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The Shift2Rail Newsletter

Delivering the railway systems of the future

Issue #3



Interview with newly elected Chair of ERRAC, Mr Alberto Parrondo

Alberto Parrondo has recently been appointed Chair of the European Rail Research Advisory Council (ERRAC) in a plenary session in Brussels. Sharing the objective of promoting innovation to boost the competitiveness of the European rail sector, the rail research organisation has been cooperating closely with Shift2Rail since its establishment. In an interview with the Joint Undertaking, Mr. Parrondo speaks about the future of the rail sector in Europe, the importance of strong cooperation, and ERRAC's continuous collaboration with Shift2Rail. To read the full interview click [here](#).

Shift2Rail Call for Proposals 2018 participation results

Europe's Railway Research and Innovation performers prove strong interest in deepening their collaboration as the 2018 Shift2Rail Call for Proposals prompts requests for projects worth €185.4 million.

In answer to its 2018 Call for Proposals, the Shift2Rail Joint Undertaking received 39 proposals for a total value of €185.4 million and a funding request of €108.2 million (almost 40% more compared to the available funding). 32 proposals were submitted as Open Calls, with a request for funding nearly three times the available Budget; out of 238 Open Calls' participants, 27% are SMEs.

Read the full press release [here](#).

The Future of Rail Research & Innovation Dialogue, 19 June - Brussels, Belgium

The Shift2Rail Joint Undertaking (S2R JU) is organising [a dialogue on the 'Future of Rail Research and Innovation'](#) on 19 June, from 9:00 to 14:00, at [Square Brussels Convention Centre](#).

The event aims to address policy and industry expectations in view of the next EU Research and Innovation Framework Programme. The conference will be an ideal platform to bring together the railway stakeholders, and to invite them to present and discuss their different views on the future of rail research and innovation, also

adding their contribution to a renewed strategic research and innovation agenda.

Registration is mandatory and is available through this [link](#).

Please find the preliminary agenda [here](#).



Apply now for the Shift2Rail Research and Innovation Awards

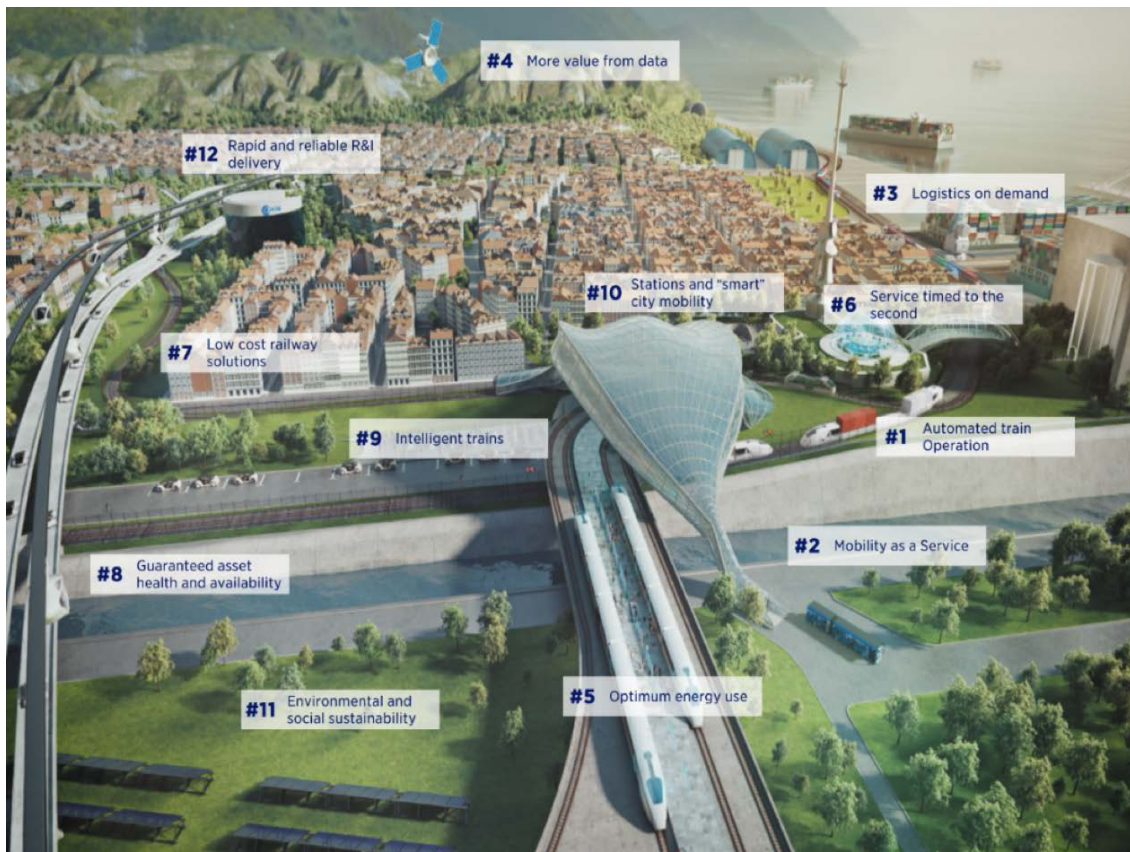
Shift2Rail would like to acknowledge the commitment and progress accomplished by the teams working across Europe to deliver the S2R [Research & Innovation Programme](#), creating innovative solutions for the railway systems of the future. To this end, Shift2Rail launched the “Rail Research & Innovation Awards” on 16th April at the Transport Research Arena (TRA) conference.

