



870437 - SafeSpace Consortium Agreement

Horizon 2020 Framework Programme
Consortium Agreement

Project Acronym: **SafeSpace**

Project Full Title: Radiation Belt Environmental Indicators for the Safety of Space Assets

Project number: 870437

This Consortium Agreement consists of 40 pages including this cover page.

Version 2.1

October 2019

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CONSORTIUM AGREEMENT

THIS CONSORTIUM AGREEMENT is based upon REGULATION (EU) No 1290/2013 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 11 December 2013 laying down the rules for the participation and dissemination in “Horizon 2020 – the Framework Programme for Research and Innovation (2014-2020)” (hereinafter referred to as “Rules for Participation”), and the European Commission Multi-beneficiary General Model Grant Agreement and its Annexes, and is made on <01/12/2019>, hereinafter referred to as the Effective Date

BETWEEN:

Ethniko kai Kapodistriako Panepistimio Athinon - National and Kapodistrian University of Athens (NKUA), established in Christou Lada 6, 10561 Athens, Greece, with VAT number: EL090145420, hereinafter “**NKUA**” or “**the Coordinator**”,

Office National d’Etudes et de Recherches Aérospatiales, established in Chemin de la Hunière - BP 80100 - 91123 PALAISEAU Cedex - registered with the Evry commercial and companies registry under the number 775 722 879, hereinafter “**ONERA**”,

Katholieke Universiteit Leuven, established in Oude Markt 13, 3000 Leuven , Belgium, with VAT number: BE419052173, hereinafter “**KU Leuven**”, for the purposes of this Agreement represented by KU Leuven Research & Development, Waaistraat 6 box 5105, 3000 Leuven, Belgium,

Ustav Fyziky Atmosfery AV CR, v.v.i., established in Bocni II 1401, CZ-14100 Praha 4, Czechia, with VAT number: CZ68378289, hereinafter “**IAP**”,

Institut royal d’Aéronomie Spatiale de Belgique, established in Avenue Circulaire 3, 1180 Brussels, Belgium, with VAT number: BE0349010750, hereinafter “**IASB**”,

Thales Alenia Space España, established in C/ Einstein 7, 28760, Tres Cantos, Spain, with VAT number: A78989670, hereinafter “**TAS-E**”,

Centre National de la Recherche Scientifique, established in rue Michel Ange 3, 75794 Paris Cedex 16, France, with VAT number: FR40 180 089 013, hereinafter “**CNRS**”,

Sandberg & Co Private Company, established in Aioulou 73, 10551 Athens, Greece, with VAT number: EL800738856, hereinafter “**SPARC**”,

hereinafter, jointly or individually, referred to as “Parties” or “Party” relating to the Action entitled **SafeSpace - Radiation Belt Environmental Indicators for the Safety of Space Assets** in short **SafeSpace** hereinafter referred to as “Project”

WHEREAS:

The Parties, having considerable experience in the field concerned, have submitted a proposal for the Project to the Funding Authority as part of the Horizon 2020 – the Framework Programme for Research and Innovation (2014-2020)

The Parties wish to specify or supplement binding commitments among themselves in addition to the provisions of the specific Grant Agreement to be signed by the Parties and the Funding Authority (hereinafter “Grant Agreement”).

The Parties are aware that this Consortium Agreement is based upon the DESCA model consortium agreement.

NOW, THEREFORE, IT IS HEREBY AGREED AS FOLLOWS:

1 Section: Definitions

1.1 Definitions

Words beginning with a capital letter shall have the meaning defined either herein or in the Rules for Participation or in the Grant Agreement including its Annexes.

1.2 Additional Definitions

“Consortium Body“:

Consortium Body means any management body described in the Governance Structure section of this Consortium Agreement.

“Consortium Plan”

Consortium Plan means the description of the action and the related agreed budget as first defined in the Grant Agreement and which may be updated by the Project Board.

“Funding Authority”

Funding Authority means the body awarding the grant for the Project.

“Defaulting Party”

Defaulting Party means a Party which the Project Board has identified to be in breach of this Consortium Agreement and/or the Grant Agreement as specified in Section 4.2 of this Consortium Agreement.

“Needed” means:

For the implementation of the Project:

Access Rights are Needed if, without the grant of such Access Rights, carrying out the tasks assigned to the recipient Party would be technically or legally impossible, significantly delayed, or require significant additional financial or human resources.

For Exploitation of own Results:

Access Rights are Needed if, without the grant of such Access Rights, the Exploitation of own Results would be technically or legally impossible.

“Software”

Software means sequences of instructions to carry out a process in, or convertible into, a form executable by a computer and fixed in any tangible medium of expression.

2 Section: Purpose

The purpose of this Consortium Agreement is to specify with respect to the Project the relationship among the Parties, in particular concerning the organization of the work between the Parties, the management of the Project and the rights and obligations of the Parties concerning inter alia liability, Access Rights and dispute resolution.

3 Section: Entry into force, duration and termination

3.1 Entry into force

An entity becomes a Party to this Consortium Agreement upon signature of this Consortium Agreement by a duly authorized representative.

This Consortium Agreement shall have effect from the Effective Date identified at the beginning of this Consortium Agreement.

A new entity becomes a Party to the Consortium Agreement upon signature of the accession document (Attachment 2) by the new Party and the Coordinator. Such accession shall have effect from the date identified in the accession document.

3.2 Duration and termination

This Consortium Agreement shall continue in full force and effect until complete fulfilment of all obligations undertaken by the Parties under the Grant Agreement and under this Consortium Agreement.

However, this Consortium Agreement or the participation of one or more Parties to it may be terminated in accordance with the terms of this Consortium Agreement.

If

- the Grant Agreement is not signed by the Funding Authority or a Party, or
- the Grant Agreement is terminated, or
- a Party's participation in the Grant Agreement is terminated,

this Consortium Agreement shall automatically terminate in respect of the affected Party/ies, subject to the provisions surviving the expiration or termination under Section 3.3 of this Consortium Agreement.

3.3 Survival of rights and obligations

The provisions relating to Access Rights, Dissemination and confidentiality, for the time period mentioned therein, as well as for liability, applicable law and settlement of disputes shall survive the expiration or termination of this Consortium Agreement.

Termination shall not affect any rights or obligations of a Party leaving the Consortium incurred prior to the date of termination, unless otherwise agreed between the Project Board and the leaving Party. This includes the obligation to provide all input, deliverables and documents for the period of its participation.

4 Section: Responsibilities of Parties

4.1 General principles

Each Party undertakes to take part in the efficient implementation of the Project, and to cooperate, perform and fulfil, promptly and on time, all of its obligations under the Grant Agreement and this Consortium Agreement as may be reasonably required from it and in a manner of good faith as prescribed by Belgian law.

Each Party undertakes to notify promptly, in accordance with the governance structure of the Project, any significant information, fact, problem or delay likely to affect the Project.

Each Party shall promptly provide all information reasonably required by a Consortium Body or by the Coordinator to carry out its tasks.

Each Party shall take reasonable measures to ensure the accuracy of any information or materials it supplies to the other Parties.

4.2 Breach

In the event that a responsible Consortium Body identifies a breach by a Party of its obligations under this Consortium Agreement or the Grant Agreement (e.g. improper implementation of the project), the Coordinator or, if the Coordinator is in breach of its obligations, the Party appointed by the Project Board, will give formal notice to such Party requiring that such breach will be remedied within 30 calendar days from the date of receipt of the written notice by the Party.

