iness

INtegrated European Signalling System

The **iness** project is based on the management of 8 strongly interconnected and result oriented WORKSTREAMS.

Each WORKSTREAM is subdivided in WORKPACKAGES managed by high level representatives of Railways, Industries and Universities to deliver practical and efficient OUTPUTS.

iness is an EC FP7 project involving 30 partners including railways, industry & universities, joining efforts for standardisation in the framework of a business model reflecting a WIN/WIN situation between partners.

On the right track towards the definition & development of a common core of functional requirements for a new generation of interoperable interlocking systems:

- Suitable to be integrated in ERTMS
- Facilitating the migration
- Reducing the Life Cycle Cost of Installations

Functional requirements capturing

ERTMS

iness

Functional requirements Simulation & modelling

System design
Functional architecture
Testing & Commissioning
Safety case process

WS A – Management Activities

WS H – Dissemination, Exploitation and training

WS B
Business Model:

- Development of a business model to support migration strategy for ERTMS
- LCC reduction though standardisation
- Establishment of standards for interlocking interfaces
- Improvement of the interoperability and reduction of the operating and adaptation costs
- Re-engineer the entire value chain
- Reduction of the costs within the entire supply chain

WS D
Generic requirements:

- Capture of all the functional requirements for interlocking of each railway.
- Production of a common core of functional requirements for interlockings, including the functionalities required by ERTMS.
- Test and simulation of this common core in a "real case" environment.

WS E
Functional Architecture:

- Identification of the influence of ETCS and proposition of an optimal functional architecture also suiting for interlockings with ETCS.
- Full Identification and description of the interfaces between the interlocking and the adjacent subsystems.

WS F
Testing and Commissioning:

- Development of an optimised T&C process to facilitate the efficient integration of ERTMS applications.
- Providing of safety-verified test tools to enable the T&C of signalling applications including INESS compliant products.

WS G
Safety case process:

- Identification of an efficient way for an interpretation of the safety case process according to CENELEC.
- Development and delivering of an open source support tools in order to create

WS C
System Design:

- Harmonization of data file formats, design tools, data transfer for production, data flows linked with system architecture.
- Maximisation of the knowledge base of owned assets within the railway infrastructure.

TIME