

MOSAR

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	Name	Organization	Date
Prepared and cross-reviewed by:	A Bianco Xiu T Yan Pierre Letier	University of Strathclyde Space Applications Services	30/06/2019



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1 Introduction

1.1 Purpose and Scope

This document defines, describes, and schedules the communication and dissemination activities we will undertake during project MOSAR's implementation. Communication activities aim to inform the general public about the project objectives, progresses made, new knowledge gained and outcomes and impacts generated. Dissemination activities aim to share and publish the latest research and development results in order to encourage wider research and technical users and stakeholders to adopt MOSAR concept, approaches and technologies in other technical systems.

For each activity we define (i) the expected outcome of the activity, (ii) the start date and the expected ending date of the activity, (iii) a breakdown of the activity into stages with expected completion dates. These will ensure MOSAR project is fully delivered and impacts created during and after the project.

1.2 Document Structure

In brief, the document is structured as follows:

Chapter 1	Introduction (this section)
Chapter 2	Communication through multiple channels
Chapter 3	Dissemination general considerations
Chapter 4	Conference Participation
Chapter 5	Journals publication
Chapter 6	Invited Talks and Symposia
Chapter 7	Article writing process
Chapter 8	Conclusion

1.3 Applicable Documents

AD1 MOSAR Grant Agreement

1.4 Reference Documents

RD1 MOSAR-WP7-D7.1-SA (Outreach Status Report SRR)

1.5 Acronyms

MOSAR Modular Spacecraft Assembly and Reconfiguration
OG Operational Grant



2 Communication through multiple channels

2.1 Scope and Purpose

The communication of the MOSAR activities are of significant importance to the project's impact and a combination of a range of methods have been created. The project website is the first important mechanism and is created to facilitate the sharing and exchange of the research findings. It will allow every interested member of the technical and non-technical communities to discover and understand the objectives of the project. It will offer status updates on the progress of the project with reports of the outcomes. Key aspects of the project will be explained in simple terms with ample use of pictures and videos. A newsletter will be prepared and enabled in order to automatically send news to subscribed users.

The document also defines process of creation and release of more information about the project findings on the project website, as well as other electronic and other channels of communications such as LinkedIn, twitter and YouTube which are provided in RD1.

2.2 Activity plan

The communication activities will span the full duration of the project from March 2019 to February 2021. We envision the following stages for project website listed in Table 2-1.

Table 2-1: Website stages

N.	Suggested Deadline	Available features
1	07/2019	An introductory project website for MOSAR including a front page of MOSAR is available. A newsletter and rss feed is functional. MOSAR partners have the possibility to propose a new content to the website and updated news through interaction with the coordinator. A project leaflet is available for download and printing.
2	11/2019	Each major MOSAR task is described in its own page. Previous OGs are introduced and links to their main webpages are provided. A page of MOSAR-related publications is available.
3	05/2020	Work Package 3 results are documented. Website is kept updated with project news such as partial results, experiences and publications.
4	12/2020	Work Package 4 results are documented. Website is kept updated with project news such as partial results, experiences and publications.
5	02/2021	Final project results are document, and a demonstration video is available.



3 Dissemination general considerations

3.1 Dissemination and open access

The effectiveness of disseminating the results of public funded projects such as MOSAR very much depends on the acceptance of key stakeholders of the project subject area and its end-users. For MOSAR to reach its maximal impact, it is important to consider wide range of these stakeholders and design and implement suitable mechanisms to reach out. A combination of mechanism will be implemented during the project to achieve maximal impact, including conference attendance for quick publications, high quality journal submission for an acceptance of technical excellence, invited talks to present results to targeted policy and decision makers.

Open Access provides researchers, businesses and citizens with improved and free of charge online access to EU-funded research results, including scientific publications and research data. It is essential for them to access to results for the re-use of research outputs so that Europe's ability to enhance its economic performance and improve the capacity to compete through knowledge. Open access is an important way. Results of publicly-funded research can therefore be disseminated more broadly and faster, to the benefit of researchers, innovative industry and citizens. More information can be found at

https://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-pilot-guide_en.pdf

The European Commission has required all projects receiving Horizon 2020 funding to publish any peer-reviewed journal article openly accessible, free of charge.

3.2 MOSAR dissemination process

It is also essential to comply with legal requirements of open access in order to achieve the widest dissemination. For the MOSAR project, the project partners will follow the following process in order to ensure that an open access status will be achieved for every single publications produced as a result of the project activities.

