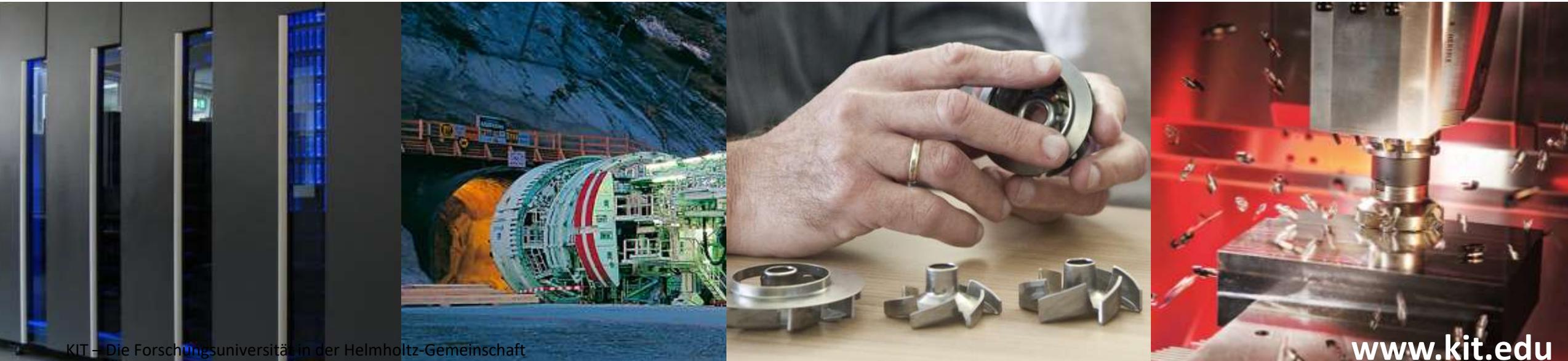


# Accelerating Data Analytics

Prof.Dr. Michael Beigl. [teco.kit.edu](mailto:teco.kit.edu)