If such breach is substantial and is not remedied within that period or is not capable of remedy, the Project Board may decide to declare the Party to be a Defaulting Party and to decide on the consequences thereof which may include termination of its participation.

4.3 Involvement of third parties

A Party that enters into a subcontract or otherwise involves third parties (including but not limited to Affiliated Entities) in the Project remains responsible for carrying out its relevant part of the Project and for such third party's compliance with the provisions of this Consortium Agreement and of the Grant Agreement. It has to ensure that the involvement of third parties does not affect the rights and obligations of the other Parties under this Consortium Agreement and the Grant Agreement.

5 Section: Liability towards each other

5.1 No warranties

In respect of any information or materials (incl. Results and Background) supplied by one Party to another under the Project, no warranty or representation of any kind is made, given or implied as to the sufficiency or fitness for purpose nor as to the absence of any infringement of any proprietary rights of third parties.

Therefore,

- the recipient Party shall in all cases be entirely and solely liable for the use to which it puts such information and materials, and
- no Party granting Access Rights shall be liable in case of infringement of proprietary rights of a third party resulting from any other Party (or its Affiliated Entities) exercising its Access Rights.

5.2 Limitations of contractual liability

No Party shall be responsible to any other Party for any indirect or consequential loss or similar damage such as, but not limited to, loss of profit, loss of revenue or loss of contracts, provided such damage was not caused by a willful act or by a breach of confidentiality.

For any remaining contractual liability, a Party's aggregate liability towards the other Parties collectively shall be limited to once the Party's share of the total costs of the Project as identified in Annex 2 of the Grant Agreement provided such damage was not caused by a willful act or gross negligence.

The terms of this Consortium Agreement shall not be construed to amend or limit any Party's statutory liability.

5.3 Damage caused to third parties

Each Party shall be solely liable for any loss, damage or injury to third parties resulting from the performance of the said Party's obligations by it or on its behalf under this Consortium Agreement or from its use of Results or Background.

5.4 Force Majeure

No Party shall be considered to be in breach of this Consortium Agreement if it is prevented from fulfilling its obligations under the Consortium Agreement by Force Majeure.

Each Party will notify the competent Consortium Bodies of any Force Majeure without undue delay. If the consequences of Force Majeure for the Project are not overcome within 6 weeks after such notification, the transfer of tasks - if any - shall be decided by the competent Consortium Bodies.

6 Section: Governance structure

6.1 General structure

The organizational structure of the Consortium shall comprise the following Consortium Bodies:

Project Board (PB) as the ultimate decision-making body of the consortium. The PB consists of one delegate (Partner Representative) from each organization participating in the project. The chairperson of the PB is the Project Coordinator. The PB shall meet as required, but at least twice a year. Each Partner Representative will represent his/her organization in the course of PB activities. A requirement on each organization is that their Partner Representative be authorised to make binding decisions on behalf of the organization during the normal course of PB business.

The Parties agree to abide by all decisions of the PB to achieve the implementation and objectives of the Project. This does not prevent the Parties to submit a dispute to resolution in accordance with the provisions of Settlement of disputes in Section 11.8 of this consortium agreement.

The **Coordinator** is the legal entity acting as the intermediary between the Parties and the Funding Authority. The Coordinator shall, in addition to its responsibilities as a Party, perform the tasks assigned to it as described in the Grant Agreement and this Consortium Agreement.

Project Technical Committee (PTC)

The PTC is the body responsible for making and overseeing all technical decisions made within the project. It directly controls all WP Tasks, through the consensus of the partners. The PTC is responsible for putting into place mechanisms to be used by the WP leaders to ensure the quality of work, produced deliverables, and any technical papers produced at the WP level. The PTC consists of the Work Package and Task (sub-WP) Leaders of the project. The chairperson of the PTC is the Project Coordinator. In cases of unavailability of the Project Coordinator, he/she may appoint one of the Task Leaders to chair the PTC. WP Leaders are responsible for summarizing the progress of WPs during PTC meetings. The PTC will convene regularly through teleconferences as required, but at least twice a month. Physical meetings of the PTC will be scheduled once a year or more often if required.

6.2 General operational procedures for all Consortium Bodies

6.2.1 Representation in meetings

Any Party which is a member of a Consortium Body (hereinafter referred to as "Member"):

- should be present or represented at any meeting;
 - may appoint a substitute or a proxy to attend and vote at any meeting;
- and shall participate in a cooperative manner in the meetings.

6.2.2 Preparation and organization of meetings

6.2.2.1 Convening meetings

The Project Coordinator shall convene the meetings of the Consortium Bodies.

	Ordinary meeting	Extraordinary meeting
Project Board	At least twice a year	At any time upon written request of the Project Coordinator or 1/2 of the Members of the Project Board
Project Technical Committee	At least once a month	At any time upon written request of the Project Coordinator or of a Work Package Leader

6.2.2.2 Notice of a meeting

The Project Coordinator shall give notice in writing of a meeting to each Member of that Consortium Body as soon as possible and no later than the minimum number of days preceding the meeting as indicated below.

	Ordinary meeting	Extraordinary meeting
Project Board	45 calendar days	15 calendar days
Project Technical Committee	14 calendar days	7 calendar days

6.2.2.3 Sending the agenda

The Project Coordinator shall prepare and send each Member of that Consortium Body a written (original) agenda no later than the minimum number of days preceding the meeting as indicated below.

Project Board	21 calendar days, 10 calendar days for an extraordinary meeting
Project Technical Committee	7 calendar days

6.2.2.4 Adding agenda items:

Any agenda item requiring a decision by the Members of a Consortium Body must be identified as such on the agenda.

Any Member of a Consortium Body may add an item to the original agenda by written notification to all of the other Members of that Consortium Body up to the minimum number of days preceding the meeting as indicated below.

Project Board	14 calendar days, 7 calendar days for an extraordinary meeting
Project Technical Committee	2 calendar days

- 6.2.2.5** During a meeting the Members of a Consortium Body present or represented can unanimously agree to add a new item to the original agenda.
- 6.2.2.6** Meetings of each Consortium Body may also be held by teleconference or other telecommunication means.
- 6.2.2.7** Decisions will only be binding once the relevant part of the Minutes has been accepted according to Section 6.2.5.
- 6.2.2.8** Any decision may also be taken without a meeting if the Coordinator circulates to all Members of the Consortium Body a written document, which is then agreed by the defined majority (see Section 6.2.3) of all Members of the Consortium Body. Such document shall include the deadline for responses.

Decisions taken without a meeting shall be considered as accepted if, within the period set out in article 6.2.4.4, no Member has sent an objection in writing to the chairperson. The decisions will be binding after the chairperson sends to all Members of the Consortium Body and to the Coordinator a written notification of this acceptance.

6.2.3 Voting rules and quorum

- 6.2.3.1** Each Consortium Body shall not deliberate and decide validly unless more than two-thirds (2/3) of its Members are present or represented (quorum). If the quorum is not reached, the chairperson of the Consortium Body shall convene another ordinary meeting within 15 calendar days. If in this meeting the quorum is not reached once more, the chairperson shall convene an extraordinary meeting, which shall be entitled to decide even if less than the quorum of Members are present or represented.
- 6.2.3.2** Each member of a Consortium Body present or represented in the meeting shall have one vote.
- 6.2.3.3** A Party which the Project Board has declared according to Section 4.2 to be a Defaulting Party may not vote.
- 6.2.3.4** Decisions shall be taken by a majority of more than two-thirds (2/3) of the votes cast.
- 6.2.3.5** In case of draw the Project Coordinator holds a casting vote.