1. Open Access is further defined as Green Open Access and Gold Open Access. The project requirement is that a publication must have an open access status before it is accepted in the project reporting. Gold open access is where an author publishes their article in an online open access journal. In contrast, green open access is where an author publishes their article in any journal and then self-archives a copy in a freely accessible institutional online archive known as a repository. More information can be found at https://ec.europa.eu/programmes/horizon2020/sites/horizon2020/files/FactSheet_Open_Access.pdf
2. To be eligible for a MOSAR publication, an Green Open Access status must be achieved and the University of Strathclyde can provide this service for Green Open Access.
3. All publications should have standard and correct acknowledgement in order to be eligible to be recognised as a MOSAR publication;
4. The University of Strathclyde has access to a number of Springer published journals to make a publication in these journal a Gold Open Access status.
5. All project partners are therefore encouraged to consult the Dissemination Champion to ensure open access services are available and are used before submission and publication for better dissemination;



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4 Conferences Participation

4.1 Conference Scope and Purpose

Participation to conferences will allow members of related technical communities to discover, understand and discuss rapidly the objectives, the methods and the technologies of project MOSAR. It will allow us to receive feedback from peers, elicit interest in technical communities, and encourage research leaders and industry leaders to follow MOSAR and eventually adopt its results. For each participation, we will write an article that will be available in the conference proceedings for wider dissemination.

4.2 Activity plan

The activity will span the full duration of the project from March 2019 to February 2021. We envision the publications listed in Table 4-1 with each paper having a unique ID starting with CP for conference papers.

Table 4-1: Conferences submission plan

Paper ID	Suggested topic	Project Submission Deadline	Suggested Submission Deadline
CP1	Introductory article to project MOSAR. The article defines the scope and aims of the project, it explain the rational behind the proposed objectives.	02/2020	Submitted on 05/2019
CP2	General high level architecture of project MOSAR.	02/2020	02/2020
CP3	Enhancement of the SIROM interface for modular satellites architectures.	02/2021	09/2020
CP4	Precision maneuver planning for automatic reconfiguration of space satellites.	02/2021	09/2020
CP5	Environmental perception in space robotics.	02/2021	09/2020
CP6	Robotic hardware implementation: problems, constraints and limitations.	02/2021	12/2020
CP7	Robotic software implementation: problems, constraints and limitations.	02/2021	12/2020
CP8	Summary of MOSAR results.	02/2021	02/2020
CP9-16	Future research and exploitation.	02/2024	02/2024

4.3 Target conferences

Conferences are normally good venues for disseminating the quick research results. The MOSAR project will therefore make best use of attendances of various targeted conferences by encouraging all project partners to produce quick research findings. Table 4-2 contains a list of target conferences whose audience would be interested in MOSAR related activities and findings, with proposition of mapping of the suggested topics above.



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Table 4-2: Suggested Target Conferences

Paper ID	Conference	Time and Location	Submission deadlines
CP1	Symposium on Advanced Space Technologies in Robotics and Automation (ASTRA)	27 - 28 2019 /2021 05-06/2023	08/05/2019
	International Symposium on Artificial Intelligence, Robotics and Automation in Space	06/2020 06/2022	15/02/2020
CP2, CP3	International Astronautical Congress	10/2019 USA 09/2020 Dubai 10/2021 Paris 09-10 2022 09-10 2023	Unknown
CP8	IEEE Aerospace Conference	03/2020 USA, 03/2021 03/2022 03/2023	08/01/2020
CP4	International workshop on satellite constellations and formation flying (IWSCFF)	07/2019 UK, 07/2021 07/2023	10/06
	IEEE International Conference on Robotics and Automation (ICRA)	05/2020 05/2021 05/2022 05/2023	10/09
CP5	IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)	11/2020 11/2021 11/2022 11/2023	01/03/2020
CP6-7	International Conference on Robotics and Automation	05/2020 05/2021 05/2022 05/2023	10/11/2020
CP6-7	Mechatronics Conference	09/2020 09/2022	31/05/2020



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4.4 Detailed status of achieved and on-going conference dissemination

Table 4-3 lists the current status of achieved and on-going dissemination activities.

Table 4-3: Conference Status

Article Title	Status
MOSAR: Modular Spacecraft Assembly and Reconfiguration	Presentation given on 22/03/2019 by Dr. Pierre Letier at European Robotics Forum, in Bucharest, Romania.
MOSAR: Modular Spacecraft Assembly and Reconfiguration Demonstrator	Article submitted on 8/05/2019 to ASTRA 2019. Presentation given on 27/05/2019 by Dr. Pierre Letier in Noordwijk, the Netherlands. Open access proceedings not yet available.



