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FMP-Met

METEOROLOGICAL UNCERTAINTY MANAGEMENT FOR FLOW MANAGEMENT POSITIONS

This Dissemination Plan is part of a project that has received funding from the SESAR Joint Undertaking under grant agreement No 885919 under European Union's Horizon 2020 research and innovation programme.



Abstract

This document presents the Dissemination Plan for the FMP-Met project. Its target audience is the SESAR Joint Undertaking and the consortium members. This Dissemination Plan describes the strategy FMP-Met will follow to make public the project's results. This plan is complemented by the Communication Plan, which promotes the project and its results through the different communication activities. The dissemination strategy rests on the following main pillars (which are described in detail in this document): 1) participation in conferences with international peer review and proceedings publication, 2) publication of results in top ranked JCR journals, 3) publication of results on the project website, 4) organization of a workshop by the end of the project describing its results, including the publication of its proceedings, and participation in other workshops or forums related to the project, and 5) ensuring open access to all peer-reviewed scientific publications.



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1 Introduction¹

In this document, the Dissemination Plan of the project entitled ‘Meteorological Uncertainty Management for Flow Management Positions — FMP-Met’ is presented. This plan addresses the requirements defined in Section 3.10 of SESAR’s Project Handbook (Programme Execution Guidance) document [1] and the Article 29 of the Grant Agreement (GA) [2], and elaborates further the initial version of the Dissemination Plan presented in the GA (Section 2.2.1 of Annex 1 – Part B), considering the specific details provided by the SESAR Joint Undertaking (SJU) officials during the project kick-off meeting [3]. The Dissemination Plan is primarily intended for the SJU and the consortium members participating in the project (USE, AEMET, ACG, CCL, LiU, MetSol, PLUS, UC3M, ZFOT), since it will form the baseline for the publication of the project results.

The main **objective** is to disseminate outside the consortium the key information (approach, technologies, results, etc.) generated during the project’s lifetime. Dissemination is essential for the success of the project and for the sustainability of outputs in the long term. In accordance with Article 29.1 of the GA [2], each consortium member must, as soon as possible, disseminate (i.e. make public) its results by disclosing them to the public by appropriate means (other than those resulting from protecting or exploiting the results), including in scientific publications (in any medium). In particular, each consortium member must ensure open access (free of charge online access for any user) to all peer-reviewed scientific publications relating to its results.

FMP-Met results will go through the decision process recommended by H2020 as illustrated in Figure 1 [4] complying with both the Dissemination Plan here presented and the Data Management Plan [5], including also any decision to be taken to exploit/protect certain results that might be subject to a patent in the future.

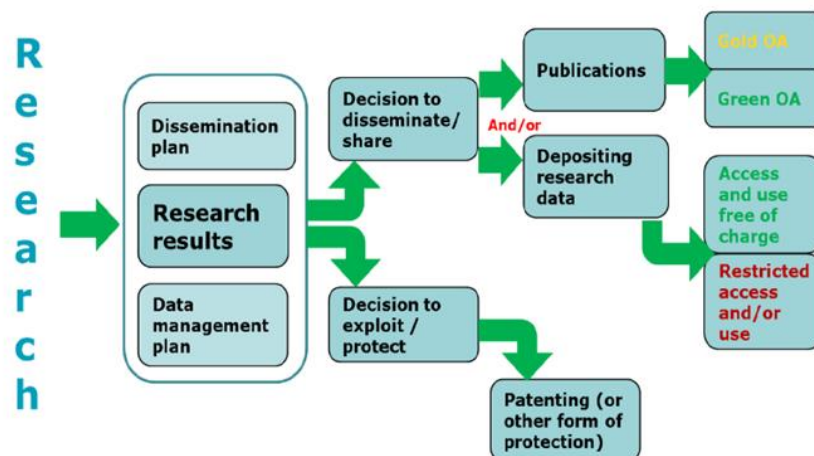


Figure 1. Dissemination decision process.

