

## Fifth meeting of the Scientific Committee of Shift2Rail JU

14 December 2016  
 White Atrium building, S2R JU premises, 2<sup>nd</sup> floor  
 10:00-14:30

### List of participants

Event title:	5th meeting of the S2R Scientific Committee		
Date:	14/12/2016	Starting time:	10h00-14h30
Meeting room:	S2R meeting room on 2nd floor		
Name	Surname		Signature
DI FEBBRARO	Angela		
IWNICKI	Simon		
LACÔTE	François		
MOLKOVA	Tatiana		
NASH	Chris		
PICRIGUD	Jana		
PYRGIDIS	Christos		
SALANDER	Corinna		
SANZ BOBI	Juan de Dios		
SÖYLEMEZ	Mehmet Turan		
STICHEL	Sebastian		
BORGHINI	Carlo	S2R	
TRAVAINI	Giorgio	S2R	
BERTO	Alessandra	S2R	
BIRD	William	EC	
PEREIRA-COUTINHO	Teresa	EC	
KEDEIERSKI	Antonia	EC	
DEFOSSER	Ankine	ERA	

## **Draft minutes**

### **1. INTRODUCTION – ROUNDTABLE**

*Welcome by the Chairperson*

The *Chairperson*, Mr Stichel, welcomed the participants at the fifth meeting of the Scientific Committee (SC).

A roundtable of presentations follows.

### **2. APPROVAL OF THE MEETING AGENDA AND PREVIOUS MoM**

No comments were received on the minutes of the previous meeting and these were approved.

The required quorum for the meeting was reached, with all SC members present.

Mr. Borghini introduced the main points of the meeting, being the discussion on the MAAP, the AWP 2018 but also to provide to the Committee an update on the state of play of the S2R JU, share the calendar of the forthcoming activities and clarify the role of the SC for the future.

The SC members agreed on the draft agenda, as circulated on 25th November 2016 (Annex I) without comments. A list of participants is attached (Annex II).

### **3. CONFLICT OF INTEREST: DECLARATIONS**

Mr. Borghini explained that the entire process related to Col declarations, comprehending the creation of the register of declaration of Col by SC members and the JU staff, is being reviewed and it is expected to be presented to the Governing Board in March, 2017.

The declarations for Conflict of Interest (Col) were circulated and signed.

The SC members will provide all points which may raise potential conflicts, in view of the establishment of the register and subject to the provision on data protection, to Ms. Berto via email in a PDF letter or any other form considered appropriate.

### **4. STATE OF PLAY - INFORMATION FROM THE SHIFT2RAIL JU**

*Latest developments, ongoing activities followed by an exchange of views*

Mr. Borghini presented the latest developments related to the S2R activities detailed in the annexed slides (Annex III), focusing on the following points.

The Annual Work Plan (AWP) 2017 has been published and the submission date for proposal will open on January 10, 2017.

The Multi Annual Action Plan (MAAP) is under update, with the objective of having a first draft to present to the GB on March 2017, then the process for the approval will start.

Mr. Borghini underlined the importance of AWP 2018, the possibility of the OCs to explore 'blue-sky' research which may pave the basis for 'S2R 2.0'.

After a question raised by Mr. Iwnicki, he explained there is no planning yet for a 'S2R 2.0' and that in any case everything will depend on the EU Multiannual Financial Framework which is expected to be presented, in its high-level proposals, by the Commission to the EP and Council by the end of 2017. Mr. Kedzierski specified that the interim evaluation of S2R will provide elements for the evaluation supporting the decision.

Mr. Borghini presented two major events taking place in 2018, Innotrans and TRA (Transport Research Arena) and the opportunity to show to the public the first demonstrators .

Responding to a question from Mr. Lacote, Mr. Borghini explained that this idea will be discussed this afternoon at the System Integration Working Group and pointed out that ideas from SC will be welcomed.

Mr. Kedzierski commented on the complementarity of events, TRA being research oriented while Innotrans a fair, which gives possibility to provide a complete business case. Mr. Travaini presented the update on the tenders: the one on long-term needs & socio-economic research had the contract awarded on 24 November 2016 to a consortium consisting of Panteia, Abirail CZ and University of Newcastle upon Tyne; he explained that the other on human capital is not awarded yet.

As for the multi project cooperation tool, a contract with CNC will be signed soon.

