



INTERNATIONAL UNION
OF RAILWAYS

CEF PSA UBS ACTION PROJECT KNOWLEDGE TRANSFER WORKSHOP 07 APRIL 2022



Hakan GUNEL
UIC Senior Freight Advisor

SOUND and IMAGE

- Turn **OFF** your microphone when not speaking.
- Turn **ON** your microphone and camera when speaking.
- Switch it off again when you have finished

QUESTIONS and INTERVENTIONS

BEFORE YOU OPEN YOUR MIC AND START SPEAKING:

- Use the 'raise hand' function to indicate you have a question or comment.
- Please let speakers finish their presentation first,
- We will give you the floor after that, for questions and comments.
- There is a dedicated person to watch out for raised hands and we will give you the floor

BREAK

- We will have one break of 10 minutes

!!THE MEETING WILL BE RECORDED!!

Agenda

CEF PSA UBS Action project
Transfer knowledge workshops East & West RF Corridors

April 07th, 2022

09.00 - 12.30

Online

09:00 - 09:10	1. Welcoming Words Introduction by Hakan GUNEL – UIC
09:10 - 09:25	2. Xrail / UIC Unified Braking Scheme project: workgroup setup & status quo Presentation by Hannes LUTS - Xrail Q&A
09:25 - 09:35	
09:35 - 09:50	3. IRS 40421: methodology and latest modification Presentation by Giulia RUSSO - UIC Q&A
09:50 - 10:00	
10:00 - 10:15	4. AMOC as a guide including the best practices that help harmonizing braking rules Presentation by Frederic HENNON - UIC Q&A
10:15 - 10:25	
	BREAK 10:25 - 10:35
10:35 - 10:50	5. Activity 1 – Sharing Rhine – Alpine Corridor Pilot Train test experience Presentation by Lukas JOA – DB Cargo Q&A
10:50 - 11:00	
11:00 - 11:15	6. Discussion on 1st TrainDy study results as an output of the project Presentation by Thierry DURAND – SNCF Q&A
11:15 - 11:25	
11:25 - 11:40	7. Discussion on 2nd TrainDy study results as an output of the project Presentation by Prof. Luciano CANTONE – University of Roma – Tor Vergata Q&A
11:40 - 11:50	
11:50 - 12:30	Discussion



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CEF PSA UBS ACTION PROJECT OVERVIEW



CEF UBS PSA Action project - Overview

The European Commission has launched a “Rail Technical Operational Issues Logbook ”whose main aim is to identify barriers to interoperability hampering international rail freight traffic, especially on Rail Freight Corridors (RFCs).

One of the most important priorities is the technical operational issue of different national braking rules requirements.

To harmonize the braking rules within the TEN T Rail Freight area, a working group, Xrail, and the International Union of Railways (UIC) looked into concrete solutions to overcome this braking rule barrier.

On the other hand, CEF PSA UBS Action project was launched to solve priority 1 of the Log Book issue and implementing the Unified Braking Scheme (UBS) as a pilot project along the Rhine-Alpine Corridor with the aim of transferring knowledge gained across the TEN-T rail network.

The main goal of the CEF PSA UBS Action project is to demonstrate that rail safety is not degraded at all due to the UBS solution and therefore fulfills all the requirements as set out in the Safety Directive CSM REA.

CEF UBS PSA Action project - Overview

Consortium members:

1. DB Cargo AG (Railway Undertaking) – **Coordinator**
2. DB Cargo Nederland (Railway Undertaking) – Affiliated Entity
3. DB Cargo Italia (Railway Undertaking) – Affiliated Entity
4. UIC - Union Internationale des Chemins de fer (Rail Associations)
5. EEIG Corridor Rhine-Alpine EWIV (Rail Freight Corridor)
6. EBA - Eisenbahn-Bundesamt (National Safety Authority)
7. DB Netz (Infrastructure manager)

Official endorsement:

1. Bundesministerium für Verkehr und digitale Infrastruktur (Member State Germany)
2. Ministerie van Infrastructuur en Waterstaat (Member State Netherlands) and ILT Inspectie Leefomgeving en Transport (National Safety Authority)
3. ProRail (Infrastructure Manager)

CEF UBS PSA Action project - Overview

The project have three major activities:

The Activity 1) Pilot UBS implementation along the Rhine-Alpine Corridor:

Development and implementation of pilot projects, including tests on site through test-on-sites, training of staff and workshops

The Activity 2) Implementation of UBS across Europe

The knowledge will be transferred to other geographical areas at European level by workshops, studies and training material.

The Activity 3) Project Management & Dissemination

The first two main activities will be supported by appropriate project management and dissemination activities to leverage the maximum results of the action.