¹ The opinions expressed herein reflect the author’s view only. Under no circumstances shall the SESAR Joint Undertaking be responsible for any use that may be made of the information contained herein.



According to Article 29.1 of the GA [2], prior notice of any planned publication shall be given to the other partners at least 45 calendar days before the publication. Moreover, in accordance with Articles 29.4 and 29.5 of the GA [2], any dissemination of results (in any form, including electronic) must comply with the following two requirements:

1. It will display the SJU logo and the European Union (EU) emblem, and will include the following text:

“This project has received funding from the SESAR Joint Undertaking under grant agreement No 885919 under European Union’s Horizon 2020 research and innovation programme”.

When displayed together with another logo, the SJU logo and the EU emblem will have appropriate prominence.

2. It will include a disclaimer excluding SJU responsibility, indicating that it reflects only the author's view and that the SJU is not responsible for any use that may be made of the information it contains.

This Dissemination Plan lays out the strategy FMP-Met will follow to ensure that the project results are available to all the identified audiences: general public, undergraduate and graduate students, research and scientific community, industrial and intellectual property agents, and institutions. The Dissemination Plan is complemented by the Communication Plan [6] which promotes the project and its results through the different communication activities.

The **dissemination strategy** rests on the following main pillars (which are described in detail in the following sections):

- Participation in conferences with international peer review and proceedings publication.
- Publication of results in top-ranked JCR journals.
- Publication of results on the project website.
- Organization of a workshop by the end of the project describing its results, including the publication of its proceedings, and participation in other workshops or forums related to the project.
- Ensuring open access to all peer-reviewed scientific publications.



1.1 Acronyms and Terminology

Acronym	Description
AIAA	American Institute of Aeronautics and Astronautics
AMS	American Meteorological Society
ATM	Air Traffic Management
EU	European Union
FMP	Flow Management Position
JCR	Journal Citation Reports
GA	Grant Agreement
MET	Meteorology
PC	Project Coordinator
SESAR	Single European Sky ATM Research Programme
SJU	SESAR Joint Undertaking
STELLAR	SESAR Tool Enabling coLLaborative ATM Research
TRL	Technology Readiness Level
WP	Work Package

1.2 FMP-Met Consortium

Acronym	Description
USE	Universidad de Sevilla
AEMET	Agencia Estatal de Meteorología
ACG	Austro Control GmbH
CCL	Croatia Control Limited
LiU	Linköping University
MetSol	MeteoSolutions GmbH
PLUS	Paris-Lodron Universität Salzburg
UC3M	Universidad Carlos III de Madrid
ZFOT	University of Zagreb

2 Dissemination through Peer-Reviewed International Conferences

Some of the international conferences to which the research members will attend and present FMP-Met results are:

1. SESAR Innovation Days (SID).
2. International Conference on Research in Air Transportation (ICRAT).
3. USA/Europe ATM R&D Seminar (ATM Seminar).
4. AIAA Guidance, Navigation, and Control Conference (GNC).
5. AMS Conference on Aviation, Range and Aerospace Meteorology.

All of these conferences include an international peer-review committee, publish proceedings, and are well recognized in Air Traffic Management (ATM) forums as the most relevant conferences. The research members have already attended to past editions of these conferences. Attending to them will also enhance links with other institutions and/or industrial actors.

FMP-Met has a strong commitment to deliver top quality research. The conference papers will be internally peer-reviewed before submission by the FMP-Met's Steering Board, composed of a group of prestigious scientists in the fields of meteorological sciences, mathematical optimization, stochastic systems, uncertainty, and simulation. In the case of joint works, before the submission of a conference or journal paper, it will be internally peer-reviewed according to the following process:

1. At least 15 days before the submission deadline of the conference the partner responsible of producing the paper will send a draft version for revision to: 1) the members of the Steering Board involved in the WP from which the paper is derived, and 2) to the Project Coordinator (PC) for monitoring the on-going work.
2. Within 5 days after receiving the draft, the reviewers will provide their comments.
3. Within 10 days after sending the draft, a revised version of the paper addressing the comments given in the revision will be sent to: 1) the members of the Steering Board involved in the WP, and 2) the PC for monitoring the on-going work.