6.2.4 Veto rights

- 6.2.4.1** A Member which can show that its own work, time for performance, costs, liabilities, intellectual property rights or other legitimate interests would be severely affected by a decision of a Consortium Body may exercise a veto with respect to the corresponding decision or relevant part of the decision.
- 6.2.4.2** When the decision is foreseen on the original agenda, a Member may veto such a decision during the meeting only.
- 6.2.4.3** When a decision has been taken on a new item added to the agenda before or during the meeting, a Member may veto such decision during the meeting and within 15 calendar days after the draft minutes of the meeting are sent.
- 6.2.4.4** When a decision has been taken without a meeting a Member may veto such decision within 15 calendar days after written notification by the chairperson of the outcome of the vote.
- 6.2.4.5** In case of exercise of veto, the Members of the related Consortium Body shall make every effort to resolve the matter which occasioned the veto to the general satisfaction of all its Members.
- 6.2.4.6** A Party may neither veto decisions relating to its identification to be in breach of its obligations nor to its identification as a Defaulting Party. The Defaulting Party may not veto decisions relating to its participation and termination in the consortium or the consequences of them.
- 6.2.4.7** A Party requesting to leave the consortium may not veto decisions relating thereto.

6.2.5 Minutes of meetings

- 6.2.5.1** The chairperson shall produce written minutes of each meeting, which shall be the formal record of all decisions taken. He/she shall send the draft minutes to all Members within 10 calendar days of the meeting.
- 6.2.5.2** The minutes shall be considered as accepted if, within 15 calendar days from sending, no Member has sent an objection in writing to the chairperson with respect to the accuracy of the draft of the minutes.
- 6.2.5.3** The chairperson shall send the accepted minutes to all the Members of the Consortium Body and to the Coordinator, who shall safeguard them. If requested the Coordinator shall provide authenticated duplicates to Parties.

6.3 Specific operational procedures for the Consortium Bodies

6.3.1 Project Board

In addition to the rules described in Section 6.2, the following rules apply:

6.3.1.1 Members

6.3.1.1.1 The Project Board shall consist of one representative of each Party (hereinafter Partner Representative).

6.3.1.1.2 Each Partner Representative shall be deemed to be duly authorized to deliberate, negotiate and decide on all matters listed in Section 6.3.1.2. of this Consortium Agreement.

6.3.1.1.3 The Project Coordinator shall chair all meetings of the Project Board, unless decided otherwise in a meeting of the Project Board.

6.3.1.1.4 The Parties agree to abide by all decisions of the Project Board. This does not prevent the Parties to submit a dispute to resolution in accordance with the provisions of Settlement of disputes in Section 11.8.

6.3.1.2 Decisions

The Project Board shall be free to act on its own initiative to formulate proposals and take decisions in accordance with the procedures set out herein. In addition, all proposals made by the Project Technical Committee shall also be considered and decided upon by the Project Board.

The following decisions shall be taken by the Project Board:

Content, finances and intellectual property rights.

- Proposals for changes to Annexes 1 and 2 of the Grant Agreement to be agreed by the Funding Authority.
- Changes to the Consortium Plan.
- Modifications to Attachment 1 (Background Included).
- Additions to Attachment 3 (List of Third Parties for simplified transfer according to Section 8.3.2).
- Additions to Attachment 4 (Identified Affiliated Entities).
- Restructuring of the budget that composes the Project, if allowed by the Funding Authority.
- Reallocation of tasks and, consequently, of the budget among participants of the Project.

Evolution of the consortium

- Entry of a new Party to the consortium and approval of the settlement on the conditions of the accession of such a new Party.
- Withdrawal of a Party from the consortium and the approval of the settlement on the conditions of the withdrawal.
- Identification of a breach by a Party of its obligations under this Consortium Agreement or the Grant Agreement.
- Declaration of a Party to be a Defaulting Party.
- Remedies to be performed by a Defaulting Party.
- Termination of a Defaulting Party's participation in the consortium and measures relating thereto.

- Proposal to the Funding Authority for a change of the Coordinator.
- Proposal to the Funding Authority for suspension of all or part of the Project.
- Proposal to the Funding Authority for termination of the Project and the Consortium Agreement.

Appointments

On the basis of the Grant Agreement, the appointment of:

- Project Technical Committee Members

6.3.2 Project Technical Committee (PTC)

In addition to the rules in Section 6.2, the following rules shall apply:

6.3.2.1 Members

The Project Technical Committee (PTC) shall consist of the Project Coordinator, and the Work Package and Task (sub-WP) Leaders of the project, who will be appointed by the Project Board.

The Project Coordinator shall chair all meetings of the PTC. In cases of unavailability of the Project Coordinator, he/she will appoint one of the Task Leaders to chair the PTC.

6.3.2.2 Minutes of meetings

Minutes of Project Technical Committee meetings, once accepted, shall be sent by the Coordinator to the Project Board for information.

6.3.2.3 Tasks

6.3.2.3.1 The Project Technical Committee shall be responsible for the proper execution and implementation of the decisions of the Project Board.

6.3.2.3.2 The Project Technical Committee shall monitor the effective and efficient implementation of the Project.

6.3.2.3.3 In addition, the Project Technical Committee shall collect information at least every 6 months on the progress of the Project, examine that information to assess the compliance of the Project with the Consortium Plan and, if necessary, propose modifications of the Consortium Plan to the Project Board.

6.3.2.3.4 The Project Technical Committee shall:

- support the Project Coordinator in preparing meetings with the Funding Authority and in preparing related data and deliverables.
- prepare the content and timing of press releases and joint publications by the consortium or proposed by the Funding Authority in respect of the procedures of the Grant Agreement Article 29.
- not take decisions outside the tasks stated in the present Section 6.3.2. Any decisions taken by the Project Technical Committee falling outside the scope of Section 6.3.2. are null and void.

6.3.2.3.5 In the case of abolished tasks as a result of a decision of the Project Board, the Project Technical Committee shall advise the Project Board on ways to rearrange tasks and budgets of the Parties concerned. Such rearrangement shall take into consideration the legitimate commitments taken prior to the decisions, which cannot be cancelled.

6.4 Coordinator

6.4.1 The Coordinator shall be the intermediary between the Parties and the Funding Authority and shall perform all tasks assigned to it as described in the Grant Agreement and in this Consortium Agreement.

6.4.2 In particular, the Coordinator shall be responsible for:

- monitoring compliance by the Parties with their obligations,
- keeping the address list of Members and other contact persons updated and available,
- collecting, reviewing to verify consistency and submitting reports, other deliverables (including financial statements and related certifications) and specific requested documents to the Funding Authority,
- transmitting documents and information connected with the Project to any other Parties concerned,
- administering the financial contribution of the Funding Authority and fulfilling the financial tasks described in Section 7.3,
- providing, upon request, the Parties with official copies or originals of documents that are in the sole possession of the Coordinator when such copies or originals are necessary for the Parties to present claims.
- arranging any necessary amendments, decided upon by the Project Board, to the Grant Agreement with the Funding Authority. Before sending any proposal for amendment to Grant Agreement to the EC on behalf of the Parties, the Coordinator will present the documents in question to the Parties and receive their explicit agreement, which shall not be unreasonably withheld. The terms and conditions of the signed documents are only binding for the Parties if their explicit acceptance have been given prior to the time of the signature.

