Foto: Volker Emersleben

Towards a digital European railway
VPE Railway Digitalisation Conference and Fair

DB Netz AG | Konstantin Meermann | I.NMC | Budapest | 2017-10-18

Agenda

Agenda

DB Netz uses a two step approach towards becoming fully digital

Step 1:
Replacement and/or upgrade of existing IT-systems to fulfill current IT-standards

Step 2:
Introduction of new functionalities to improve all aspects of DB Netz' business

Customer oriented timetabling processes and improved capacity management at DB Netz

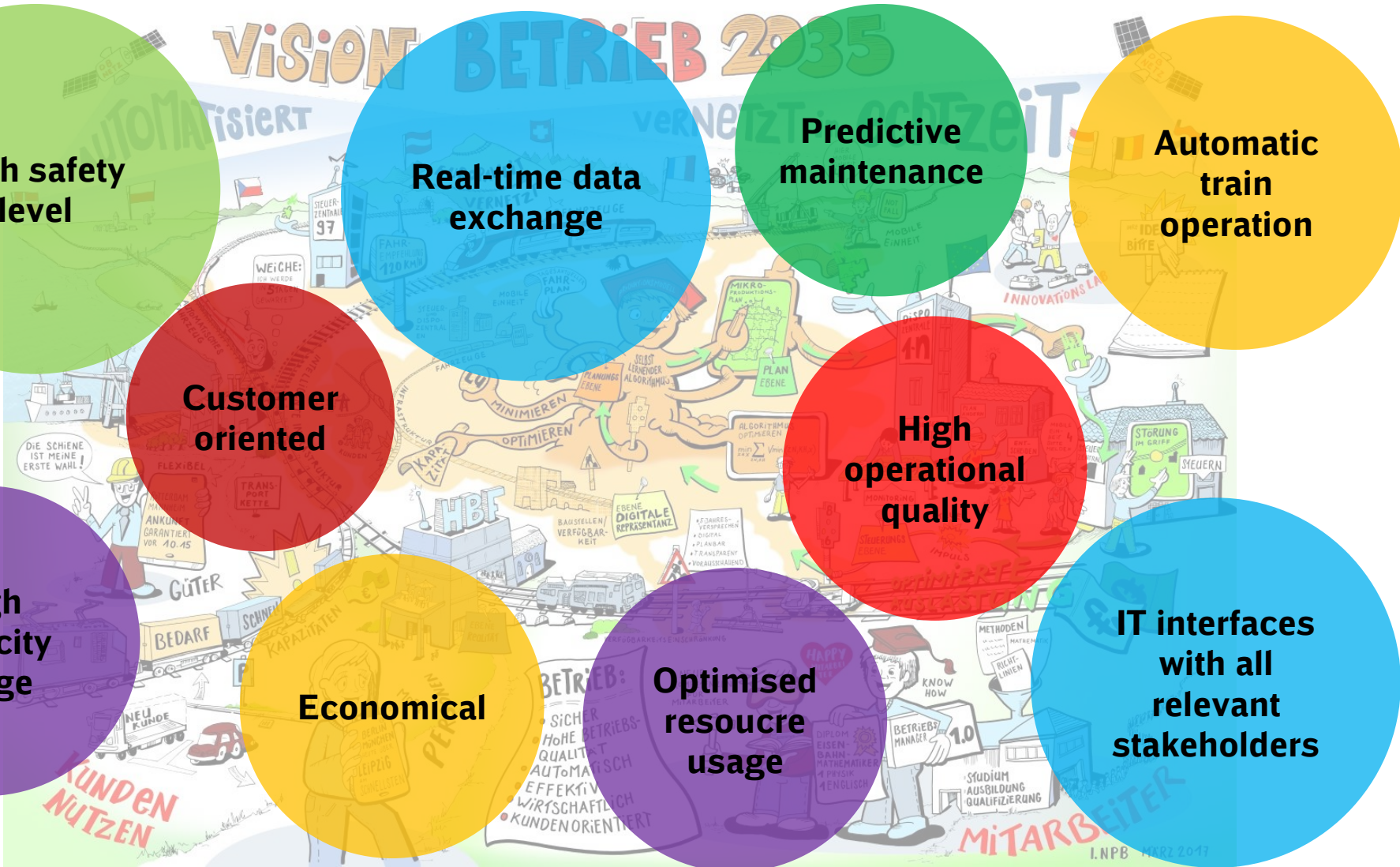**Introduction of pre-constructed path with subsequent allocation**

Faster allocation after path request

Optimised capacity usage for a better

DB Netz Operations aims at full interconnectedness to allow safe, optimal and economical train operations

