



Scientific Committee (SC)

Scientific Committee

- **Advisory body to the JU, composed of 12 Members (experts from academia, industry and regulatory bodies)**
- **Its purpose is to focus on the scientific and technical analysis of the Shift2Rail initiative from different perspectives:**
 - environmental impact,
 - technology and scientific forecast,
 - societal impact
 - economics.
- **Meets at least twice a year**

Tasks of the SC (1)

- **advise on the scientific and technological priorities to be addressed in the annual work plans;**
- **advise on the scientific and technological achievements described in the annual activity report;**
- **suggest possible areas of advanced research that could be subject to further developments;**
- **suggest possible synergies with national and international research and innovation activities in the rail technical domain**

Tasks of the SC (2)

- **Provide consistent and consolidated advice to the S2R JU Executive Director for the consideration of the Governing Board in written form, in particular on the programme progress of the S2R and other strategic issues such as:**
 - the global consistency of the Shift2Rail Initiative: schedule, critical milestones, interfaces, Interaction between the Innovation Programmes (IPs) and respectively with the cross cutting activities (CCA);
 - the status of the IPs with respect to the targets and the other H2020 targets (for S2R);
 - the updates of all targets, following possible evolution in the technological scenarios;
 - the innovative content of the Programmes and the situation of activities with respect to European and global state of the art;
 - the overall socio-economic and environmental outcome of the S2R Initiative.



SC/Vice-Chair message (1)

Railway system the oldest, but probably the most modern and promising of transport means :

- Environmentally friendly
- Low land consumption and high capacity
- Low energy and capable of every primary source

And still has a huge potential (environmentally friendly solutions, speed, economy, capacity) for innovation

The SC believes that promoting innovation is essential to maintain the competitiveness of:

- the European industry in the railway sector
- the railway mode against other (less sustainable) means of transportation

Shift2Rail will be a « booster » of innovation, and the scientific committee will play its role :

- Open doors from scientific and research bodies
- Create links between academic and industrial worlds
- Propose ideas and push « blue sky » topics
- Assess and comment research proposals

We are convinced that railway transportation is THE means of transportation of the 21st century and we are committed to make it happen



SC and S2R public events

Shift2Rail will be at the Transport Research Arena 2018 in Vienna: <http://www.smart-mobility.at/tra2018/>

...and together with the Scientific Committee we are investigating to promote a S2R Innovation price for student and PhDs with the most innovative and disruptive ideas for the a shift to rail!

More information to come at www.shift2rail.org

Conclusions

**SC key element of the S2R Governance
partnering S2R, its Members and
Programme Office, to deliver
defragmented Railway Research and
Innovation to achieve S2R Master Plan
results**

