



# ERTMS supply market situation in Europe

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**CCRCC 2017**

**ERTMS is ready for Europe - overcoming the obstacles**

**16 November 2017, Valenciennes**

## Special report on ERTMS from European Court of Auditors (3<sup>rd</sup> of October 2017)



### . Findings & Conclusions of the report:

- ERTMS is acknowledged by the Member States and the rail sector as the universal signalling system in Europe.
- The status of deployment in EU is too low
- Reluctance to invest from the MS due to cost and lack of individual business case in most instances

### . Actions:

- Focus on deployment.
- ERTMS Deployment Action Plan involving all Rail Stakeholders
- Boost financing

## Joint Rail Sector Declaration on Digitalisation of Railways

- Officially presented to Henrik Hololei during Transport Days in Tallin.
- In the post-2020 Multiannual Financial Framework (MFF), dedicated funding should be made available to foster ERTMS deployment.



Joint Rail Sector Declaration on Digitalisation of Railways



Move from pioneer approach to industrial approach



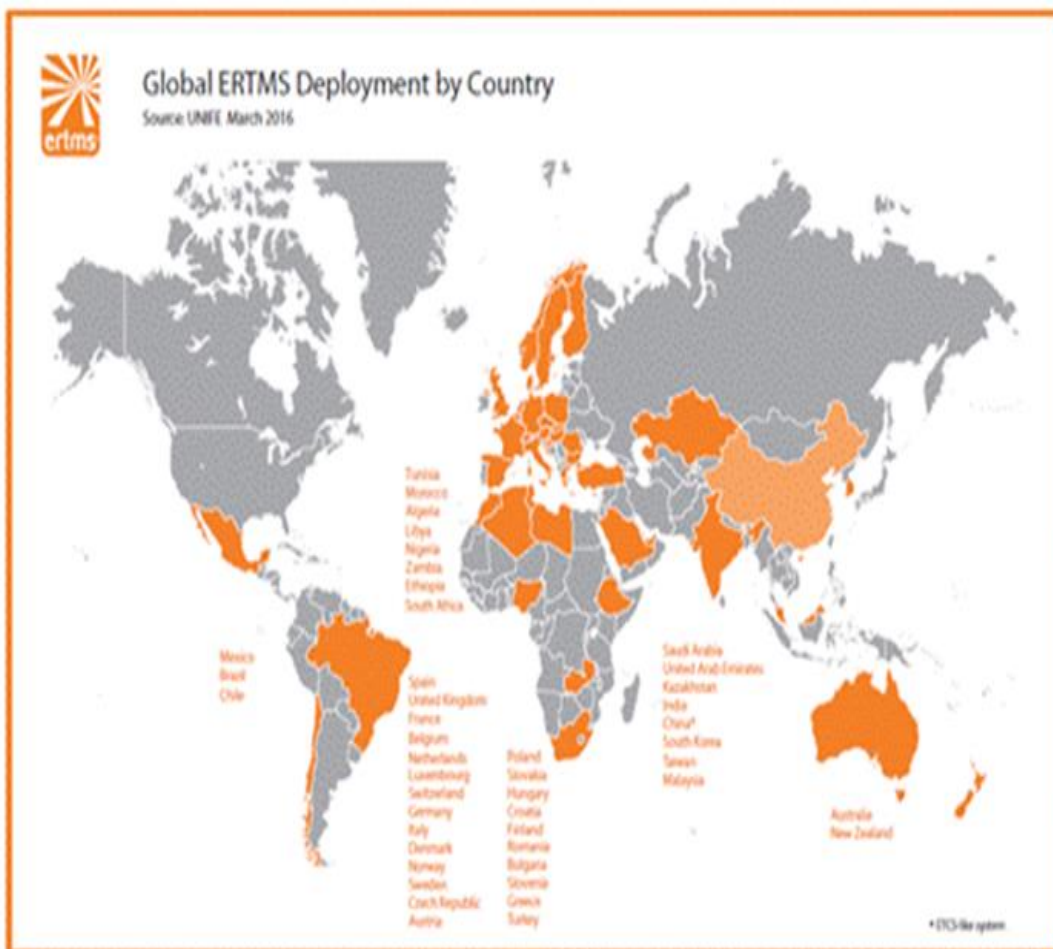
Speed up the ERTMS deployment in a coordinated way



