Annual Work Plan 2018 topics and S2R Programme specificities

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S2R Joint Undertaking
The S2R Programme implementation
The S2R MAAP*

• is a collaborative long-term investment planning document, which now also contains an Executive View (Part A) providing the S2R vision and Capabilities
• translates strategic R&I priorities for the Railway sector – as per S2R Master Plan - into concrete R&I activities, milestones and deliverables
• contains the description of R&I activities worth an estimated value of about EUR 777 million
• is a living document (ongoing “maintenance” for Part B)
• enables the preparation of result-oriented Annual Work Plans and Calls for Proposals or Tenders
• grants awarded for the actions(Projects) should aim to implement part(s) of the MAAP

* multi-annual action plan
AWP 2018 S2R Programme specificities

<table>
<thead>
<tr>
<th>Million of EUR</th>
<th>Total</th>
<th>Members only</th>
<th>Open to non-Members</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value of the Call for Proposals R&amp;I</td>
<td>155.2</td>
<td>134.1</td>
<td>21.1</td>
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<td><strong>S2R Maximum Co-funding</strong></td>
<td>78.7</td>
<td>59.6</td>
<td>19.1</td>
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<td>In-Kind Contribution</td>
<td>76.5</td>
<td>74.5</td>
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<tr>
<td>No of topics</td>
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<td>7</td>
<td>11</td>
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<tr>
<td>Value of Call for tender R&amp;I</td>
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<td>2.3</td>
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<tr>
<td>No of topics</td>
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</tbody>
</table>
AWP 2018 S2R Programme specificities

How to read the topic acronyms

<table>
<thead>
<tr>
<th>Topic number – IP</th>
<th>Topic name (* indicative figures in EUR)</th>
<th>Action Type and expected Technical Readiness Level (TRL)</th>
<th>Maximum S2R co-funding (*)</th>
<th>Complementarity</th>
</tr>
</thead>
<tbody>
<tr>
<td>S2R-OC-IPX-01-2018</td>
<td>Paradigm shifts for railway</td>
<td>RIA, up to TRL 2</td>
<td>2,200,000</td>
<td>- S2R-CFM-IP1-02-2018 - S2R-CFM-IP2-01-2018 - S2R-CFM-IP3-01-2018</td>
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<table>
<thead>
<tr>
<th>Number</th>
<th>IP1</th>
<th>IP2</th>
<th>IP3</th>
<th>IP4</th>
<th>IP5</th>
<th>CCA</th>
<th>IPX</th>
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<tr>
<td>CFM topic</td>
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<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>0</td>
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<td>OC topic</td>
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<td>3</td>
<td>1</td>
<td>2</td>
<td>1</td>
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<td>3</td>
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<td>Linked tender topic</td>
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<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
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</table>
Where a topic description refers to a TRL, the following definitions apply, unless otherwise specified:

- **TRL 1** – basic principles observed
- **TRL 2** – technology concept formulated
- **TRL 3** – experimental proof of concept
- **TRL 4** – technology validated in lab
- **TRL 5** – technology validated in relevant environment (industrially relevant environment in the case of key enabling technologies)
- **TRL 6** – technology demonstrated in relevant environment (industrially relevant environment in the case of key enabling technologies)
- **TRL 7** – system prototype demonstration in operational environment
- **TRL 8** – system complete and qualified
- **TRL 9** – actual system proven in operational environment (competitive manufacturing in the case of key enabling technologies; or in space)
Programme approach, future/current projects

• EACH PROJECT contributes to the *achievement of the Master Plan and the MAAP objectives*

• EACH PROJECT is part of a programme and *cooperation with other projects* must be ensured
  → Through the *collaboration and input to the JU Members*, EACH PROJECT will support the realization of *long-term S2R technological demonstrations or innovative break-through*

• Particular attention is given to ensure that there is *no duplication of work* between EACH PROJECT and current/future R&I activities

• EACH PROJECT results are taken into consideration for the next annual work plans to ensure sufficient *complementarity* and *coherence*
Complementarity & Collaboration Agreement

1. Complementary is defined at topic level

2. Complementarity between topics is compulsory established in the Grant Agreement (need for a Collaboration Agreement)

3. IP/CCA SteCos, high level synchronization points: Project Coordinators may attend the SteeCo meetings as observer and IP Coordinators cooperate with project coordinator to foster/promote synergies

4. S2R Programme Managers: Central Contact Point for both projects
Complementarity & Collaboration Agreement

Issues to be tackled in the Collaboration Agreement (COLA) (examples/non-exhaustive list)

• Rules for collaboration, “who does what?”; Point of Contacts etc.
• Handling review of documents
• Agreement on action to be performed by both sides + linked timing (e.g. project A provides “user requirements” by M6 to project B; project B provides input by M18 to project A → project A uses input for deliver their deliverable 2.3).
• Participation to restricted meetings (for specific purpose) or to public meetings (including Advisory Groups, etc...).
Complementarity & Collaboration Agreement

Tips/lessons learnt during implementation phase:

- COLA establish the relation between OC Projects with CFM Projects, to ensure alignment, agreement on tasks, background and results → Annexes should have meaningful content and ensure OC Projects duly provide to the CFM Projects input when so defined

- Start discussions with complementary project(s) as soon as possible
  - Anticipate as much as possible issues (timing discrepancy, possible duplication, etc.)
  - Inform the S2R PM should any major difficulties encountered, however COLA’s signature cannot be a barrier to collaborate!

- Changes in your own project may be needed as a result:
  - assess the need for an amendment within the consortium
  - Inform the S2R PM as soon as possible → JU assessment
Thank you for your attention