





This project is co-funded by the European Commission with the FP7

# RESTRAIL at a glance

Where are we now?



# Research project

Funded by the European Commission (Seventh Framework Programme)



3 Year Project starting October 2011 (Total Budget € 3,870,000)



## **RESTRAIL** aim

The aim of the RESTRAIL project is to reduce:

- The occurrence of suicides and trespass on railway property and
- The service disruption and other consequences these events cause

by providing the rail industry with an analysis and identification of cost effective prevention and mitigation measures.



### **RESTRAIL Consortium**



Coordination by UIC (Security division)

### 7 UIC members :

DBAG, FFE, IK, INFRABEL, PRORAIL, TCDD, TRAFIKVERKET

3 research centres: VTT, CIDAUT, IFSTTAR

3 universities: HMGU, KAU, Unott

3 industries: ASTS, MTRS3, NICE RESTRAIL

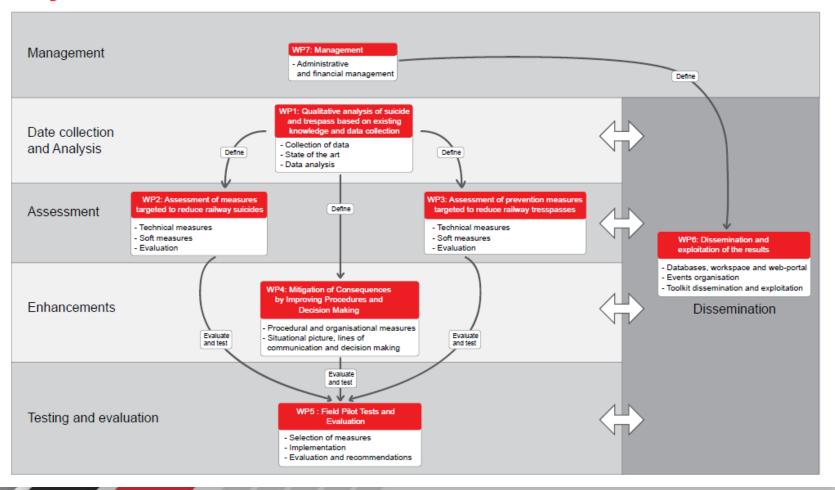
## Where are we now?

YEAR 1   YEAR 2   YEAR 3   Partnet																																						
Nonthis			YEAR 1										YEAR 2											YEAR 3										K	Lead partner			
Qualitative analysis of suicide and trespass on railways based on existing knowledge and data collection  Assessment of soft and technical measures targeted to reduce suicides the railways  Assessment of measures targeted to reduce a suicides the railways  Assessment of Consequences by 4 Improving Procedures and Decision Making  5 Field pilot tests and exploitation  Dissemination		Wh		Q1				Q2 Q3				Q4			Q5			Q6 Q7			Q7	' Q8					Q9		Q10 Q11			Q12						
Qualitative analysis of suicide and trespass on railways based on existing knowledge and data collection  Assessment of soft and technical 2 measures targeted to reduce suicides the railways  Assessment of measures targeted 3 to reduce trespassing accidents  Mitigation of Consequences by 4 Improving Procedures and Decision Making  5 Field pilot tests and exploitation Decision Making  6 Dissemination and exploitation  Output  Decision Making  De		<b>VV</b>	Мс	on	ths																									_								
of suicide and trespass on railways based on existing knowledge and data collection  Assessment of soft and technical  measures targeted to reduce suicides the railways  Assessment of measures targeted to reduce suicides the railways  Assessment of measures targeted to reduce trespassing accidents  Mitigation of Consequences by  Improving Procedures and Decision Making  Field pilot tests and evaluation  During Dissemination and exploitation During Durin			1	2	3	4	5	6	7 8	3 9	10	11	12	ŀ	13	141	5 16	17	18 1	9 20		21 2	22 23	3 2	4	25	26	27	28 2	29 30	0 31	1 32	33	34	35	36		
and technical measures targeted to reduce suicides the railways  Assessment of measures targeted at or reduce trespassing accidents  Mitigation of Consequences by Improving Procedures and Decision Making  Field pilot tests and evaluation  Dissemination and exploitation D D D D D D D D D D D D D D D D D D D	1	of suicide and trespass on railways based on existing knowledge		D												D																						VTT
Assessment of measures targeted to reduce trespassing accidents  Mitigation of Consequences by Improving Procedures and Decision Making  5 Field pilot tests and evaluation  Dissemination and exploitation D D D D D D D D D D D D D D D D D D D	2	and technical measures targeted to reduce suicides																J		D																		TRV
Consequences by Improving Procedures and Decision Making  5 Field pilot tests and evaluation  6 Dissemination and exploitation  D D D D D D D D D D D D D D D D D D D	3	measures targeted to reduce trespassing														D												D										IFSTTAR
evaluation  Dissemination and exploitation  Discomination and exploitation and e	4	Consequences by Improving Procedures and							D				D							D										D								MTRS
6 exploitation DDDD	5	evaluation																																D		D		CIDAUT
7 Management R UIC	6		D	D	D																									D						D		UIC
	7	Management																	R																R			UIC



