



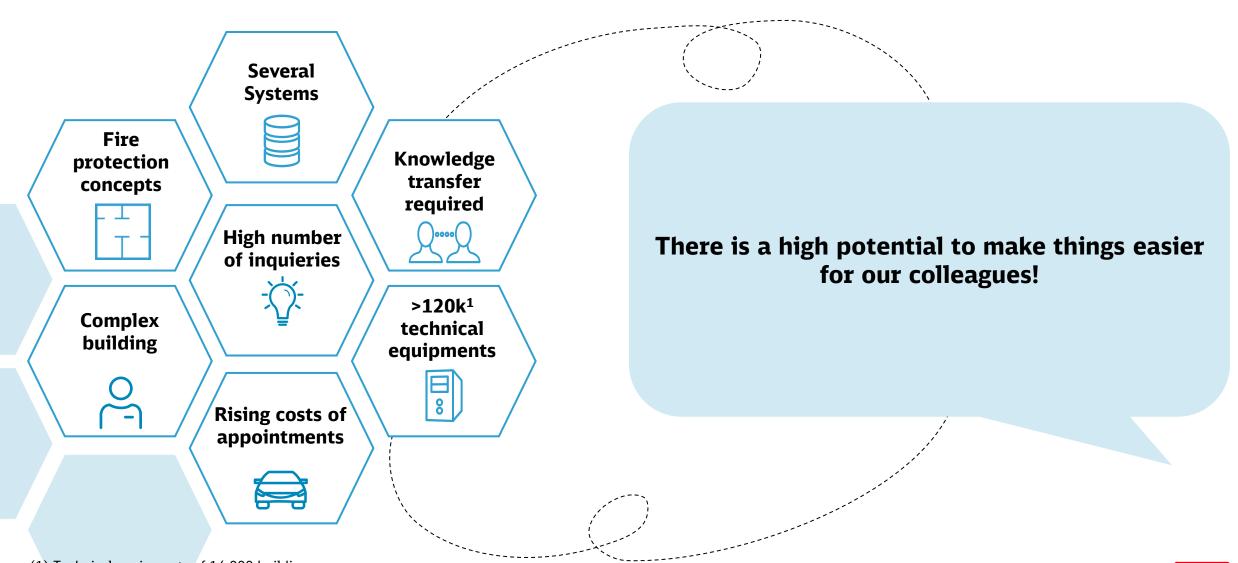
How many DB ticket machines are at Darmstadt main station?

How many fire extinguisher and fire bulkheads?

And where are they?

There are several hurdles, which make facility management of more than 5.300 train stations and 14.000 buildings inefficient





Introduction – who are we?



As a multidisciplinary in-house consulting team with many years of expertise in the development of IT strategies and functional know-how, we help our partners with digital transformation and the development of innovative business models!



Our **focus** is on our **partners** and their wishes!









Felix Coudoux

Felicitas Fetzer

Mathilde Burgaud

Christopher Hepfer

We connect business and IT.













Patrick Dickhaut

Jakob Haarbeck

Monika Mackiewicz-Atanaskovik

Max Kossielny

Stefan Weber



Your **digital transformation** is in good hands with us.









