



INTERNATIONAL UNION
OF RAILWAYS

unity, solidarity, universality

UIC Security Division Other Research projects

Bratislava, 26 October 2012



SECRET - Protection of railway infrastructure against EM attacks



Starting date : 01 August 2012 for 36 Months

Coordinator : Europe Recherche Transport (France)

Budget : 4 268 M€ (including 3 059 M€ funding by EU)

Partners : 11 Partners from 5 countries



SECRET - Objectives

- > To assess the risks and consequences of EM attacks on the rail infrastructure
- > To identify preventive and recovery measures
- > To develop protection solution for EM attacks
- > To produce technical recommendations to reinforce the railway infrastructure

SECRET - Added value

- > Provide a clear view on the possible threats of an electromagnetic attacks
 - Vulnerabilities of rail system
 - Public devices that can be used
 - Consequences of an attack
- > reinforce the resilience of the railway infrastructure to reduce the attractiveness of the railway as a target for EM attacks
- > Provide technical recommendations that will be presented to the European standardization bodies.

Project under negotiation



CIPRNET

Critical Infrastructure Preparedness and Resilience Research Network

Coordinator : Fraunhofer IAIS

Partners : 11 partners from 8 countries

UIC Role

- Dissemination
- collection of end-users / stakeholders requirements and expectations



Topics of interest:

- > Topic SEC-2013.2.2-1 A research agenda for security issues on land transport
- > Topic SEC-2013.2.2-2 Toolbox for pandemics or highly dangerous pathogens in transport
- > Topic SEC-2013.2.4-1 Phase II demonstration programme on logistics and supply chain security
- > Topic SEC-2013.2.5-3 Pan European detection and management of incidents/attacks on critical infrastructures in sectors other than the ICT sector (i.e. energy, transport, finance, etc)

European presearch projects - Benefits for rail

These projects offers us the opportunity:

- > To get state-of-the-art of latest security technologies
- > To provide the industry with railway recommendations & definition of needs
- > To bring the “operational” point of view and to enhance accuracy
- > To obtain funding to study some existing and potential railway security issues

■ ■ ■ Thank you for your kind attention