The goal is to submit for presentation:

- one poster in 2020 to SESAR Innovation Days 2020, describing the FMP-Met project;
- one paper in 2021, related to the work carried out in WP 4; and
- two papers in 2022, related to the works carried out in WP 5 and WP 6.

Clearly, in each case, the dissemination success criterion is the acceptance by the selected conference of the work submitted.

A preliminary list of workshops and conferences to be planned during the first 2 years of the project is given in table 1. Note that some of these events will need to be confirmed, and the related dates will need to be updated at a later stage.

Table 1. Dissemination events

Event	Name	Target date
Workshop	SESAR ER4 MET-related projects & Engage Knowledge Transfer Network - Thematic Challenge #3	October 2020
Conference	10 th SESAR Innovation Days 2020	December 2020
Conference	14 th USA/Europe ATM R&D Seminar	Q2 2021 (to be confirmed)
Workshop	Engage Knowledge Transfer Network - Thematic Challenge #3	Q3 2021 (to be confirmed)
Conference	11 th SESAR Innovation Days 2021	Q3 2021 (to be confirmed)

A preliminary list of workshops and conferences to be planned during the last 6 months of the project is given in table 2. These events will allow to fully exploit the allocated time for a final dissemination of the project results, once the project results are available.

Table 2. Final dissemination events

Event	Name	Target date
Conference	10 th International Conference for Research in Air Transportation (ICRAT)	June 2022
Workshop	FMP-Met Workshop (see section 5)	September 2022
Workshop	Engage Knowledge Transfer Network - Thematic Challenge #3	Q3 2022 (to be confirmed)

The preliminary dissemination planning given in tables 1 and 2 will be uploaded and maintained on STELLAR.



3 Dissemination through JCR Journals

Some of the international journals in which the research members intend to publish are:

1. **Journal of Guidance, Control, and Dynamics** (JCR 2019 Eng. Aerospace: Impact factor 2.692; 6/31 Q1).
2. **Aerospace Science and Technology** (JCR 2019 Eng. Aerospace: Impact factor 4.499; 2/31 Q1).
3. **Transp. Research Part C: Emerging Technologies** (JCR 2019 Transp. Sci. and Tech.: Impact factor 6.077; 4/36 Q1).
4. **Transp. Research Part D: Transport and Environment** (JCR 2019 Transp. Sci. and Tech.: Impact factor 4.577; 10/36 Q2).

These journals are top ranked in their respective categories and the research members have already published past work therein. The commitment to publish in these top-ranked journals will certainly enhance the scientific excellence of the project.

As in the case of the conference papers, the journal papers will be internally peer-reviewed before submission by the FMP-Met Steering Board. The process for reviewing joint works is the same process already described in Section 2.

The goal is to submit for publication:

- one paper in 2021, related to the work carried out in WP 4; and
- two papers in 2022, related to the works carried out in WP 5 and WP 6.

As for the conference papers, in each case, the dissemination success criterion is the acceptance by the selected journal of the work submitted.

4 FMP-Met Project Website

A crucial component of the FMP-Met dissemination strategy is a high-quality project website. It will provide ample and consistent information about all aspects of the FMP-Met project, with the goal of positioning the FMP-Met website as a prime information source for relevant scientific and technical information. The FMP-Met website is located at <https://www.FMP-Met.com>, and its appearance is shown in Figure 2. A complete description of the website can be found in the FMP-Met Communication Plan [6].

