
HORIZON 2020 NMBP PROGRAMME

2020 CALLS AND PRACTICAL INFORMATIONS

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Budapest, 05/03/2020

MOMENTUM OF INNOVATION



NATIONAL RESEARCH, DEVELOPMENT
AND INNOVATION OFFICE
HUNGARY

NEW

INFRA01 **SEARCH**

Match whole words only

GRANTS TENDERS

Filter by submission status

FORTHCOMING OPEN CLOSED

Filter by programme (only for grants)

Select a Programme...

SELECT PROGRAMME

Funding and tenders

Sort by: opening date

1 results



Download all funding and tender opportunities to your calendar or subscribe

See all calls for tenders published by EC

Grant

~~Prevention, detection, response and mitigation of~~
INFRA01-2018-2019-2020

Types of action: Innovation action | Programme: Horizon 2020

Forthcoming

TOPIC

NEW

Oct 27, 2017

Human factors, and social, societal, and organisational aspects of border and exte

ID: SU-BES01-2018-2019-2020

TOPIC NAME and CODE

Focus area: Boosting the effectiveness of the Security Union (SU)

Type of action:

RIA Research and Innovation action

Deadline Model : single-stage

Planned opening date: 14 March 2019

OPENING DATE AND DEADLINE

Topic Updates

UPDATES
(pls. check!)

[Topic description](#)

[Conditions and documents](#)

[Partner Search](#)

[Submission service](#)

[Get support](#)

[Call information](#)

Topic Description

WP TOPIC
DESCRIPTION

Specific Challenge:

Border and external security may depend on a variety of human factors, and s media impact border control are required. One main challenge is to manage th technology or organisational measure will need to be accepted by the Europea Union citizens and their family members, independently of their nationality).

Scope:

Topic conditions and documents

CONDITIONS
& DOCS

1. Eligible countries: described in Annex A of the Work Programme.

PARTNER SEARCH TOOL



European Commission

How to create your proposal and submit

3: Create Draft

4: Parties

START SUBMISSION PROCESS

DOWNLOAD TEMPLATES

ENTER COO

ENTER ACRONYM

ADD PARTNERS

EDIT PART A

UPLOAD PART B

FILL IN FORMS FOR PART A

REEDIT

DOWNLOAD

WITHDRAW

5: Edit Proposal

5: Edit Proposal

6: Submit

A. List of countries eligible for funding

1- the 27 MS

2- the 16 Countries Associated to Horizon 2020 (As of 1 January 2017):

- Iceland
- Norway
- Albania
- Bosnia and Herzegovina
- North Macedonia
- Montenegro
- Serbia
- Turkey
- Israel
- Moldova
- Switzerland
- Faroe Islands
- Ukraine (except Autonomous Republic of Crimea or the city of Sevastopol)
- Tunisia
- Georgia
- Armenia

Latest Update on Associated Countries:

https://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/3cpart/h2020-hi-list-ac_en.pdf

General Annexes – A (2.)

- 3- List of **third countries** as in Annex A.
- 4- **International European interest organisations** (the majority of whose members are MS or AC, and whose principal objective is to promote scientific and technological cooperation in Europe)
- 5- Legal entities established in countries not listed above will be eligible for funding **when such funding is explicitly foreseen in the call.**
- 6- **In addition, legal entities established in countries not listed in Annex A and international organisations (IOs) will be eligible for funding:**
 - ✓ When funding for such participants is provided for under a **bilateral scientific and technological agreement** or any other arrangement between the EU and an international organisation or a third country;
 - ✓ When the Commission deems participation of the entity **essential for carrying out the action** funded through Horizon 2020 (**outstanding competence and expertise, access to unique know-how, access to research infrastructures**, access to geographical environments, involving key partners in emerging markets, access to data, etc.)

