

How should national and EU rail market legislation evolve to safeguard better performance

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- **UNIFE in brief**
- **How to achieve better performances by the railway industry?**
- **Conclusions**

- **UNIFE represents the European Rail Supply Industry**
- **Based in Brussels since 1992**
- **The trusted partner of European and International Institutions in all matters related to rail and transport**
- **Full members:**
Over 80 of the largest and small and medium-sized companies in the rail supply sector
- **Associated members:**
17 including 15 National Associations (ASSIFER in IT), representing almost 1000 suppliers of railway equipment
- **UNIFE members have an 84% market share in Europe and supply more than 46% of the worldwide production of rail equipment and services.**



UNIFE Members

ABB

blue
Engineering & Design

Constellium

FRANKE CONSIGNMENT
LOGISTICS

indra

GROUP LUCCHINI
RS

SafeRail

SIEMENS

TEXEUS
POWER TECHNOLOGY

ALSTOM

Rochumar Verein
Rochumarstr. 100-101 3910

DIGINEXT
by playgroup

FRAUSCHER
SENSOR TECHNOLOGY

Ingeteam

MATISA

S
SAFT

Sirti

THALES

ALTPRO s.p.a.
ALTAIR ENGINEERING & SERVICE

BOMBARDIER
the evolution of mobility

DU PONT

GE Transportation

KEYMILE
POWER MANAGEMENT

mermec

GO TRANSPORTATION
GROUP - TRUCK & ELECTROSYSTEMS

SKF

UniControls

Ansaldo STS

BONATRANS

CM

GHH-RADSATZ

LE

MIPRO

sapa

ŠKODA

VALDUNES
SA 2000

ArcelorMittal

CAF

EKE
ELECTRONICS

GREENBRIER
EUROPE

KNORR-BREMSE

NEXALA

SCHAEFFLER
LUK TDA FVA

Stabirail

vds

Ardanuy

CEC
CONSTRUCTION EQUIPMENT

ENGIE

HaCon
Energy - Software - Service

KOLOWAG

oltis group

SCHALTBRAU
RAIL - RAIL - RAIL

Strukton
RAIL

VibreTec

ASTRA

CENTRALP

Exa

HARTING

KONČAR
Kombi - Electric Vehicles Inc.

PENTAIR
Schroff

SCHULTZBAUMANN

Talgo

VOITH

2D
PRAHA

CKD Křtiny Hora

Faiveley
SOLUTIONS

HIRSCHMANN

kontron

PIXY
RAILWAY SIGNALING

Sécheron

TATA

vossloh

Ballour Beatty
Rail

CONSOLIS
RAIL

FOGTEC
FIRE PROTECTION

HOPPECKE
POWER FROM INNOVATION

logiplus

Plasser & Theurer

Selectron

TATRAVŮVNKA
POPRAV

MÜLLER

Associate Members

ACRI
Association of Czech Railway Industry

ATP

BAHNDUSTRIE.at
Verband der Bahnindustrie

VERBAND DER DUTCHEN RAILINDUSTRIE
VDR

MAFEX
RAILWAY ENERGY ASSOCIATION

SWEDTRAIN

UNISIG

ZVEI
Die Elektroindustrie

Railway Industry Association

AGORIA
no future without technology

CASSIPER

EFRTC

Holland Rail Industry

SIRTS

SWISSRAIL

DEE BAHNDUSTRIE
DEUTSCHE ELEKTRO-UND ELEKTRONIK-INDUSTRIE

RASIA

How to achieve better performances by the rail supply industry?

- 1. Reduce administrative burdens**
- 2. Innovation**
- 3. Digitalization**
- 4. Quality**
- 5. Financial support to rail projects**
- 6. Support from EU Institutions to our industry's world competitiveness**

- **UNIFE is been a strong supporter of the Fourth Railway Package Technical Pillar**
 - The rail industry has been facing over the last years an exponential increase of **administrative burdens**, generating by adding to national legislation the European legislation, in particular concerning **conformity assessment and authorization for railways products**

- **UNIFE applauds its full adoption by the European Parliament on April 28 and enthusiastically welcomes this progress towards the entry into force of the Technical Pillar**
 - UNIFE strongly believes that **the current administrative burdens can be solved by a good implementation of the technical pillar**, in particular concerning vehicle authorization and ERTMS trackside implementation

- **UNIFE fully supports ERA in the current preparatory phase and is fully focused on achieving the objective of improving efficiency**