Applications are open for the following three awards:

- The Decarbonisation Award, to acknowledge the project expected to deliver the most energy efficient solutions.
- The Digitalisation Award, to reward the project showing the most innovative expected results utilising breakthrough technologies.
- The Project Management Award, to honour the best-organised project, showing the capacity to adapt to evolving technologies.

If you wish to nominate a project or present your project for the Awards, please fill in this [application form](#) and send the required documents to Projectaward2018@s2r.europa.eu. Should you wish to apply for more than one category please make sure to apply for each award separately. For more information, please click [here](#).

Deadline for applications is 30th June.



A window to the future of railways: Shift2Rail presents its innovation capabilities interactive map

Shift2Rail created an interactive 3D map to illustrate how the next generation railway technologies will completely transform our travel experience in the future. The tool shows how the 12 innovation capabilities that Shift2Rail projects are working to deliver will meet Europe's evolving mobility needs.

The 3D map offers a vision of the transport systems of the future, featuring a fully digitalised railway system with trains running closer together and communicating via wireless connection as well as offering solutions for seamless transitions between different transport modes. It has been presented to Commissioner for Mobility and Transport, Violeta Bulc during the TRA conference.

[Discover the web version of the S2R 3D interactive map](#)



TRA - Shift2Rail presents its vision for the railway systems of the future to more than 3,500 professionals

Shift2Rail brought railway transport mode to a prominent spot at the Transport Research Arena (TRA) Conference, which took place on 16-19 April 2018 in Vienna, Austria. Seizing yet another opportunity to show its progress towards delivering the European railway systems of the future, the Shift2Rail JU presented an impressive stand at the Transport Research Arena Conference in Vienna to a crowd of 3,500 professionals.

For the full report and pictures, please visit the [Shift2Rail website](#).



Ten-T Days - Major political support for European digital, multi-modal and cross-border transport

Shift2Rail took part in the Ten-T Days, held on 25-27 April in Ljubljana, Slovenia. Political support for multi-modal transport and the improvement of cross-border connections were the highlights in the agenda.

The Ten-T Days event demonstrated the high level of political support for multimodality acknowledging its importance as a key driver of change in the European mobility system. Shift2Rail, with a stand at the entrance of the main conference hall, had also a unique opportunity to meet start-ups, to connect with other modes of transport, to share views on multi-modality, and to create opportunities for participation to the S2R Innovation Programme.