H2020 General Annexes - B

B. Standard admissibility conditions and related requirements

- **Submitted electronically** in the system
- **Readable, accessible and printable**
- **Complete**
- **Draft plan for exploitation and dissemination**
- **Page limits**
 - **part B.1-3 only** (no restriction on part B.4-6)
 - Limit: default **70** pages IA/RIA, **50** for CSAs; all pages above blank
- **Supporting Docs for operational capacity assessment:**
 - **CVs** of responsible / key persons
 - **~5 relevant publications / products / services**
 - **Description of infrastructure / equipment** (if relevant)
 - **Possible 3rd party involvement**



General Annexes - C

Standard eligibility criteria

- Minimum number of partners as set out in the call conditions
- Be in scope
- **Other criteria** may apply on a call-by-call basis as set out in the call conditions

Coordination and Support Action (CSA): -> Up to 100% of eligible costs

- Eligibility criteria: 1 legal entity established in a MS or AC

Research and Innovation Action (RIA):

- Up to 100% of eligible costs
- Eligibility criteria: 3 independent legal entities, each established in a different MS or AC (**cross-check w/ possible add. conditions**)

Innovation Action (IA):

- Up to 70% of eligible costs (exception: for non-profit LEs up to 100%)
- Eligibility criteria: 3 independent legal entities, each established in a different MS or AC (**cross-check w/ possible add. conditions**)

Research and Innovation Action (RIA)

Action primarily consisting of activities to establish new knowledge and/or explore feasibility of new or improved technology, product, process, service or solution

- May include basic and applied research, technology development and integration, testing and validation on small-scale prototype in laboratory or simulated environment
- Projects may contain closely connected but *limited demonstration or pilot activities* to show technical feasibility in a near to operational environment
- TRL \approx 4-6 (if not indicated otherwise in the WP)

Innovation Action (IA)

Action primarily consisting of activities that produce plans and arrangements or designs for new, altered or improved products, processes or services

- May include prototyping, testing, demonstrating, piloting, large-scale product validation and market replication
- Aim to validate the technical and economic viability in a (near) operational environment and/or support the first application / deployment in the market of an innovation that has already been demonstrated but not yet applied/deployed in the market due to market failures/barriers to uptake
- Projects may include *limited* research and development activities
- TRL \approx 6-8 (if not indicated otherwise in the WP)



Coordination and Support Action (CSA)

Actions consisting primarily of accompanying measures such as

- standardisation, dissemination, awareness-raising and communication, **networking, coordination or support services**, policy dialogues and mutual learning exercises and studies, including design studies for new infrastructure
- may also include complementary activities of strategic planning, networking and coordination between programmes in different countries



H2020 General Annexes – G.

Technology Readiness Levels (TRL)

Where a topic description refers to a TRL, the following definitions apply, unless otherwise specified:

- ✓ TRL 1 – basic principles observed
- ✓ TRL 2 – technology concept formulated
- ✓ TRL 3 – experimental proof of concept
- ✓ TRL 4 – technology validated in lab
- ✓ TRL 5 – technology validated in relevant environment (industrially relevant environment in the case of key enabling technologies)
- ✓ TRL 6 – technology demonstrated in relevant environment (industrially relevant environment in the case of key enabling technologies)
- ✓ TRL 7 – system prototype demonstration in operational environment
- ✓ TRL 8 – system complete and qualified
- ✓ TRL 9 – actual system proven in operational environment (competitive manufacturing in the case of key enabling technologies; or in space)

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Work Programme Features 2020 – Cross-Cutting Issues

- **Social Sciences and Humanities (SSH)** are integrated across all Horizon 2020 activities to successfully address European challenges
- **Gender dimension in the content of R&I** - a question on the relevance of sex/gender analysis is included in proposal templates
- The new strategic approach to **international cooperation** consists of a general opening of the WP and targeted activities across all relevant Horizon 2020 parts



H2020 NMBP - Brexit

The UK government is committed to ensuring that UK and EU researchers, universities and businesses will be able to continue to collaborate after EU exit.

The (UK) government's priority to ensure that UK entities' right to participate in Horizon 2020 would be unaffected by the UK's withdrawal from the EU for the lifetime of projects financed by the current MFF.