DB NETZE

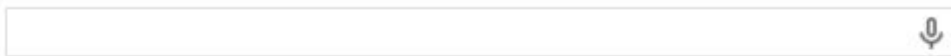- High safety level
- Real-time data exchange
- Predictive maintenance
- Automatic train operation
- Customer oriented
- High operational quality
- High capacity usage
- Economical
- Optimised resoucre usage
- IT interfaces with all relevant stakeholders

Agenda

1.	**DB Netz: Modernisation and improvement of IT-landscape**
2.	**Einfachbahn: Customer oriented quick wins**
3.	**The way forward**

The world has always been very complex… successful products for the customers are simple, because they make life itself easier.
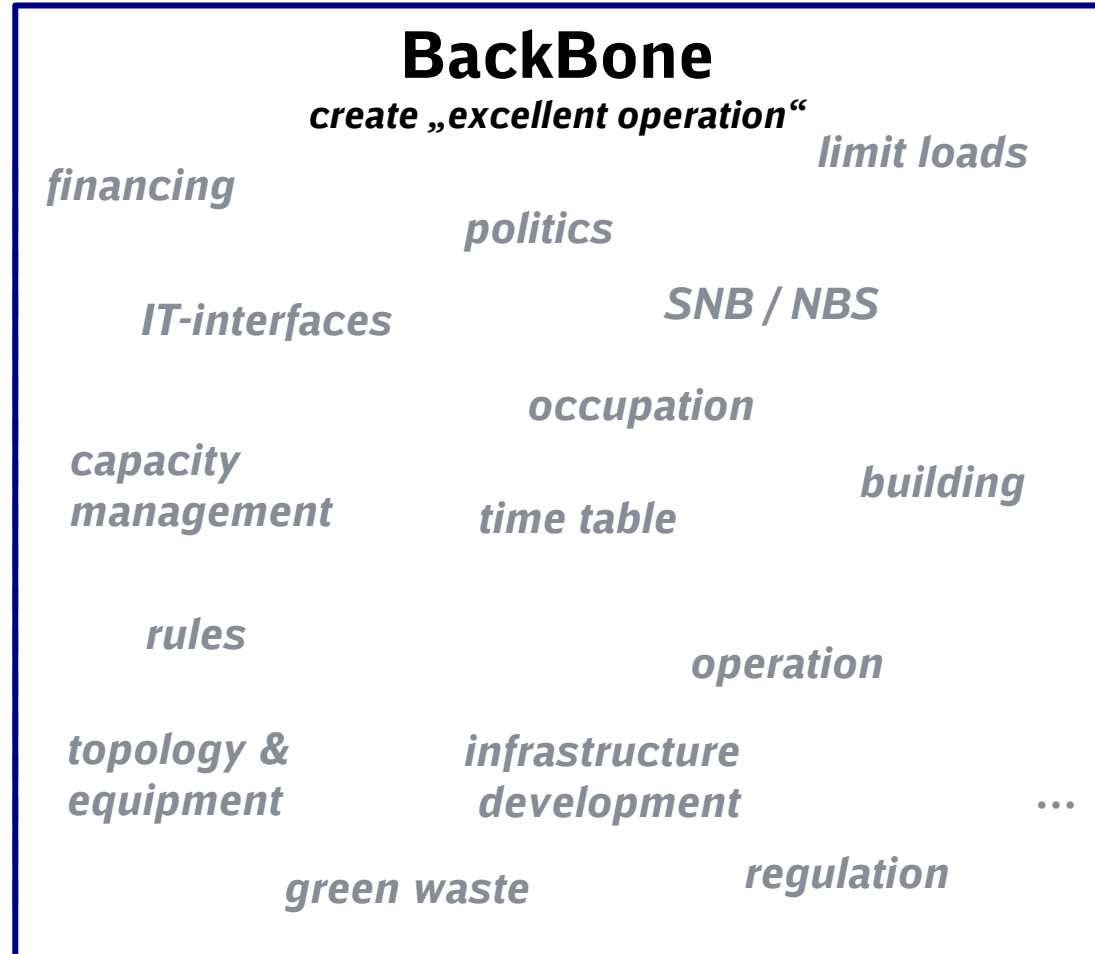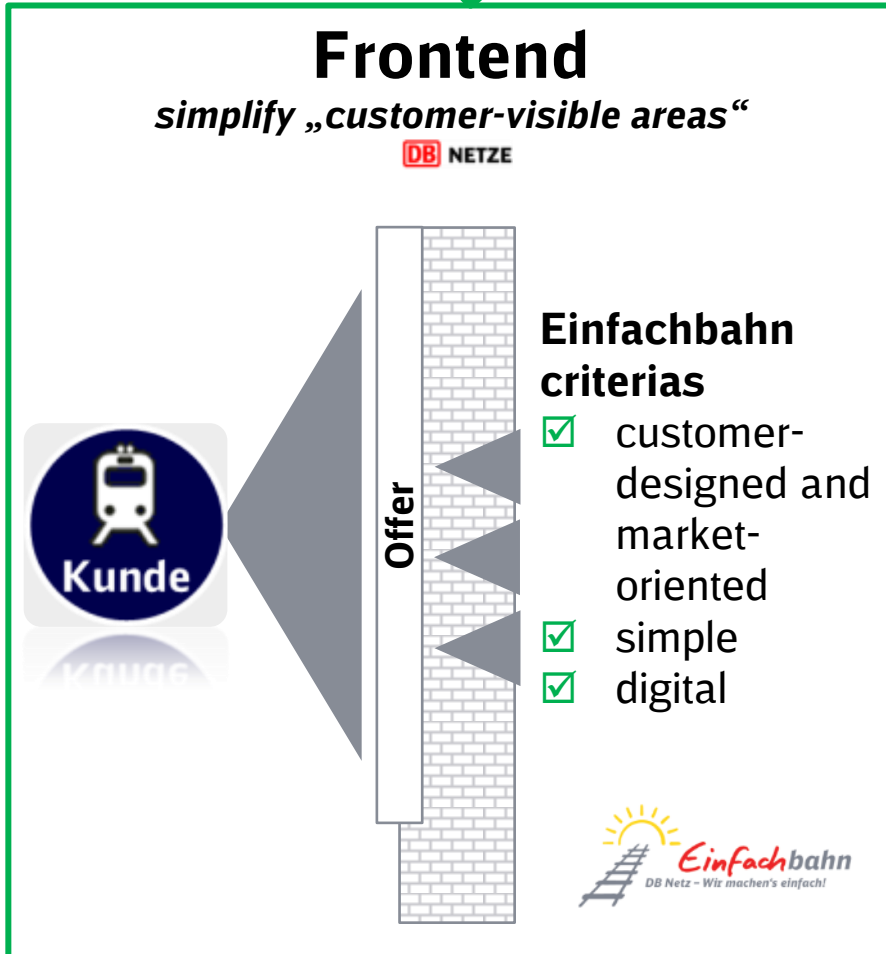
Einfachbahn reduces complexity clearly – customer-visible areas are simple, customer-designed and digital!
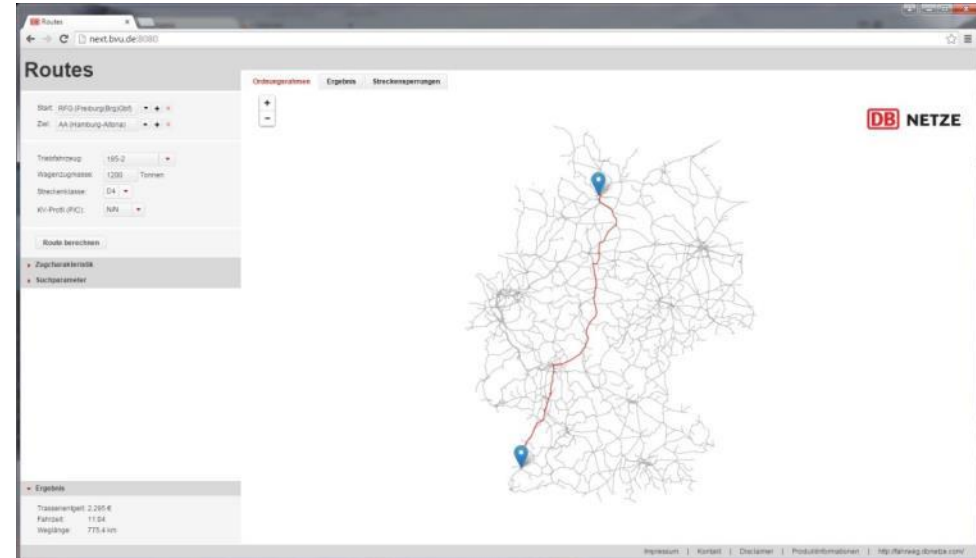
complexity low

complexity high

Frontend
simplify „customer-visible areas"

DB NETZE

Kunde

Offer

Einfachbahn criterias
- ☑ customer-designed and market-oriented
- ☑ simple
- ☑ digital

Einfachbahn
DB Netz – Wir machen's einfach!