The full report on the Ten-T Days is available [here](#)

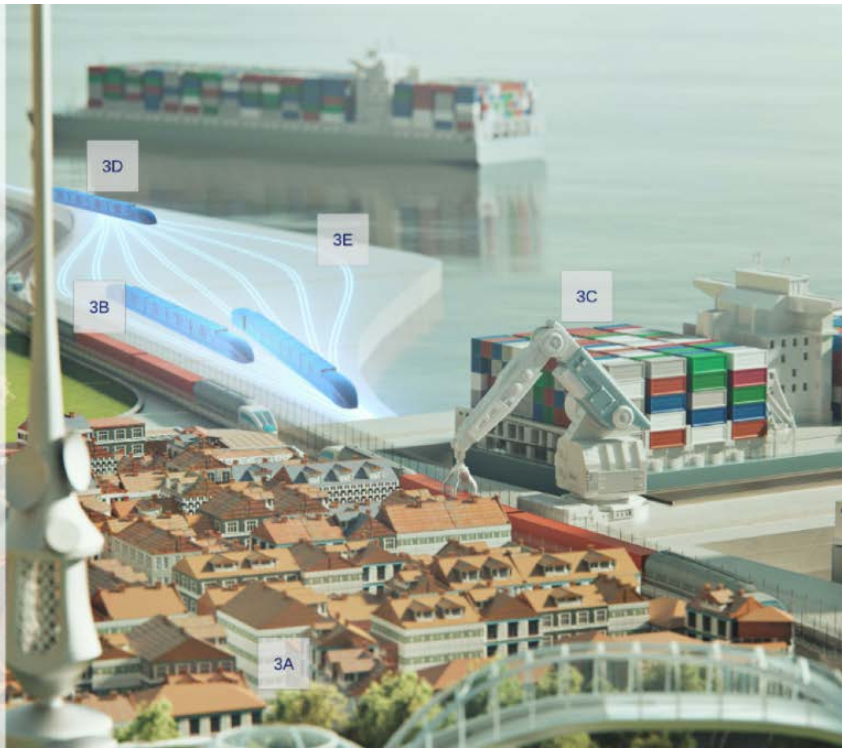
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Logistics on demand

Logistics services are driven by customer demand, with freight moved reliably in flexible units designed to carry various loads. Better planning, tracking and shipment information capabilities combine to offer customers flexibility and capacity at reasonable, attractive prices. The rail system is fully integrated with the multimodal logistic chain.

- 3A** Planning and scheduling are synchronised in realtime to customer demand.
- 3B** Flexible, interchangeable, multipurpose, and smart freight transport units increase handling flexibility and unit utilisation.
- 3C** Shipments are moved effectively, efficiently, safely, and securely throughout the "physical internet" logistic chain.
- 3D** Freight trains are able to integrate within highintensity passenger operations.
- 3E** Automated yards, intermodal hubs, ports, and crossmodal interchange locations connect the rail system into the multimodal logistic chain.



Innovation capability in the spotlight: 'Logistics on Demand'

Enhanced real-time tracking and control of the goods is deemed crucial for freight competitiveness as digitalisation and automation become ever more central to European economy. In this context, Shift2Rail is determined to deliver 'logistics on demand' as a capability for the railway systems, enhancing the services Europeans currently enjoy: improving rail freight flexibility and responsiveness to clients' demand.

Today, only 18.3% of goods travelling inland across Europe do it over rail tracks, despite the unique features of freight rail: offering a cost-effective, attractive service to shippers that helps to take freight away from the congested road network and contributing to reducing traffic jams and CO₂ emissions.

Learn more about the work of Shift2Rail to deliver 'logistics on demand' [here](#).



Shift2Rail Lighthouse Projects' results set the ground for faster, more reliable and cost-

efficient railway systems

As global mobility demands rise, the railway sector faces the challenge of making trains a more attractive option for passenger and freight transport. This involves developing new and innovative ideas to create a more efficient, reliable and customer-centred service.

In 2015 during the ramp-up phase of Shift2Rail, the S2R 'lighthouse' projects (Roll2Rail, In2Rail, IT2Rail, Smart-Rail) received investments worth €52 million to make considerable advances towards achieving the Single European Railway Area (SERA) and to set the ground for the Innovation Programmes at the heart of Shift2Rail.