If one or more of the Parties is late in submission of any project deliverable, the Coordinator may nevertheless submit the other 'Parties' project deliverables and all other documents required by the Grant Agreement to the Funding Authority in time.

6.4.3 If the Coordinator fails in its coordination tasks, the Project Board may propose to the Funding Authority to change the Coordinator.

6.4.4 The Coordinator shall not be entitled to act or to make legally binding declarations on behalf of any other Party or of the consortium, unless explicitly stated otherwise in the Grant Agreement or this Consortium Agreement.

6.4.5 The Coordinator shall not enlarge its role beyond the tasks specified in this Consortium Agreement and in the Grant Agreement.

6.5 External Advisory Panel (EAP)

An External Advisory Panel (EAP) will be appointed by the Project Board at the Kick-Off Meeting. The EAP shall assist and facilitate the decisions made by the Project Board. The

members of the EAP are required to sign a non-disclosure agreement no later than 30 days after their nomination or before any confidential information will be exchanged, whichever date is earlier. The EAP members will be invited annually to the Project Technical Committee (PTC) progress meeting, but have not any voting rights. The EAP members shall bring in external advice to stimulate the implementation progress of the project. They will be asked to review the progress reports of the PTC and to offer independent, impartial advice on potential areas for improvement. Furthermore, the EAP may be contacted any time by the Project Coordinator, should any unforeseen technical or programmatic issues arise that would benefit from the input of the EAP.

7 Section: Financial provisions

7.1 General Principles

7.1.1 Distribution of Financial Contribution

The financial contribution of the Funding Authority to the Project shall be distributed by the Coordinator according to:

- the Consortium Plan
- the approval of reports by the Funding Authority, and
- the provisions of payment in Section 7.3.

A Party shall be funded only for its tasks carried out in accordance with the Consortium Plan.

7.1.2 Justifying Costs

In accordance with its own usual accounting and management principles and practices, each Party shall be solely responsible for justifying its costs with respect to the Project towards the Funding Authority. Neither the Coordinator nor any of the other Parties shall be in any way liable or responsible for such justification of costs towards the Funding Authority.

7.1.3 Funding Principles

A Party that spends less than its allocated share of the budget as set out in the Consortium Plan or – in case of reimbursement via unit costs - implements less units than foreseen in the Consortium Plan will be funded in accordance with its actual duly justified eligible costs only.

A Party that spends more than its allocated share of the budget as set out in the Consortium Plan will be funded only in respect of duly justified eligible costs up to an amount not exceeding that share.

7.1.4 Return of excess payments; receipts

7.1.4.1 In any case of a Party having received excess payments, the Party has to return the relevant amount to the Coordinator without undue delay.

7.1.4.2 In case a Party earns any receipt that is deductible from the total funding as set out in the Consortium Plan, the deduction is only directed toward the Party earning such income. The other Parties' financial share of the budget shall not be affected by one Party's receipt. In case the relevant receipt is more than the allocated share of the Party as set out in the Consortium Plan, the Party shall reimburse the funding reduction suffered by other Parties.

7.1.5 Financial Consequences of the termination of the participation of a Party

A Party leaving the consortium shall refund all payments it has received except the amount of contribution accepted by the Funding Authority or another contributor. Furthermore a Defaulting Party shall, within the limits specified in Section 5.2 of this Consortium Agreement, bear any reasonable and justifiable additional costs occurring to the other Parties in order to perform its and their tasks.

7.2 Budgeting

The budget set out in the Consortium Plan shall be valued in accordance with the usual accounting and management principles and practices of the respective Parties.

7.3 Payments

7.3.1 Payments to Parties are the exclusive tasks of the Coordinator.

In particular, the Coordinator shall:

- notify the Party concerned promptly of the date and composition of the amount transferred to its bank account, giving the relevant references
- perform diligently its tasks in the proper administration of any funds and in maintaining financial accounts
- undertake to keep the Funding Authority's financial contribution to the Project separated from its normal business accounts, its own assets and property, except if the Coordinator is a Public Body or is not entitled to do so due to statutory legislation.
- With reference to Articles 21.2 and 21.3.2 of the Grant Agreement, no Party shall before the end of the Project receive more than its allocated share of the maximum grant amount from which the amounts retained by the Funding Authority for the Guarantee Fund and for the final payment have been deducted.

7.3.2 The payment schedule, which contains the transfer of pre-financing and interim payments to Parties, will be handled according to the following:

Funding of costs included in the Consortium Plan will be paid to Parties after receipt from the Funding Authority without undue delay and in conformity with the provisions of the Grant Agreement (Article 21). Costs accepted by the Funding Authority will be paid to the Party concerned.

The Coordinator is entitled to withhold any payments due to a Party identified by a responsible Consortium Body to be in breach of its obligations under this Consortium Agreement or the Grant Agreement or to a Beneficiary which has not yet signed this Consortium Agreement.

The Coordinator is entitled to recover any payments already paid to a Defaulting Party. The Coordinator is equally entitled to withhold payments to a Party when this is suggested by or agreed with the Funding Authority.

8 Section: Results

8.1 Ownership of Results

Results are owned by the Party that generates them.

8.2 Joint ownership

Joint ownership is governed by Grant Agreement Article 26.2 with the following additions:

Unless otherwise agreed:

- each of the joint owners shall be entitled to use their jointly owned Results for non-commercial research activities on a royalty-free basis, and without requiring the prior consent of the other joint owner(s), and
- each of the joint owners shall be entitled to otherwise exploit the jointly owned Results and to grant non-exclusive licenses to third parties (without any right to sub-license), if the other joint owners are given:
 - (a) at least 45 calendar days advance notice; and
 - (b) Fair and Reasonable compensation.

The joint owners shall agree on all protections measures and the division of related cost in advance.

8.3 Transfer of Results

- 8.3.1** Each Party may transfer ownership of its own Results following the procedures of the Grant Agreement Article 30.
- 8.3.2** It may identify specific third parties it intends to transfer the ownership of its Results to in Attachment (3) to this Consortium Agreement. The other Parties hereby waive their right to prior notice and their right to object to a transfer to listed third parties according to the Grant Agreement Article 30.1.
- 8.3.3** The transferring Party shall, however, at the time of the transfer, inform the other Parties of such transfer and shall ensure that the rights of the other Parties will not be affected by such transfer. Any addition to Attachment (3) after signature of this Agreement requires a decision of the Project Board.
- 8.3.4** The Parties recognize that in the framework of a merger or an acquisition of an important part of its assets, it may be impossible under applicable EU and national laws on mergers and acquisitions for a Party to give the full 45 calendar days prior notice for the transfer as foreseen in the Grant Agreement.
- 8.3.5** The obligations above apply only for as long as other Parties still have - or still may request - Access Rights to the Results.

8.4 Dissemination

8.4.1 For the avoidance of doubt, nothing in this Section 8.4 has impact on the confidentiality obligations set out in Section 10.