Invest more on resources

# ERTMS

## A proven system, successful worldwide



Total track > **94,000**

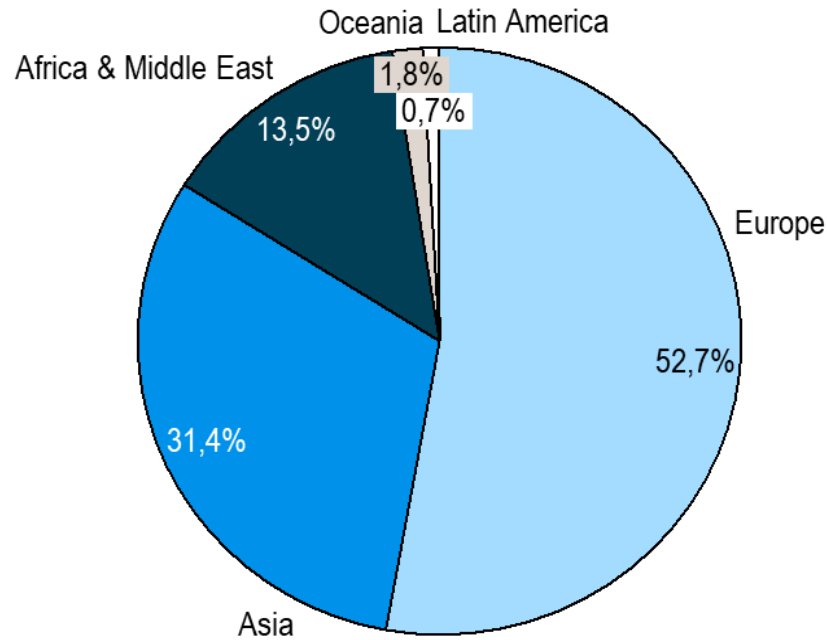
**50** Countries are using ETCS trackside

Total No vehicles > **12,000**

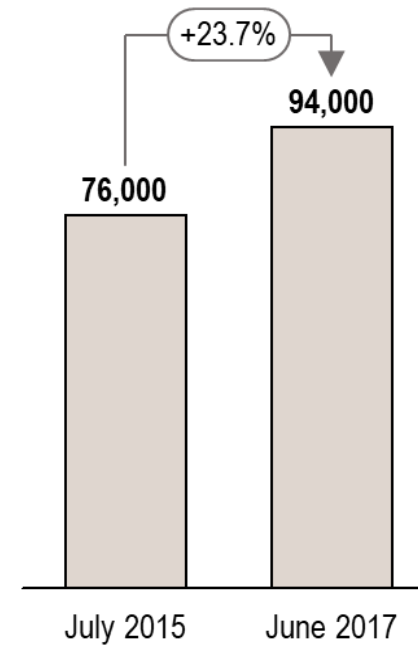
**46** Countries are using ERTMS vehicles