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5 Journal Publication

5.1 Scope and Purpose

Publishing articles in a peer-reviewed journal will allow the validation and recognition of project MOSAR results by an expert technical audience. It will also allow the reception of well-informed feedback from peers, it will increase the interest of the technical communities, and make MOSAR project findings and the final outcomes look more reliable to research and industry leaders.

5.2 Activity plan

The activity will span the full duration of the project from March 2019 to February 2021. We envision the publications listed in Table 5-1.

Table 5-1: Journal submission plan

Paper ID	Suggested Topic	Project Submission Deadline	Suggested Submission Deadline
JP1	In depth discussion of project challenges mostly based on literature review with some architectural concepts. Results from Work Package 1, and Work Package 2.	02/2020	02/2020
JP2	Detailed system design of MOSAR robotic components. Results from Work Package 3.	02/2021	07/2020
JP3	Hardware implementation issues and experiences. Results from Work Package 4.	02/2021	12/2020
JP4	Software implementation issues and experiences. Results from Work Package 4.	02/2021	12/2020
JP5	Complete discussion of MOSAR project with final results. Results from Work Package 5.	02/2021	02/2021
JP6-9	Research testing and partial or full demonstration based work including future research and technical exploitation.	02/2024	02/2024



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5.3 Target Journals

Table 5-2 contains a list of journals that would be suitable at this stage and might be interested in a MOSAR-related publication. All journals have usually a 3 months or longer review cycle before publications and this will be taken into considerations in selecting final targeted journals for submission.

Table 5-2: Suggested Target Journals

Paper ID	Journal
JP7	Frontier in Robotics and AI
JP5	IEEE Transactions on Robotics
JP3	IEEE Transactions on Mechatronics
JP2	IEEE Robotics and Automation Magazine
JP4	IEEE Transaction on Control System and Technology
JP1	Acta Astronautica
JP6	Advances in Space Research
JP8	International Journal of Advanced Robotic Systems
JP9	Journal of Robotics and Computer Integrated Manufacturing
Back up	Advances in Mechanical Engineering



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6 Invited Talks

6.1 Scope and Purpose

Participating to deliver an Invited Talk at a major international conference or Symposia can normally have bigger impact on dissemination for MOSAR project. These activities should have the same objectives as participating to a conference. The main difference is that there will be no proceeding, no final article will record the discussion, and hence, the activity will have more focused research presentations to the targeted audiences with clear message, but may have a smaller reach than the participation to conference. Nonetheless, Symposia and Invited Talks will allow direct discussion of previously published content with a new audience.

6.2 Activity plan

The participation to invited talks is opportunistic and the precise presentation contents are not planned in advance. The consortium however can be more proactive and make use the links with lal project partners as well as be more proactive in accepting or engaging with potential conferences or symposium to develop opportunities. The consortium envisages an invited talk plan described in Table 6-1 with each invited talk having a unique ID IT for invited Talk, in order to stimulate more ideas and seek feedback from stallholders on completing the tasks defined in the project .

Table 6-1: Suggested Invited talk plan

Invited Talk ID.	Suggested Topic	Event name	Suggested Deadline
IT1		02/2021	Planned in 07/2019
IT2	MOSAR a European Space Robotic Technology for Sustainable Space Access	International Conference on Robotics & Automation Engineering, October 23-24, 2019 Rome, Italy	11/2019
IT3	Any non confidential information.	Space Tech Expo Europe (Venue TBC)	11/2020
IT4	Any non confidential information.		08/2020
IT5	Any non confidential information.		11/2020
IT6	Any non confidential information.		02/2021
IT7-12	Future research and exploitation.		02/2024

The consortium’s dissemination Champion has recently received an invitation for an invited talk from the Robotics-2019 Organizing Committee for the International Conference on Robotics and Automation Engineering scheduled to be held from October 23-24, 2019 in Rome, Italy. This opportunity will be explored to help dissemination of MOSAR project findings.



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6.3 Detailed status of achieved and on-going talks dissemination

Table 6-2 lists the current status of achieved and on-going dissemination activities.

Table 6-2: Talks and Symposia Status

Presentation Title	Status
MOSAR and Space Robotics Projects	Presentation will be given on 15/07/2019. by Dr. Pierre Letier at the "Workshop on self-configuring modular robotics for earth and space" held in York, United Kingdom.