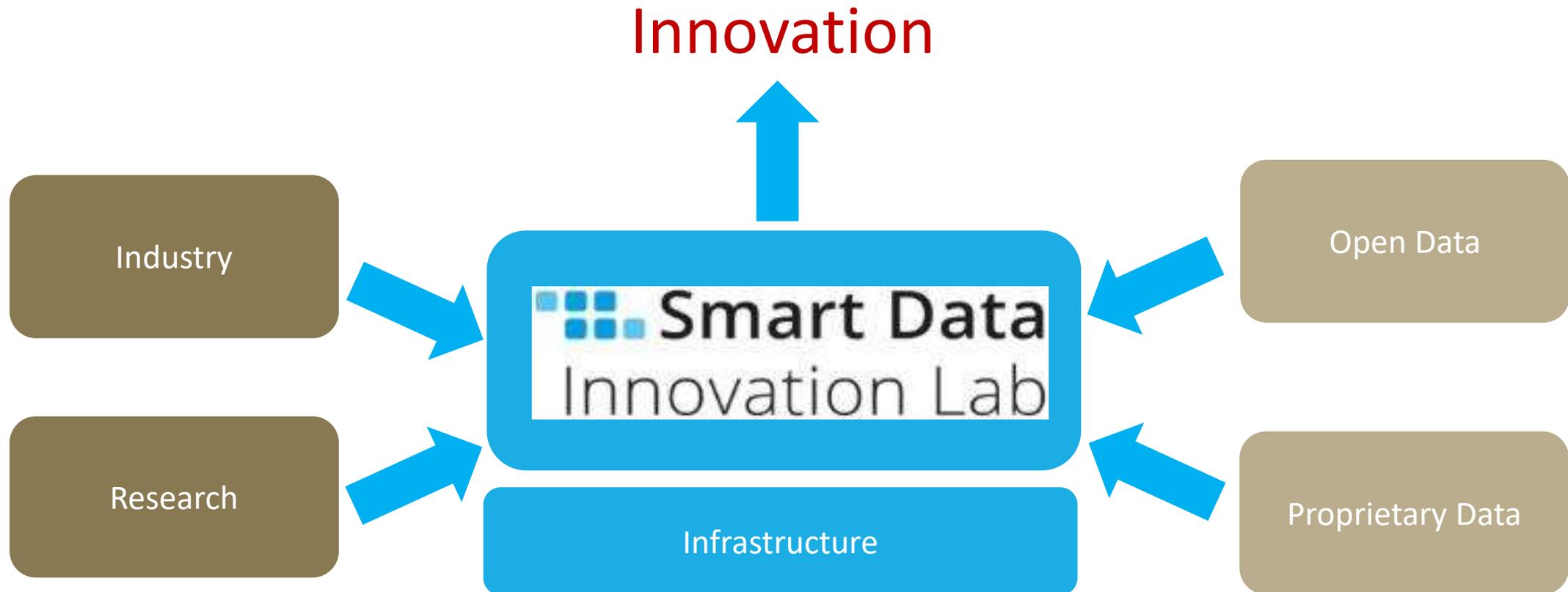


## – Smart Data Innovation Lab (SDIL)

- National Big Data center, plus a State Big Data competence center (SDSC-BW) plus a community effort
- Run by multiple parties from Industry and Academia (core partners)
- Analytics of large, non-open data esp. For/with *Industry and SMEs*
- Newest analytics and in memory systems and software also from industry (z.B. SAP HANA, IBM Watson, Software AG Apama, Huawei Fusion Insight ) and powerful computing infrastructure
- Curation of Data using IDS ontology
- **Over 50 projects** have been run in SDIL during the last 3 years



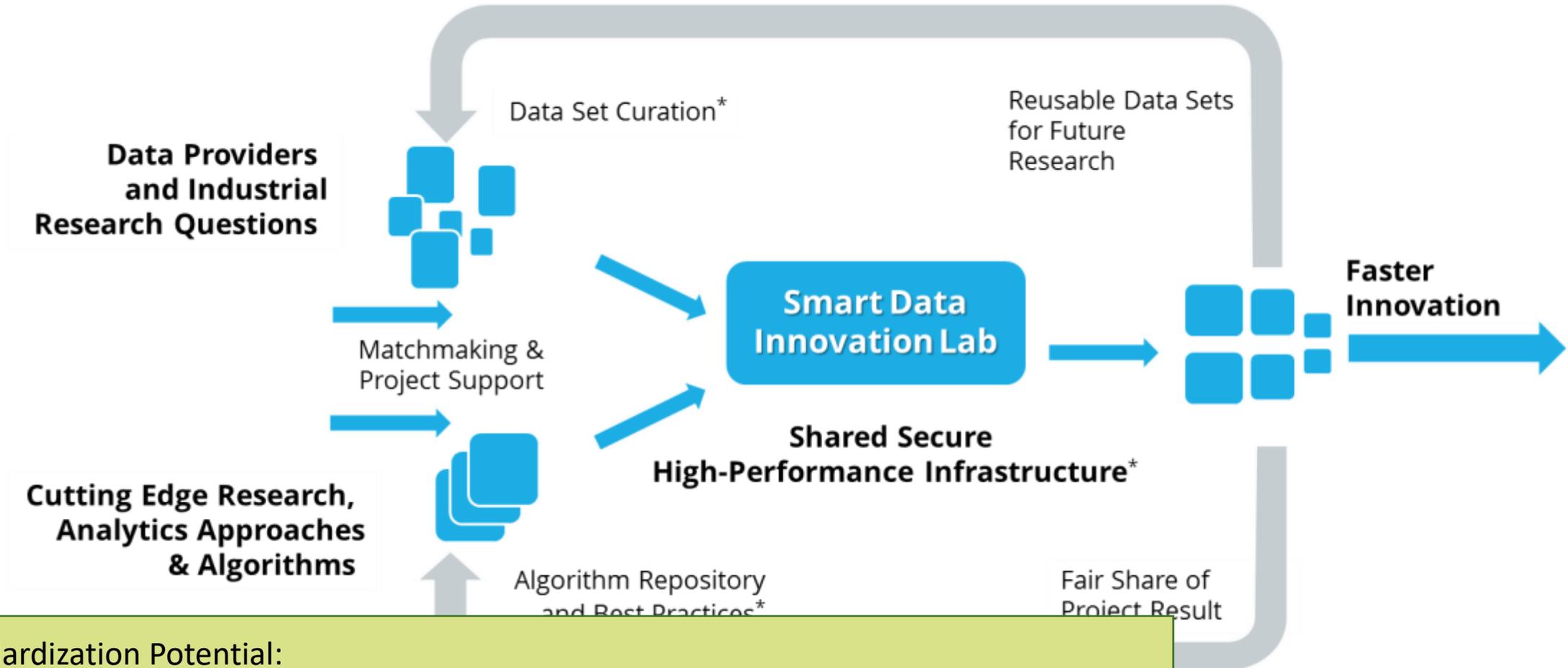
# Concept of the Smart Data Innovation Lab