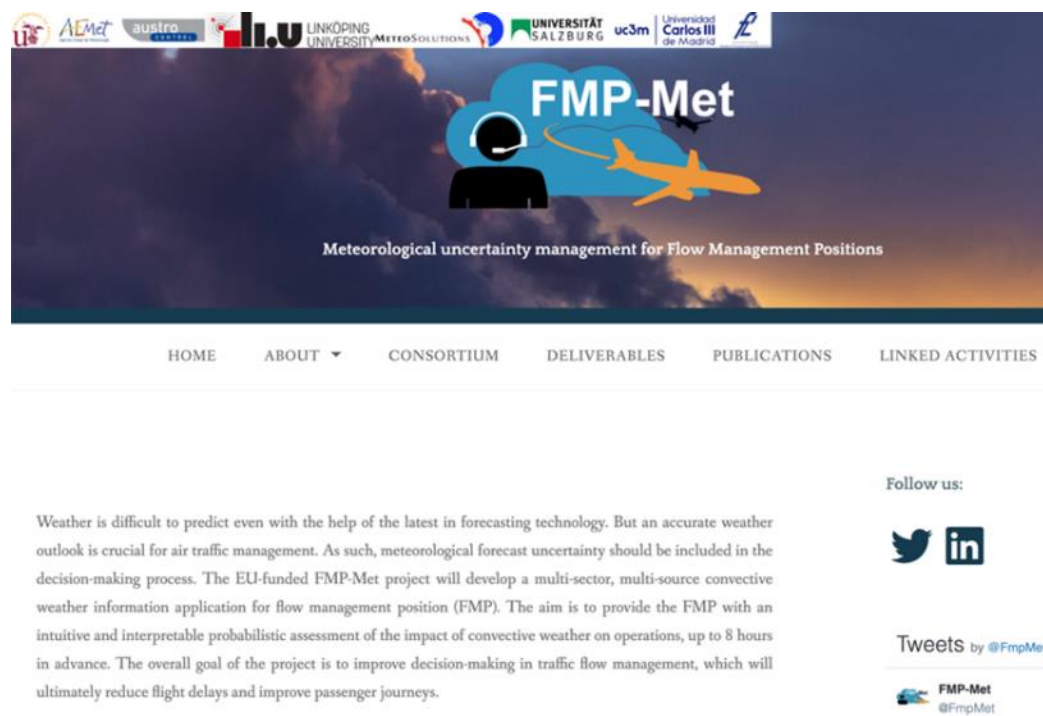


Figure 2. FMP-Met website.

5 FMP-Met Workshop

As a final step in the dissemination plan, the FMP-Met consortium will organize a workshop dedicated to the topic “**Flow Management under Adverse Weather Conditions**”. The aim of the workshop will be to bring together engineers, academicians, scientists, stakeholders, and students, to discuss and share ideas about the recent results in the field of ATM under uncertain meteorological conditions, and especially about the management of the uncertainty present in adverse weather predictions for Flow Management Positions.

The partners have experience in organizing dedicated international workshops in the following topics: “Uncertainty in ATM” and “Air Transport Network: an Integrated View”, as part of its activities in the SESAR ComplexWorld Network; the “1st International Workshop on Meteorology and ATM” and the “International Workshop on Uncertainty and ATM”, as part of the activities covered by a Spanish-funded research project; and, more importantly, the organization of the “2nd International Workshop on Meteorology and ATM”, as part of the dissemination activities of the preceding TBO-Met project.

This workshop will take place in Zagreb (Croatia) during the last six months of the project (around September 2022) and will be hosted by the University of Zagreb. The workshop will be open to the international community, having three major components:

1. A dedicated session presenting an overview and the main outcomes of the FMP-Met project, with the important goal of showing the benefits of FMP-Met and our readiness for TRL1.
2. Another technical session open to participants which will include their invited communications.
3. A panel discussion aiming at reviewing and summarizing the workshop ideas and discussing future steps.

The final dissemination item will be the publication of the **workshop proceedings**.

Bringing together researchers on this particular topic is of major interest in building a network to continue collaborating after the end of the project, and building up consortiums for future follow-up projects (as the TBO-Met workshop has shown).

