

Minutes of meeting

Scientific Committee meeting SC(M)05-2023

Tuesday, 19 September 2023 (12h00 to 15h00)

Online, Teams meeting

Item 1. Welcome & review of actions

The SC Chair, TBO, welcomed all participants to the fifth meeting of the SESAR 3 JU Scientific Committee (SC).

TBO reviewed the list of actions from the previous meeting and closed the following actions:

SC02/09 – see item 4,

SC04/03 – see item 6.

ABO informed the SC that the SESAR 3 JU is currently drafting a plan for the phasing-out of the joint undertaking from Horizon Europe, which the Governing Board will adopt in December 2023. This plan should include an outlook on the future of ATM research beyond 2028, and asked the SC to provide an input to this document by mid-November.

Item 1. Conclusions:

The SC agreed to provide an input to the outlook on the future of ATM research beyond 2028, to be included in the phasing out plan (actions SC05/01-03).

Item 2. Update from SESAR 3 JU on calls status and upcoming events

ABO presented the timeline of the ongoing calls: ER1 and IR1 have signed their grant agreements in June, the ER2 call was published on 29 June, the Europe's Rail JU – SESAR 3 JU synergy call should open at the beginning of October; the CEF calls are managed by CINEA, with the technical input of the SESAR 3 JU.

He informed that a gap analysis on the ATM Master Plan phase C will be tabled at the States Representatives Group meeting of November 2023¹. He specified that the gaps are limited, and that the Master Plan campaign update offers an opportunity to find mitigations actions.

He added that the SESAR 2020 programme closure is completed and that the DES programme is running.

The current DES portfolio includes 58 grants, either active or under preparation; this represents a significant investment of EUR 610.518.301,31 and an EU contribution (HE+CEF) of EUR 319.560.573,62.

He provided some details on the Europe's rail JU – SESAR 3 JU synergy call that has the objectives of bringing rail and air transport on a multimodal system for the benefit of passengers. The topic call covers operations plan,

¹ In February 2022, the SRG gave a positive opinion on the BAWP with the following recommendations: "Stress a risk on the availability of budget (including capping) for WA6 to complete critical Phase C activities pending the final outcomes of SESAR 2020. Invite the JU to revert to the SRG with a risk assessment in relation to the roll-out of Phase C of the Master Plan when the outcome of the calls planned to be launched in April is known. On that basis the SRG may formulate additional recommendations to address this risk".

Scientific Committee

decision making process and network crisis management process and the overall budget is Euros 5 M, fairly shared between the two JUs. The call and projects implementation will be managed under the EU-Rail framework with SESAR 3 JU contributing with technical expertise for aviation part.

Regarding the DSD2 call, he explained that the content was defined on the basis of a gap analysis conducted on the topics covered by the awarded projects against the DSD1a/b calls specifications, the results and recommendations stemming from the SESAR 2020 VLDs and the outcome of the last 2 Releases 12 and 13, namely new solutions that have achieved TRL6. The DSD2 call “Demonstrators for a greener, more scalable and resilient ATM” covers areas addressing Virtual Defragmentation of European Skies, Support to increased automation (AAS Transition Plan measure 3) and Aviation Green Deal. Launched at mid-September, it will be funded by CEF and managed by CINEA.

ABO informed the SC that the SESAR 3 JU is finalising the drafting of the Bi-annual Work Programme (BAWP) 2024-2025, that will be submitted by mid-October 2023 to the SC, who should “*advise on the scientific priorities to be addressed in the work programmes including on scope of calls for proposals, in line with the Strategic Research and Innovation Agenda and the Horizon Europe strategic planning*”.

The BAWP 2024-2025 adoption is planned at the Governing Board meeting of 14 December 2023.

Among the upcoming key SESAR 3 JU events, ABO listed the SESAR 3 JU Annual Conference on 10 October in Brussels, the SESAR Innovation Days 2023 at the end of November in Seville, the Airspace World 2024 in March 2024 in Geneva, the Connecting Europe Days in April 2024 in Brussels, the Transport Research Arena in April 2024 in Dublin.

