

# 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

## Measures

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

## 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
- ❖ Cooperation with 3<sup>rd</sup> parties

## Technical measures

- ❖ CCTV
- ❖ 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](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](https://www.bundespolizei.de/Web/DE/04Aktuelles/01Meldungen/2017/08/170810_start_videotechnik.html)



## Test phase



Source: Deutsche Bahn AG

## 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 equipped staff is inevitable for fast and consequent reaction



THANK YOU  
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