FOSTER RAIL

ERRAC Technology and Innovation Roadmaps

Coordination and Support Action

Grant Agreement No 605734

Date of Annex I against which the assessment will be made: 2015-03-16

Deliverable D7.7

Dissemination and publication of the ERRAC Final Technology and Innovation Roadmaps

WP	07	Dissemination
Task	7.7	Dissemination and publication of the Final Technology and Innovation Roadmaps

Dissemination level[1]	PU		**Due delivery date**	M36
Nature[2]	O		**Actual delivery date**	M36

Deliverable lead beneficiary	CER	**Deliverable responsible person**	Eva Böckle
Email	Eva.boeckle@cer.be		

Other contributors to the deliverable	N/A

Document Version	Date	Author(s)
1	28/04/2016	Eva Böckle

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[1] Dissemination level: **PU** = Public, **PP** = Restricted to other programme participants (including the JU), **RE** = Restricted to a group specified by the consortium (including the JU), **CO** = Confidential, only for members of the consortium (including the JU)

[2] Nature of the deliverable: **R** = Report, **P** = Prototype, **D** = Demonstrator, **O** = Other

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1. Executive Summary and description of the deliverable

FOSTER RAIL is a three-year project funded via the European Commission FP7 research programme. The project is coordinated by the International Union of Railways (UIC) with the support of the European Rail Industry (UNIFE) and relies on the following partners: UIC - F, UNIFE - B, UITP - B, EURNEX - D, UNIVERSITY OF NEWCASTLE - UK, TRAFIKVERKET - S, CER - B, FFE - E, ANSALDO STS S.p.A. - I, SNCF - F, INTEROPERABILITA ZELEZNICNI INFRASTRUKTURY - CZ, NETWORK RAIL - UK, ALSTOM TRANSPORT S.A. - F, RATP - F, FERROCARRIL METROPOLITA DE BARCELONA SA TMB – E, DEUTSCHE BAHN AG DEUTSCHE BAHN AG - D, AUSTRIATECH – A, Mer Mec - F

For more information on FOSTER-RAIL and ERRAC please visit www.errac.org or contact Dennis Schut at schut@uic.org or Nicolas Furio at nicolas.furio@unife.org :

The Final Technology and Innovation Roadmaps were officially endorsed by the ERRAC members during the FOSTER RAIL final conference on 7 April 2016 in Brussels. Prepared by the FOSTER-RAIL partners over the past months, the documents' purpose is to guide and inspire future rail research and innovation over the coming decades and to reaffirm Europe's need to offer a well-balanced, business-led and strong programme of research and innovation for the railway system.

This document provides explanations about the publication (design and printing process) and the dissemination of the Final Innovation and Technology Roadmaps for which WP7 was responsible.

The Final technology Roadmaps as well as the other public deliverables of the FOSTER-RAIL project are available at: http://www.errac.org/foster-rail/deliverables/

2. Results

Design and publication:

Following a call for proposals for the design of the Final Innovation and Technology Roadmaps, WP7 decided in January 2016 to work with Brussels based design agency Tostaky. This agency already proved its excellent work for a competitive price when working on the design for the SRRIA.

Work on the layout started in January 2016.

On 11 March 2016, WP4 provided WP7 with the final text of the Final Technology and Innovation Roadmaps which was approved by the ERRAC Steering Committee on the very same during the same week. This allowed WP7 to continue the design process. After several correction rounds, Tostaky delivered the following materials on 25 March:

- A fact sheet
- A 60 pages long brochure

These versions were also sent to the printer – 2500 copies of the factsheet and 1500 copies of the brochure were printed for dissemination.

In addition, WP4 has been working on a more complete version

A sreenshot of the brochure

FOSTER-RAIL
RESEARCH AND INNOVATION – ADVANCING THE EUROPEAN RAILWAY

Future of Surface Transport Research Rail

TECHNOLOGY AND INNOVATION ROADMAPS

In support of European Union action to provide sustainable solutions to the current economic problems and address the challenges of tomorrow, the **European Rail Research Advisory Council (ERRAC)** believes that research and innovation will enable the European rail sector to retain its leadership and increase its competitiveness.