- Existing projects will continue to receive an uninterrupted flow of EU funding for the lifetime of the project.
- UK participants will be eligible to bid for Horizon 2020 funding for the duration of the programme, including after the UK's withdrawal from the EU.
- Full UK participation in Horizon 2020 for the lifetime of projects, which includes participating in and coordinating consortia.
- Full UK participation in Horizon 2020 for the lifetime of projects, which includes individual grants.
- Existing projects will continue to receive an uninterrupted flow of EU funding for the lifetime of the project. This includes funding for FP7 participants.
- On 24 July 2018, the UK Government announced that it would extend the guarantee to cover UK participants' funding in all Horizon 2020 calls open to third country participants from the date of exit. The guarantee would cover the lifetime of their projects, even if they last beyond 2020.
- In a 'no deal' scenario, UK researchers and businesses would still be able to apply to and (continue to) participate in all those Horizon 2020 calls open to third country participants from the date of exit.
-
- **Published NMBP calls are open to third country participants.**

H2020 Evaluation Rules

- Selection Criteria
 - Financial Capacity (e.g. on-line self-assessment) – typically at grant preparation
 - Operational Capacity – during evaluation
- Award Criteria
 - Excellence Criterion
 - Impact Criterion
 - Quality and efficiency of the Implementation
 - **Mirrored in the structure of part B1-3 of the proposal**
- Exact sub-criteria dependent on Type of Action (ToA)



H2020 Evaluation Criteria - RIA/IA (Excellence)

- (to the extent that the proposal addresses the WP topic)
- 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.

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H2020 Evaluation Criteria – RIA/IA (Impact)

- 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

H2020 Evaluation Criteria – RIA/IA (Implementation)

- **Quality and efficiency of the implementation**
- **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.**

H2020 Calls – Understand the Topic Description

1. Specific Challenge

- Background information: context, policies, state of the art, existing gaps, etc.

2. Scope (to be addressed in B.1 "Excellence" and B.3 "Implementation")

- Requirements for successful proposals: content, formal,..
- Additional information such as flags (SSH, international cooperation), TRL, indicative budget, etc...

3. Expected Impact (to be addressed in the B.2 “Impact” criterion)

- Short/medium term
- Long term

H2020 Submission - Attention Points!

- **Respect the page limits:** excess pages will be **blank**
- **Note:** All **tables** must be **included** within this limit. **Minimum font size** allowed is **11 points**. The **page size** is **A4**, and all **margins** (top, bottom, left, right) should be at least **15 mm** (not including any footers or headers).
- **Note:** Relevant **information for Sections 1-3** cannot be moved to sections 4-6 or elsewhere.

- **Submit on time:**
- **Complete the submission, including all checks, well before the deadline** to avoid last-minute technical problems, human errors, time-delay in uploading, ...
- **Note:** Until the deadline you **can always reedit and resubmit**



New biotechnologies to remediate harmful contaminants (RIA) - CE-BIOTEC-08-2020 (**deadline: 20 April 2020!!**)

Challenge:

- the merits of using microorganisms to depollute their environment and to transform harmful contaminants into harmless end-products are well known (environmental friendliness, low toxicity), a number of challenges remain. These include for instance, their **effectiveness to treat compounds that are not biodegradable** (e.g. toxic metals), **time efficiency, specificity of the environment, level of concentration of the contaminants, the combined biological activity of the microbial community over time and space and the consumption of energy.**

Scope:

- Research and innovation for efficient and low cost remediation strategies using microorganisms by means of emerging biotechnologies that require minimum or zero external energy or chemicals and that reduce the remediation time compared to physicochemical processes;
- Work to ensure remediation in soil, sediments, mines, surface water, groundwater or industrial water;
- Develop a system to remove different contaminants, including complex mixtures, covering hydrocarbons and their derivatives, recalcitrant compounds, metals, nanomaterials, paints and coatings, nutrients, pharmaceuticals or micropollutants and toxic contaminants;
- Include field trials to prove an acceptable performance for field applications will be a plus.

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New biotechnologies to remediate harmful contaminants (RIA) - CE-BIOTEC-08-2020 (deadline: 20 April 2020!!)

Expected Impact:

- Remediation of at least two toxic contaminants of different nature;
- Proof of the feasibility to scale up the technology for field testing, including an assessment of the related environmental benefits and risks;
- A quantified demonstration of the benefits compared to standard physicochemical remediation approaches, in particular regarding time and energy efficiency.

TRL: 3-6

Allocated budget: 10 MEUR (4-5 MEUR/project)

ToA: RIA

This call is part of the EU-China Flagship Initiative on Biotechnology. Due to the coronavirus pneumonia epidemic, the funding counterpart in China, the National Natural Science Foundation of China (NSFC) and the EC commonly postponed the deadline for proposal submission to 20 April 2020.