#1: reduce administrative burden

- Another key topic for improving efficiency in the Single European Railway Area is the **reduction of national rules**
- **UNIFE is pleased to see a clear plan from the Agency to clean up all unnecessary national rules. The removal of those barriers is the basis for the European authorization for placing on the market envisaged by the Fourth Railway Package**
- **In parallel, the sector shall remain focused on the real harmonization of the network, which would allow for a real interoperability of the European railway**
- **UNIFE is calling for a strong support of the European institution for the deployment of a TSI conform network in order to achieve the Single European Railway Area**
 - In this respect the provision of the harmonization of the ERTMS trackside in the Fourth Railway Package is very much welcome by UNIFE

- Research and Innovation in the rail sector are of paramount importance to answer the **societal challenges** (Climate change adaptation, decarbonisation, digitalisation...)
- Need to **increase the capacity, the reliability and reduce cost of the railway system.**
- **Shift2Rail**, the new and ambitious European Research & Innovation Programme, will deliver **Technology Demonstrators** aiming at improving the performance of the railway system.
- **Shift2Rail - A whole industry solution:** Supply industry, IMs and RUs will work together with the support of academia



- UNIFE is the coordinator of two Shift2Rail lighthouse projects (Roll2Rail and IT2Rail) and involved as partner in another Shift2Rail lighthouse project (In2Rail).
- These projects are setting-up the foundations of several Shift2Rail Innovation Programmes:



- **Roll2Rail:** To develop key technologies that will overcome hurdles to innovation in rolling stock development and forms part of a longer term strategy towards revolutionising the rolling stock of today. (S2R IP1)



- **IT2Rail:** To transform the European citizen's global travel interactions into a fully integrated and customised experience, to offer a user door to door (D2D) multi modal travel experience to passengers (through services distributed by multiple providers) and to contribute to Shift2Rail IP4



- **In2Rail:** To set the foundations for a resilient, consistent, cost-efficient, high capacity European network by delivering outputs that will feed into Shift2Rail IP2 and IP3.



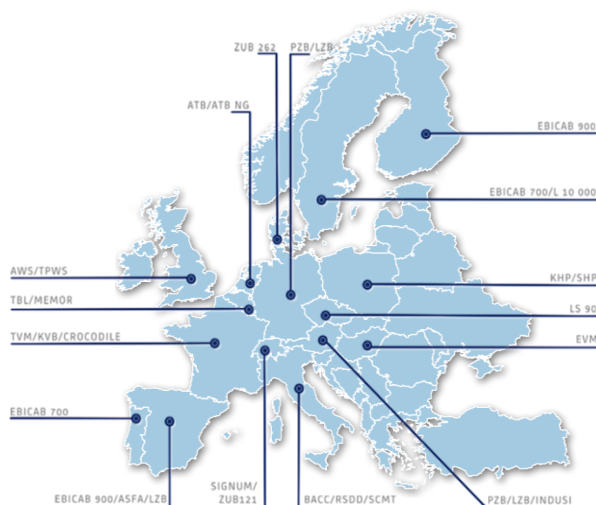
- **UNIFE has put great attention to the digital initiative and considers digitalisation as a priority**
- **A “UNIFE digitalisation Platform” was created in order to better exchange within the rail supply industry about this topic**
- **The platform identified the following priorities:**
 - I. **Passenger experience**
 - II. **Cyber Security**
 - III. **Predictive maintenance**
 - IV. **ERTMS**

- **Passenger experience / information for passengers**
 - the performance of the railway system is not only a problem of capacity, reliability, etc.. but the passenger feedback is key, both to define and measure the performance, and to improve it: simplicity, seamlessly, information, rapidity, comfort.

- **Digitalization is also key for operational improvement through better availability and reliability**
 - For that reason UNIFE decided to concentrate on **predictive maintenance**

#3: Digitalization Focus on ERTMS

- Having more than 20 signalling systems (ATP) in Europe is a major problem for international railway traffic
 - Costs are significantly raised as locomotives have to be equipped with each system to cross borders
 - Drivers needs to be trained for each system
 - In some cases trains must be changed at the border