Mr. Travaini presented:

- the concept of hosting the projects fiche in the S2R websites with the explanation on what the project is about, entities involved, etc; the project fiches are expected to be published on S2R website by the first week of Jan 2017;
- an update on the staffing situation (budget approved and 21 resources totally foreseen in few months),
- the recent platform RASCOP to harmonise the approach on European rail standardisation,
- that a meeting is foreseen in February, 2017 with Fuel Cells & Hydrogen JU to identify common paths and create synergies in calls where possible. In addition, the JU foresees also to contact the Cybersecurity PPP for similar synergies related to cybersecurity.

## **5. UPDATE ON THE STATUS OF THE MULTI ANNUAL ACTION PLAN (MAAP)**

Please find the presentations enclosed (Annex II, III)

Mr. Travaini presented the update on the new Part A of the MAAP which is being performed with the support of Prof. Palacin.

Mr. Travaini provided the status of the update of Part B of the MAAP performed with the help of the IP/CCA coordinators.

SC members will be asked to provide their input, in particular for the Part A, after receiving the first draft materials in Q1 2017.

Mr. Iwnicki welcomed the harmonisation of TRL for the Part B and asked the timeline of the MAAP finalisation. Mr. Travaini explained the process will need to be finalised before the end of 2017, for the moment the first step being to present an initial draft to the GB of March.

Mr. Stichel introduced the input from the Scientific Committee on the MAAP stating how the future of rail with a so long time horizon is difficult to predict and providing examples on how some innovations have been overestimated and not yet implemented. He asked guidance on what seems more relevant, how MAAP will be used in reality and how to provide inputs for 'S2R 2'.

Mr. Travaini explained that Part B won't be changed substantially, how inputs from SC and the new Part A will be influencing the MAAP.

Mr. Nash confirmed the difficulty of providing so long term vision and stressed the importance of business cases while no budget available for this update.

Ms. Salander asked to which extent the inputs are expected to be realistic or 'visionary' and Mr. Stichel stated that there are different speeds of innovations among aspects/sectors. Mr. Iwnicki suggested therefore to adopt a 'balanced' approach.

Mr. Bird underlines the importance of considering what is relevant to S2R and to define what is representative, ambitious and visionary for S2R 2.

Ms. Salander underlined the importance of the 'visionary' side to promote a disruptive development in rail.

Mr. Pyrigidis underlined the importance to optimise the overall system and define specific points (driverless and catenary systems or not; maximum speed limit across Europe) in order to improve this vision, while Mr. Iwnicki stated the need to go towards the strategies that can be realistically pursued by the industry.

Mr. Stichel and Mr. Nash agreed on business cases, the market uptake being related to what the market will need in decades and industry will implement.

Ms. Di Febbraro stressed the importance of a benchmark with other modes, the role of rail as the core of the interconnected European transport network which Europe seeks, its challenge to be more connected.

## **6. ROADMAP FOR THE AWP 2018**

Please find the presentation enclosed (Annex III)

Mr. Travaini presented the slides and explained that IPs/CCA, supported by the SIWG, are providing a high level input for the JU to develop a first draft of the AWP 2018, which will contain the budget request to the Union by end of January, then communicated to all members.

The SC Members agreed to provide by February a first input for the AWP2018 so that the JU can start to consider it, then a final contribution by the next SC meeting. SC should contribute to foster blue sky research subjects in particular.

Mr. Bird added that last year there wasn't enough time for SC to provide inputs as well and Mr. Travaini said that this year process and timeline are being improved starting to ask the SC to contribute already now.

After a comment from Mr. Iwinski, Mr. Kedzierski clarified how the choice of not having SC members working on the call topics specific development prevented risks of COI.

## **7. ANNUAL REVIEW FOR CFM 2015-2016**

Mr. Travaini presented the annexed slides, explaining that every CFM project reports to the JU annually. For OC instead the reporting periods is of 12 or 18 months have been set depending on the projects duration.

He presented the overall process and the way for SC members to collaborate, after a question from Mr. Stichel.

After a discussion initiated by Mr. Iwinski, the SC members agreed on the fact that this task should not be performed with the involvement of the SC as such, although single SC members may contact Mr. Travaini and express their personal interest.

## **8. CALENDAR OF THE SC AND S2R ACTIVITIES AND DISCUSSION ON SC INITIATIVES ON LONG TERM STRATEGY FOR RAIL RESEARCH**

Mr. Stichel underlined the importance of the point and reviewed the actions list from the previous meeting, then asked an update on the missing member of SC. Mr. Travaini confirmed that the selection process will be defined by the JU and communicated to the SC. The SC members highlighted the need to cover the current members' expertise with competences on Human Capital and new IT (artificial intelligence, robotics, cybersecurity, etc.), enlarging the competencies from other sectors/area.

