# **NEWSLETTER Issue 1, June 2015**

**ERTMS** website

**Signal** 

**Summary** 

The ERTMS Newsletter

## Welcome

Did you know... - Infographic on the current status

Top Story - Status of ERTMS Deployment in Europe

In the spotlight - Interview with the European ERTMS coordinator

Breaking News – Business case for ERTMS on the 9 CNC

ERTMS (European Rail Traffic Management System) aims to create a single Europe-wide standard for train control and command systems to enhance cross-border interoperability and therefore contribute to completing the Single European Rail Area. This will significantly improve the competitive positioning of rail transport and stimulate the single market of signalling equipment.

European System for international rail services. The ERTMS project is the exponent of these plans.

The European rail network is currently based on a variety of more than 20 stand-alone and non-interoperable train control systems. With the aim of interoperability, talks started in the late 1980s to deploy a common

The European Commission and the European coordinator for ERTMS have recently decided to launch a Programme Support Action to deploy ERTMS through the <u>9 Core Network Corridors (CNC)</u> in Europe. This quarterly newsletter will keep you up to speed on the latest developments in ERTMS deployment.

This edition features an interview with the European coordinator for ERTMS, as well as some news updates and more background information on the topic. On behalf of the whole ERTMS team, we welcome you all to read this renewed version of the ERTMS newsletter "Signal".

**Top Story** 

## An assessment on the state of play of the European ERTMS deployment programme demonstrates that despite the provision of significant EU funding, deployment on the corridors is behind schedule, resulting

### system has been demonstrated in different European projects, the current status for the deployment is far behind on its foreseen deadline, as determined in the European Deployment Plan, adopted in July 2009.

Status of ERTMS Deployment in Europe

In light of the above, it clearly appears that ERTMS deployment and the removal of interoperability bottlenecks require greater coordination and expertise. Therefore, the European Commission and the European coordinator for ERTMS have decided to take action and launch a Programme Support Action under the first Connecting Europe Facility work programme. ERTMS deployment will now be supported by the Deployment Management Team, launched by DG MOVE, that will follow-up its implementation in an efficient and interoperable way. Deployment of ERTMS is a priority for the European Commission. Definition and maturing of the system

has already been achieved and the only way to promote and maintain the ERTMS system is through its use.

in an uncoordinated and patchy deployment. Current publications show that, although the operation of the

The main action to encourage the deployment of ERTMS will be the update of the ERTMS Deployment Plan. The success of ERTMS will largely depend on its implementation from end to end in the 9 Core Network Corridors (CNC). Did you know...

# data communication between the track and the train by using specific GSM frequencies.

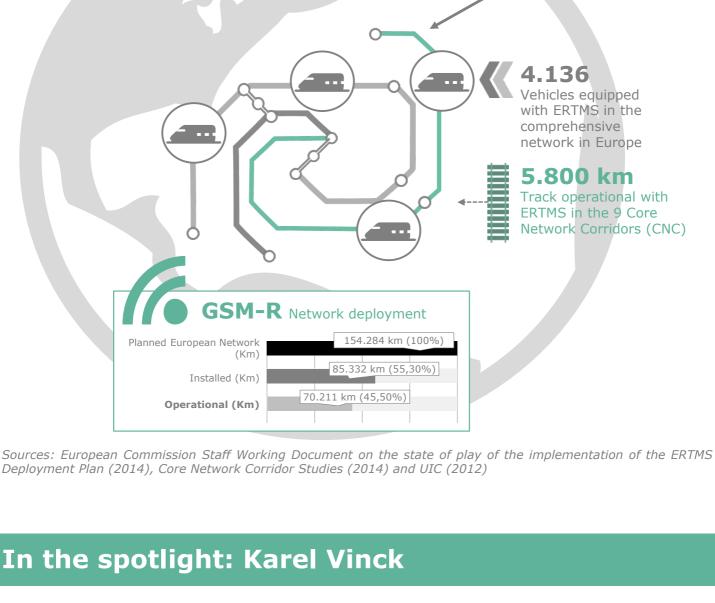
Target 2030: Approx.

56.000 km Core Network Corridors equipped with **ERTMS** in Europe

9 Core Network

Corridors (CNC)

...that the ERTMS system is based on 2 major components, being (1) the ETCS (European Train Control System), an automatic train protection system and (2) the GSM-R, a radio system providing both voice and



Since my nomination as European ERTMS Coordinator in 2005 significant results have been achieved in Europe: more than 5.000 km of trackside as well as 4.000 locos have been equipped, technical specifications have been defined

Why do you see the need for a Breakthrough Programme in 2015-2016?

and several Member States as well as countries outside of Europe decided to completely switch their national system into ERTMS in the upcoming years. All these developments provide evidence for ERTMS as a definite solution: it has been acknowledged and confirmed by all Member States and rail sectors as the common signalling system in Europe. In other words, we have reached the point of no return; ERTMS is the interoperable train control system in Europe. Nevertheless, the implementation has not progressed as planned and expected

### from the stakeholders for a number of reasons: the only way out of this vicious circle is to implement the Breakthrough Programme that addresses the problems at source.

following objectives to be reached by the end of 2016:

1. A realistic and committed deployment plan 2. A stable and mature set of specifications

5. Facilitation of the deployment

ERTMS trackside and on board trains.

inconsistent deployment of the ERTMS in Europe;

Save the date: TEN-T days 22-23 June 2015 in Riga

ERTMS in Europe;

from 11h00 - 13h00.

3. An interoperable and compliant infrastructure 4. A clear and transparent regulatory framework

6. Definition and standardised on-board equipment

and comprehensive deployment plan for the Core Network Corridors.