# ERTMS - A Key EU Rail Export

**ERTMS trackside contracts by region**

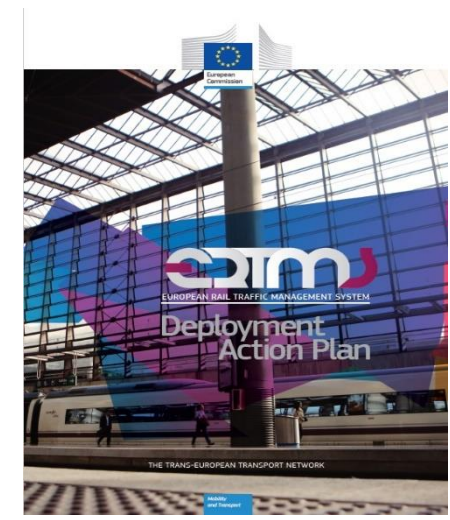


**ERTMS trackside contracts in track km**



# European Deployment Action Plan

- UNIFE and UNISIG has been actively involved at the **ERTMS Stakeholder Platform Coordination Subgroup** meetings collaborating with **European Commission, ERA, CER, ERFA, EPPTOLA** on the finalisation of **ERTMS Deployment Action Plan** which will published during this conference.
- The plan will be project managed by DG Move and the follow-up will be monitored by the ERTMS Stakeholder Platform Coordination Subgroup, starting from October 2017. The plan addresses most of the recommendations from the report of European Court of Auditors.
- The Commissioner of Transport, **Violeta Bulc** expressed her support to UNIFE for the **ERTMS European Deployment Plan** during the Connecting Europe Conference organized by the Estonian Presidency of the Council and the European Commission, with the objective to identify policy actions and financing solutions to invest in the Transport sector with the perspective of the post-2020 EU financial framework.





Thank you

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# **ERTMS Maturity and Challenges to support ERTMS Deployment The suppliers view**