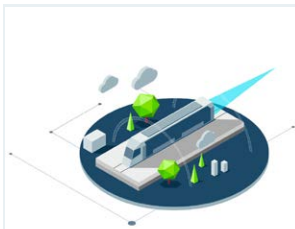
The 'Lighthouse' projects presented their most promising achievements and final results on 19th April 2018 at a joint conference in Vienna. A detailed report on their most promising achievements is available [here](#)



All Shift2Rail participants on one map

Shift2Rail brings together different stakeholders from the railway sector, such as rail equipment manufacturers, infrastructure managers, railway undertakings, SMEs, Research Centres, and Universities for them to collaborate, coordinate innovation efforts, and exchange expertise. Thanks to the recently developed map, you can now see the location of all the 343 entities from 27 European countries participating in the initiative working together to move the rail eco-system forward.

Curious to see who participates in the S2R initiative from your country? Then [click here and explore the map](#).



Shift2Rail JU updates/key events:

- The call for applications for the **Shift2Rail Women in Rail Research & Innovation Award** closed on 15 May prompting in total 16 nominations for individual women and 2 nominations for departments from companies and institutions all across Europe. On Women's Day 2018 Shift2Rail launched the award to counteract the persisting gender imbalance and to honour women contributing significantly to driving research and innovation in the railway sector forward. An eminent jury panel, including among many Head of Cabinet of Commissioner Bulc Matej Zakonjsek and MEP Karima Delli, will select the winner of the award, which will be bestowed in September 2018 at InnoTrans by Commissioner Violeta Bulc.
- On 20 April 2018, the [ATTRACKTIVE](#) and [Co-Active IP4](#) projects held a **mid-term conference in Vienna**. The projects presented a live demo based on the first results of their project aimed at building a

one-stop-shop to book tickets for multi-modal journeys. >

- **Steering Committees for the five Shift2Rail Innovation Programmes (IPs) and Cross-Cutting Activities (CCA) met in Brussels last March.** About a hundred representatives from European companies and research organisations participated in the six Steering Committee meetings held on 20-22 March at the Shift2Rail premises.
- **Vacancies at Shift2Rail: The JU is currently looking for a Communication Officer.** Deadline for applications is 20/06/2018, 17h00 Brussels Time. For more information, please click [here](#).



Upcoming events

- 21-25 May:** European Green Week
- 22 May:** Euro Brake 2018 – The Hague, Netherlands
- 5 June:** “EU support for developing rail transport in Croatia: current opportunities and future perspectives” – Zagreb, Croatia
- 12-14 June:** Transports Publics 2018 – Paris, France
- 19 June:** [The Future of Rail Research and Innovation Dialogue – Brussels, Belgium](#)
- 19 June:** The Future of Transportation World Conference – Cologne, Germany
- 27 June:** [6th Edition Global Rail Freight Conference](#) – Genoa, Italy
- 28 June:** 7th Meeting of the Shift2Rail JU Governing Board
- 18-21 September:** InnoTrans 2018 – Berlin, Germany
- 26 September:** CONNECTA and Safe4Rail Joint Final Conference
- 16 October:** [Connected Transport Summit 2018](#)

Shift2Rail in the news

- [“Run2Rail: bringing 3D printing to rail design”](#) – **Railway Technology**
- [“Automatic Train Operation takes to the main line”](#) – **International Railway Journal**
- [“Hololei - rail must show it is worthy of further EU investment”](#) – **International Railway Journal**
- [“Cybersecurity: guarding rail against evolving threats”](#) – **International Railway Journal**
- [“Explosive clad welding - coming to rail now”](#) – **Rail Engineer**
- [“Mobility, with “Connective” tickets simpler in Europe”](#) (in Italian) – **First Online**
- [“InnoTrans 2018: Associations Present the Combined Strengths of their Countries’ Rail Industries”](#) – **Mass Transit**
- [“Call for proposals from the Shift2 Rail Consortium”](#) (in Greek) – **Aftodioikisi**
- [“UNIFE prepares InnoTrans 2018 speaking programme”](#) – **Railway Gazette**
- [“Conference of the Spanish Railway Platform”](#) (in Spanish) – **Vía Libre**
- [“Connective project creates an Interoperability Framework for the future European transport platform”](#) (in Spanish) – **eSmartCity.es**>

- [Carlo Borghini interview at Middle-East Rail event](#)
- [European railway – Between regulation and innovation](#) **Austrian Roadmap 2050**
- [Shift2Rail Presents Ideas at the Transport Research Arena and Ten-T Days](#) – **Railway News**