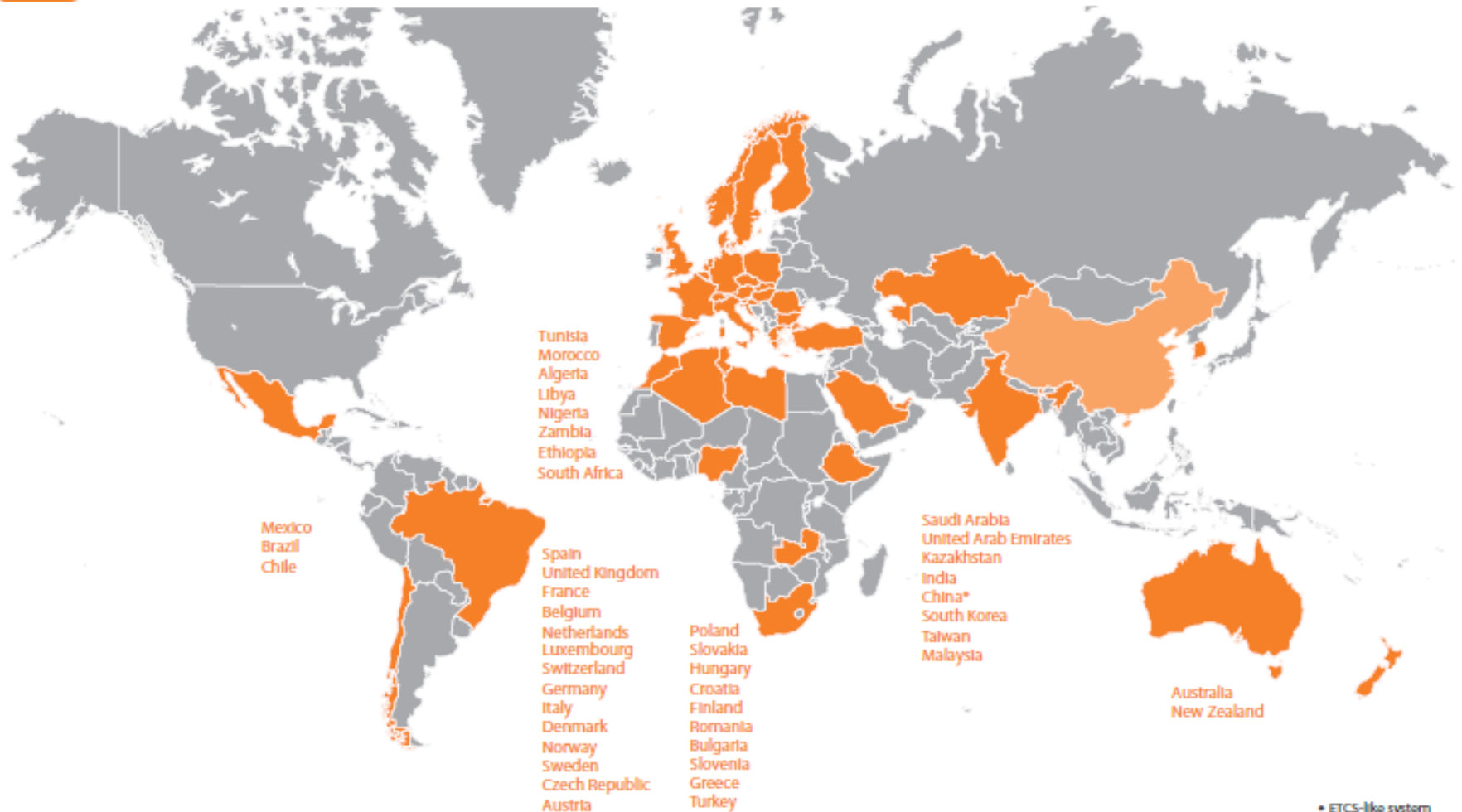


- **ERTMS = create a unique signalling system for Europe**

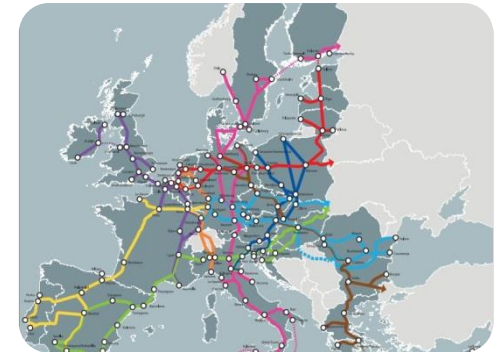


Global ERTMS Deployment by Country

Source: UNIFE December 2015



- **ERTMS is the backbone of the Digital SERA**
- **Current regulatory framework: CCS TSI + European Deployment Plans**
- **Ensure, at European level, the necessary financial support to the ERTMS deployment: CEF, EFSI**



#4: Quality - IRIS

The rail sector way to win

Quality improvements in rail over 10 years

Structure the organisation in a preventive way:

- ❖ In line with customer needs
- ❖ Based on proven best practices (from similar industries)
- ❖ Mid-long term savings in the supply chain
- ❖ Competitor are already certified!

