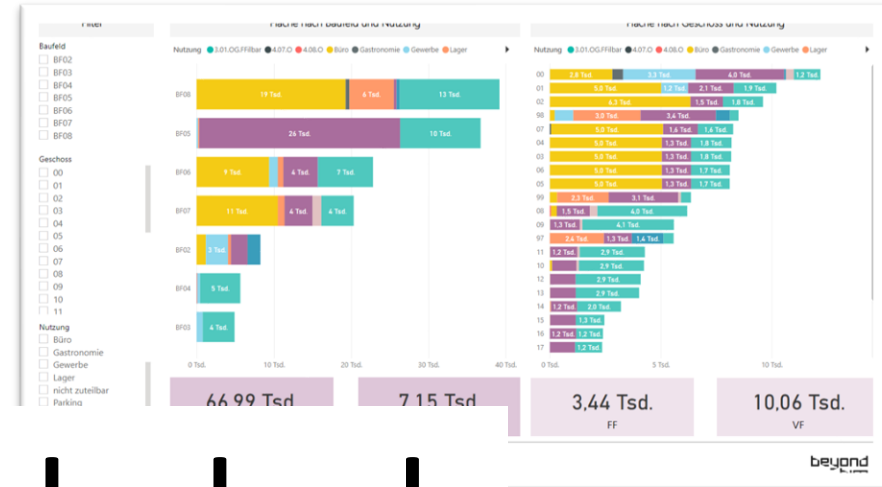
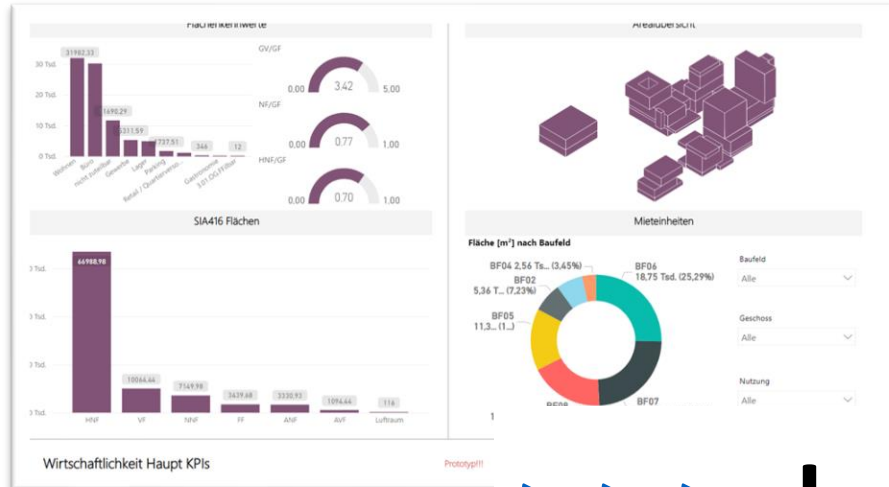


Flughafen Zürich

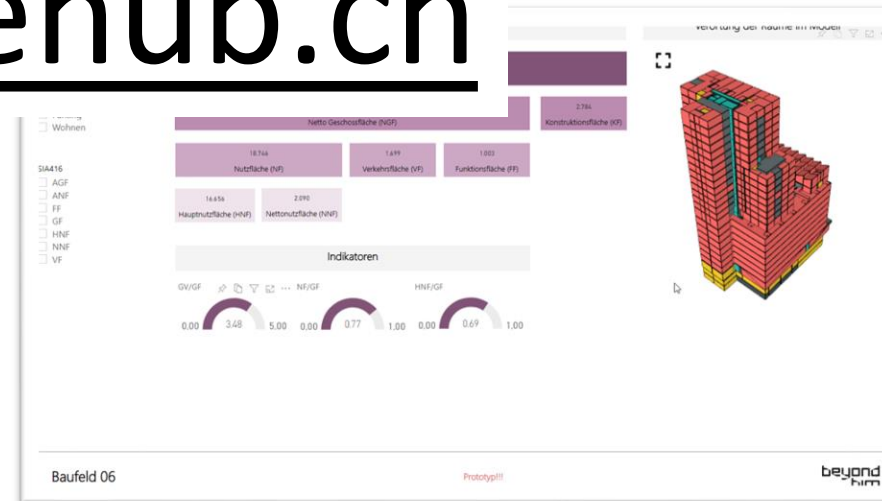
Beispiel FZAG

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# LIVE BEISPIEL



# >>> Lakehub.ch





**WIR HABEN KEINEN PLAN**



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