SECUR-ED and the H-Factor
UIC Security Conference, Bratislava
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http://www.secur-ed.eu/
SECUR-ED in short

SECured URban transportation – European Demonstration

- Call FP7-SEC-2010-1, Security in Mass transportation, ID = 261605
- Budget = 40M€, EC Funding = 25 M€, the biggest FP7 Security project
- Starting date: 1st April 2011
- Duration: 42 months (end September 2014)

The main objective of the SECUR-ED project is to provide the transport operators of large and medium European cities with the means to enhance urban transport security

This will give access to an enlarged mass transport security market for the European industry

Deliver mission-oriented security solutions for mass transit nodes
SECUR-ED demonstrations

The demonstrations address various security sub-missions:
- Dealing with significant security problems
- But also generic, in particular not specific to large cities
- Addressing concrete operators needs illustrated by realistic scenarios

- From minor offences to major terrorism threats
- For prevention, but also for reaction and restoration
- Protection of assets and people

The demonstrations implement the different modules identified, showing their capacity to exchange information
- In an open Service Oriented Architecture,
- Through a unified data model, time-stamped and geo-localized, which is the glue of the system

Perform flagship demonstrations in big cities in 2013
After SECUR-ED…

Priority for SECUR-ED partners is to produce results that survive the project, such as:

- **Non-proprietary solutions**
  - Using and contributing to international standards
  - Implementing privacy protective approaches

- **Applicability both for mid-size and big European cities**

- **Long-term guarantee of solutions performance and improvement**

- **Methods, process, tools, etc. making multi-operators work together/jointly**

- **Preparing the “city of the future”, where each organization will be able to share with everybody (transport operators, first responders, city, authorities, etc.)**
Cross WP-SP Technical working groups

→ CCTV / video analysis
  - Commonly address Milan, Paris and Madrid needs
  - Integrate video capacities in the overall architecture
  - Consistent response between WP32 and WP33

→ CBRN-E
  - Commonly address Milan & Paris needs
  - Integrate CBRN-E capacities in the overall architecture
  - Establish link between CBRN-E and resilience

→ Cyber-security
  - Consistent approach from risk assessment to procedures and tools
  - Address Milan & Paris needs

→ Information management
  - Commonly address Milan, Paris and Madrid needs
  - Align technologies with procedures

→ Communications
  - Commonly address Milan, Paris and Madrid needs
  - Align communication means to other capacities
BUT: security is not just technology

Four pillars of security at Deutsche Bahn

- Prevention work
- Cooperation with external partners
- Technology
- Well trained and qualified staff

The „Human Factor“ is at the core of all four pillars
Why is DB specifically interested in security training?
...because of our duty of care for our staff

**Employees by business unit**

100% ~ 284,319 full time equivalent

- **DB Bahn**
  - DB Bahn Long Distance: 5.6%
  - DB Bahn Regional: 13.1%
  - DB Arriva: 13.4%

- **DB Netze**
  - DB Netze Track: 14.5%
  - DB Netze Stations: 1.7%
  - DB Netze Energy: 0.6%

- **DB Schenker**
  - DB Schenker Rail: 11.4%
  - DB Schenker Logistics: 21.9%

**Employees by region**

100% ~ 284,319 full time equivalent

- Europe excluding G.: 27%
- North-America: 3%
- Germany: 65%
- Asia: 5%
- Remaining international locations: 1%
...because of the volume of traffic

- 2.7 billion passengers per year in trains and buses
- 26,000 Passenger trains per day
- Once around the world - the distance traveled by every ICE train per month
- 9 neighboring countries can be reached directly via DB
...because of the extent of the network

- **5,700**
  - Train stations serve as railway gateways in Germany

- **33,400**
  - Km long rail network – three times as long as the German Autobahn network

- **48,500**
  - Heated switches out of a total 72,000

- **5th**
  - Largest provider of energy in Germany – annual volume of available energy equal to energy consumed by Berlin metropolitan area
because of the international aspect of our work

- **More than 2,000** locations in over 130 countries
- **412** million tons of freight transported via rail per year
- **96** million shipments sent per year via European land transport
- **More than 5** million square meters of storage space around the world
...because it contributes to our overall strategy

**Vision**

**Sustainability dimension**

**Profitable market leader**
- Economic

**Top employer**
- Social

**Eco-pioneer**
- Environmental

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**Strategic directions**

1. Customer and quality
2. Profitable growth
3. Cultural change/employee satisfaction
4. Resource preservation/emissions and noise reduction

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*We are becoming the world's leading mobility and logistics company*

Sustainable business success and social acceptance
What is DB doing within the SECUR-ED project?

