Stations are the key – DB’s Smart Cities program

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Session 3a, Solutions for integrated mobility
The DB Smart Cities programme helps German cities to tackle the biggest challenges of sustainable urbanisation.

The DB Smart Cities programme answers the question of **how mobility and logistics can be part of the solution** to enhance quality of life of urban citizens by providing convenient, affordable yet environmentally friendly solutions.
Creating new business and improving the citizen’s quality of life by cooperating with the cities and other partners are the goals of DB Smart Cities.
With its integrated business model, DB is in a good starting position.

Through our products, we strengthen the identification of citizens with their city.

We successfully scale our products with few big partners and use the innovative capacity of smaller partners for our products.

We build products that generate additional data already today and use these data to develop innovative products.
DB Smart Cities offers smart approaches to mobility and logistics to tackle the central challenges facing cities

**Integrated mobility: bicycles and on-demand shuttles**

In a mobility context, we aim to strengthen integrated mobility by providing an attractive range of products for the first and last mile. To this end, we need to rethink and expand on-demand products such as shuttles and bike sharing systems.

**Railway stations: creating “third places” and coworking spaces**

Railway stations function as physical mobility and logistics hubs. Our aim is to move beyond this to develop railway stations into places where people want to spend time. As local supply centres and critical sites for interaction and relaxation within the city, railway stations can increase quality of life and tap new business potential (e.g. with coworking spaces).

**City logistics: smart lockers and cargo bikes**

In logistics, however, there is a need for open, cross-provider infrastructure and logistics to better consolidate transport. Smart lockers and transport solutions, such as delivery by cargo bike, hold the greatest potential here.
Public rail transport will remain the backbone of urban mobility going forward; bicycles and on-demand shuttles will add flexibility.

- Smart expansion of the area served
- Integration of pedelecs and electric cargo bikes
- Covering the first and last mile
- Consolidation of identical routes
- Easy access to a multimodal platform
- Smart ways of determining the area served
- Competitive prices
- Mix of physical and virtual stations
- Flexible vehicle sizes
- Digital driver assistance system
- Stronger links with multimodal mobility hubs
- Easy access to a multimodal platform
Numerous factors are changing how people see the role of public spaces; our aim is to make railway stations places where people want to spend time.

- Food and shopping
- Docks for bike sharing systems
- Relaxation areas
- Easy access to intermodal services
- Mobility and logistics hub
- Indoor navigation
- Neighbourhood development
- Coworking spaces
- Smart work
- Neighbourhood development

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As part of the programme, DB Station&Service is transforming railway stations into third places

Different elements offer a broad range of functions, coworking spaces being one option

- Bookstores and cafés with a pleasant atmosphere
- Green spaces, sometimes with open squares
- Family areas
- New food concepts (Station Food)
- Health centres
- Smart lockers
- Digital entertainment mix
- Architecture with accent lighting
- Areas to wait or relax
- Culture station
- Info on services depends on waiting time
- Co-working spaces
  - Platforms for informal meetings with partners, customers and employees (lounges)
  - Alternatives to home offices and regular workspaces
  - Conference rooms where business partners can meet each other halfway
  - Hubs for collaborative work with colleagues, employees and partners
City logistics is undergoing major changes, offering potential for new lockers and cargo bikes.

- Smart lockers
- Can replace the vast majority of vans
- Using emission-free and low-noise drive systems
- Seamless integration into a modern urban landscape
- Flexible use and storage in public spaces
- Many use cases, such as delivering packages or purchases
- DB has the right kind of highly frequented areas in railway stations

Can replace the vast majority of vans using emission-free and low-noise drive systems. Flexible use and storage in public spaces. Many use cases, such as delivering packages or purchases. DB has the right kind of highly frequented areas in railway stations.
Smart cities are the sum of numerous business models whose development is highly dependent on technological drivers.

Real-time data from IoT sensors

Personalised products

Improved infrastructure

Predictive maintenance

Real-time data analysis

Push notifications sent to users

Shared sources of data

Improved transport management

DB's aim is to deliver tangible improvements to customers by better addressing their needs, boosting efficiency in our core business and developing new business models through strong innovative partnerships in the industry and key startup partners in Germany.
We have signed a first agreement with the city of Hamburg – the implementation has already started

- **On-demand-Shuttles** to improve the accessibility of the city of Schenefeld
- Up to **50 Smart Locker**
- Operation of **Cargo Bikes**, starting from Hamburg Altona
- Implementation **Third Place approach** and **digitale elements** at Dammtor, Harburg, Elbbrücken (tbd), Hbf (feasability study)
- Assessment of **fully automated operation of S-Bahn-line** to Bergedorf
- Joint **Hackathon** with the city of Hamburg