Minutes of Meeting – 11th meeting of the Scientific Committee of Shift2Rail

Shift2Rail Scientific Committee

Project:	SC	Date/Time:	13 March 2019 09:45-12:00
Meeting Type:	Scientific Committee	Location:	S2R JU premises, Brussels
Meeting Coordinator:	Valerie Lorgé	Issue Date:	

Summary of the Meeting	
Topic	
Item 1	**Opening and Introduction by the Chairperson, welcome from the S2R JU Executive Director** The SC Chairperson and the S2R JU Executive Director welcomed the participants to the 11th meeting of the Scientific Committee (SC)
Item 2	**Approval of the meeting Agenda and previous MoM** The agenda of the meeting was approved. The minutes of the previous meeting were approved, with no request for additional changes.
Item 3	**Conflict of Interest: declarations** The declarations for Conflict of Interest (CoI) were available in the meeting room, including Annex 2 on the annual declaration on conflict of interests of the S2R JU Governing Board Decision n°07/2018 should there be a change from the situation mentioned in 2018. It was agreed the electronic version would also be sent to the SC members. The members of the SC signed the declarations and handed them in to the Secretariat.
Item 4	**State of play – information from the SHIFT2RAIL JU** **Latest developments and ongoing activities** *Please refer to the PowerPoint presentation* The Executive Director indicated that the S2R JU 2019 call was launched with a deadline of 18th June 2019, in order to include the work on RCA and create a sufficient buffer to reduce uncertainty from the Brexit date of end of March 2019. This will be the penultimate call. The last call is scheduled for 2020. The Executive Director presented the main items on the agenda of the GB meeting of 4th December, with a focus on the S2R JU ANNUAL WORK PLAN 2019, in particular: - Status of the discussions on RCA (Reference "Command Control and Signalling" Architecture)

- Re-planning of the activities 2019 and 2020
- MAAP Part B final work
- Standardization roadmap
- S2R JU KPI model

Regarding reference command control and signalling architecture, the aim is to have a more cost efficient, effective and sustainable functioning of the railway system. Infrastructure managers starting with SBB are currently looking into scalable, modular systems which would be more permeable to innovation (smart rail 4.0). This followed the work of EULINX of DB, SBB, NR and others which focused on two areas specifically; interlocking and RBC. This may have influences on IP2 as the design of moving blocks, positioning and new telco may be impacted by the overall evolution of signalling, RBC and interlocking design. The idea will be to have the components combined together between different manufacturers with key design interfaces. Key modules will change the current way of working, as clients may decide to buy components or turn-key systems. The question of certification remains open.

As a consequence, **it was decided to include RCA as a key component in the Annual Work Plan 2019**. Discussions on RCA may also help accelerate positioning, telecom, and a hybrid level 3. The Executive Director indicated that a new IPX was included in the AWP2019 to bring together all membership and ERA.

Furthermore, a prior information notice for the tender on Expertise in Railway Operations was published (https://ted.europa.eu/TED/notice/udl?uri=TED:NOTICE:89192-2019:TEXT:EN:HTML). The S2R JU would like to avail itself with expert knowledge from Railway Undertakings, Regional/Urban Operators and, where relevant, Infrastructure Managers, in order to establish a holistic railway system architecture, covering the different aspects of rail operations, technologies and components, under the policy driving of the Commission. This knowledge will be brought together with other railway stakeholders involved in the S2R Programme to establish a first release of the architecture by mid 2020 with possibly some intermediary steps. In addition, the JU would like to avail itself with expertise in matters related to the human capital in railway, through the involvement of experts representing European railway staff associations. In the same manner, in view of the S2R JU innovative solutions, the JU would like to benefit from experts representing the European passengers' perspective. The aim of the tender is therefore to include railway operators that are not members of the S2R JU. The Executive Director indicated that SC members were also invited to participate.

The Executive Director concluded by stating that the objective is to take all contributions to **draw up an overall systems architecture in a digital manner focusing on the functionalities, addressing R&I, and combined with business cases.**

Professor Lacôte asked if ERTMS would be suppressed. The Executive Director answered that this was not the intention and on the contrary ERTMS is the baseline for the game changers and all other evolutions for interoperability. Professor Sanz Bobi commented that ERTMS levels 1 and 2 gave variable results, and that the interlocking problem is one of decision-making from the industry, and the bottleneck lies at the communication level.