8.4.2 Dissemination of own Results

8.4.2.1 During the Project and for a period of 1 year after the end of the Project, the dissemination of own Results by one or several Parties including but not restricted to publications and presentations, shall be governed by the procedure of Article 29.1 of the Grant Agreement subject to the following provisions.

Prior notice of any planned publication shall be given to the other Parties at least 45 calendar days before the publication. Any objection to the planned publication shall be made in accordance with the Grant Agreement in writing to the Coordinator and to the Party or Parties proposing the dissemination within 30 calendar days after receipt of the notice. If no objection is made within the time limit stated above, the publication is permitted.

8.4.2.2 An objection is justified if:

- (a) the protection of the objecting Party's Results or Background would be adversely affected
- (b) the objecting Party's legitimate interests in relation to the Results or Background would be significantly harmed.

The objection has to include a precise request for necessary modifications.

8.4.2.3 If an objection has been raised the involved Parties shall discuss how to overcome the justified grounds for the objection on a timely basis (for example by amendment to the planned publication and/or by protecting information before publication) and the objecting Party shall not unreasonably continue the opposition if appropriate measures are taken following the discussion.

8.5 The objecting Party can request a publication delay of not more than 90 calendar days from the time it raises such an objection. After 90 calendar days the publication is permitted.

8.5.1 Dissemination of another Party's unpublished Results or Background

A Party shall not include in any dissemination activity another Party's Results or Background without obtaining the owning Party's prior written approval, unless they are already published.

8.5.2 Cooperation obligations

The Parties undertake to cooperate to allow the timely submission, examination, publication and defence of any dissertation or thesis for a degree that includes their Results or Background subject to the confidentiality and publication provisions agreed in this Consortium Agreement.

8.5.3 Use of names, logos or trademarks

Nothing in this Consortium Agreement shall be construed as conferring rights to use in advertising, publicity or otherwise the name of the Parties or any of their logos or trademarks without their prior written approval.

9 Section: Access Rights

9.1 Background included

- 9.1.1** In Attachment 1, the Parties have identified and agreed on the Background for the Project and have also, where relevant, informed each other that Access to specific Background is subject to legal restrictions or limits. Anything not identified in Attachment 1 shall not be the object of Access Right obligations regarding Background.
- 9.1.2** Any Party may add further own Background to Attachment 1 during the Project by written notice to the other Parties. However, approval of the Project Board is needed should a Party wish to modify or withdraw its Background in Attachment 1.

9.2 General Principles

- 9.2.1** Each Party shall implement its tasks in accordance with the Consortium Plan and shall bear sole responsibility for ensuring that its acts within the Project do not knowingly infringe third party property rights.
- 9.2.2** Any Access Rights granted expressly exclude any rights to sublicense unless expressly stated otherwise.
- 9.2.3** Access Rights shall be free of any administrative transfer costs.
- 9.2.4** Access Rights are granted on a non-exclusive basis.
- 9.2.5** Results and Background shall be used only for the purposes for which Access Rights to it have been granted.
- 9.2.6** All requests for Access Rights shall be made in writing. The granting of Access Rights may be made conditional on the acceptance of specific conditions aimed at ensuring that these rights will be used only for the intended purpose and that appropriate confidentiality obligations are in place.

The requesting Party must show that the Access Rights are Needed.

9.3 Access Rights for implementation

Access Rights to Results and Background Needed for the performance of the own work of a Party under the Project shall be granted on a royalty-free basis, unless otherwise agreed for Background in Attachment 1.

9.4 Access Rights for Exploitation

9.4.1 Access Rights to Results

Access Rights to Results if Needed for Exploitation of a Party's own Results shall be granted on Fair and Reasonable conditions. Access rights to Results for internal research activities shall be granted on a royalty-free basis.

9.4.2 Access Rights to Background if Needed for Exploitation of a Party's own Results, including for research on behalf of a third party, shall be granted on Fair and Reasonable conditions.

9.4.3 A request for Access Rights may be made up to six months after the end of the Project or, in the case of Section 9.7.2.1.2, after the termination of the requesting Party's participation in the Project.

9.5 Access Rights for Affiliated Entities

Affiliated Entities have Access Rights under the conditions of the Grant Agreement Articles 25.4 and 31.4. if they are identified in Attachment 4 (Identified Affiliated Entities) to this Consortium Agreement.

Such Access Rights must be requested by the Affiliated Entity from the Party that holds the Background or Results. Alternatively, the Party granting the Access Rights may individually agree with the Party requesting the Access Rights to have the Access Rights include the right to sublicense to the latter's Affiliated Entities listed in Attachment 4. Access Rights to Affiliated Entities shall be granted on Fair and Reasonable conditions and upon written bilateral agreement.

Affiliated Entities which obtain Access Rights in return fulfil all confidentiality and other obligations accepted by the Parties under the Grant Agreement or this Consortium Agreement as if such Affiliated Entities were Parties.

Access Rights may be refused to Affiliated Entities if such granting is contrary to the legitimate interests of the Party which owns the Background or the Results.

Access Rights granted to any Affiliated Entity are subject to the continuation of the Access Rights of the Party to which it is affiliated, and shall automatically terminate upon termination of the Access Rights granted to such Party.

Upon cessation of the status as an Affiliated Entity, any Access Rights granted to such former Affiliated Entity shall lapse.

Further arrangements with Affiliated Entities may be negotiated in separate agreements.

9.6 Additional Access Rights

For the avoidance of doubt any grant of Access Rights not covered by the Grant Agreement or this Consortium Agreement shall be at the absolute discretion of the owning Party and subject to such terms and conditions as may be agreed between the owning and receiving Parties.

9.7 Access Rights for Parties entering or leaving the consortium

9.7.1 New Parties entering the consortium

As regards Results developed before the accession of the new Party, the new Party will be granted Access Rights on the conditions applying for Access Rights to Background.

9.7.2 Parties leaving the consortium

9.7.2.1 Access Rights granted to a leaving Party

9.7.2.1.1 Defaulting Party

Access Rights granted to a Defaulting Party and such Party's right to request Access Rights shall cease immediately upon receipt by the Defaulting Party of the formal notice of the decision of the Project Board to terminate its participation in the consortium.

9.7.2.1.2 Non-defaulting Party

A non-defaulting Party leaving voluntarily and with the other Parties' consent shall have Access Rights to the Results developed until the date of the termination of its participation.

It may request Access Rights within the period of time specified in Section 9.4.3.

9.7.2.2 Access Rights to be granted by any leaving Party

Any Party leaving the Project shall continue to grant Access Rights pursuant to the Grant Agreement and this Consortium Agreement as if it had remained a Party for the whole duration of the Project.

9.8 Specific Provisions for Access Rights to Software

For the avoidance of doubt, the general provisions for Access Rights provided for in this Section 9 are applicable also to Software.

Parties' Access Rights to Software do not include any right to receive source code or object code ported to a certain hardware platform or any right to receive respective Software documentation in any particular form or detail, but only as available from the Party granting the Access Rights.

9.8.1 Definitions relating to Software

"Application Programming Interface" means the application programming interface materials and related documentation containing all data and information to allow skilled Software developers to create Software interfaces that interface or interact with other specified Software.