# Accelerating Data Analytics

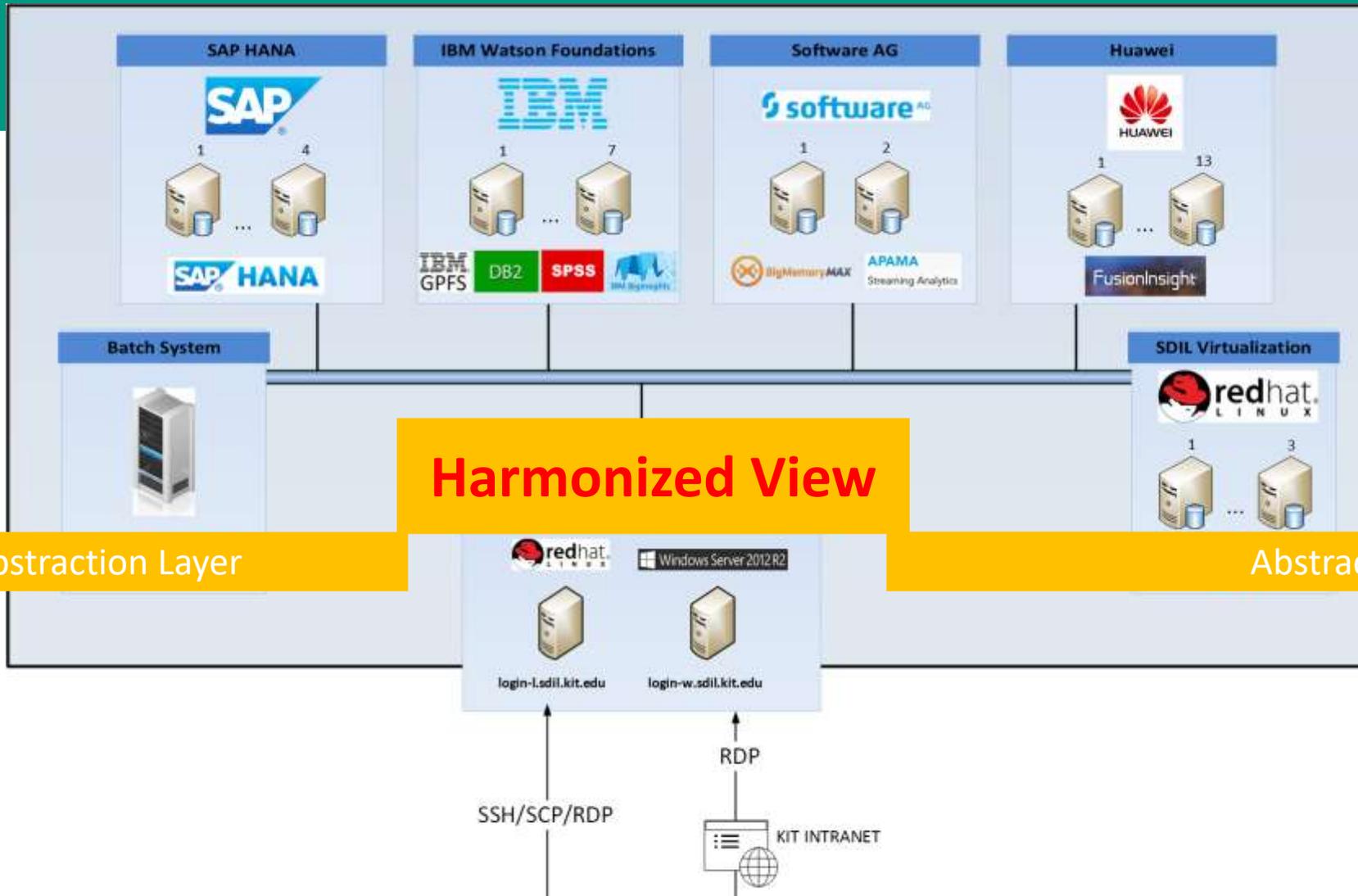
- Bootstrap
- Harmonize tools
- Define your processes
- Establish a network
- Design competences