Andreas Dierkes

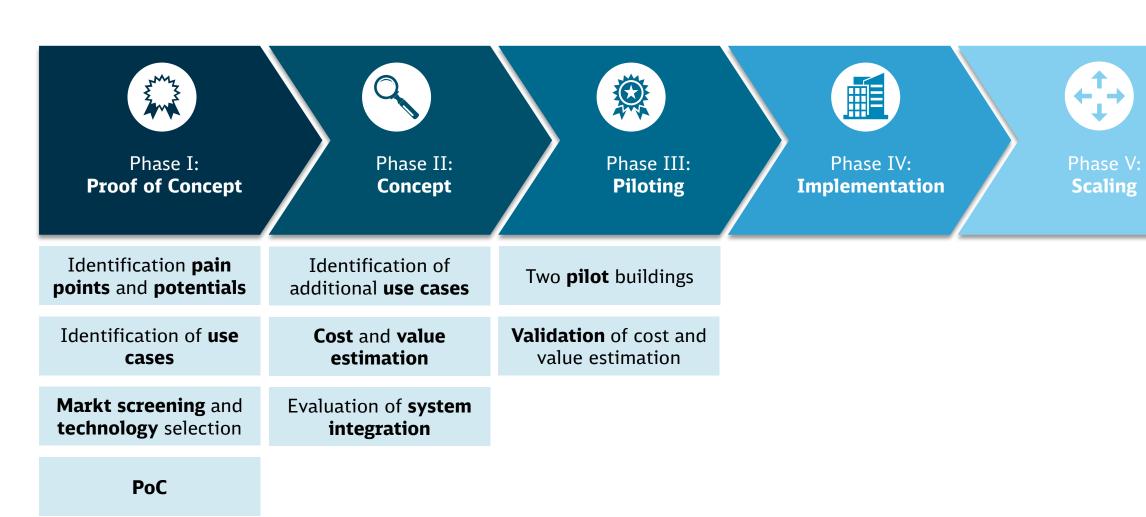
Sibylle Hopfgarten

Benedict Haas

Dr. Konstantin Dörr

How did we approach the problem?