Personnel and training

- Writing lesson plans
- Defining how to conduct an emergency exercise
- Contributing to the overall approach of what types of methods are available
- Creating measures to evaluate the effectiveness of trainings
- Executing several trainings and a large scale exercise
### What trainings are going to be demonstrated?

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<th>Training 1</th>
<th>Training 2</th>
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<td><strong>Implementation of SOPs, decision making models in crisis situations</strong>&lt;br&gt;→ Link to outputs of COUNTERACT project&lt;br&gt;→ Checking against DB's existing procedures</td>
<td><strong>Awareness programmes for</strong>&lt;br&gt;→ (non-security) employees&lt;br&gt;→ passengers</td>
<td><strong>Training programme for security employees</strong>&lt;br&gt;→ Awareness /Behaviour analysis&lt;br&gt;→ Technology supported patrolling&lt;br&gt;→ Self-protection</td>
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<td><strong>Training 4</strong></td>
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<td><strong>Training programme for security control centres</strong>&lt;br&gt;→ Virtual training</td>
<td><strong>Training programmes for security managers</strong>&lt;br&gt;→ Multiplicators&lt;br&gt;→ Procedures, communication, awareness etc.</td>
<td><strong>Emergency exercise</strong>&lt;br&gt;→ Full scale table-top exercise&lt;br&gt;→ All stakeholders involved</td>
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Example 1 - Security employees

General conditions

- Target group: security employees
- Number of participants: 12
- Trainer: Trainer of DB Sicherheit
- Duration: 2 Day

Content

- The following training lessons from WP 38.3 will be used as trainings in Berlin:
  - Security risk assessment and management
  - Identification and handling of persons exhibiting suspicious behaviour
  - Communication and reporting procedures for routine and emergency conditions
  - Conflict management with Passengers and aggressive groups
Example 2 - Front-Line Employees

General conditions

- Target group:
  - Service staff
- Number of participants: 12
- Trainer: from within the project
- Duration: 1-3 days

Additionally:
  - Testing of competence framework

Content

- The following training lessons from WP 38.2 will be used as trainings in Berlin:
  - Daily threats - problems resulting from crime, fraud, fare evasion or anti social behaviour
  - Basic awareness (for different target groups - staff / passengers / public)
  - Identifying and handling suspicious objects - the HOT/NO-TOUCH protocol
  - Conflict management with passengers and aggressive groups
Example 3 - Security Control Centres

General conditions

- Target group: operators in security control centres
- Number of participants: 6
- Trainer: Corporate Security
- Duration: 2 Days

CCTV and Situator Training

- Installing mobile video system at one specific station in Berlin
- Recording of a typical scenario
- Using the material for the training

Content

The following training lessons will be used as trainings in Berlin:

- Daily threats - problems resulting from crime, fraud, fare evasion and anti social behaviour
- Incident command and control
- Response to external threats (by phone, fax, e-mail)
- Pro-active operation of video systems – detecting suspicious signs in the operational environ. using CCTV systems
Example 4 – Large Scale Emergency Exercise

Table top exercise with „incident“ at Berlin Hauptbahnhof

- A huge explosion occurs in the last car of an ICE train approaching at platform 4 on the lower ground floor on a Friday at 3 pm
- The last car is still in the tunnel hence damaging the hull of the latter
- Shortly after a terrorist organization claims its responsibility for the explosion
- The train is fully booked, passengers waiting to board
- High numbers of dead bodies and injured persons
- Electricity blackout
- Due to the explosion water from the nearby basin Humboldthafen starts pouring into the tunnel