The Advisory Board members (Rosalind Lapsley, from Eurocontrol Network Manager Directorate, Matthias Steiner, from the USA National Center for Atmospheric Research, and Banavar Sridhar, from the University Space Research Association at NASA Ames) will be invited to attend this workshop.

In this activity, the dissemination success criteria are the number of participants, geographical/stakeholder coverage, and post-event feedback from participants.

5.1 Other activities

FMP-Met will also participate in other workshops and forums related to the project; in particular, those organized by SESAR’s Engage Knowledge Transfer Network, under the umbrella of the Thematic Challenge #3 “Efficient provision and use of meteorological information in ATM”. Moreover, the coordinator of this Thematic Challenge will be informed about the project outcomes in order to exploit, potentially, additional dissemination channels in the MET and ATM community.

6 Open Access Publication

Open access refers to the practice of providing online access to scientific information that is free of charge to the end-user and reusable, see Guidelines to the Rules on Open Access to Scientific Publications and Open Access to Research Data in Horizon 2020 [4]. In the context of research and innovation, scientific information can mean:

- peer-reviewed scientific research articles (published in scholarly journals), or
- research data (data underlying publications, curated data and/or raw data).

Open access allows a broader access to scientific publications, which helps to:

- build on previous research results (improved quality of results),
- encourage collaboration and avoid duplication of effort (greater efficiency),
- speed up innovation (faster progress to market means faster growth), and
- involve citizens and society (improved transparency of the scientific process).

6.1 Peer-reviewed scientific research articles

According to Article 29.2 of the GA [2], each consortium member must ensure open access to all peer-reviewed scientific publications relating to its results. It must be noticed that, in the context of research funding, open access requirements do not imply an obligation to publish results. The decision to publish is entirely up to the consortium members. Open access becomes an issue only if publication is chosen as a means of dissemination.

The two main routes to open access are (see Figure 1):

- Self-archiving / 'green' open access** – the author, or a representative, archives (deposits) the published article or the final peer-reviewed manuscript in an online repository of their choice (as soon as possible and at the latest upon publication). Then, open access to the publication, via the chosen repository, must be ensured within at most 6 months.
- Open access publishing / 'gold' open access** – an article is immediately published in open access mode. In this model, the payment of publication costs is shifted away from subscribing readers. The most common business model is based on one-off payments by authors.

In FMP-Met, the self-archiving route is chosen. The selected online repository is **STELLAR** (SESAR Tool Enabling coLLaborative ATM Research). Besides, each consortium member will choose the repository considered to be more adequate; for example, University of Seville and University Carlos III of Madrid have their own institutional repositories, idUS and e-Archivo, respectively.

It has been checked via www.sherpa.ac.uk/romeo that all the journals considered in Section 3 allow to deposit the final peer-reviewed manuscript accepted for publication (i.e., the post-print version, which includes all modifications from the peer review process, but not yet formatted by the publisher).

Open access must be also provided, through the repository, to the bibliographic metadata that identify the deposited publication. These must be in a standard format and must include the following:



- the terms “European Union (EU)” and “Horizon 2020”,
- the name of the action “Meteorological Uncertainty Management for Flow Management Positions — FMP-Met”, acronym “FMP-Met” and grant number “885919”, and
- the publication date and a persistent identifier (for example a Digital Object Identifier).

The purpose of the bibliographic metadata requirement is to make it easier to find publications and ensure that EU funding is acknowledged.

In all cases, the Commission encourages authors to retain their copyright and grant adequate licences to publishers.

6.2 Research data

According to Article 29.3 of the GA [2], open access to research data is not required in FMP-Met. For more information on the data management, see the Data Management Plan [5].



7 References

- [1] Project Handbook of SESAR 2020 Exploratory Research Call H2020-SESAR-2019-2 (ER4) (Programme Execution Guidance), Edition 03.00.00, March 2019.
- [2] Grant Agreement number: 885919 — FMPMet — H2020-SESAR-2019-2, 2020.
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- [6] FMP-Met Deliverable 8.2, Communication Plan, Edition 00.02.00, September 2020.