HORIZON 2020 NMBP related CALLS

EIC Horizon Prize for 'Innovative Batteries for eVehicles, (deadline: 17 December 2020)

- to develop a safe and sustainable battery for electric-vehicles through the development of new materials and chemistries making use of abundant, sustainable low cost materials, which are easily available in Europe. Solutions are required to provide the same or better performance than vehicles with internal combustion engines and to be capable of recharging the electric vehicle within a time equivalent to fill a conventional gasoline/diesel fuel tank.
- This prize will contribute significantly to the decarbonisation of Europe for the benefit of the EU's economy and its citizens.

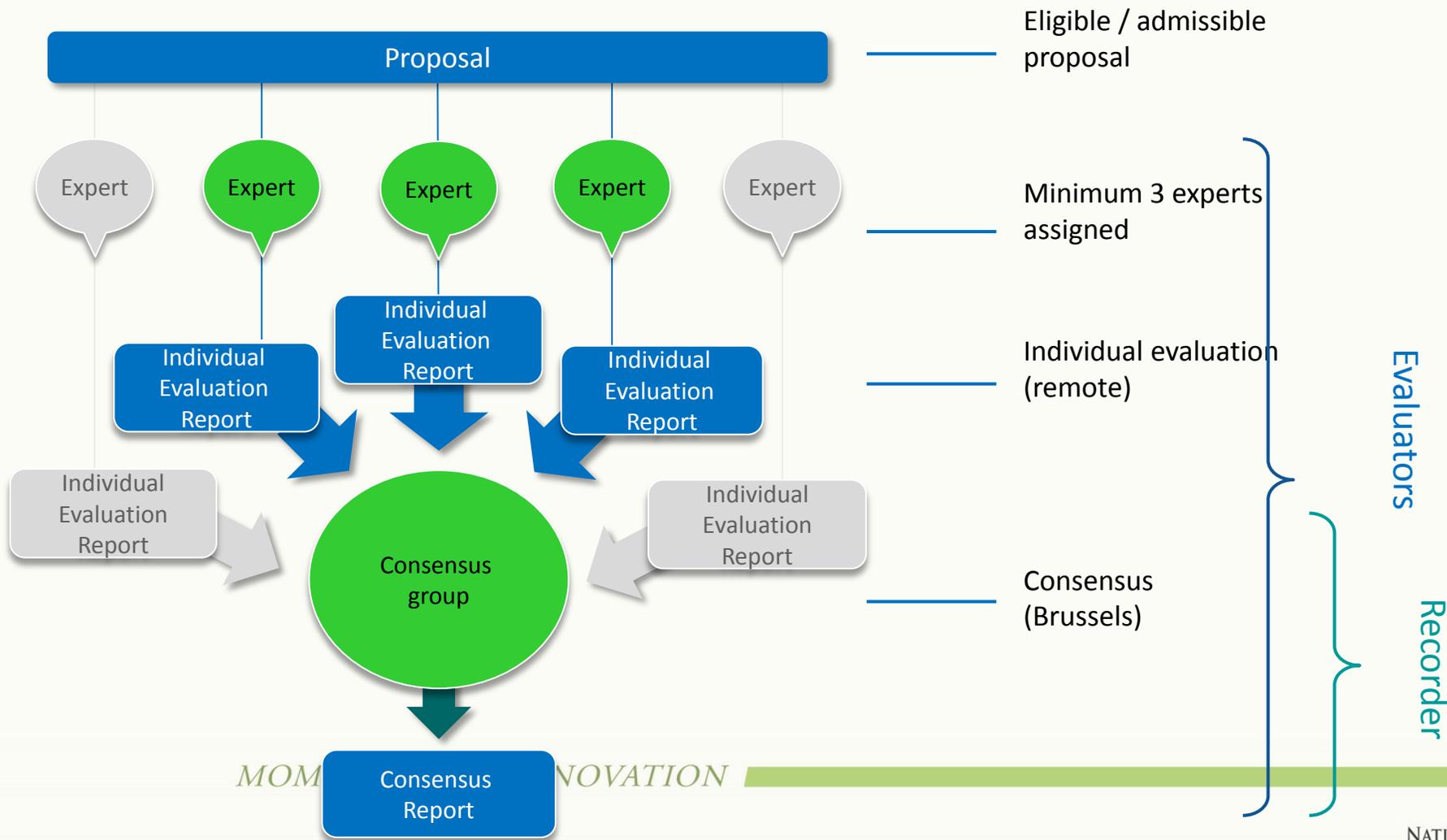
This prize has been set-up to:

- Foster knowledge, innovation and competitiveness in e-vehicle battery/ energy storage technologies.
- Enhance the European manufacturing base for e-vehicle batteries.
- Strengthen the European Industrial value chain (e.g. through exploitation or synergies with existing European industrial infrastructures).
- Strengthen European value added in the supply and knowledge of advanced materials and chemistries for batteries.
- Encourage electro-mobility, opening up new markets and incentivising technological innovations.
- Enhance employment prospects along the entire electro-mobility value chain.
- Contribute to a significant drop in CO₂ and NO_x emissions in line with global environmental policies.
- **A prototype battery with fast recharging and long-distance range, high recyclability, and long life cycle.**

Indicative Budget: 10 MEUR

H2020 Evaluation Criteria – Basic Assessment

- As part of the Individual Evaluation, **the evaluators give their view on whether each applicant has the necessary basic operational capacity to carry out their proposed activity(ies)** based on the information provided in Section 4:
 - Curriculum Vitae or description of the profile of the applicant
 - Relevant publications or achievements
 - Relevant previous projects or activities
 - Description of any significant infrastructure or any major items of technical equipment
- At the consensus group, the evaluators consider whether an applicant lacks basic operational capacity
- If yes, the evaluators make comments and score the proposal **without taking into account this applicant and its associated activity(ies)**



H2020 Evaluation Criteria – Scoring/Weights/Thresholds

- Each criterion scored out of **5 (cf. next slide)**
 - Individual threshold of **3**
 - Overall threshold of **10**
- Ranking: sum of the scores on each criterion
- For **IA**, Impact (CR2) weighted by 1.5 to determine ranking:
 - *Normalised score* = $(CR1 + 1.5 * CR2 + CR3) / 17.5 * 15$
- The procedure for setting a priority order for proposals with the same score is given in part H of the General Annexes.

Evaluation - Interpretation of the Scores

0

The proposal fails to address the criterion or cannot be assessed due to **missing or incomplete** information.

1

Poor. The criterion is inadequately addressed, or there are serious inherent **weaknesses**.

2

Fair. The proposal broadly addresses the criterion, but there are significant **weaknesses**.

3

Good. The proposal addresses the criterion well, but a number of **shortcomings** are present.

4

Very Good. The proposal addresses the criterion very well, but a small number of **shortcomings** are present.

5

Excellent. The proposal successfully addresses all relevant aspects of the criterion. Any **shortcomings** are minor.