The MAAP Part B draft version will be presented at the GB meeting of 25th of March. An updated version of the standardisations roadmap is ready. Moreover, the first version of the KPI model was attached to the AWP 2019.

Professor Nash asked if the SC members were invited to comment on the MAAP Part B. The Executive Director stated they were indeed invited to comment. A stable text will be presented at

the GB of 25th of March and the final text will be released afterwards for presentation to the GB of June or November. The consultation process will be open.

The Executive Director then provided an overview of the activities planned in 2019:

Jan – Feb 2019
  » **15 Jan 2019**: publication of the **Call 2019**
  » 6 February S2R Info-Day
  » Draft AWP2020 preparation
  » Contribution to the discussions on S2R 2
  » **13 reviews/checks**: *2 Lighthouses +2 OC 2017 +6 OC 2015-2016 +3 CFM 2015-2016 Projects*

Mar – Apr 2019
  » **25 Mar 2019 GB**
  » Control gates projects 2015-2017
  » 18 reviews/checks: *10 CFM 2015-2016 +7 CFM 2017 +1 OC 2015-2016 Projects*
  » IPs SteeCos

May – Jun 2019
  » **18 June 2019: Deadline Call 2019**
  » **24 June 2019: GB**
  » First draft AWP2020
  » 1 review of *OC 2017 Project*

Jul – Aug 2019
  » **22 Jul 2019   Consensus week Call 2019**
  » 2 reviews/checks of *OC 2015-2016 Projects*

Sep – Dec 2019
  » **4 Sep 2019: extraordinary GB award of Call 2019**
  » Launch GAP 2019
  » **14 Nov 2019 GB** (AWP 2020, future railway R&I after 2020 …)
  » 11 reviews/checks: *3 OC 2015-2016 +8 OC 2017 Projects*

The Executive Director concluded by stating that input from SC members to the AWP2020 would be useful, and that calls can be scheduled between the SC and the IPs to exchange on content. He highlighted that the AWP2020 focus will be on high TRL levels and act as a bridge between S2R and S2R2.

Mr Robert Liskounig, SNE at the S2R JU, presented the work of the **infrastructure test facilities** working group (please refer to the PowerPoint presentation), including the development and next steps for S2R's position paper on European railway R&I testing facilities. The detailed feedback of ERA to the second draft was highly appreciated by the JU. Based on the relaunch of the survey of testing facilities in Europe, the JU will start to work on a testing facility inventory to provide robust and easily available information to the sector. During the discussion RL clarified that manufacturers and industry members have already well established relations to testing facilities. A publicly available inventory of testing facilities will foster opportunities for SMEs and start-ups to gain access to testing facilities more easily. Geographic fragmentation of testing could be also minimized by this approach. **The SC was invited to provide input to the position paper.**

| Item 5 | **Operationalization of new RoP** |
| | Mrs Valerie Lorgé presented the new Rules of Procedure of the Scientific Committee. The rules of procedure of the Scientific Committee were amended to allow SC members to be contracted as individual experts by the S2R JU for the review of S2R projects, whilst ensuring their independence |

and impartiality and the absence of conflict of interest. Following the approval at the 18th Governing Board meeting of the amendment to the SC Rules of Procedure, a consolidated version was published on the S2R JU website, along with the Executive Director Decision ED-18-14 of December 2018 "Request for Amendment to the Rules of Procedure of the Shift2Rail Joint Undertaking Scientific Committee". The amended provisions are the following: Article 6, Article 11, Annexes 1 to 3.