BackBone
create „excellent operation"

financing

limit loads

politics

IT-interfaces

SNB / NBS

occupation

capacity management

time table

building

rules

operation

topology & equipment

infrastructure development

...

green waste

regulation

Webtool Trassenfinder – Matching of technical parameters and possible paths

Railway

Einfachbahn

- Possible paths cannot be easily identified by customers alone
- Information from timetabling department needed or exhausting analysis of older systems and documents
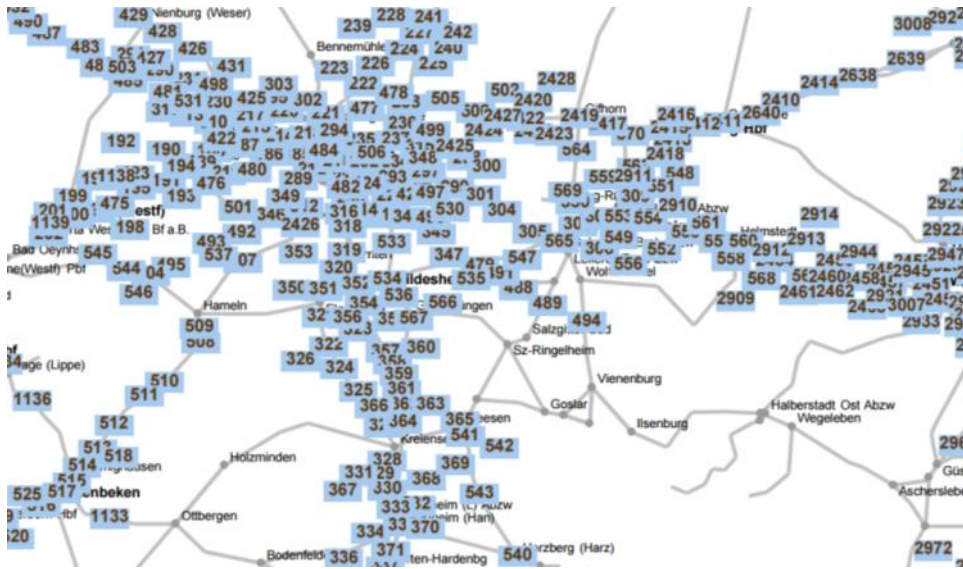
- Paths with matching technical parameters can be easily found online
- The application uses the same database and algorithms as the new timetabling system

Strecken.info – Map based online platform for information about TCR and incidents
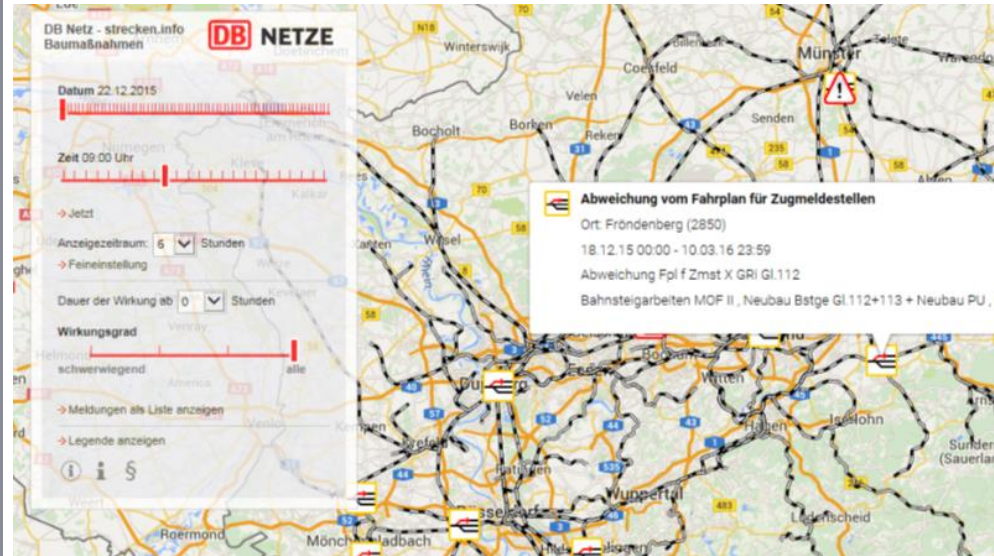
Railway

Einfachbahn

- 12-week advance notice of TCR
- About 800 pages and difficult to read maps
- Limited possibilities to analyse impact on own traffic

- Online application gives overview about coming TCR (next 12 weeks)
- Relevant information can be easily found due to individual adjustment possibilities
- Interconnected to other IT-Tool with real-time train movement and incident information

Agenda

To achieve complete IT interoperability in Europe close cooperation of all stakeholders is necessary

Full compliance to standards and procedures set by ERA and the industry

Close cooperation on RNE level

Communication of best pratice solutions

Thank you for your attention