Roland Edel, CTO Mobility Division at Siemens: Collaboration fosters competitiveness

Reducing CO_2 emissions in the European Union by 80 percent until 2050 – this is one of the ambitious goals of the European Commission. How to reach that if not with railway as a backbone of transport? Clearly, rail has the lowest share of EU transport CO_2 emissions with only 1.5 percent. That is why we have to invest in its future development, and that is why I strongly support the approach to combine European research activities, as we have been doing in the Shift2Rail Joint Undertaking in the last four years. In a globalised world, transportation does not stop at national borders — neither can key technologies for a railway system be advanced nationally or by single companies.
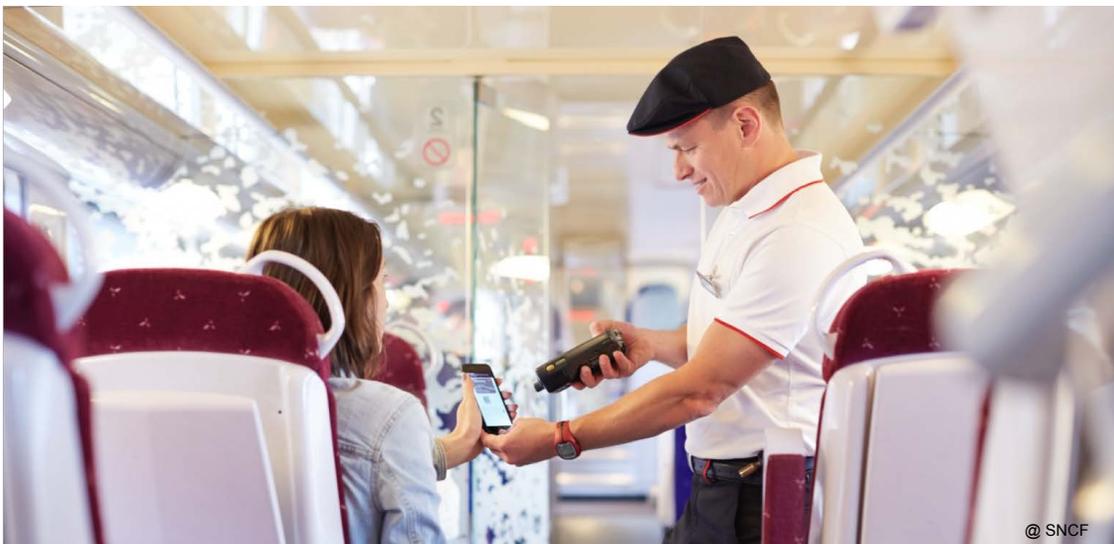
Read more

@ SNCF

Rail stakeholders show strong support for Shift2Rail

The Shift2Rail Dialogue on the Future of Research & Innovation, held on 19 June 2018 in Brussels, was an ideal platform for railway stakeholders to address policy and industry expectations. Participants expressed their strong support for the continuation of rail research and innovation within the Shift2Rail Joint Undertaking during the next EU programming period 2021-27.

Read more in our official report.

IN THE SPOTLIGHT: Mobility as a Service (Maas)

@ SNCF

Mobility as a Service: The Shift2Rail concept for one ecosystem to book them all

Shift2Rail is contributing to the development of transportation as a service, also known as **'Mobility as a Service'**, a new concept of mobility: A shift from a piecemeal 'individual transport modes' approach towards a world of 'solutions' provided and consumed as a service.

The ecosystem Shift2Rail is building will be an absolute revolution for intermodal transport. Passengers will be able to book from their devices, and with a single click, multimodal trips for both short and long distance trips across Europe. No more need to enter four or five different reservation systems every time we book a trip.

Read more

@ Victor Cap - Mostphotos

Developing the S2R IP4 technology demonstrators "Travel Shopping" and "Booking and Ticketing": One click away from anywhere in Europe

Without a doubt, the future holds a drastic transformation of how we move. Automation and digitalisation have a profound impact on mobility and shift personal experience of public and private transport in a new direction.

Alongside other Shift2Rail projects part of the Innovation Programme 4 (IP4), Co-Active is working towards creating the opportunity for passengers to book door-to-door journeys from any place in Europe involving traditional as well as new transport modes in a one-stop shop. This would mean that complicated booking and paying processes are relics of the past.

Read more

ANNUAL ACTIVITY REPORT 2017

Shift2Rail publishes its Annual Activity Report 2017

Find out more about the 2017 R&I activities of Shift2Rail in the Annual Activity Report 2017 (AAR 2017), which includes a summary of the results delivered in 2017 under a cost efficient and reliable management and control system.

