European Commission

COMPET-1
TOPIC BRIEFING PRIOR TO THE REMOTE EVALUATION

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Purpose

- To ensure **common understanding** of the WP's key elements in order to guarantee a **single and harmonized approach** in the evaluation, including what is addressed under which sub-criterion

- To **review the evaluation criteria** and provide **guidelines for the interpretation**

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General Info

Neutral Process

- During the briefing and remote evaluation, all evaluators must remain **anonymous** in order to avoid any bias
    - Evaluators are **invited to ask questions** during the briefing session at (REA-SPACE-WEB-STREAMING@ec.europa.eu). Please specify Call and Action number
- An **independent observer** is attending the topic briefing to monitor the process
- The topic briefing is **recorded** and available after the session for 1-2 weeks
- The slides and the FAQs will also be available at the Space 2017 Evaluation website at https://ec.europa.eu/info/h2020-compet-eo-2017-space-research_en

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COMPET-1

- The focus is on developing **technologies for European non-dependence and competitiveness**
  - European non-dependence refers to the possibility for Europe to have free and unrestricted access to any required space technology
- COMPET-1 was defined on the basis of the EC-ESA-EDA JTF list (reference document of the call)

  ✓ *U09 – Cost effective multi - junction solar cells for space applications*
  ✓ *U16 – Space qualified GaN components and demonstrators*
  ✓ *U17 – High density (up to 1000 pins and beyond) assemblies on PCB and PCBs*
  ✓ *U21 – Very high speed serial interfaces*
  ✓ *U23 – Development of large deployable structures for antennas*
  ✓ *U26 – Space qualified carbon fibre and pre-impregnated material sources for launchers and satellite*

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Individual Evaluation Report

+ Criterion 1 - Excellence

Current score: - / 5.0 ; Threshold 3; Priority 2

+ Criterion 2 - Impact

Current score: - / 5.0 ; Threshold 3; Priority 1

+ Criterion 3 - Quality and efficiency of the implementation

Current score: - / 5.0 ; Threshold 3; Priority 3

+ Scope of the proposal

Current status:

+ Operational Capacity

Current status:

+ Exceptional funding of third country participants/international organisations

+ Use of human embryonic stem cells (hESC)

Current status:

+ Overall comments

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Link between WP topics, proposal text and evaluation template

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WP Topics

- Specific challenge
- Scope
- Expected Impact

Proposal Part B

1. Excellence

1.1 Objectives
1.2 Relation to the work programme
1.3 Concept and methodology
1.4 Ambition

2. Impact

2.1 Expected impacts
2.2 Measures to maximise impact
a) Dissemination and exploitation of results
b) Communication activities

3. Implementation

3.1 Work plan, Work packages, deliverables
3.2 Management structure, milestones and procedures
3.3 Consortium as a whole
3.4 Resources to be committed

4. Members of the consortium

4.1. Participants (applicants)
4.2. Third parties involved in the project (including use of third party resources)

5. Ethics and Security

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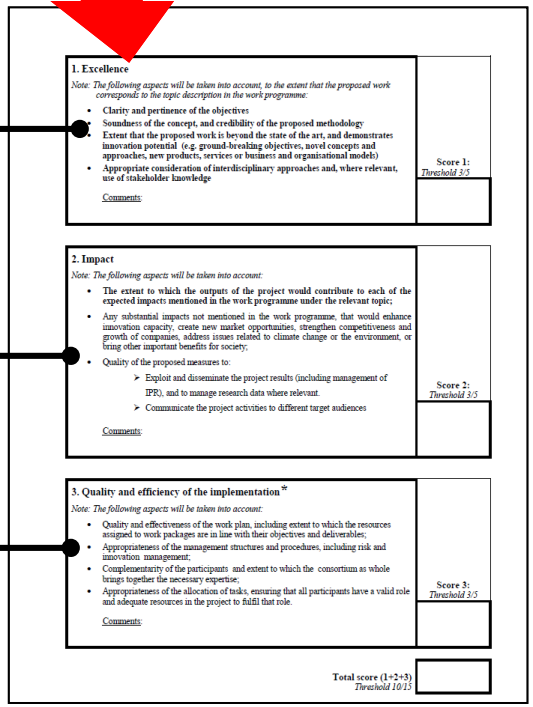
Evaluation template



1. Excellence

Note: The following aspects will be taken into account, to the extent that the proposed work corresponds to the topic description in the work programme:

- Clarity and pertinence of the objectives
- Soundness of the concept, and credibility of the proposed methodology
- Extent that the proposed work is beyond the state of the art, and demonstrates innovation potential (e.g. ground-breaking objectives, novel concepts and approaches, new products, services or business and organisational models)
- Appropriate consideration of interdisciplinary approaches and, where relevant, use of stakeholder knowledge