# 1) Bootstrap



Standardization Potential:  
- Data Curation





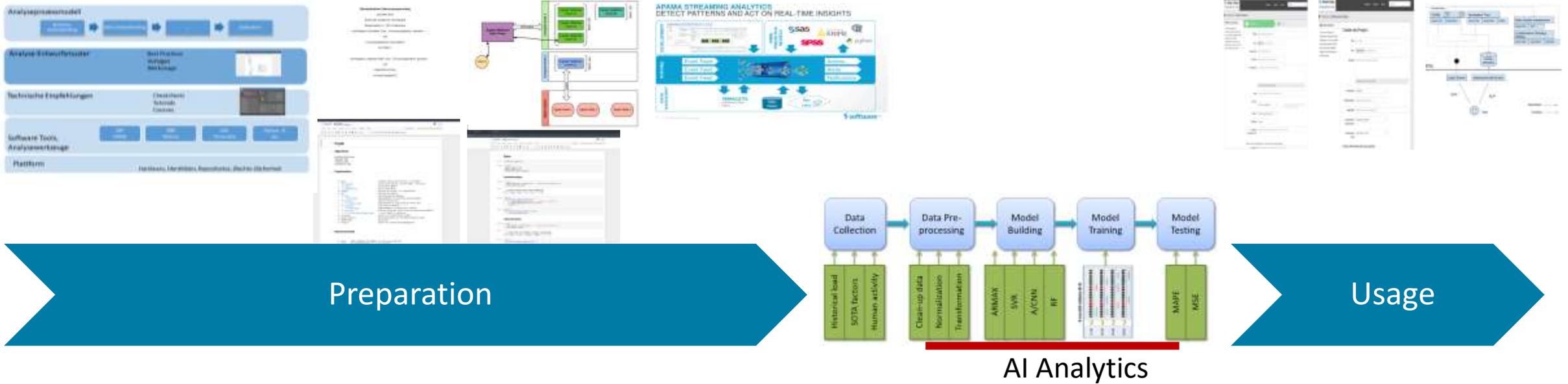
Abstraction Layer

Abstraction Layer

Standardization Potential:

- Common view on the many systems and tools beyond vendors and influence groups

# Analytics Process



# Define processes

- E.g. specially suited for SME
- **Funded One-Month-Projects in Baden-Württemberg**
  - Practical evaluation of Data potential
  - Initial Analytics
  - with Strategic Impact
  - Method: Clear Step-Wise Process = Acceleration
  - Legal Framework