7 Article writing process

7.1 Scope and Purpose

In this section the steps involved in the submission of an article to a journal or conference are clearly defined. The aim is to ensure effective dissemination work, collaborative production of high quality publications, respect of intellectual properties, compliance with individual partner's publication requirements, and satisfaction of the project legal requirements. In particular the project partners have to ensure that all publications meet the "open access" requirement as publicly accessible documents.

7.2 Workflow

Figure 7-1 illustrates the proposed paper writing and publication process to facilitate effective dissemination.

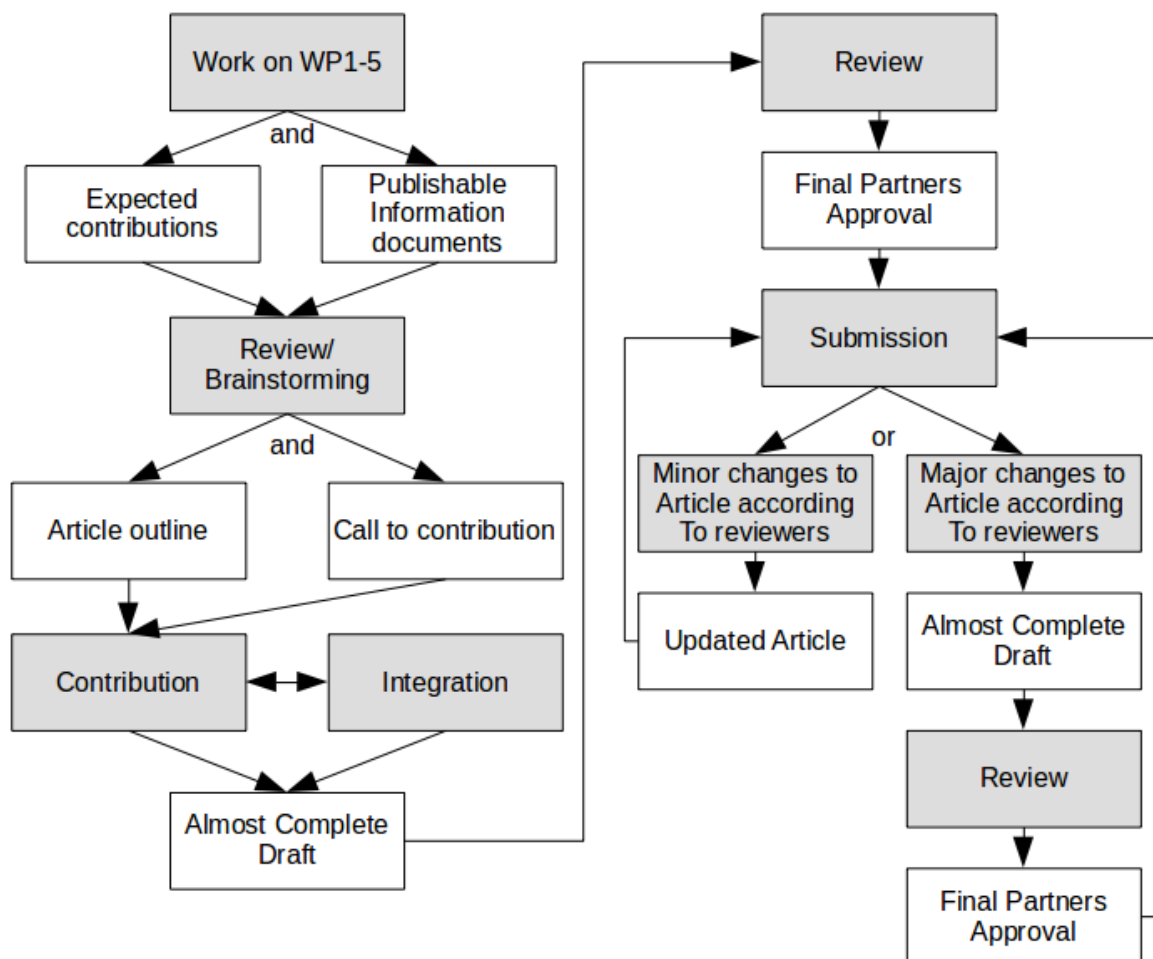


Figure 7-1: Article Writing Process Diagram. Grey boxes represent activities, white boxes represent outputs.