The Executive Director suggested that in 2019 focus should be placed on filling in the vacant seats, and then applying the rotational mechanism of one third as of 2020. The rotation mechanism should not result in a SC membership reduced, but on the contrary to ensure adequate phase in and out. So **before the rotation the de facto overall number of the SC members may increase to 16 in the case of the full implementation of 1/3 approach to rotation. In order to fill the two vacant positions, the profiles from the reserve list will be shared with the SC members under confidentiality restrictions**, indicating which profiles are the most interesting in light of the current composition of the SC. **A written procedure to the SC will then be launched in order to put forward 2 names for GB approval at the GB of June 2019. A new call for expression of interest would be launched after, and the rotational mechanism will apply as of 2020.**

Furthermore, SC members should indicate whether they want to engage as experts in the review of projects. For this, they should register in the H2020 database; they will then be contracted for a determined number of days per year. **Deadline end of April 2019**

Professor Söylemez underlined that the rotational mechanism, whilst ensuring wider Involvement and openness, could also undermine historical continuity of knowledge. It was agreed in this respect that the role of the SC Chairperson will also be to ensure this continuity throughout the different rotations.

Item 6	**SC Chairperson presentation of SC activities at GB meeting of 25th March 2019** The SC Chairperson indicated she was invited to present the work of the SC at the GB meeting of 25th March. Professor di Febbraro will present the work accomplished so far by the SC, how the new rules of procedure will be operationalized, the interfaces with the different IPs, how the IPs take the SC comments into account in the design of projects, the composition of the SC in terms of expertise and the commitment to find new members representing different expertise.
Item 7	**Discussion and initial comments on the AAR 2018** The final draft will be submitted in the first half of May 2019 – when the Final Annual Accounts from the Commission Accounting Officer and the results of the ongoing audits of the European Court of Auditors and the External Auditor are available**.** The Executive Summary provides the initial assessment of the status of the Programme and will be further elaborated considering the first two items here above. The SC members highlighted that they found the AAR 2018 to be a very useful document. **The Executive Director invited them to send their consolidated comments by <u>end of April</u> – mid May 2019 so that the final version can be sent to the GB by 25th May 2019.**
Item 8	**Preliminary draft budget 2020 – discussion and feedback** The Executive Director indicated that the preliminary draft budget 2020 and the AWP 2020 were shared with the SC members for information in January 2019. It includes an estimate of the S2R JU revenue and expenditure and the general guidelines underlying these estimates. This is the first

	step towards the preparation of the AWP2020 that is expected to be adopted by the Governing Board on 14th November 2019. The IPs will prepare a more detailed version of the AWP and the **draft AWP 2020 will then be submitted to the SC for their advice with** <u>first input end of April 2019 – **final input end of July 2019.** **Comments on the topics are welcome already at this stage from SC members.**</u>
Item 9	**Future Events** • Participation to **WCRR** and papers submitted: The Executive Director indicated S2R will have a sizeable stand at the WCRR in Tokyo and invited **the SC members to signal whether they want to be present on the S2R stand**. Professor Sanz Bobi indicated that he has submitted an article. • DG RTD will organize R&I days in Brussels with a S2R JU Session. SC members may be invited to participate. • Participation to **TRA 2020** and availability for papers revision: **should SC members be available for papers' revision, they should contact Sebastien Stichel.** • Organization of a new Dialogue on future rail research and innovation in Pardubice with the EU-13 Member States on 11th April. • Organization of a new Dialogue on future rail research and innovation in Poland or in Fnland • ERA conference on ERTMS on 15-17 October 2019 in Valenciennes
Item 10	**AOB and conclusions** **Next meeting:** The next S2R SC meeting will be held on **23 October 2019** in Brussels.

Annex

Agenda 11th meeting SC (adopted)

Action nr.	Action	Related Topic	Due date	Action Owner
1	Provide S2R JU Governing Board Decision n°07/2018	Item 3	Done after meeting	JU
2	Provide link to H2020 expert register	Item 5	Done after meeting	JU
3	Share profiles from the reserve list with the SC members under confidentiality restrictions, indicating which profiles are the most interesting in light of the current composition of the SC.	Item 5	ASAP	JU
4	Registration in H2020: SC members should indicate whether they want to engage as experts in the review of projects. For this, they should register in the H2020 database.	Item 5	End of April	SC members
5	launch a written procedure to the SC in order to put forward 2 names for GB approval at the GB of June 2019	Item 5	Before June	JU
6	Share SC Chairperson GB presentation	Item 6	After GB of 25th March	SC Chairperson
7	Send SC consolidated comments on AAR 2018	Item 7	End April – mid May	SC members
8	Send SC consolidated comments on draft AWP 2020	Item 8	End of July	SC members