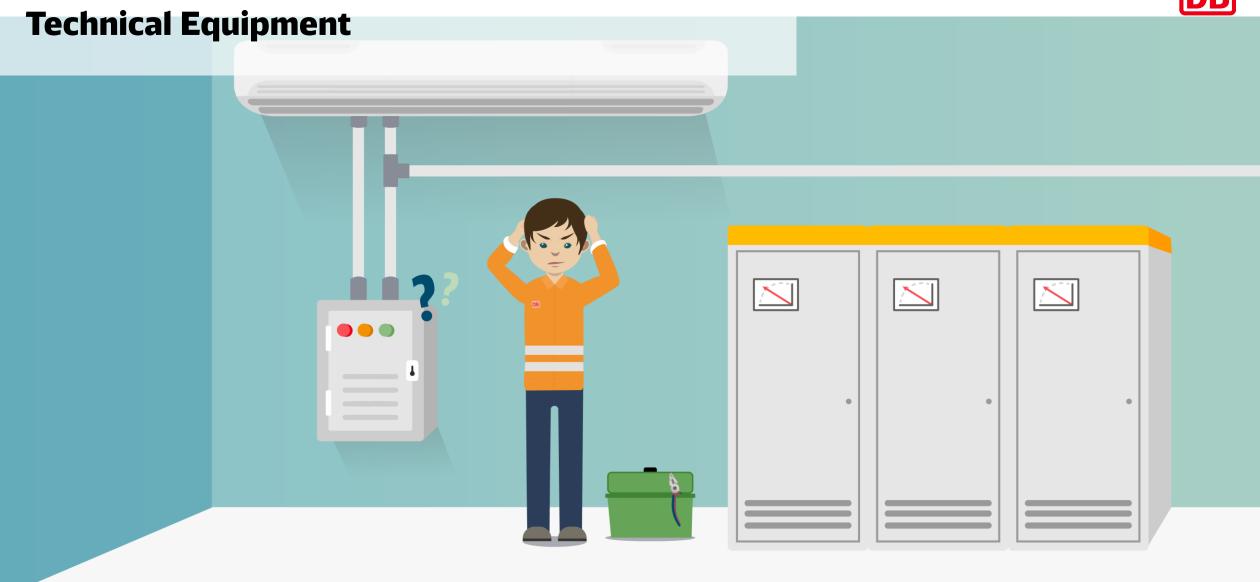




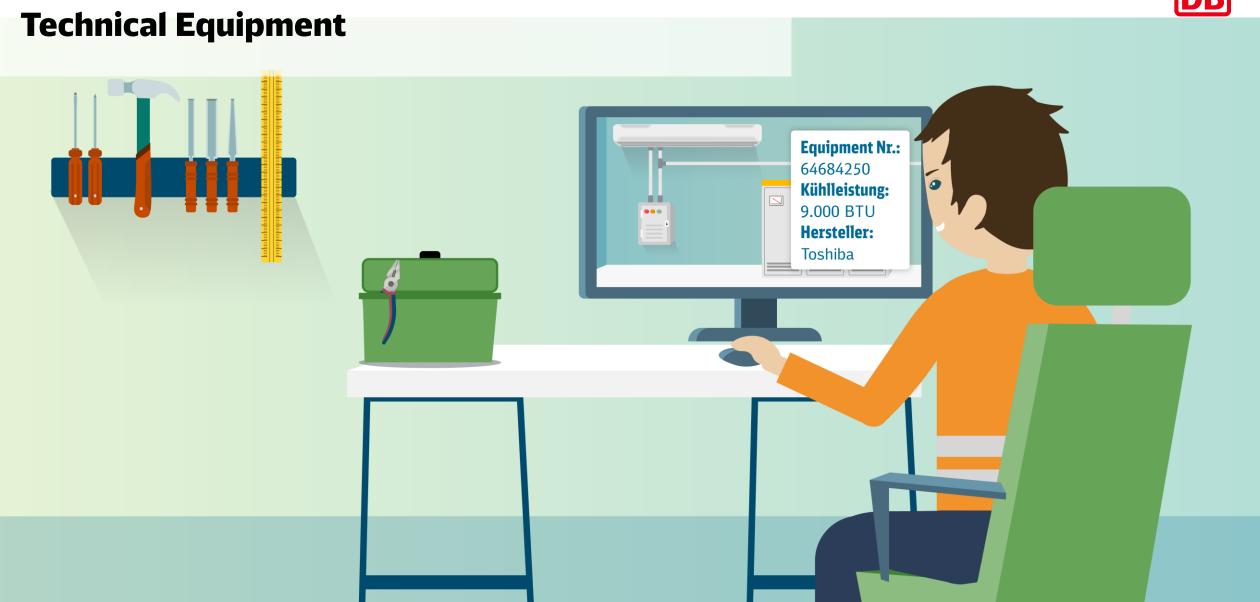


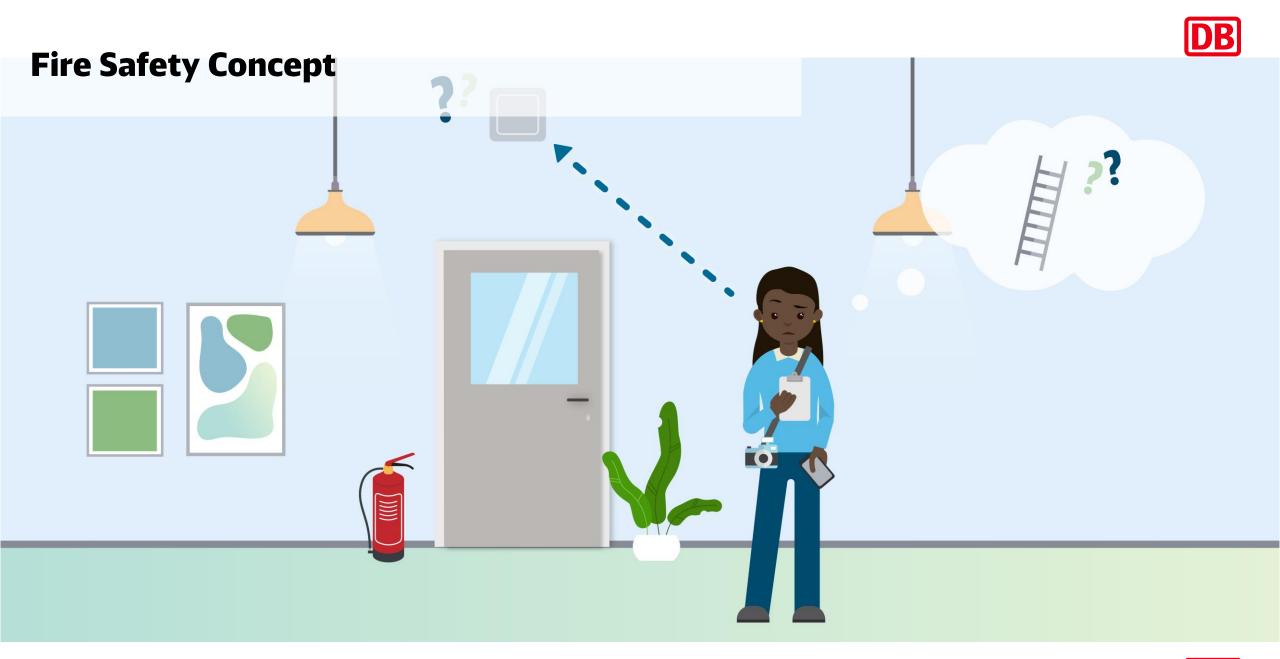






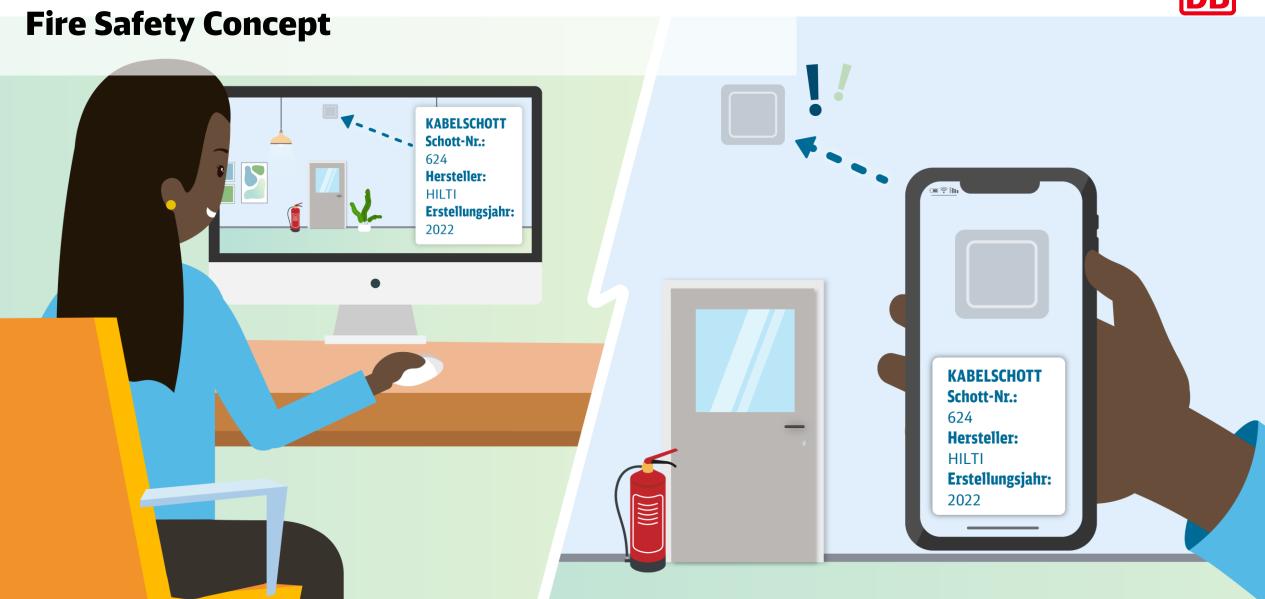






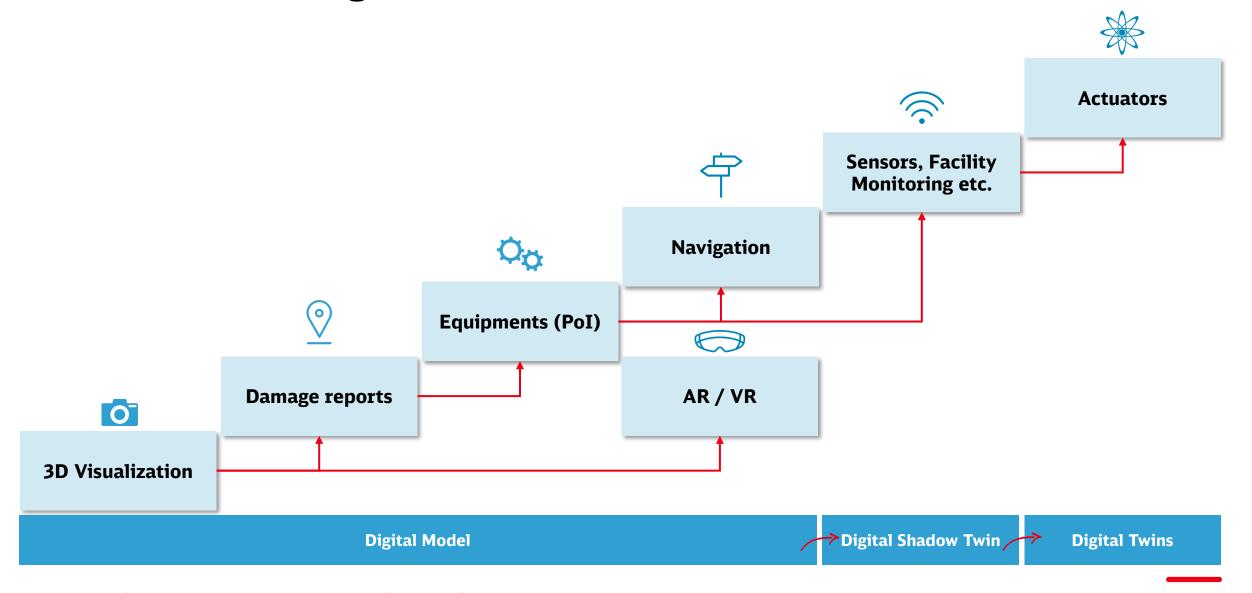






There are several steps towards Digital Twins, which add value to our customers and colleagues

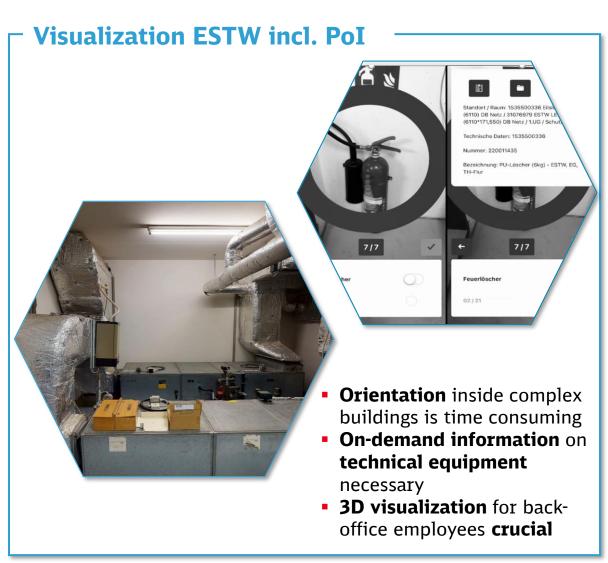




There are several examples available, where digital twins can be used







There are several categories, where value can be generated



Productivity



33% estimated time reduction compared to current processes

Transparency





22% increase in transparency

Reliability



10% increase in reliability of technical equipments

Customer **Satisfaction**



22% increase in customer relationship

Know-How Transfer