Comments:

Score 1: *Threshold 3/5*

2. Impact

Note: The following aspects will be taken into account:

- The extent to which the outputs of the project would contribute to each of the expected impacts mentioned in the work programme under the relevant topic;
- Any substantial impacts not mentioned in the work programme, that would enhance innovation capacity, create new market opportunities, strengthen competitiveness and growth of companies, address issues related to climate change or the environment, or bring other important benefits for society;
- Quality of the proposed measures to:
  - Exploit and disseminate the project results (including management of IPR), and to manage research data where relevant
  - Communicate the project activities to different target audiences

Comments:

Score 2: *Threshold 3/5*

3. Quality and efficiency of the implementation*

Note: The following aspects will be taken into account:

- Quality and effectiveness of the work plan, including extent to which the resources assigned to work packages are in line with their objectives and deliverables;
- Appropriateness of the management structures and procedures, including risk and innovation management;
- Complementarity of the participants and extent to which the consortium as whole brings together the necessary expertise;
- Appropriateness of the allocation of tasks, ensuring that all participants have a valid role and adequate resources in the project to fulfil that role.

Comments:

Score 3: *Threshold 3/5*

Total score (1+2+3) *Threshold 10/15*

CRITERIA DESCRIPTION vs. COMPET-1 text

EXCELLENCE

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*1.1. Clarity and pertinence of the **objectives***

Activities shall address technologies identified on the list of Actions for 2015/2017 *Critical Space Technologies for European Strategic Non-Dependence – Actions for 2015/2017"* (*http://ec.europa.eu/growth/sectors/space/research/horizon-2020*)

- U09 – Cost effective multi - junction solar cells for space applications
- U16 – Space qualified GaN components and demonstrators
- U17 – High density (up to 1000 pins and beyond) assemblies on PCB and PCBs
- U21 – Very high speed serial interfaces
- U23 – Development of large deployable structures for antennas
- U26 – Space qualified carbon fibre and pre-impregnated material sources for launchers and satellite subsystems

*1.2. Soundness of the **concept**, and credibility of the proposed **methodology***

The soundness of the concept and methodology will be evaluated based logical argumentation given by the proposal

*1.3. Extent that the proposed work is beyond the **state of the art**, and demonstrates **innovation potential** (e.g. ground-breaking objectives, novel concepts and approaches, new products, services or business and organisational models)*

…go **beyond the present state-of-the-art** or, preferably, the expected state of the art at the time of completion if alternative technologies are being developed outside Europe.

*1.4. Appropriate consideration of **interdisciplinary** approaches and, where relevant, use of **stakeholder knowledge***

Technological spin in and/or bilateral collaborations should be enhanced between **European non-space and space industries** and proposals are expected to provide advanced critical technologies that are of common interest to different space application domains (e.g. telecom, Earth observation, science, etc.), or even with applicability to terrestrial domains.

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CRITERIA DESCRIPTION vs. COMPET-1 text

IMPACT

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*2.1. The extent to which the outputs of the project would contribute to each of the expected impacts mentioned in the **work programme** under the relevant topic*

- **Reduce the dependence on critical technologies** and capabilities from outside Europe for future space applications …

… by developing in a timely manner **reliable and affordable space technologies** that in some cases may already exist outside Europe or in European terrestrial applications;

- **Enhance the technical capabilities and overall competitiveness** of European space industry satellite vendors on the worldwide market;
- **Open new competition opportunities for European manufacturers** …
- Enable the European industry to **get non-restricted access to high performance technologies** …
- **Improve** the overall EU **space technology landscape** and **complement activities at national level**
- **Greater industrial relevance** of research actions by **deeper involvement of industry and SMEs**
- Fostering link between academia and industry, accelerating technology transfer (if relevant, depending on the TRL level)

*2.2. Quality of the proposed measures to **exploit and disseminate** the project results (including management of IPR), and to manage research data where relevant and to **communicate the project activities** to different target audiences*

Proposals should include **a work package dedicated to the development of a commercial evaluation of the technology**, and should address how to **access the commercial market with a full range (preload) of recurring products**.