H2020 Evaluation Criteria – Ranking proposals with identical total scores

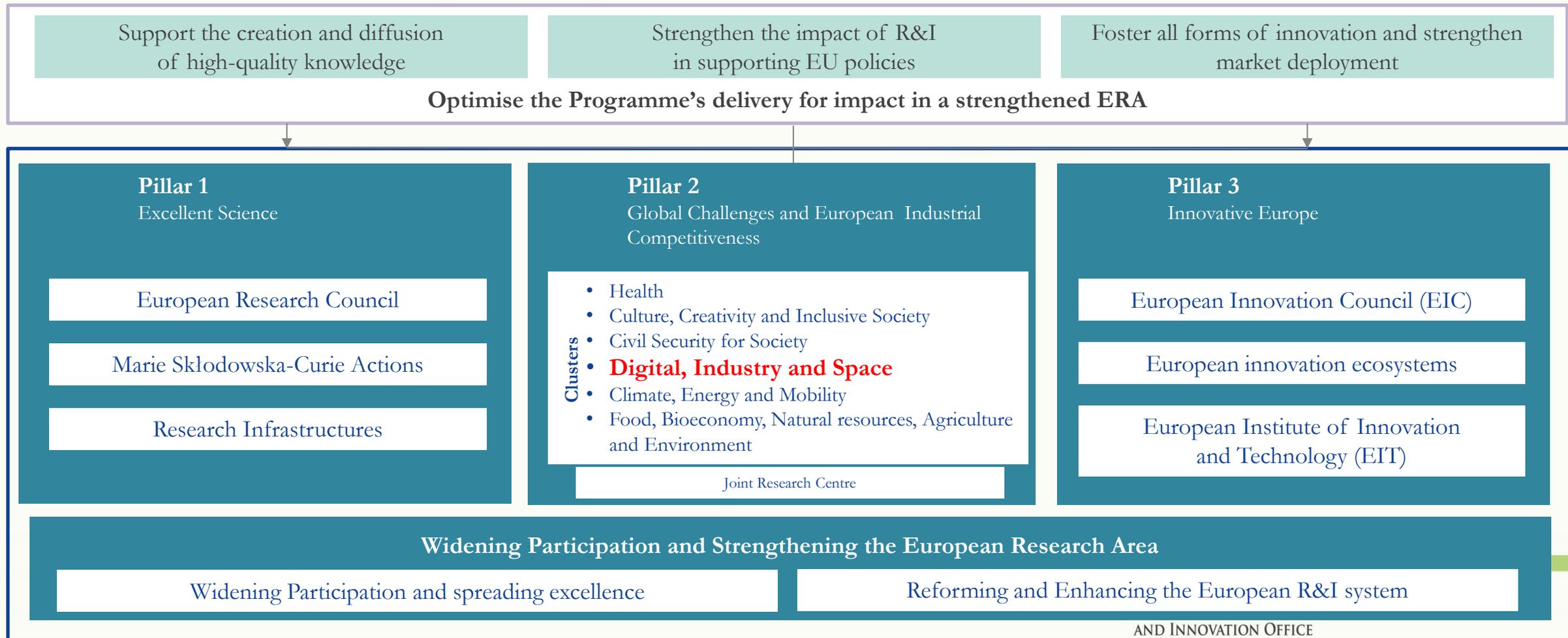
- **Proposals that sub-topics, not otherwise covered by more highly-ranked proposals, will be considered to have the highest priority.**
- **The panel then orders them according to:**
 - First, their score for **EXCELLENCE** (**IMPACT** [IA only])
 - And second, their score for **IMPACT** (**EXCELLENCE** [IA only])
- **If there are ties, further prioritisation on:**
 - First, the size of the budget allocated to SMEs
 - Second, the gender balance of personnel carrying out the research and/or innovation activities
- **If there are still ties, the panel agrees further factors to consider:**
 - e.g. synergies between projects or contribution to the objectives of the call or of Horizon 2020
- **The same method is then applied to proposals that address topics that are already covered by more highly-ranked proposals**

H2020 Evaluation Criteria – Ethics

- **Only proposals that comply the ethical principles** and legislation **may receive funding**
- For main and reserve list proposals **an ethics screening** and, if required, an ethics assessment is carried out **by independent ethics experts** after the scientific evaluation
- For those proposals in which one or more ethical issues have been identified, the **experts will assess whether the ethics issues are adequately addressed**
- The ethics experts will produce an **ethics report** and give an opinion on the proposal, such as:
 - granting ethics **clearance** (or not)
 - **recommending the inclusion of ‘ethics requirements’** in the grant agreement, or
 - **recommending a further Ethics Assessment and/or an Ethics Check or Audit**

HORIZON EUROPE

- Specific objectives of the Programme – Based on the European Commission’s Proposal, April 2019



H2020 Useful Links

- **Funding & Tender Opportunities**

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/how-to-participate/tenders>

- **H2020 Reference Documents**

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/how-to-participate/reference-documents>

- **Research Enquiry Service**

https://ec.europa.eu/info/research-and-innovation/contact/research-enquiry-service-and-participant-validation_en

- **Support Overview (including FAQ and Helpdesks)**

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/support/support>

- **National Contact Points**

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/support/ncp>

- **Hungarian H2020 Team:** www.h2020.gov.hu

... and last, but not least:

- **NMP TeAm:** www.nmpteam.eu/

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www.nkfi.gov.hu/english

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