The SC members also made the following modification to the previously set "expertise table":

- Pyrgidis adds to IP1, IP5 and CCA
- Soylemenez adds to IP2 and CCA

The updated table therefore resulted as follows:

Member/ IP-CCA	IP1	IP2	IP3	IP4	IP5	CCA
DI FEBBRARO				■	■	
IWNICKI	■		■			
LACÔTE		■				■
MOLKOVA				■	■	
NASH						■
PIERIEGUD				■	■	
PYRGIDIS	■		■		■	■
SALANDER	■					
SANZ BOBI		■	■		■	
SOYLEMEZ		■				■
STICHEL	■				■	

Mr. Stichel clarified that the SC is willing to provide long term strategy rather than details and formulations from specific proposals and it should focus on what has impacts on S2R research activities for the future.

Mr Travaini confirmed the interest of the JU on this long-term approach, where the SC has a clear role in supporting disruptive thinking.

Mr. Iwnick stressed the importance of developing a vision also through blue sky research and blue sky scenarios thinking.

Mr. Pyrgidis explained his view on a top down approach to calls and bottom up to check the successfulness of the whole process, passing through the components of the overall system and his focus on what is needed in order to optimise the overall system.

Mr. Stichel proposed to organise a telco for setting up the ‘long term vision’ document and Ms. Di Febbraro asked to share some documents in preparation.

## **9. CONCEPTS FOR: PRIZE FOR STUDENTS OR NEW TRA COMPETITION, INNOVATION DAYS**

Mr. Travaini presented the annexed slides on Transport Research Arena - TRA with a focus on Vision competition and the ongoing discussion with the EC.

Mr. Borghini confirmed the S2R budget of 15,000€ dedicated to prizes to be committed in 2017 for the award in 2018.

Ms. Di Febbraro explained the three prizes existing for rail.

Mr. Borghini encouraged the SC to promote the participation of students to submit papers to the call for papers to be opened soon focused on the topics relevant for S2R among the ones enumerated at slide 41, e.g. safety and freight rail.

Mr. Borghini also encouraged the participation of SC members as support to evaluate papers if the JU will be in the organisation of TRA 2018. The JU will provide the SC members an update as soon as this aspect is clarified with the EC and organiser.

Mr. Iwnick exposed his idea of having special issues/editions in journals to promote the research activity of S2R; it was welcomed by all participants. Mr. Iwnick should present a plan for publication drafting and approval.

## **10. AOB AND CONCLUSIONS**

*Presentation of the Members Area*

*Next steps and date of next meeting*

Mr. Borghini presented the Launch of the Public Consultation in the context of the Mid-Term Evaluation of the S2R JU, a key element of building S2R 2.0, and the (distinct) ongoing evaluation of H2020.

The Members Area section dedicated to the SC on Shift2Rail website was presented and the members confirmed it is working fine.

Mr. Stichel recalled the main points raised during the meeting, resumed below in the 'Actions List' table.

The next meeting has been fixed for **April 5, 2017**, starting at 10h00 and ending at 15h30 in Brussels at the JU premises.

## ACTION LIST

Responsible	Action	Deadline
SC Members/ Chairperson	Provide a first input on the AWP 2018 document (to be provided by the JU in January, 2017)	February, 2017
SC Members/ Chairperson	Provide the final contribution on the AWP 2018	Before next SC meeting in April, 2017
SC Members/ Chairperson	Provide inputs for MAAP part A and provide feedback to Tiger Team	February, 2017
SC Members/ Chairperson	Organise a telco for the preparation of a 'long term vision' document	January, 2017
SC Members	Promote participation of students to TRA 2018	Early 2017
SC Members	Promote the research activity of S2R through special issues/editions in journals related to scientific research	Provide updates before next SC meeting in April, 2017
SC individual members if interested	Communicate to Mr. Travaini the interest to the individual participation to the reviews of member's projects	January, 2017
SC Members/JU	Suggest candidates for SC	January, 2017

### Annexes:

1. Provisional Agenda 5th meeting SC (adopted) (Annex I)
2. 5th SC meeting presentation (Annex II)
3. MAAP Part A status (Annex III)