"Controlled Licence Terms" means terms in any licence that require that the use, copying, modification and/or distribution of Software or another work ("Work") and/or of any work that is a modified version of or is a derivative work of such Work (in each case, "Derivative Work") be subject, in whole or in part, to one or more of the following:

- a) (where the Work or Derivative Work is Software) that the Source Code or other formats preferred for modification be made available as of right to any third party on request, whether royalty-free or not;
- b) that permission to create modified versions or derivative works of the Work or Derivative Work be granted to any third party;
- c) that a royalty-free licence relating to the Work or Derivative Work be granted to any third party.

For the avoidance of doubt, any Software licence that merely permits (but does not require any of) the things mentioned in (a) to (c) is not a Controlled Licence (and so is an Uncontrolled Licence).

“Object Code” means software in machine-readable, compiled and/or executable form including, but not limited to, byte code form and in form of machine-readable libraries used for linking procedures and functions to other software.

“Software Documentation” means software information, being technical information used, or useful in, or relating to the design, development, use or maintenance of any version of a software programme.

“Source Code” means software in human readable form normally used to make modifications to it including, but not limited to, comments and procedural code such as job control language and scripts to control compilation and installation.

9.8.2 General principles

For the avoidance of doubt, the general provisions for Access Rights provided for in this Section 9 are applicable also to Software as far as not modified by this Section 9.8.

Parties' Access Rights to Software do not include any right to receive Source Code or Object Code ported to a certain hardware platform or any right to receive Source Code, Object Code or respective Software Documentation in any particular form or detail, but only as available from the Party granting the Access Rights.

The intended introduction of Intellectual Property (including, but not limited to Software) under Controlled Licence Terms in the Project requires the approval of the Project Board to implement such introduction into the Consortium Plan.

9.8.3 Access to Software

Access Rights to Software that is Results shall comprise:

Access to the Object Code; and, where normal use of such an Object Code requires an Application Programming Interface (hereafter API), Access to the Object Code and such an API; and, if a Party can show that the execution of its tasks under the Project or the Exploitation of its own Results is technically or legally impossible without Access to the Source Code, Access to the Source Code to the extent necessary.

Background shall only be provided in Object Code unless otherwise agreed between the Parties concerned.

9.8.4 Software licence and sublicensing rights

9.8.4.1 Object Code

9.8.4.1.1 Results - Rights of a Party

Where a Party has Access Rights to Object Code and/or API that is Results for Exploitation, such Access shall, in addition to the Access for Exploitation foreseen in Section 9.4, as far as Needed for the Exploitation of the Party's own Results, comprise the right:

- to make an unlimited number of copies of Object Code and API; and
- to distribute, make available, market, sell and offer for sale such Object Code and API alone or as part of or in connection with products or services of the Party having the Access Rights;

provided however that any product, process or service has been developed by the Party having the Access Rights in accordance with its rights to exploit Object Code and API for its own Results.

If it is intended to use the services of a third party for the purposes of this Section 9.8.4.1.1, the Parties concerned shall agree on the terms thereof with due observance of the interests of the Party granting the Access Rights as set out in Section 9.2 of this Consortium Agreement.

9.8.4.1.2 Results - Rights to grant sublicenses to end-users

In addition, Access Rights to Object Code shall, as far as Needed for the Exploitation of the Party's own Results, comprise the right to grant in the normal course of the relevant trade to end-user customers buying/using the product/services, a sublicense to the extent as necessary for the normal use of the relevant product or service to use the Object Code alone or as part of or in connection with or integrated into products and services of the Party having the Access Rights and, as far as technically essential:

- to maintain such product/service;
- to create for its own end-use interacting interoperable software in accordance with the Directive 2009/24/EC of the European Parliament and of the Council of 23 April 2009 on the legal protection of computer programs.

9.8.4.1.3 Background

For the avoidance of doubt, where a Party has Access Rights to Object Code and/or API that is Background for Exploitation, Access Rights exclude the right to sublicense. Such sublicensing rights may, however, be negotiated between the Parties.

9.8.4.2 Source Code

9.8.4.2.1 Results - Rights of a Party

Where, in accordance with Section 9.8.3, a Party has Access Rights to Source Code that is Results for Exploitation, Access Rights to such Source Code, as far as Needed for the Exploitation of the Party's own Results, shall comprise a worldwide right to use, to make copies, to modify, to develop, to adapt Source Code for research, to create/market a product/process and to create/provide a service.

If it is intended to use the services of a third party for the purposes of this Section 9.8.4.2.1, the Parties shall agree on the terms thereof, with due observance of the interests of the Party granting the Access Rights as set out in Section 9.2 of this Consortium Agreement.

9.8.4.2.2 Results – Rights to grant sublicenses to end-users

In addition, Access Rights, as far as Needed for the Exploitation of the Party's own Results, shall comprise the right to sublicense such Source Code, but solely for purpose of adaptation, error correction, maintenance and/or support of the Software. Further sublicensing of Source Code is explicitly excluded.

9.8.4.2.3 Background

For the avoidance of doubt, where a Party has Access Rights to Source Code that is Background for Exploitation, Access Rights exclude the right to sublicense. Such sublicensing rights may, however, be negotiated between the Parties.

9.8.5 Specific formalities

Each sublicense granted according to the provisions of Section 9.8.4 shall be made by a traceable agreement specifying and protecting the proprietary rights of the Party or Parties concerned.

10 Section: Non-disclosure of information

10.1 All information in whatever form or mode of communication, which is disclosed by a Party (the “Disclosing Party”) to any other Party (the “Recipient”) in connection with the Project during its implementation and which has been explicitly marked as “confidential” at the time of disclosure, or when disclosed orally has been identified as confidential at the time of disclosure and has been confirmed and designated in writing within 15 calendar days from oral disclosure at the latest as confidential information by the Disclosing Party, is “Confidential Information”.

10.2 The Recipients hereby undertake in addition and without prejudice to any commitment on non-disclosure under the Grant Agreement, for a period of 4 years after the end of the Project:

- Not to use Confidential Information otherwise than for the purpose for which it was disclosed;
- not to disclose Confidential Information without the prior written consent by the Disclosing Party;
- to ensure that internal distribution of Confidential Information by a Recipient shall take place on a strict need-to-know basis; and
- to return to the Disclosing Party, or destroy, on request all Confidential Information that has been disclosed to the Recipients including all copies thereof and to delete all information stored in a machine readable form to the extent practically possible. The Recipients may keep a copy to the extent it is required to keep, archive or store such Confidential Information because of compliance with applicable laws and regulations or for the proof of on-going obligations provided that the Recipient comply with the confidentiality obligations herein contained with respect to such copy for as long as the copy is retained.

10.3 The recipients shall be responsible for the fulfilment of the above obligations on the part of their employees or third parties involved in the Project and shall ensure that they remain so obliged, as far as legally possible, during and after the end of the Project and/or after the termination of the contractual relationship with the employee or third party.

10.4 The above shall not apply for disclosure or use of Confidential Information, if and in so far as the Recipient can show that:

- the Confidential Information has become or becomes publicly available by means other than a breach of the Recipient’s confidentiality obligations;
- the Disclosing Party subsequently informs the Recipient that the Confidential Information is no longer confidential;
- the Confidential Information is communicated to the Recipient without any obligation of confidentiality by a third party who is to the best knowledge of the Recipient in lawful possession thereof and under no obligation of confidentiality to the Disclosing Party;
- the disclosure or communication of the Confidential Information is foreseen by provisions of the Grant Agreement;
- the Confidential Information, at any time, was developed by the Recipient completely independently of any such disclosure by the Disclosing Party;
- the Confidential Information was already known to the Recipient prior to disclosure, or

- the Recipient is required to disclose the Confidential Information in order to comply with applicable laws or regulations or with a court or administrative order, subject to the provision Section 10.7 hereunder.