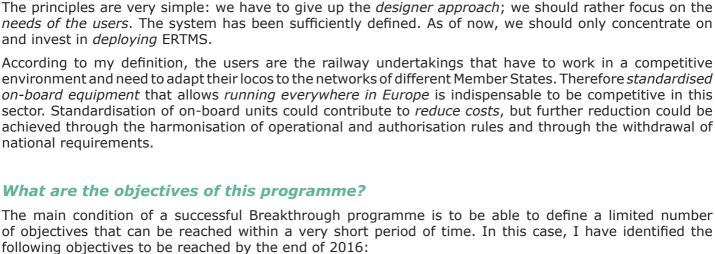
What do you expect from the ERTMS Deployment Management Team?

There are 4 main areas where I see the contribution of the Deployment Management Team:

**Programme?** 

needs of the users. The system has been sufficiently defined. As of now, we should only concentrate on and invest in deploying ERTMS. According to my definition, the users are the railway undertakings that have to work in a competitive environment and need to adapt their locos to the networks of different Member States. Therefore standardised on-board equipment that allows running everywhere in Europe is indispensable to be competitive in this sector. Standardisation of on-board units could contribute to reduce costs, but further reduction could be achieved through the harmonisation of operational and authorisation rules and through the withdrawal of national requirements. What are the objectives of this programme?

Could you please explain the principles of the Breakthrough



Karel Vinck, European Coordinator for ERTMS

proceed? There are two important differences between the existing ERTMS European Deployment Plan and my work plan: the geographical scope and the final deadline for ERTMS deployment. By 2030 the entire Core Network will have to be equipped with ERTMS. In order to define realistic implementation dates for

different Core Network Corridor sections (passengers and freight), I have proposed a two-step strategy. First, in 2015, together with the Members States, I will define the sections that are to be implemented between 2015 and 2020. Particular focus is placed on cross-border sections: the more border crossing points can be solved from a technical point of view in the first phase, the faster the remaining sections of the corridors can be implemented later on. Second, in 2016 I will negotiate with the Member States about the sections to be equipped between 2020 and 2030, so that at the end of that year we have a complete

The Commission has signed a contract with a consortium (Ineco and EY) the so-called "Deployment Management Team" to support an efficient, synchronized, interoperable and timely implementation of the ERTMS deployment for each Core Network Corridor and to ensure the consistency on the network, both

· By closely monitoring the implementation of the work plan, we will avoid a patchy implementation of

By providing technical assistance to projects, we will remove those identified bottlenecks and avoid

You mention "a realistic and committed deployment plan". How do you intend to

• By building financial and economic methodological instruments, guidance will be provided to select the appropriate financing schemes according to the projects' specificities; • By providing an online one-stop-shop on ERTMS and other information, common knowledge will be We have to use the momentum of the Breakthrough Programme to turn the challenges into opportunities. **Breaking news** 

Karel Vinck, the European coordinator for ERTMS will be chairing the ERTMS session on the 22nd of June

For more information, please visit the INEA (Innovation & Networks Executive Agency) website or contact

The European Railway Agency is organising the ERTMS Conference in Lille, France on the 22nd and 23rd of

September 2015. This year's main theme will be 'Turning a Mature System into a Business Case'.

EU supports all Member States to switch to a common train control system

## info@tentdays.eu. Save the date: ERTMS CCRCC 2015, 22-23 September 2015 in Lille

The system will improve the interoperability, safety, reliability and capacity on European railways. The projects were selected for EU funding with the assistance of external experts under the TEN-T Multi-Annual Call 2013, priority 'European rail traffic management system'.

In addition, the first CEF call was closed in early March 2015. From the total CEF budget, 300 million Euros were allocated for ERTMS projects (including 100 million Euros for Cohesion countries). As mentioned in the call, higher priorities were given to projects focusing on track-side and on-board deployment. However, specifications maintenance, trainings, simplification and facilitation of placing in operation as well as operational rule were also named as objectives in the call. The evaluation is on-going and the successful

The EU's TEN-T Programme supports the development and installation of the common European Train <u>Control System</u> (ETCS) in Belgium, Luxembourg, Denmark, Slovenia and the UK with over 35 million Euros.

requirements and one of the priorities of the Commission. ERTMS project The business case will consist of an analysis

A business case for ERTMS on the 9 Core Network Corridors

reduction in travel time, safety, capacity increase, increased competition for suppliers Analysis a and also for railway undertakings... All the upstream factors and downstream impacts linked with ERTMS deployment will be studied on a qualitative and a quantitative point of view.

of the impacts of ERTMS on the railway sector. As a first approach, the effects on

international rail traffic consist of different elements: investment costs in rolling stock,

proposals will be announced in July 2015.

Interoperability of the systems is a crucial issue of European rail policy to enhance the opportunity for a modal shift from road to rail and increase cross-border flows. This is why ERTMS is one of the infrastructure

The Deployment Management Team is currently working on the business case for 2 corridors: Rhine-Alpine and North Sea Mediterranean. The main milestones are:

Impact on rail

# Contact details

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• Until end of July 2015: sharing and discussing the methodology with all stakeholders Until end of August 2015: validation of the main assumptions used through interviews with stakeholders 22-23 September 2015: presentation of the intermediate results of the Business Case for the first 2 corridors at the ERA conference October 2015: final business case for Rhine Alpine and North Sea Mediterranean corridors 2016 and beyond: business case for other corridors and at European level

Source: Deployment Management Team (2015)

Welcome

**Contact Details**