Item 2. Conclusions

The SC took note of the information provided by Mr Boschen and agreed to provide advice on scientific priorities in BAWP (actions SC05/04-05).

Item 3. Master Plan update campaign

Mr Serge Bagieu reminded that the overall theme for the MP 2024 campaign will be “sustainability”, and the overall motto will be “to establishing Europe as the most efficient and environmentally friendly sky to fly in the world”. The proposed success criteria will help set the right ambition level, taking into account different expectations of stakeholders, multiple objectives and constraints. The slides contain more detailed information about success criteria.

The launch of the campaign will occur in the context of the SESAR 3 JU Annual on 10 October 2023 and the first meeting of the MP Steering Group will take place on 11 October. The SC representatives are PHE (main) and TBO (alternate). On 25-26 October a ATM MP vision workshop is organized in Braunschweig (Germany) to kick off the work of the 6 working groups. The SC contribution will be instrumental to challenge the scientific agenda of the MP.

He concluded by confirming that the SESAR 3 JU plans to provide the SC with regular updates on the progress of the MP campaign and invited the SC members to consider the first milestone by the end of February, where the SC will be requested to review the draft MP update with regards to the support to the Scientific Agenda.

Item 3. Conclusions

The SC Members took note of the information provided and agreed to review of the MP update on Scientific Agenda (see action SC05/06).

Item 4. SIDs – Special Issue publication

DSC, the SIDs Programme Committee chair, provided a follow-up presentation on the results of the SIDs 2022 survey and on the discussion on SIDs 2022 special issue.

According to the results of the survey amongst the authors of the SIDs 2022 papers, about 90% of the authors declared their willingness to publish in open journals, although some preferred to publish in a journal with impact factor. The main reference databases for indexing are Scopus, JCR (Journal Citation Report) and also Google Scholar, more popular in the U.S.

He reminded about the two options and respective conditions: the Journal of Open Aviation Science and the European Journal of Transport and Infrastructure Research (EJTIR), both published by University of Delft. As agreed during the last meeting, DSC and TBO contacted EJTIR's editor in chief and had a discussion about publication conditions. They agreed on a Special Issue of the SIDs2023, containing 12- to 15 papers, with a view to publication in Q3 2024.

Item 4. Conclusions

SC Members took note of the agreement and related timeline for publication.

Item 5. Open data task force

TBO presented the opportunities and barriers to opening data, the Engage 2 approach and the future actions. In general opportunities are an easier applicability of the Performance Assessment Framework, reproducibility and a higher research ranking. Barriers range from confidentiality to lack of resources, are related to the type of use, to funding and archiving space.

TBO explained that project Engage 2 plans to apply Open science and FAIR approach, with different collaborations proposed: one with PRU, PRC and Opensky Network on enriching open data, and the second with CANSO on hackathons and educating future workforce.

Engage 2 will design and administer a survey to past and current ER and IR projects to cover different types of data, explore data ownership and best way of data and code sharing.

She recalled the SC that the PRC is sponsoring the Opensky Network symposium (<https://symposium.opensky-network.org/> - Toulouse) as an Open Data forum. PRC is also sponsoring the collaboration between PRU and Opensky Network to develop two products to be included in the Opensky Network platform: the first one is a EU flight table, where each row would represent a flight, with different columns and fuel "performance" data to facilitate environmental assessments (agreed with airlines); the second one is a milestone table, to include crossings of 200NM or 40NM around airports (bases for some of the Performance Scheme KPIs).

She concluded by mentioning that the upcoming activities will include a poster describing the Open Performance Data Initiative and a paper to be submitted to the SIDs.

Item 5. Conclusions

The SC Members took note of the information provided.

Item 6. Young Scientist Award 2023 update

LDE reminded the SC that the call for the YSA and that for the SIDs paper were published on 8th May and closed on 8th September. The total number of the applications received is 20, higher than the former editions. The application assessment will take place from 25 September to 20 October, when the Evaluation Panel Report should be completed. The award ceremony is planned on 30th November during the SIDs in Seville.