As most of partners work on Work Package 1-5, the project partners will collectively produce the expected dissemination deliverables. To facilitate a collaborative and effective production of dissemination outputs, the MOSAR project will maintain a document directory, where all partners will add the additional information they might consider to be worth sharing with an external public. The



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directory will also have project partners only space and therefore still be confidential, and partners are encouraged to put inside any partial or complete results or ideas for sharing among project partners.

Strathclyde and any other willing partner will periodically review the contents of the directory, and the project deliverables, and evaluate and select suitable materials for publication. The partner formulating an initial article idea will be the article leader.

The article leader will write down an initial outline, and define a contribution plan for all the sections. The article leader will contact the partners and evaluate the feasibility of the idea, make the necessary adjustment to the plan and possibly give the leadership position to some other partner.

At this point, partners will contribute by writing into separate documents, and the article leader will also integrate all the contribution together. After several iterations, an almost complete draft should be produced.

At least six weeks before submission, all partners concerned will be asked to review the almost complete draft and give a final confirmation and agreement to the publication. If a partner cannot give a final confirmation within six weeks, the project partners will evaluate the possibility of removing their contribution and submit the article or wait for an extended time if required for the confirmation.

Once confirmations are received and the final article is ready, we will first pre-submit the article on the University of Strathclyde repository system for processing in order to guarantee the compliance of a green open-access status for the paper as required by the project agreement. Then paper will be submitted for evaluation.

After a few months, we will eventually receive feedback from peer reviewers. They might reject the article, or approve it with some modifications. If the reviewers ask for minor modification, we will quickly make them, update the new article if necessary and deposit in the Strathclyde repository system the authors' accepted manuscript (AAM/post-print) version, and submit the article back for final publication.

If the reviewers ask for major modification, we will discuss the modification and make them if there are no objections. If changes are substantial and require a second evaluation of publication suitability by the contributing partners, we will inform the editor that we will need at least 6 weeks to make the changes (same 6 as above). All partners will be asked to review the new almost complete draft, and if partners cannot give a final confirmation, we will ask the publisher to accept the previous version. The publisher might refuse. When a new final draft is ready and accepted, Strathclyde partner will update its new version in the Strathclyde repository and the revised version will be submitted for the final publication.

Table 7-1 contains a suggested timeline for the completion of articles. As we are aware that different partners have different time constraints for approving publication work, the variables X and Y has been added to the timeline. Table 7-2 lists the minimum values of X and Y for each participating partner.

Table 7-1: Suggested timelines for writing the articles

Article State	Conferences: Number of weeks before target deadline	Journals: Number of weeks before target deadline
Initial Outline	6+X	8+Y
Roughly Filled Sections	4+X	6+Y
Almost Complete Draft	2+X	4+Y
Final Version	1	2

Table 7-2: Values of partners time constraints

Variable	SpaceApps	GMV	DLR	SITAEL	ThalesUK	ThalesFr	UStrath	Elli
X	0	0	0	2	3	3	0	0
Y	0	0	0	0	1	1	0	0



8 Conclusion

This document has laid out an initial plan for dissemination and communication activities of the MOSAR project. It is aimed to seek all partners' support to complete this challenging task by defining detailed planned activities and potential areas for publication. All project partners are reminded that only through collaborative team effort the set publication targets will be achieved. All project partners should also help to collect details of the research work so publishable materials can be compiled for rapid publication.

The initial deliverable described the objective of the communications and outreach activity that was carried out during the first 3 months of the MOSAR project. This deliverable also presented the scientific dissemination plans for conferences, journals and other opportunities to give talks about MOSAR, as well as the description of the workflow for article review and submission.



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3. Acronyms list

Acronyms	Meaning
SAS	Space Applications Services
DLR	Deutsches Zentrum für Luft- und Raumfahrt e.V
GMV	GMV Innovating Solutions S.L.
TAS-F	Thales Alenia Space-France
MS	MAG SOAR SL
TAS-UK	Thales Alenia Space-UK
SITAEL	
UoS	The University of Strathclyde
ESTEC	European Space Technological Centre
EAC	European Astronaut Training Centre
i-SAIRAS	International Symposium on Artificial Intelligence, Robotics and Automation in Space
ASTRA	Advanced Space Technologies in Robotics and Automation
IAC	International Astronautical Congress
IAF	International Astronautical Federation
CP	Conference paper
JP	Journal Paper
SMeSTech	Space Mechatronic Systems Technology Laboratory

Table 1-1 Acronyms list



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