Rail is now a knowledge-intensive and internationally competitive sector, striving to create an optimal eco-system for innovation. It pulls together (from across the continent) excellent research institutions and a well-performing manufacturing industry, with a strong and increasing dedication to research, development and innovation. These new **Rail Technology and Innovation Roadmaps**, developed in ERRAC's **Foster-Rail project** and building on its **Strategic Rail Research and Innovation Agenda (SRRIA)**, are designed to guide and inspire future research and innovation over the coming decades.

The SRRIA and the roadmaps specifically address the **efforts required for research and innovation** to achieve the ambitious goal set out by the European Commission in the **2011 Transport White Paper** where it is recognised that European transport is at a crossroads.

The roadmaps set out **research and innovation priorities on a thematic basis**, focusing on the attractiveness of passenger and freight rail transport, the sector-wide framework and the management of its assets.

- The strategy puts the **customer first**, prioritising passenger satisfaction and freight users' needs. The focus is on the journey experience, including the train and station environment, comfort, access, and value for money, taking account of feedback received.

- The customer orientation is part of a wider view of the **role of technology**, including digitalisation, to address strategic and economic objectives for the sector, which also includes helping the supply industry to bring its products and services to market faster and more efficiently, and for the operating community to provide reliable transport of passengers and goods.

- New **safety and security challenges**, including from cyber-attack, will be addressed without compromising the end to end journey through the whole transport network.

A screenshot of the factsheet

Dissemination:

WP7 elaborated a strategy how to best communicate the results of the Final Technology and Innovation Roadmaps to decision makers. This strategy included the following activities:

- **FOSTER-RAIL Final Conference:** The Final Technology and Innovation Roadmaps were presented and discussed on 7 April in Brussels. See below the agenda of the event.

FOSTER RAIL

ERRAC
The European Rail
Research Advisory
Council

ERRAC / FOSTER RAIL Final Conference

7 April 2016, 10.00-15.00

Brussels Marriott Hotel Grand Place | Rue A.Orts, 3-7, 1000 Brussels

Provisional Agenda

as of 09.30	Registration and welcome coffee	
10.00	Welcome from the Chairman	**Andy Doherty**, Chairman, ERRAC
10.10	Keynote speech from the European Commission	**Keir Fitch**, Head of Unit, DG MOVE **William Bird**, Programme Officer, DG RESEARCH
10.25	Shift2Rail – state of play	**Keir Fitch**, ad interim Executive Director, Shift2Rail JU
10.35	Future of ERRAC - presentation of ideas plus discussion	**Andy Doherty**, Chairman, ERRAC
11.15	Coffee break	
11.30	FOSTER RAIL – General Introduction	**Dennis Schut**, Coordinator, FOSTER RAIL
11.50	FOSTER RAIL roadmaps show: RM01; RM02; RM03; RM04	**Roadmap leaders** Moderated by Dennis Schut, UIC
12.40	Networking lunch	
13.30	FOSTER RAIL roadmaps show: RM05; RM06; RM07; RM08; RM09; RM10	**Roadmap leaders** Moderated by Dennis Schut, UIC
14.40	Comparison SRRIA/S2R Multiannual Action Plan	**Manuel Pereira**, Vice-Chairman, ERRAC
14.50	Concluding remarks	**Andy Doherty**, Chairman, ERRAC
15.00	End of conference	

- **Press release:** On 8 April, the day after the FOSTER-RAIL final conference, a press release (see below) was issued to national press, pan-European publications, specialised EU publications as well as press specialised in transport and research.

FOSTER RAIL

**Press release
Brussels, 8 April 2016**

ERRAC/FOSTER RAIL Final Conference—ERRAC enters a new phase with release of rail technology and innovation roadmaps

BRUSSELS—The European Rail Research and Advisory Council (ERRAC) met yesterday in Brussels for the final event of the FOSTER RAIL FP7 Project. During the conference, the ERRAC members agreed on the evolution of the ERRAC European Technology Platform (ETP) and released a detailed set of roadmaps that had been previously planned in the Strategic Rail Research and Innovation Agenda (SRRIA) published in November 2014.