Bring continual improvements:

- ❖ Enable the control of the changes within the sector
- ❖ Focus on customer satisfaction

External KPIs

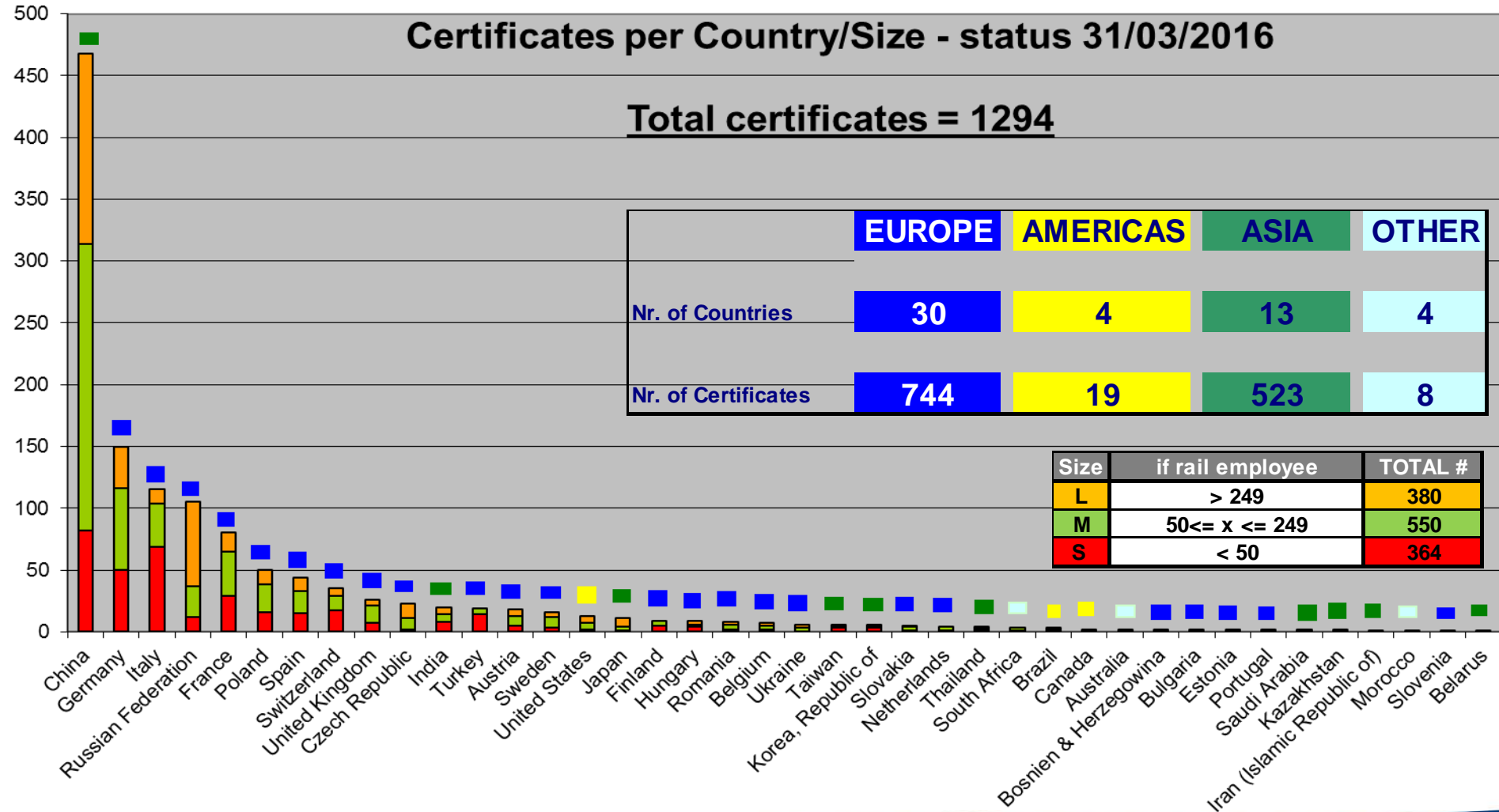
IRIS Key Performance Indicators

Certificates per Country/Size - status 31/03/2016

Total certificates = 1294

	EUROPE	AMERICAS	ASIA	OTHER
Nr. of Countries	30	4	13	4
Nr. of Certificates	744	19	523	8