**Vincent PASSAU  
UESC Chairman,  
Alstom Digital mobility**

**CCRCC Conference  
Valenciennes, 16th November 2017**



## What ERTMS has delivered so far ?



**Main objectives of ERTMS are being met**

**Deployment statistics are de facto confirming its suitability on most market segment virtually worldwide**



Getting more out of existing infrastructure



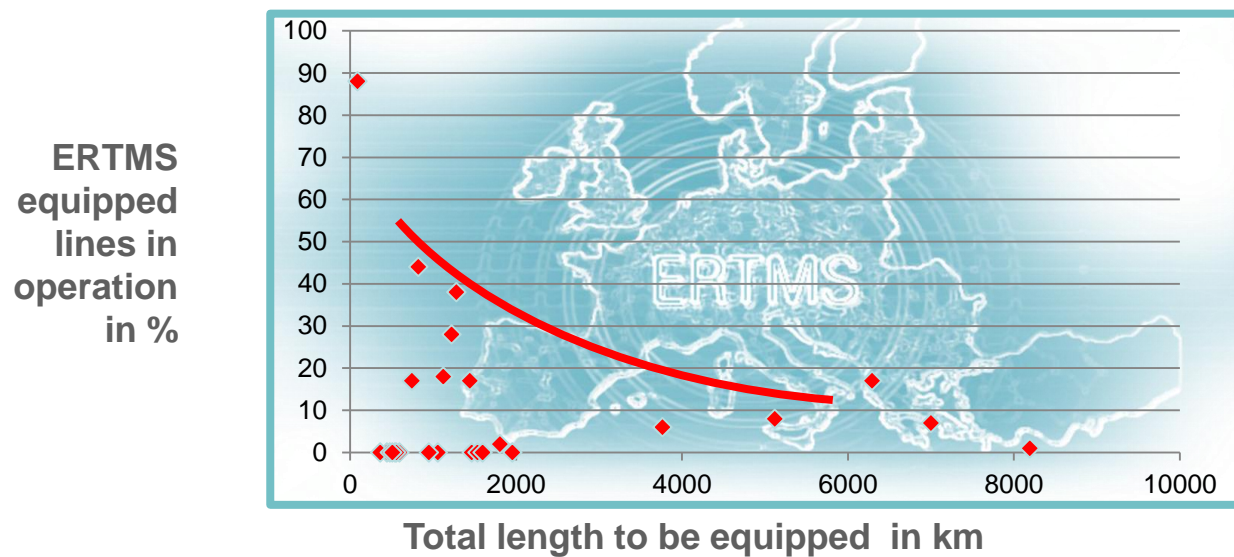
Interoperability  
Multi-vendor



Suitable for Worldwide deployment

## Deployment coverage

- Large countries have proportionally equipped slower\*



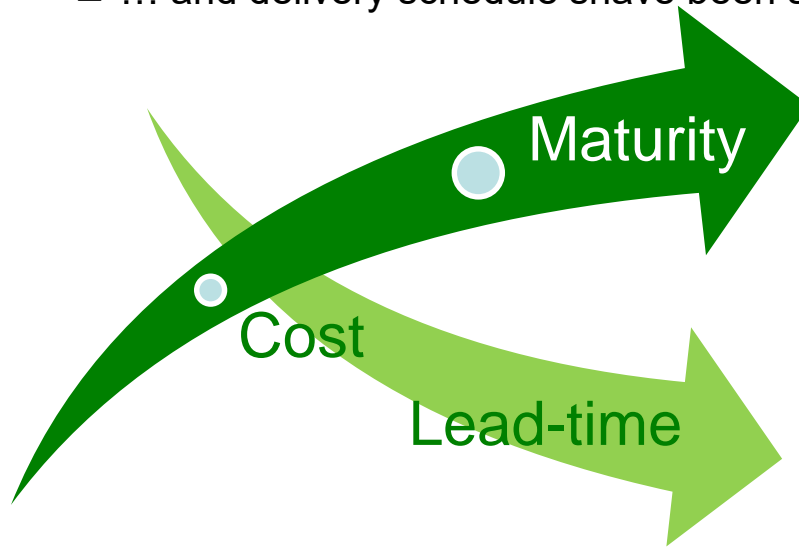
- Importance of large countries to develop BC for ERTMS

\* ECA report on ERTMS 2017

## Maturity on Interoperability

### ■ Leading Example in Spain

- more than 1000 km (\*) of the Core Network in operation with ERTMS
- Real multi supplier approach ...
- ... and delivery schedule shave been shortened with increasing maturity



OBU Contracts	ETCS L1 LEU contracts	ERTMS L2 RBC contracts
Alstom	Alstom	Alstom
Ansaldo STS	Ansaldo STS	Ansaldo STS
BT	Siemens	BT
Siemens	Thales	CAF
		Siemens
		Thales

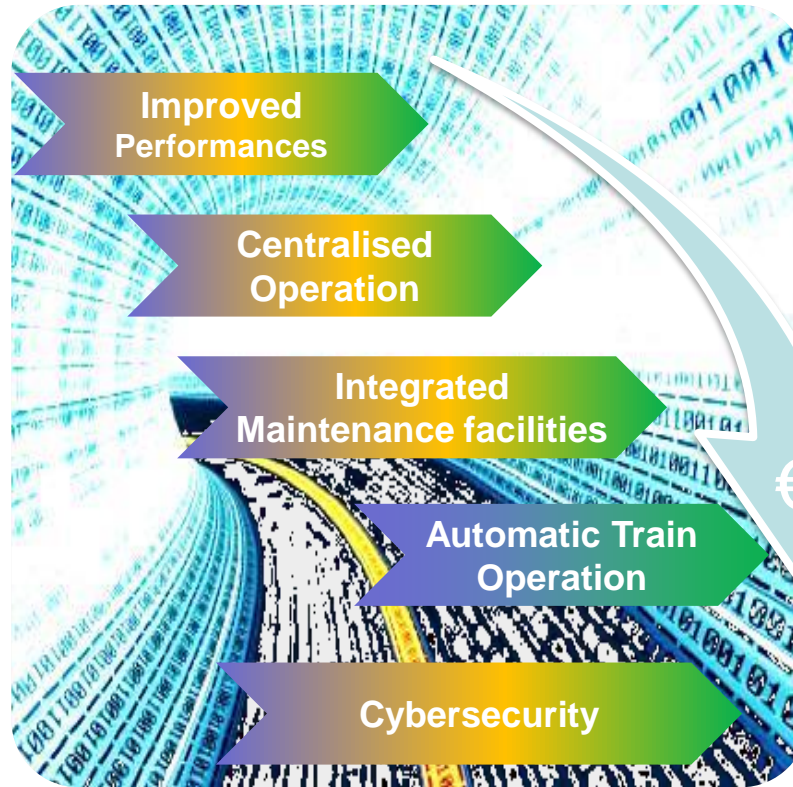
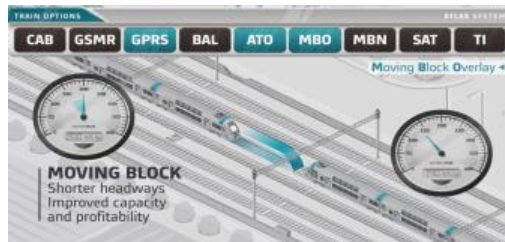
\* ECA report on ERTMS 2017