## RESTRAIL - Project structure

### **Project structure**





## Main results of WP1

- A description of the state-of-the-art
- up-to-date statistics on railway suicides and trespassing accidents compiled from different sources,
- information on possible countermeasures to prevent railway suicides and trespassing accidents,
- analysis of the consequences of railway suicides and trespassing accidents, and
- data on the behaviour of victims prior to the incident.



# WP2 + WP3 Key achievements

Maria Hedqvist, Trafikverket Jean-Marie Burkhardt, IFSTTAR



# Our findings

- No integrated classification
- 86 heterogeneous measures grouped in 38 families
- We soon found similarities and differencies

Fences and barriers Mosquito sound CCTV Collaboration

Landscaping Training of staff Airbags Education





# Key achievements

- Method and process to evaluate measures (July 2012)
- Evaluation of measures (February 2013)
  - Long and short forms
  - Workshops to evaluate and gather information
  - Evaluation by stakeholders
  - Evaluation of effect by experts
- Guidance for selection and implementation







RESTRAIL Mid term conference, Paris, 12 June 2013



# Key achievements

- recommended/promising measures
  - To prevent suicide 10
  - To prevent trespass 4
  - To prevent both 8





### **System Components**

\_Video Camera: daytime color and nighttime black and white.

Infrared Illuminator: floods the scene with infrared lighting during nighttime, triggered by photoelectric sensor, invisible to human eye.

Speaker: connected to a telephone line so that an authorized official can dial in and warn the trespassers via the amplified speaker system.

Motion Detector: dual-technology motion detector combining stereo Doppler microwave technology (motion detection) with a dual element passive infrared sensor (heat detection).

Magnetometer: used to screen out trains.



# Key achievements of WP4 – mitigation measures

Knowledge platform



- Response arrangements
- Information management & communication
- Decision making processes for traffic restoration

Information management



- Functional specification document
- Prototype (NICE Situator)

**Decision support** 



- Line restoration model
- Integration of the model with the information management software



## **RESTRAIL** information

- Website www.restrail.eu
- Private workspace http://ovidentia.uic.org/
- Brochure, newsletter Conferences and workshops



Coordinator contact <u>colliard@uic.org</u>; <u>bonneau@uic.org</u>



# Thank you for your attention



# Website: http://www.restrail.eu/



REduction of Suicides and Trespasses on RAILway property









### Welcome in RESTRAIL project website

The aim of the RESTRAIL (REduction of Suicides and Trespasses on RAILway property) project is to reduce:

- The occurrence of suicides and trespass on railway property and
- The service disruption and other consequences these events cause

by providing the rail industry with an analysis and identification of cost effective prevention and mitigation measures."

#### RESTRAIL brochure







### Highlights



RESTRAIL: Info Day

#### RESTRAIL enews

### RESTRAIL project: Reduction of Suicides and (...)

The First RESTRAIL Info Day was held in Paris on 13 June 2012, Around 50 participants attended this meeting. The objective was to provide the members of the project's advisory group with RESTRAIL's preliminary results. After a general (...)

### European Research Project RESTRAIL "REduction of (...)

RESTRAIL is a collaborative project selected by the European Commission as part of the 4th "transport" call for proposals under the 7th Framework Programme for Research and Development. RESTRAIL aims to reduce the occurrence of suicides and (...)

### About

Project structure

Schedule of meetings

Consortium

Advisory Board

Links

Contact

Members area



### Coordinated by **LIC**

RSS 2.0 | Mobile version: iPhone, BlackBerry, Androïd, Others | Top of the page

Credits / website development: UIC Communications department 2012 © RESTRAIL (Reduction of Suicides and Trespasses on RAILway property). All rights reserved