Size	if rail employee	TOTAL #
L	> 249	380
M	50 <= x <= 249	550
S	< 50	364



Standard (requirements):

- ❖ IRIS Version 2016
- ❖ Handover to ISO
- ❖ ISO/TC 265 AG 15

Certification process and assessment methodology:

- ❖ Currently under review
 - ❖ Performance assessment
 - ❖
- ❖ Remains under rail sector responsibility

- **Performing system requires continuous investments, in particular support in the form of EU grants**
 - The need to use efficiently the funds available within the Connecting Europe Facility (CEF), the Cohesion Fund and the European Regional Development Fund (ERDF)

- **Since grants and public funding cannot cover all the investment needs, it is necessary to use the new financing instruments, in particular the European Fund for Strategic Investments (EFSI or Juncker Investment Plan)**
 - The first railway project under the EFSI was in Italy – EUR 300 million financing of new trains for Trenitalia to operate within Lazio, Tuscany, Veneto, Piedmont and Liguria
 - This is an example that railway projects can attract private investors, hence the need to prepare good project pipeline, for instance for the ERTMS deployment

#6: Support from EU Institutions to our industry's world competitiveness

- European Parliament “Resolution on the Competitiveness of the European Rail Supply Industry” initiated by Rapporteur MEP Martina Werner (S&D, Germany)



- Adopted on 7 April by an overwhelming majority of the Members of the EP Industry Committee (ITRE)

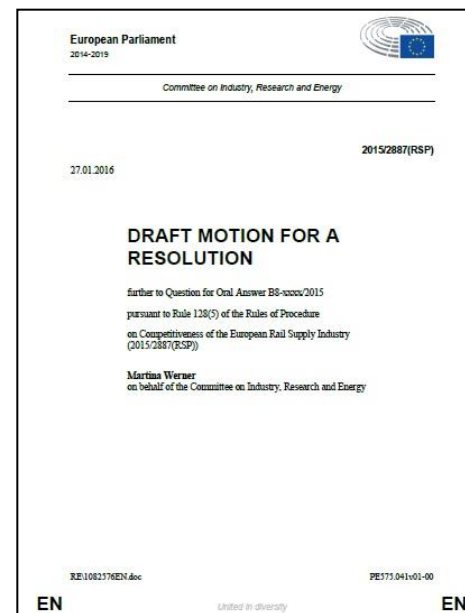


ITRE Committee Press @EP_Industry · Apr 8

"A strong European rail supply industry in a fair global competitive environment", said @EP_Industry MEPs. Prs rel: ow.ly/10rbZO

- EP proposal for a very comprehensive European industrial strategy aiming at safeguarding the global leadership of an innovative and performing European rail supply industry

- Specific nature and strategic relevance of the European Rail Supply Industry for a European Industrial Renaissance
- Maintaining global leadership of the European Rail Supply Industry
- A renewed European rail industry innovation agenda
- Getting the right skills for a future-proof rail supply industry
- Supporting SMEs
- Improving the European market environment for suppliers and encouraging the demand for sustainable products
- Boosting investment in rail projects
- Strengthening the global competitiveness of the rail supply industry
- Improving strategic political support for the sector



- **UNIFE calls for a strong support from the European and National institutions to increase the industry competitiveness**
 - Full support to “soft” approach to regulation and a real sector & EU approach

- **UNIFE is very engaged in order to increase the rail industry competitiveness, in particular by:**
 - Reduce administrative burdens through the Technical Pillar of the Fourth Railway Package
 - Boost Innovation through Shift2Rail and other cooperative research initiatives
 - Boost Digitalization in railways with a particular focus on:
 - Passenger experience
 - Cyber Security
 - Predictive maintenance
 - ERTMS
 - Increase the Quality of its products by adopting the IRIS standard
 - Advocating for financial support of rail projects and the implementation of the Parliament resolution on the Rail Industry competitiveness

Thank you for your attention!

any question?
please contact alice.polo@unife.org