Regarding action SC04/03, LDE informed the SC that the “quality control” is performed by the SESAR 3 JU in order to ensure consistent scoring and assessment. She added that the SJU is coordinating with the evaluators to grant sufficient effort for both the evaluation of the applications and the drafting the report, also based on the number of applications received and experience gained in previous YSA editions.

Item 6. Conclusions:

The SC Members took note of the information and timeline provided.

Item 7. Performance Task Force

Due to the fact that transversal projects kicked off in July, TBO did not have specific activities to report yet, but will be in contact with the projects in Q42023. She underlined that the MP update is also an opportunity to look at the performance research framework and ABO also invited the SC members to take this perspective into account in their contribution to the MP update.

Item 7. Conclusions:

TBO will report about the Performance Task Force at the next SC.

Item 8. AOB

- a. Regarding the plan to contact the Clean Aviation JU and Europe’s rail Scientific Committee to organise a joint meeting: PHE suggested to contact representatives of CA JU SC; for Europe’s rail, the call for expression of interest to select members of the SC closed in June 2023 and selected candidate will be informed by the end of December, so activities will only start only in 2024.
- b. The next meetings:
SC06: 1 December from 9:00 to 13:00 in Seville

Item 8. Conclusions:

PHE will approach representatives of CA JU SC.

TBO closed the meeting thanking all for their participation.

Signature of the Chairperson

Annex I – List of participants

MEMBERS

Arnaldo Rosa (RAR)

Bagassi Sara (SBA)

Besada Juan (JBE)

Bolic Tatjana (TBO)

Delahaye Daniel (DDE)

Hecker Peter (PHE)

Malakis Efstathios (SMA)

Netjasov Fedja (FNE)

Somogyi Rita (RSO)

SESAR 3 JU

Andreas Boschen – SESAR 3 JU Executive Director (ABO)

Peter Hotham – SESAR 3 JU Deputy Executive Director (PHO) - excused

Alain Siebert – SESAR 3 JU Chief Economist and Master Planning (ASI) – excused

Serge Bagieu – SESAR 3 JU

Luca Crecco – SESAR 3 JU Programme Officer (LCR)

Ilaria Vazzoler – SESAR 3 JU Corporate Governance Officer (IVA)

Lili Deyanova – Stanojevic – SESAR 3 JU Grant Manager (LDS)

GUESTS

Dirk Schaefer – Eurocontrol – SIDs Programme Committee Chair (DSC)

Annex II - List of actions

Please note that closed actions from past meetings have been removed from the list.

Actions	Responsibility	Description	Due Date	Status
SC02/09	SC members	To get in contact with University of Delft and have an internal discussion on which Open Journal is suitable for issuing a SIDs paper	October 2023	Closed
SC03/08	SESAR 3 JU	To facilitate information exchange between the SC and the SESAR 3 Transversal project as part of the follow up of the Performance Task Force work in the previous S2020 Scientific Committee	Q4 2023	Open
SC04/02	SC Members	To contact project Engage 2 on data availability issue.	July	Closed
SC04/03	SESAR 3 JU	To inform the SC members on the possibility to have a “quality controller” for the YSA 2023		Closed
SC04/04	SC Members	Reflecting on the future of ATM research (beyond 2028) and produce a White paper	End of 2024	Open
SC05/01	SJU	To provide the template for outlook on the future of ATM research beyond 2028	Mid-October	Open
SC05/02	SC Members	To discuss the outlook on the future ATM research	End of October	Open
SC05/03	SC Members	To provide an input to the outlook on the future of ATM research beyond 2028	Mid-November	Open
SC05/04	SJU	To provide BAWP for comments	Mid-October	Open
SC05/05	SC Members	To provide comments on BAWP for December GB	December	Open

Scientific Committee

SC05/06	SC Members	Produce supporting Scientific Agenda focusing on ER for the MP	February 2024	Open
SC05/07	TBO	To report about the Performance Task Force	December	Open
SC05/08	PHE	To approach representatives of Clean Aviation for experience exchange	?	Open