Founded in 2001, ERRAC fosters rail sector innovation by guiding research efforts at the European level with the ambitious goal of creating a single European body with the competence to help revitalise and boost the competitiveness of the European rail sector. Since its inception, ERRAC has produced a number of important and influential documents and has been supported by the European Commission thanks to the implementation of Coordination and Support Action (CSA) projects.

The ten roadmaps announced yesterday set research and innovation priorities on a thematic basis that focus on the attractiveness of rail and public transport. The themes of the ten roadmaps are: "Customer Experience", "Strategy and Economics", "Safety and Security", "Capacity, performance and competitiveness", "Energy and Environment", "Control Command, Communication and Signalling", "Infrastructure", " Rolling Stock", "IT and other enabling technologies", and "Training and Education".

These roadmaps set out a challenging agenda for research and innovation in the rail sector in the coming decades. Some of the research areas outlined are already being addressed by the Shift2Rail Joint Undertaking and other rail research initiatives while other parts are aspirational, yet realistic. The SRRIA, on which these roadmaps are based, specifically outlines the European research and innovation efforts needed to achieve the ambitious goals set by the European Commission in the 2011 Transport White Paper that calls for a modal shift to rail for freight and passenger transportation segments.

With the conclusion of the FOSTER RAIL project this month, and as there are no new CSA projects planned by the European Commission in Horizon 2020 to support ERRAC activities, ERRAC must now evolve in order to continue its supporting role of the rail community. In order to do so, ERRAC will build upon the excellent technology and strategy development work carried out by railway sector associations, especially in the urban and freight areas. It will also utilise the technology strategies developed by railway undertakings and suppliers to describe the development needs through further updates and new Roadmaps and Strategic Research and Innovation Agendas.

ERRAC Chairman Andy Doherty chaired the conference and commented on the recently published roadmaps, stating, "I am very pleased to see the strong commitment of ERRAC members to support the ETP in delivering these key strategic documents for the sector. The future is challenging but I believe that if the railways of Europe and their partners in industry and academia pursue the right innovative approach, as outlined in these roadmaps, the sector will be properly prepared to deliver great benefits to all who use and work in the railways."

- **Website:** All materials (factsheet, brochure, and press release) were made public on the ERRAC/Foster-Rail website http://www.errac.org/

- **Postal dissemination:** A print copy of both the brochure and the factsheet was sent to the following target groups:
    - European Parliament (ITRE Committee, TRAN Committee)
    - European Commission (contacts in DG MOVE and DG Research as well as SHIFT^{2}RAIL Joint Undertaking)
    - Council (Transport Attachees of all Member States representations in Brussels)

- **Dissemination by Email:** The members of WP7, in particular CER, UNIFE, UIC and UITP informed their respective membership about the Final Innovation and Technology Roadmaps via email.

- **Other:** The members of WP7, in particular CER, UNIFE, UIC and UITP have received copies of both the factsheet and the brochure to disseminate at topical events.

3. Conclusion

The brochure and factsheet summarises the outcomes of the FOSTER-RAIL project and in particular the 10 Technology Roadmaps showing the way ahead for a successful and sustainable railway market.

The output is intended for use by – on the one hand - the railway sector itself and – on the other hand - by the European Commission in developing its future Horizon 2020 work programmes and calls. FOSTER-RAIL serves as well as input to the Shift2Rail Joint Undertaking and its annual plans and calls.

The factsheet and brochure have been widely disseminated among stakeholders of relevance to this project.

The 10 separate FOSTER-RAIL Roadmaps on which this integrated report has been based can be downloaded from the ERRAC website http://www.errac.org/foster-rail/deliverables/

FOSTER-RAIL is an EU coordination and support action project under the EC's 7th Framework Programme designated to support ERRAC in defining research needs for their strategies and programmes in order to realise the objectives of the Europe 2020 strategy. More information is available at www.errac.org.