VI International Rail Salon of Engineering and Technologies

“Establishment of International Railway Standards for economic development and innovation for 1520 system”

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A SUSTAINED RAILWAY SECTOR DYNAMIC

. More members: + 100 new /year 2009
> 230 members

. More technical deliverables: > 500 live leaflets (standards)
Projects & deliverables, including R&D
> 90 seminars & conferences /worldwide
greater audience

. More global

With a specific developments on UIC role on dissemination & promotion of railway solutions and railway standards
With **better integration** of the different regions thanks to dedicated partnerships with members and international organisations
UIC Standardisation Platform

Why?

- Initiated in December 2012

- Missions:
  1. Definition of detailed strategies on standardisation implementing the guidelines given from UIC members
  2. Increase the value of the UIC Leaflets defining their evolution: International Railway Standards and Joint Standards
  3. Coordination of standardisation activities to be developed by the different UIC Forums
  4. Establishment of proper agreements with the other Standardisation Institutions
What? – Covered Activities

Strategy

- Strategy of Standardisation

Guidelines on Standardisation

Contributions
- TSI
- High Speed Systems
- Application Europe
- Standardisation 1520

Agreements
- ERA
- ISO
- IEC

System View & Production

Clusters
- High Speed
  - IRS xx
  - IRS yy
  - UIC zz
- Freight Corridors
  - IRS xy
  - IRS yx
  - JS ww
  - UIC wx

Term Of Reference

Rail System Forum
- Joint Standards (UIC-IEC, UIC-ISO, ..)
- International Railway Standards
- UIC Leaflets (plus UPDATING)

Passenger Forum

Freight Forum

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UIC Standardisation Strategy

Standardisation Targets Highlights

1. Balance and optimise resources, targets and innovation.
2. Real opportunity for cooperation and integration of best practices and outcomes and processes.
3. Development of UIC standardisation based on an increased and solid consensus.
5. Assert and progress in the complementarity principle with regard to other standardisation organisations.
An IRS consists of:

1. **A Common Part**: that contains all the elements agreed by everybody.

2. **Several optional Specific Parts**: each of them, is mandatory only for a specific service or geographic application.
UIC Standardisation Strategy

CLUSTER OF SPECIFICATIONS – SYSTEM FOCUS

The clusters are coordinated sets of norms addressed to standardise the pre-competitive items of the railway applications.

First examples
1. Freight Corridors
2. High Speed
UIC Standardisation Strategy

APPLICATION: 1520mm SYSTEM

The International Railway Standards offer an efficient possibility to the development of standards for the 1520mm OSJD system.

The redaction of IRSs allows to make immediately available new, existing or under development OSJD standards into suitable documents.

The concrete results now available allows working simultaneously on the different systems according to the various needed situations.

1. Easiness in merging different standards
2. Dynamically growing **Common Part**
3. Rapid **Special Part** exploitation
POSSIBLE FIELDS OF INTEGRATION: TSI AND REGLAMENTS

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PROJECTS
TSI Scope expansion

• RS
• ENE

IRS n. XXXX
ROLLING STOCK

 IRS n. YYYY
FIXED INSTALLATIONS

1435 1520
1435 1520

Rs 201407
Rs 201408

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NOW - UPDATING OF UIC LEAFLETS

1. 120 Leaflets to be updated in IRS format in 5 years, i.e. 24 on average per year.

2. 20 leaflets in 2013:
   - 14 on Rolling Stock Sector,
   - 2 on Energy Sector,
   - 3 on Infrastructure
   - 1 on Passengers

3. A strong governance to manage the process has been put in place.
Standardisation Platform VISION

UNIFICATION OF RAILWAY OPERATING RULES AND MAINTENANCE

1. Railway Operating Rules will be IRSs defining the human operations connected to the railway system and its interfaces, at a worldwide level as a condition for design of the next generation of railway transports.

2. Transverse characteristics and applications of the railway system

- **Men** (organisation, skills, education, culture...)
- **Environment** (economical and safety targets, traffic, track possession politic...)
- **Rules** (operation rules, laws, technical directives, track possession management...)
- **Infrastructure** (track, signalling, overhead lines, monitoring...)
- **Rolling stock** (speed, load, aerodynamics, acceleration, monitoring...)
Standardisation Platform Action Plan

HOW?

1. Encourage continuous improvement of UIC standards as irreplaceable to operate the railway service.

2. Endorse the clusters’ concepts and support the implementation of the proposed ones (freight corridors, High Speed, etc.).

3. Carry out the IRS concept, with first examples with all stakeholders in the most suitable format:

   -> Partnering with regulation bodies: OSJD, CRT, IEC, ...
   -> Partnering with standard issuing members; CARS (China), VNIIZhT (Russia), RTRI (Japan), ...
Thank you for your kind attention

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