



 **SECUR→ED**

SECured URban transportation - European Demonstration

<http://www.secur-ed.eu/>

**SECUR-ED and the H-Factor**  
**UIC Security Conference, Bratislava**

**Carolin Büttner – Deutsche Bahn AG, Corporate Security**



## → 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: 1<sup>st</sup> 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 Partners

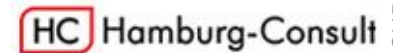


THALES

ALSTOM



BOMBARDIER  
TRANSPORTATION



ineco



## 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**

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

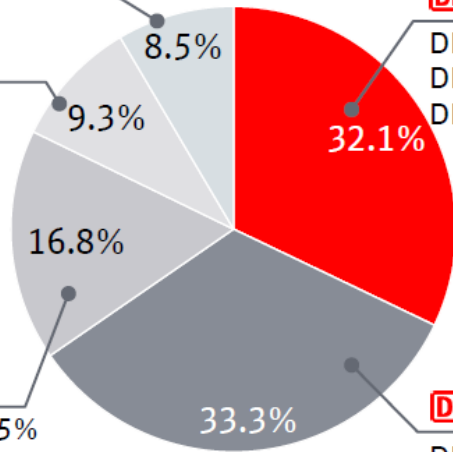
100% ~ 284,319 full time equivalent

Other activities

DB Services

**DB** NETZE

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



**DB** BAHN

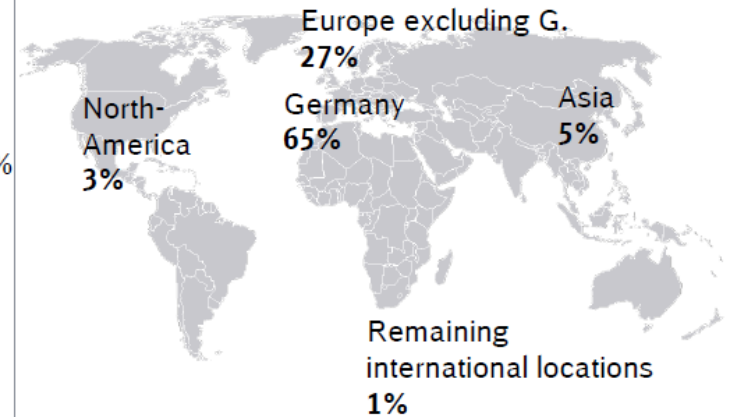
DB Bahn Long Distance: 5.6%  
DB Bahn Regional: 13.1%  
DB Arriva: 13.4%

**DB** SCHENKER

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

## Employees by region

100% ~ 284,319 full time equivalent



# ...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

DB Bahn Long Distance



DB Bahn Regional



DB Arriva



DB Bahn Sales<sup>1</sup>





# ...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

DB Netze Track



DB Netze Stations



DB Netze Energy



DB Netze Projects<sup>1</sup>



# ...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

## DB Schenker Rail



## DB Schenker Logistics





# ...because it contributes to our overall strategy

## Vision

**We are becoming the world's leading mobility and logistics company**  
Sustainable business success and social acceptance

## Sustainability dimension

**Profitable market leader**  
Economic



- 1** Customer and quality
- 2** Profitable growth

**Top employer**  
Social



- 3** Cultural change/ employee satisfaction

**Eco-pioneer**  
Environmental



- 4** Resource preservation/ emissions and noise reduction

## Strategic directions

# 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?

## Training 1

### Implementation of SOPs, decision making models in crisis situations

- Link to outputs of COUNTERACT project
- Checking against DB's existing procedures

## Training 2

### Awareness programmes for

- (non-security) employees
- passengers

## Training 3

### Training programme for security employees

- Awareness /Behaviour analysis
- Technology supported patrolling
- Self-protection

## Training 4

### Training programme for security control centres

- Virtual training

## Training 5

### Training programmes for security managers

- Multipliers
- Procedures, communication, awareness etc.

## Training 6

### Emergency exercise

- Full scale table-top exercise
- All stakeholders involved



# Example 1 - Security employees

## General conditions

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



## content

- o 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