10.5 The Recipient shall apply the same degree of care with regard to the Confidential Information disclosed within the scope of the Project as with its own confidential and/or proprietary information, but in no case less than reasonable care.

10.6 Each Party shall promptly advise the other Party in writing of any unauthorized disclosure, misappropriation or misuse of Confidential Information after it becomes aware of such unauthorized disclosure, misappropriation or misuse.

10.7 If any Party becomes aware that it will be required, or is likely to be required, to disclose Confidential Information in order to comply with applicable laws or regulations or with a court or administrative order, it shall, to the extent it is lawfully able to do so, prior to any such disclosure

- notify the Disclosing Party, and
- comply with the Disclosing Party's reasonable instructions to protect the confidentiality of the information.

11 Section: Miscellaneous

11.1 Attachments, inconsistencies and severability

This Consortium Agreement consists of this core text and

Attachment 1 (Background included)

Attachment 2 (Accession document)

Attachment 3 (List of Third Parties for simplified transfer according to Section 8.3.2)

Attachment 4 (Identified Affiliated Entities)

In case the terms of this Consortium Agreement are in conflict with the terms of the Grant Agreement, the terms of the latter shall prevail. In case of conflicts between the attachments and the core text of this Consortium Agreement, the latter shall prevail.

Should any provision of this Consortium Agreement become invalid, illegal or unenforceable, it shall not affect the validity of the remaining provisions of this Consortium Agreement. In such a case, the Parties concerned shall be entitled to request that a valid and practicable provision be negotiated that fulfils the purpose of the original provision.

11.2 No representation, partnership or agency

Except as otherwise provided in Section 6.4.4, no Party shall be entitled to act or to make legally binding declarations on behalf of any other Party or of the consortium. Nothing in this Consortium Agreement shall be deemed to constitute a joint venture, agency, partnership, interest grouping or any other kind of formal business grouping or entity between the Parties.

11.3 Notices and other communication

Any notice to be given under this Consortium Agreement shall be in writing to the addresses and recipients as listed in the most current address list kept by the Coordinator.

Formal notices:

If it is required in this Consortium Agreement (Sections 4.2, 9.7.2.1.1, and 11.4) that a formal notice, consent or approval shall be given, such notice shall be signed by an authorized representative of a Party and shall either be served personally or sent by mail with recorded delivery or telefax with receipt acknowledgement.

Other communication:

Other communication between the Parties may also be effected by other means such as e-mail with acknowledgement of receipt, which fulfils the conditions of written form.

Any change of persons or contact details shall be notified immediately by the respective Party to the Coordinator. The address list shall be accessible to all Parties.

11.4 Assignment and amendments

Except as set out in Section 8.3, no rights or obligations of the Parties arising from this Consortium Agreement may be assigned or transferred, in whole or in part, to any third party without the other Parties' prior formal approval. Amendments and modifications to the text of this Consortium Agreement not explicitly listed in Section 6.3.1.2 (LP) require a separate written agreement to be approved and signed by the duly authorized signatories of all Parties.

11.5 Mandatory national law

Nothing in this Consortium Agreement shall be deemed to require a Party to breach any mandatory statutory law under which the Party is operating.

11.6 Language

This Consortium Agreement is drawn up in English, which language shall govern all documents, notices, meetings, arbitral proceedings and processes relative thereto.

11.7 Applicable law

This Consortium Agreement shall be construed in accordance with and governed by the laws of Belgium excluding its conflict of law provisions.

11.8 Settlement of disputes

The parties shall endeavour to settle their disputes amicably.

Any dispute, controversy or claim arising under, out of or relating to this contract and any subsequent amendments of this contract, including, without limitation, its formation, validity, binding effect, interpretation, performance, breach or termination, as well as non-contractual claims, shall be submitted to mediation in accordance with the WIPO Mediation Rules. The place of arbitration mediation shall be Brussels if not otherwise agreed by the conflicting Parties.

The language to be used in the arbitral mediation proceedings shall be English unless otherwise agreed upon.

If, and to the extent that, any such dispute, controversy or claim has not been settled pursuant to the mediation within 60 calendar days of the commencement of the mediation, the courts of Brussels shall have exclusive jurisdiction.

12 Section Signatures

AS WITNESS:

The Parties have caused this Consortium Agreement to be duly signed by the undersigned authorized representatives in separate signature pages the day and year first above written.

Done in one original copy, which shall be kept by the coordinator

Ethniko kai Kapodistriako Panepistimio Athinon - National and Kapodistrian University of Athens (NKUA)

Date:

Name of legally authorised representative:

Prof. Nikolaos Voulgaris

Role of legally authorised representative in organization:

Vice Rector of Research and Lifelong Learning

Signature of legally authorised representative:

Stamp of the organization

Signature for approval: **Prof. Ioannis A. Daglis**

Done in one original copy, which shall be kept by the coordinator

Office National d'Etudes et de Recherches Aérospatiales

Date:

Name(s) of legally authorised representative(s):

Roles(s) of legally authorised representative(s) in organization:

Signature(s) of legally authorised representative(s):

Stamp of the organization

Done in one original copy, which shall be kept by the coordinator

Katholieke Universiteit Leuven

Date:

Names and roles of legally authorised representatives:

Dr. Elke Lammertyn
Head of European and International Projects

Paul Van Dun
General Manager

Signatures of legally authorised representatives:

Stamp of the organization

Signature for approval: **Prof. Stefaan Poedts**

Done in one original copy, which shall be kept by the coordinator

Ustav Fyziky Atmosfery AV CR, v.v.i.

Date: 11.11.2019

Name of legally authorised representative: Zbyněk Sokol

Roles of legally authorised representative in organization: director

Signature of legally authorised representative:

Stamp of the organization

Done in one original copy, which shall be kept by the coordinator

Institut royal d'Aéronomie Spatiale de Belgique

Date:

Name of legally authorised representative:

Martine De Mazière

Role of legally authorised representative in organization:

General Director a.i.

Signature of legally authorised representative:

Stamp of the organization

Done in one original copy, which shall be kept by the coordinator

Thales Alenia Space España

Date:

Name(s) of legally authorised representative(s):

Roles(s) of legally authorised representative(s) in organization:

Signature(s) of legally authorised representative(s):

Stamp of the organization

Done in one original copy, which shall be kept by the coordinator

Centre National de la Recherche Scientifique

Date:

Name(s) of legally authorised representative(s):

Roles(s) of legally authorised representative(s) in organization:

Signature(s) of legally authorised representative(s):

Stamp of the organization

Done in one original copy, which shall be kept by the coordinator

Sandberg & Co Private Company

Date:

Name(s) of legally authorised representative(s):

Roles(s) of legally authorised representative(s) in organization:

Signature(s) of legally authorised representative(s):

Stamp of the organization

Attachment 1: Background included

According to the Grant Agreement (Article 24) Background is defined as “data, know-how or information (...) that is needed to implement the action or exploit the results”. Because of this need, Access Rights have to be granted in principle, but Parties must identify and agree amongst them on the Background for the project. This is the purpose of this attachment. Any Party may add further own Background to Attachment 1 during the Project by written notice to the other Parties. However, approval of the Project Board will be required.