• First contact

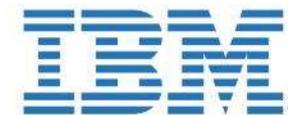
• Data hand over

- Recommendations
- Next steps
- Hand-over

Standardization Potential:  
- Best practice processes

# Establish a network

- You cannot do all the work alone
- Companies need to take over
- In various roles, specialization needed



## Standardization Potential:

- Hand-over interfaces to industry
- Industry/Research compatible Analytics platforms

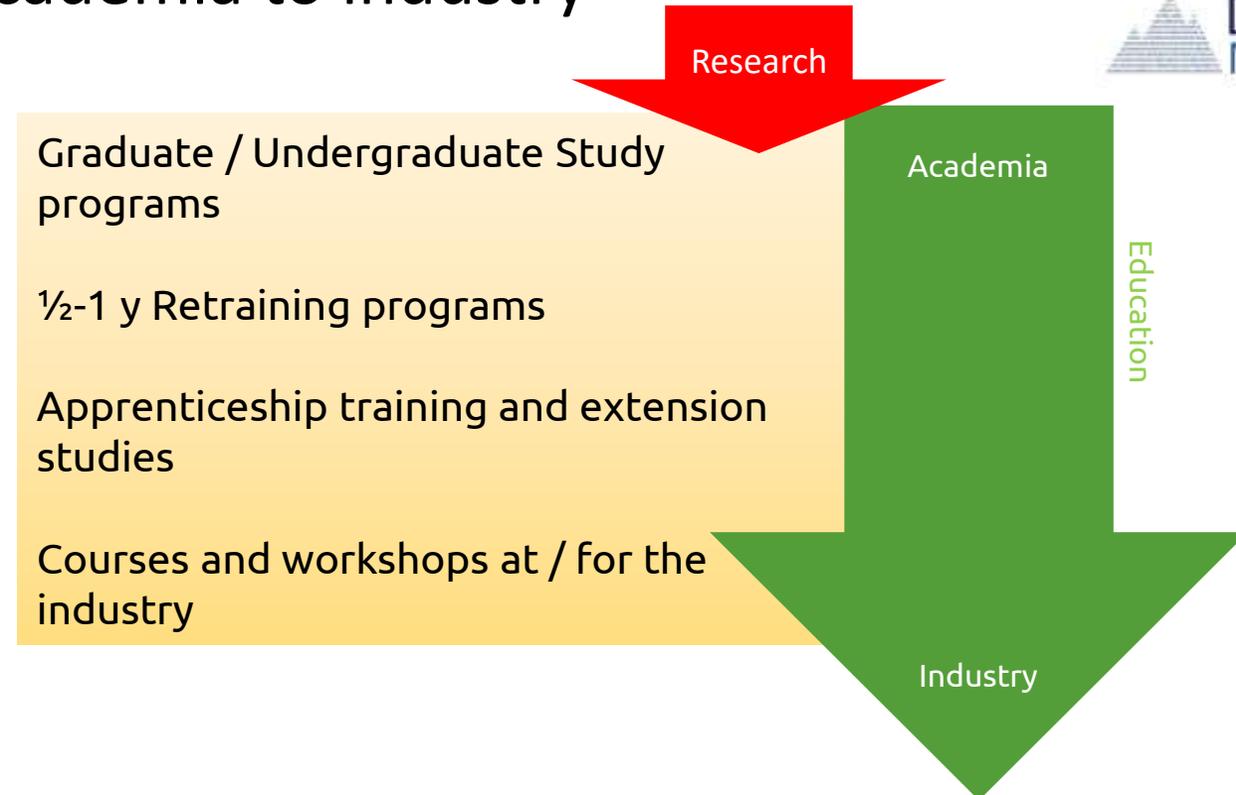
# Design Competences

- Constant education, for your own people and your „customers“
- Shifting the knowledge from Academia to industry
- Thus accelerating data use and data science



Standardization Potential:

- Common Courses
- Curricula for various cases



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