Security measures in stations - Options and constraints

Prof. Gerd Neubeck,
Representative of the Board for international security issues, Deutsche Bahn AG, Germany
Chairman of the UIC Security Platform

Kathrin Faber,
Security Division – Senior Advisor, UIC, France
1b Security & Privacy

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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 3rd 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
Test phase

Source: 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
GRACIAS