PARTY 1

As to **NKUA**, it is agreed between the Parties that, to the best of their knowledge no data, know-how or information of NKUA shall be needed by another Party for implementation of the Project (Article 25.2 Grant Agreement) or Exploitation of that other Party's Results (Article 25.3 Grant Agreement).

This represents the status at the time of signature of this Consortium Agreement.

PARTY 2

As to **ONERA**, it is agreed between the Parties that, to the best of their knowledge, the following background is hereby identified and agreed upon for the Project. Specific limitations and/or conditions shall be as mentioned hereunder:

Describe Background	Specific limitations and/or conditions for implementation (Article 25.2 Grant Agreement)	Specific limitations and/or conditions for Exploitation (Article 25.3 Grant Agreement)
Salammbô and Salammbô_EnKF	Source codes as well as executables belongs to ONERA and will not be delivered.	The code will be implemented on an ONERA computer. It will be accessible to the consortium first and to the public once validated via a dedicated web page for use in the prototyping activity.
WAPI	The WAPI code belongs to ONERA and is only available at ONERA and IAP. The source code will not be delivered.	The code can be run at ONERA and IAP for the current study.
IPODE database	The IPODE database belongs to ONERA and will not be delivered.	The IPODE data will be used by the Salammbô EnKF tool. These data can be plotted using the existing IPSAT dedicated web page.
Neural network to predict Kp from solar wind data	The neural network was developed part of a phd thesis and belongs to ONERA. Source codes will not be delivered	The code will be implemented on an ONERA computer. It will be accessible to the consortium first and to the public once validated via a dedicated web page for use in the prototyping activity.

PARTY 3

As to **KULeuven**, it is agreed between the Parties that, to the best of their knowledge no data, know-how or information of KULeuven shall be needed by another Party for implementation of the Project (Article 25.2 Grant Agreement) or Exploitation of that other Party's Results (Article 25.3 Grant Agreement).

This represents the status at the time of signature of this Consortium Agreement.

PARTY 4

As to **IAP**, it is agreed between the Parties that, to the best of their knowledge no data, know-how or information of IAP shall be needed by another Party for implementation of the Project (Article 25.2 Grant Agreement) or Exploitation of that other Party's Results (Article 25.3 Grant Agreement).

This represents the status at the time of signature of this Consortium Agreement.

PARTY 5

As to **IASB**, it is agreed between the Parties that, to the best of their knowledge the following background is hereby identified and agreed upon for the Project. Specific limitations and/or conditions shall be as mentioned hereunder:

Describe Background	Specific limitations and/or conditions for implementation (Article 25.2 Grant Agreement)	Specific limitations and/or conditions for Exploitation (Article 25.3 Grant Agreement)
<p>The 3D dynamic model of the plasmasphere is a semi-empirical model developed by the Solar Wind Division of the Royal Belgian Institute for Space Aeronomy. Based on physical mechanisms for plasmopause formation and trajectories of particles trapped in the Earth's magnetic field, it provides the number density and the temperature of the electrons and protons inside and outside the plasmasphere, as well as the position of the plasmopause, as a function of the geomagnetic activity driven by the index Kp. During geomagnetic storms the plasmasphere is eroded and structures like plasma plumes and channels can appear. During quiet times the ionosphere refills the plasmasphere. Dynamic animations show the time evolution of the</p>	<p>The plasmasphere code developed at IASB will be used in its version 2019.1 in the frame of this project. The Property Rights of this original code (version 2019.1) are and will remain to IASB.</p> <p>The plasmasphere code will be modified according to the objectives of the project, and a new version will be build: The physics-based 3D dynamic model will be used to improve and complete the statistical model based on observations and vice-versa; the dynamic model will be further enhanced by the additional functionality to deliver plasma density predictions, through the use of geomagnetic activity indices predicted by WP2.4 on the basis of solar observations propagated to the magnetosphere.</p>	<p>For any use of the code, please acknowledge IASB and refer to those publications: Pierrard and Stegen [2008]; Pierrard and Voiculescu [2011].</p> <p>No modifications or distributions of the code will be possible after the end of the project.</p>

<p>plasmasphere. The model is coupled to the International Reference Ionosphere (IRI) model to determine the number density and temperatures of the particles between 60 and 2000 km of altitude.</p>	<p>This work will be done by scientists of IASB with modification of only certain parts of the code. This new version will be made available to all members of the consortium but only during the duration of the project, to be implemented in the final code of the project. This implementation (mainly the creation of the interface between this code and the general final code) will be done by members of the consortium under the supervision of scientists of IASB.</p>	
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This represents the status at the time of signature of this Consortium Agreement.

PARTY 6

As to **TAS-E**, it is agreed between the Parties that, to the best of their knowledge No data, know-how or information of TAS-E shall be Needed by another Party for implementation of the Project (Article 25.2 Grant Agreement) or Exploitation of that other Party's Results (Article 25.3 Grant Agreement).

This represents the status at the time of signature of this Consortium Agreement.

PARTY 7

As to **CNRS**, it is agreed between the Parties that, to the best of their knowledge, the following background is hereby identified and agreed upon for the Project. Specific limitations and/or conditions, shall be as mentioned hereunder:

Access to Background where Needed as set out in this agreement is strictly limited to existing know-how in the research field defined in the project. Participants of the IRAP (UMR 5277 of CNRS) will give access to the Multi-VP model, as well as to the tools attached to the CDPP and STORMS, and consisting of:

- 3DView <http://3dview.cdpp.eu> - property of CNES.
- AMDA <http://amda.cdpp.eu>
- Propagation Tool <http://propagationtool.cdpp.eu> - property of CNES
- SpaceWeather Tool <http://spacewethertool.cdpp.eu> - property of CNES

This represents the status at the time of signature of this Consortium Agreement.

PARTY 8

As to **SPARC**, it is agreed between the Parties that, to the best of their knowledge no data, know-how or information of SPARC shall be needed by another Party for implementation of the Project (Article 25.2 Grant Agreement) or Exploitation of that other Party's Results (Article 25.3 Grant Agreement).

This represents the status at the time of signature of this Consortium Agreement.

Attachment 2: Accession document

-None at time of creation-

of a new Party to

SafeSpace Consortium Agreement, version [..., YYYY-MM-DD]

[OFFICIAL NAME OF THE NEW PARTY AS IDENTIFIED IN THE Grant Agreement]

hereby consents to become a Party to the Consortium Agreement identified above and accepts all the rights and obligations of a Party starting [date].

[OFFICIAL NAME OF THE COORDINATOR AS IDENTIFIED IN THE Grant Agreement]

hereby certifies that the consortium has accepted in the meeting held on [date] the accession of [the name of the new Party] to the consortium starting [date].

This Accession document has been done in 2 originals to be duly signed by the undersigned authorized representatives.

[Date and Place]

[INSERT NAME OF THE NEW PARTY]

Signature(s)

Name(s)

Title(s)

[Date and Place]

[INSERT NAME OF THE COORDINATOR]

Signature(s)

Name(s)

Title(s)

Attachment 3: List of Third Parties for simplified transfer according to Section 8.3.2

-None at time of creation-

Attachment 4: Identified Affiliated Entities according to Section 9.5

-None at time of creation-