## From Baseline 3 Release 2

- **UNISIG suppliers offer ERTMS baseline 3 Release 2 products and secure the future**
  - The benefit of the latest more complete and mature Standard, with planned maintenance releases for technology and functional evolutions, while maintaining Interoperability
  - Integrating the feedback from early implementation
  - With extensive range of supporting tools for deployment, operation and maintenance
  - Addressing digitalisation and game changers for improving Business cases of IM and RU
  - Involved in S2R



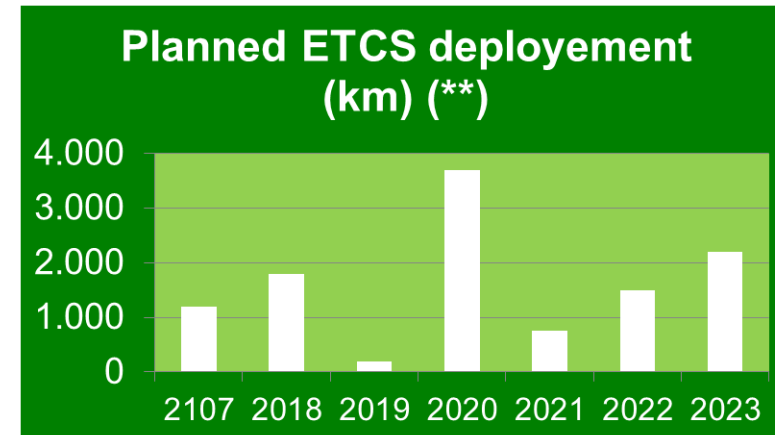
## Game changers



## From Pioneering to Industrial Production

### Supporting the ERTMS Deployment Plan

- **Deployment of 51 000 km of core network corridors to be equipped by 2030 (\*)**
  - ~ 4 000 km of ERTMS in operation end of 2016
  - first 4000 kms boosted by new HSL, few overlay projects
  - ~11,500 km during first period of plan (2017-2023)
  - ~5000 km/y in second period (2023-2030)
  
- **Speed-up deployment, moving from « pioneer » to « industrial » approach**
  - Financial resources
  - Industry, IM and RU resources
  - 3rd parties support for approvals and assessments



\* ECA report on ERTMS 2017

\*\* Draft EDP jan 2017

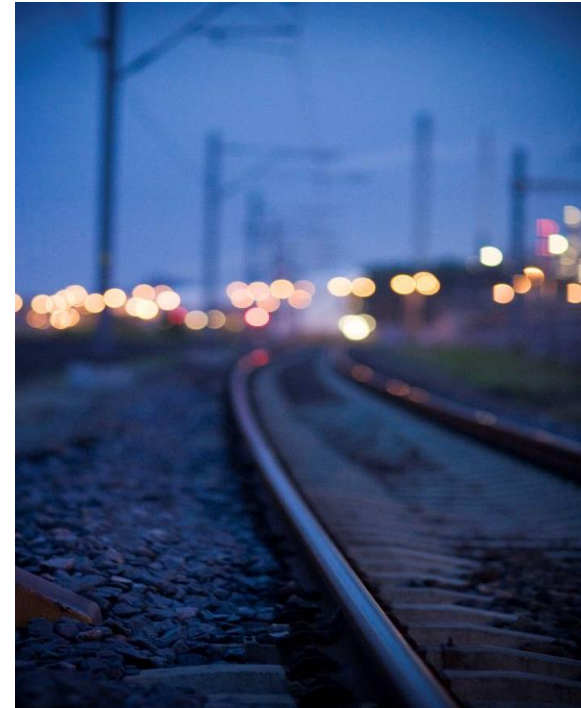
## Other Challenges

- **Improved Business Case for IM and RU if**
  - ERTMS deployment is associated with some resignalling works (interlocking renewal, Traffic management evolution / centralisation, ..)
  - Larger nation-wide deployment
  
- **Key success factors**
  - Limit new requirements
  - Simplify and harmonise operational rules
  - Standardise interfaces
  - Harmonise and seamless approval processes



## Conclusion

- **Suppliers are prepared for large scale deployment of ERTMS**
  - With the benefit of products compliant to the latest Standard
  - Bringing the return on experience of the early implementations
  - With supporting tools and processes for efficient project deployment, operation and maintenance
  - With solutions that can be adapted to future evolution







**Thank you for your attention**

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