CEF UBS PSA Action project - Overview

Main tasks of Activity 1:

Task 1.1) Pilot operations, ‘on-site test’ of the UBS solution along the Rhine-Alpine Corridor

Task 1.2) Training sessions for operational staff to adopt the UBS solution along the Rhine-Alpine Corridor

Task 1.3) ‘Best practices’ workshop to share pilot project activities and results, including the publication of the UBS results.

Deliverables:

Test trains for pilot operation, trainings, workshops, risk assessment

Pilot UBS implementation Rail Freight Corridor Rhine-Alpine (RFC1)

Train path and main corridor nodes



CEF UBS PSA Action project - Overview

Main tasks of Activity 2:

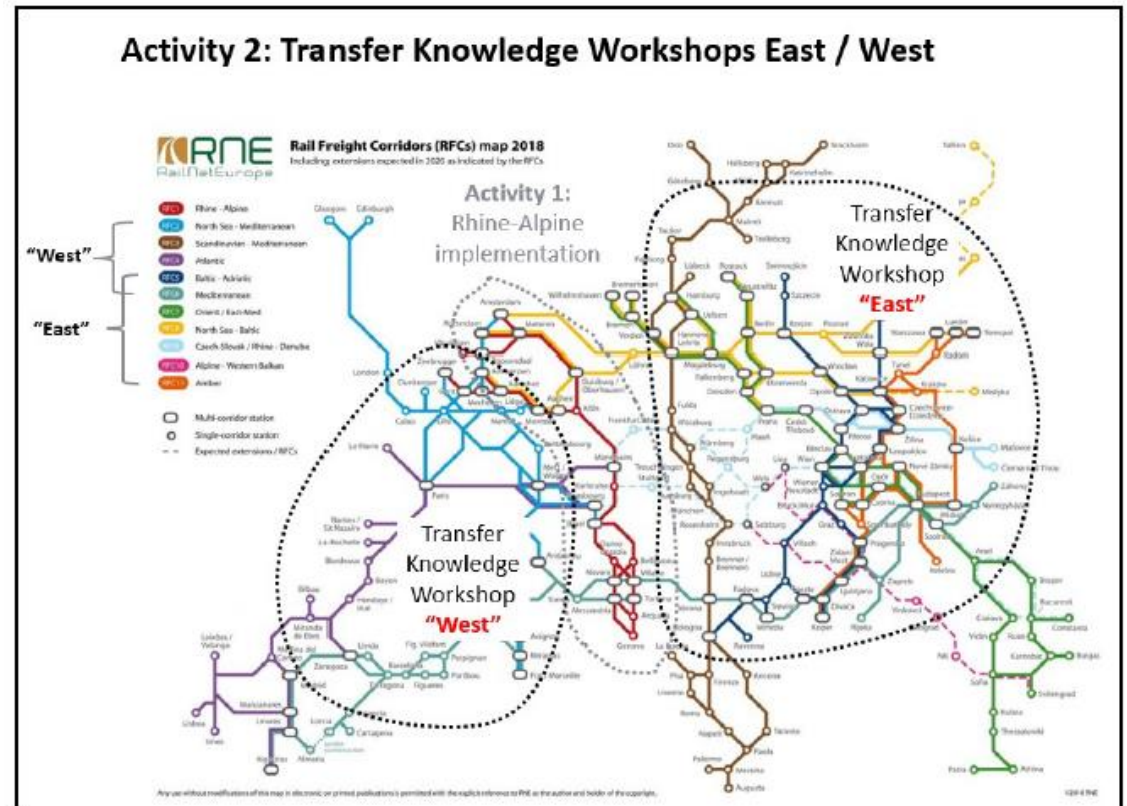
Task 2.1) Country-specific alignment of the UBS framework across Europe

Task 2.2) UBS training blueprint

Task 2.3) Transfer knowledge workshop to other geographical areas

Deliverables:

Country-specific alignment of UBS framework report, Training blueprint and knowledge transfer workshops



CEF UBS PSA Action project - Overview

The contributions of the project to the harmonization of the braking rules besides deliverables of the project as follows

- **1st TrainDy Study report-** The study is about the risk of derailment due to the LCF (Longitudinal Compression Forces) of freight trains compositions according to rules of tonnage and length of wagons.
- **2nd TrainDy Study report-** The aim of this study is to investigate the risk for derailment when wagons lighter than 32 t are in a wagon rake > 1600 t and wagons lighter than 40 t are in a wagon rake > 2500 t, all in P-braked trains.
- **Updating IRS 40421 -** Rules for the consist and braking of international freight trains
- **Updating the International Brake sheet** that is a part of UIC leaflet 472
- **Contribution to Acceptable means of compliance (AMOC)** on checks and tests before departure, including brakes and checks during operation



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Thank you for your kind attention.