The AAR 2017 reports on the progress achieved in each Shift2Rail Technology Demonstrator (TD), showing how the Shift2Rail Members and third parties are delivering them organised in integrated Projects.

The S2R Governing Board approved the AAR 2017 during its last meeting on 29 June 2018. To learn more on the status of the Shift2Rail JU Research and Innovation Programme, access the Annual Activity Report 2017 here.

Rail Research & Innovation Award
Deadline for application : 31 July

Last days to apply for the Shift2Rail Research & Innovation Awards!

Due to high interest, the period to apply for the Shift2Rail R&I Award has been extended until 31 July. You can nominate your own Shift2Rail Project or propose as candidate another Project you consider best-in-class.

The awards aim to acknowledge the commitment and progress accomplished by the teams working in Europe and beyond to deliver the S2R Research & Innovation Programme, creating innovative solutions to deliver a drastic transformation of the European railway systems.

Find more information here.

Shift2Rail JU updates/key events:

Shift2Rail is presenting its first quick-wins at InnoTrans

Together with its Members, Shift2Rail is showcasing more than 20 cutting-edge solutions for a ground-breaking transformation of railway systems at InnoTrans in Berlin from 18-21 September. Less than two years after the start of the Joint Undertaking's activities, the JU presents live demos, showing its initial results: the transformation of railway systems is on its way!

Interested in virtual coupling, moving block over ETCS for mainline, intelligent freight terminals and video gates, obstacle detection devices, high-speed tamping processes, experiencing Virtual Reality noise measurements, and many more? All you need to know is our location and the agenda: Stand 203, Hall 4.2, agenda.

EU Commissioner for Mobility and Transport Violeta Bulc has already confirmed her attendance to see how the Union's investment has translated into results for passengers and freight business.

Technologies for Sustainable & Attractive European Rail Freight: moving the freight rail industry forward (Dynafreight Project, within S2R IP5)

How can we increase the capacity of freight trains while at the same time improving their performance? The Shift2Rail IP5 project Dynafreight presented its results on 27 June in Brussels. The project has paved the way for the regular operation of long trains and the creation of the next generation of bogies of freight locomotives.

Click here to learn more

Upcoming events

17-21 September: ITS World Congress – Copenhagen, Denmark
18-21 September: InnoTrans 2018 – Berlin, Germany
19-21 September: International Conference on Urban Transport and the Environment – Seville, Spain
26 September: CONNECTA and Safe4Rail Joint Final Conference – Paris, France
16 October: Connected Transport Summit 2018 – Brussels, Belgium
29-31 October: Smart Metro Congress – Paris, France

Shift2Rail in the news

- Shift2Rail was prominently featured in the May special issue on railways of the **research*eu** magazine. Download the whole issue in PDF here. It is also possible to order a free hard copy here.
  Shift2Rail references can be found on the following pages:
    - Editorial: How the rail sector wants to be future proof and how it might just do it (page 2)
    - Safe4Rail puts convergence at the heart of the next-generation TCMS (p. 7)
    - Project puts rail communication networks on right track (on Mistral, p. 8)
    - The recipe for a freight shift from road to rail (on Smart-Rail, p. 9)
- Shift2Rail has been largely featured in the **SNCF magazine Avancées,** with a two-page story. Avancées praises Shift2Rail's progress accomplished so far: "Enormous progress has been made since the creation of the Shift2Rail Joint Undertaking in 2014". Read the full story here.
- Video interview with S2R Executive Director Carlo Borghini – **Middle East Rail**
- Interview Spotlight: Jochen Holzfeind, CTO, voestalpine – **Global Railway Review,** June 2018 issue (p. 56)
- Designing rolling stock of the future with new materials and smart designs (focus on Mat4Rail project) – **Global Railway Review,** June 2018 issue (p. 22)
- Run2Rail: New Ideas and concepts for the next generation

- of running gear – **Global Railway Review,** July 2018 issue (p. 23)
- Rail transport in the digital age, MaaS, – **Global Railway Review,** July 2018 issue (p. 41)
- S-CODE: Transforming the performance of track switches – **Global Railway Review,** July 2018 issue (p. 56)
- Shift2Rail presents ideas at the Transport Research Arena and Ten-T Days – **Railway-News**
- Protecting railway networks from cyber threats – **Railways Africa (behind paywall)**
- Škrlec: The ultimate moment for strategic decision to accelerate investment in Croatian Railways (in Croatian) **– Direktno**
- ERRAC, the technological platform for the railway sector in Europe, appoints a new management team (in Italian)– **Ferpress**
- Features on Fair Stations and InnoWag Shift2Rail projects – **Future Mobility** (Newcastle University newsletter)