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CRITERIA DESCRIPTION vs. proposal

IMPLEMENTATION

PROPOSAL PART B – 3. IMPLEMENTATION

3.1 Work plan — Work packages, deliverables
- **overall structure** of the work plan
- timing of the different work packages **Gantt chart**
- detailed work description (**WP, deliverables,** etc..)
- Pert chart or similar (**inter-relation of the WPs**)

3.2 Management structure, milestones and procedures
- **organisational structure** and the **decision-making mechanisms** + why they are appropriate to the complexity and scale of the project.
- where relevant, **innovation management**
- Describe **any critical risks**, relating to project implementation + **mitigation measures**

3.3 Consortium as a whole
- Describe the **consortium**
- Describe the **contribution of each partner**
- If a participant requesting EU funding is based in a country or is an international organisation that is not automatically eligible for funding, **explain why the participation of the entity in question is essential to carrying out the project**

3.4 Resources to be committed
- table showing number of person/months required
- table showing '**other direct costs**' for participants where those costs **exceed 15% of the personnel costs**

Crt 3.1 *Quality and effectiveness of the* ***work plan****, including extent to which* ***resources assigned in work packages*** *are in line with objectives/ deliverables*

Crt 3.2 - *Appropriateness of* ***management structure****s and procedures, including* ***risk*** *and* ***innovation management***

Crt 3.3 - *Complementarity of the participants which the* ***consortium*** *as a whole brings together the necessary expertise*

Crt 3.4 - *Appropriateness of allocation of tasks, ensuring that all participants have a* ***valid role*** *and* ***adequate resources*** *in the project to fulfil that role*

Carefully assess very high other direct costs!

Innovation in the Evaluation criteria

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1. Excellence *Note: The following aspects will be taken into account, to the extent that the proposed work corresponds to the topic description in the work programme:* • **Clarity and pertinence of the objectives** • **Soundness of the concept, and credibility of the proposed methodology** • **Extent that the proposed work is beyond the state of the art, and demonstrates innovation potential (e.g. ground-breaking objectives, novel concepts and approaches, new products, services or business and organisational models)** • **Appropriate consideration of interdisciplinary approaches and, where relevant, use of stakeholder knowledge** Comments:	**Score 1:** *Threshold 3/5*
2. Impact *Note: The following aspects will be taken into account:* • **The extent to which the outputs of the project would contribute to each of the expected impacts mentioned in the work programme under the relevant topic;** • Any substantial impacts not mentioned in the work programme, that would enhance innovation capacity, create new market opportunities, strengthen competitiveness and growth of companies, address issues related to climate change or the environment, or bring other important benefits for society; • Quality of the proposed measures to: ➢ Exploit and disseminate the project results (including management of IPR), and to manage research data where relevant. ➢ Communicate the project activities to different target audiences Comments:	**Score 2:** *Threshold 3/5*
3. Quality and efficiency of the implementation* *Note: The following aspects will be taken into account:* • Quality and effectiveness of the work plan, including extent to which the resources assigned to work packages are in line with their objectives and deliverables; • Appropriateness of the management structures and procedures, including risk and innovation management; • Complementarity of the participants and extent to which the consortium as whole brings together the necessary expertise; • Appropriateness of the allocation of tasks, ensuring that all participants have a valid role and adequate resources in the project to fulfil that role. Comments:	**Score 3:** *Threshold 3/5*
	Total score (1+2+3) *Threshold 10/15*

Innovation potential : (e.g. ground-breaking objectives, novel concepts and approaches, **new products, new business…**).

Enhancing innovation capacity : (Any substantial impacts not mentioned in the WP, that would enhance innovation capacity; create new market opportunities, strengthen competitiveness and growth of companies, ..)

Innovation management = is a **process** which requires an understanding of both market and technical problems, with a goal of successfully transfer the innovations developed.

- *Is innovation management clearly assigned?*
- *How will innovation management be taken care of?*

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TRL remarks

- The Space WP is based on the Technology Readiness Level (TRL) definition given by **ISO:16290:2013**
  - *It is important to refer to this standard in order to assess the proposals against the TRL expectations (given by the reference JTF document 2015-2017)*

- The **start and final TRL** should be *clearly identified* by the proposal and *proper justification* should be given

- The development actions for which the **TRL expectation cover a large span**:
  - The EC does not expect the proposals to cover the whole TRL range, unless it is demonstrated to be feasible
  - Applicants could propose initial and final TRL levels and explain their rationale in the light of the state of the art in the specific technology
  - The proposals should target *achievable* TRL levels in terms of the requested project duration and budget and be convincing in terms of work plan

Process Reminders

- Evaluators: It is important to **accept** the proposals assigned in SEP **immediately** (e.g. by today)
    - In case of non-acceptance provide a justification (e.g. CoI)
- **Complete** the Remote Evaluation **on time**, April 21st
    - Necessary to allow the rapporteur to prepare a draft consensus report (CR) prior to the consensus meeting
- The draft CR will be available in the system a few days before the consensus meeting
    - It is encouraged to **read the draft CR prior to the meeting** to prepare for the consensus discussion

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Thank you

In case of questions or problems
during the individual evaluation,
do not hesitate to contact
the topic coordinator

(for technical issues: IT Helpdesk)

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