

# **SMART STATIONS IN SMART CITIES**

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#### Security measures in stations - Options and constraints

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# Situation

Stations are access to the railway system

Stations are shopping malls, catering, tourist office, meeting points and attraction for mass of people

Stations reflect all facets of everyday life with all its shady sides





- Various measures are suitable for protection
- Smart measures have options
- Smart measures are subject to restraints
- Conflict and balance between security and commercial efficiency

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# Measures concerning construction and design

- Barriers
- Transparent and safe materials
- Lights and colours
- Marked escape and rescue ways
- Emergency call system





#### Human Factors measures

- Presence of staff
- Presence of security staff and/or police
- Staff equipment body cams, dogs etc.
- Information of passengers about any security relevant issue
- Station rules e.g. smoking, alcohol, begging







### **Technical measures**



- Video analytics
- Metal detectors for passenger screening
- X-Ray systems for passenger and luggage screening





#### Test phase

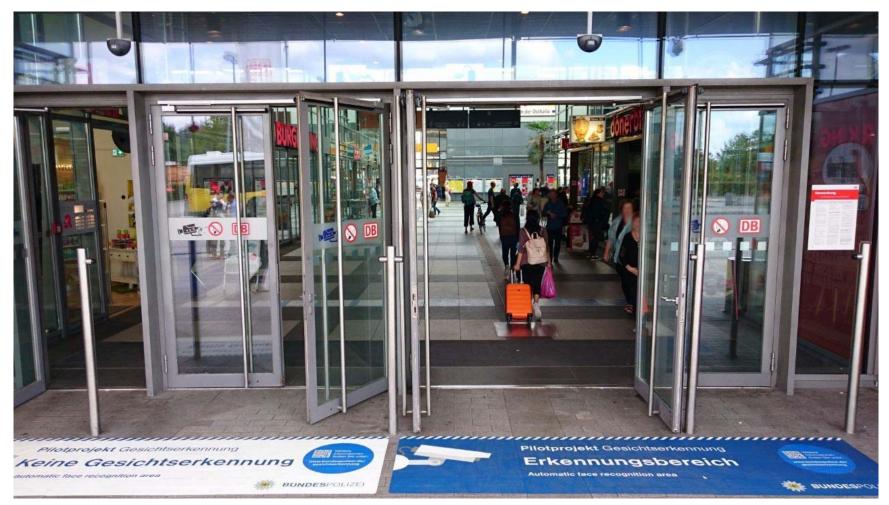


Source: http://www.deutschebahn.com/de/Digitalisierung/startups/db\_startups/13789222/Leuchten.html





#### Test phase



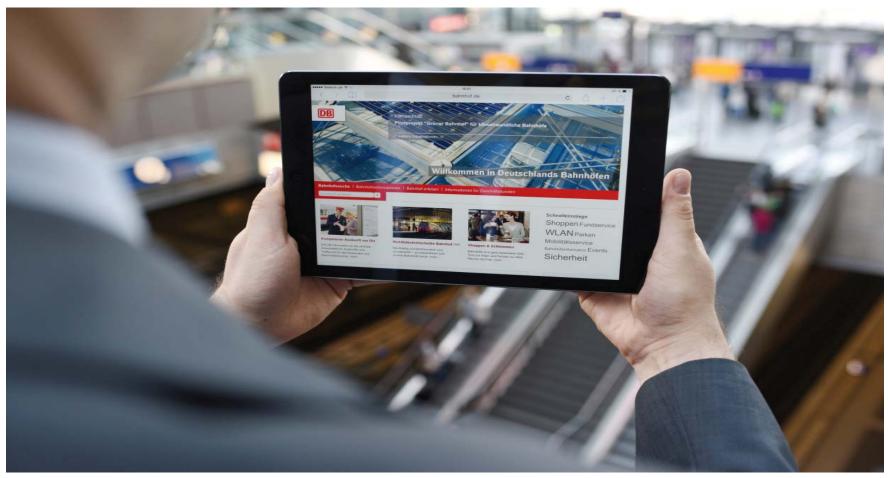
Source: https://www.bundespolizei.de/Web/DE/04Aktuelles/01Meldungen/2017/08/170810\_start\_videotechnik.html

Security measures in stations – options and constraints





## Test phase



Source: Deutsche Bahn AG

Security measures in stations - options and constraints





## Conclusions

- New technologies detect dangerous persons, objects and situations
- Smart technologies fitting to the mass traffic are necessary
- Limits are personal rights, privacy of customers and capacity of staff
- Well trained and equiped staff is inevitable for fast and consequent reaction





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