Faster onboarding of new employees and training

Employee Satisfaction



Increase in employee satisfaction

Data Quality



Higher data quality, due to quality gates

Automation



High potential to automate process steps

Security



Higher security for customers and employees

Compliance



Higher compliance to regulations

We are on our way to a world twin



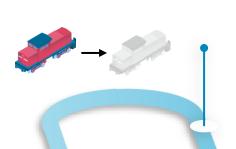
Data Islands

The data of the object is distributed in different systems and difficult to



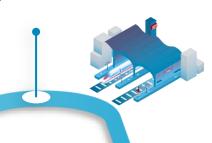
Digital Shadow Twin

Data from a wide variety of sources is constantly but unidirectionally collected and integrated



Twin of Twins

Digital Twins, which belong together professionally, appear as a single Twin (of Twins)



World Twin

Twins from different professional contexts can interact autonomously



Digital Model

The data is unique or is recorded selectively in an object model





Digital Twin

The integrated data flows constantly and bidirectionally between twin and object



Legende



Real Object



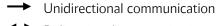
Virtual Object



Selective Collection of Information



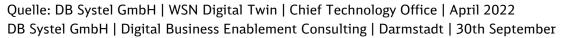
Constant collection of information



Bidirectional communication



Complexity level low - high





Ansprechpartner

Felicitas Fetzer

Digital Consulting & Innovation T.IV D-T-206



DB Systel GmbH Kynaststraße 1 | 10317 Berlin

Benedict Haas

Digital Consulting & Innovation T.IV D-T-206

Mobil +49 152 33136195 Benedict.Haas@deutschebahn.com

DB Systel GmbH Jürgen-Ponto-Platz 1 | 60329 Frankfurt am Main





