

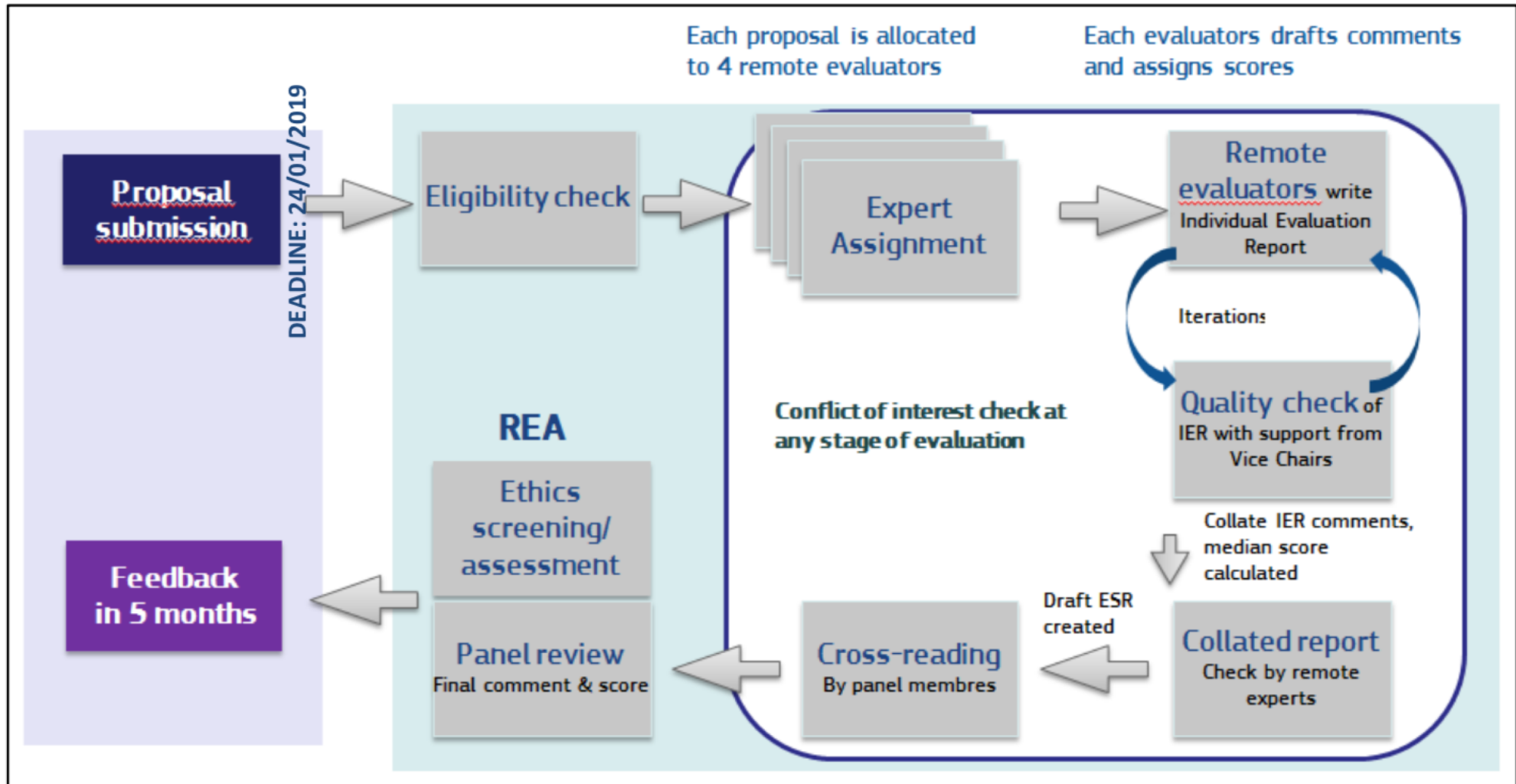
Horizon 2020 - Work Programme 2018-2020
Future and Emerging Technologies

FETOPEN-01-2018-2019-2020: FET-Open Challenging Current Thinking

Specific Challenge: to lay the foundations for **radically new future technologies** of any kind from visionary interdisciplinary collaborations that dissolve the traditional boundaries between sciences and disciplines, including the social sciences and humanities. This topic also encourages the driving role of new actors in research and innovation, including excellent young researchers, ambitious high-tech SMEs and first-time participants to FET under Horizon 2020 from across Europe.

Scope: proposals are sought for cutting-edge **high-risk / high-impact interdisciplinary research with all of the following essential characteristics** ("FET gatekeepers"):

FET-RIA 2018-2020 evaluation process



FET Gatekeepers (specific to the Work Programme 2018-2020)

- **Radical vision**: the project must address a clear and radical vision, enabled by a new technology concept that challenges current paradigms. In particular, research to advance on the roadmap of a well-established technological paradigm, even if high-risk, will not be funded.
- **Breakthrough technological target**: the project must target a novel and ambitious science-to-technology breakthrough as a first proof of concept for its vision. In particular, blue-sky exploratory research without a clear technological objective will not be funded.
- **Ambitious interdisciplinary research** for achieving the technological breakthrough and that opens up new areas of investigation. In particular, projects with only low-risk incremental research, even if interdisciplinary, will not be funded.

FET-RIA 2018-2020
evaluation criteria

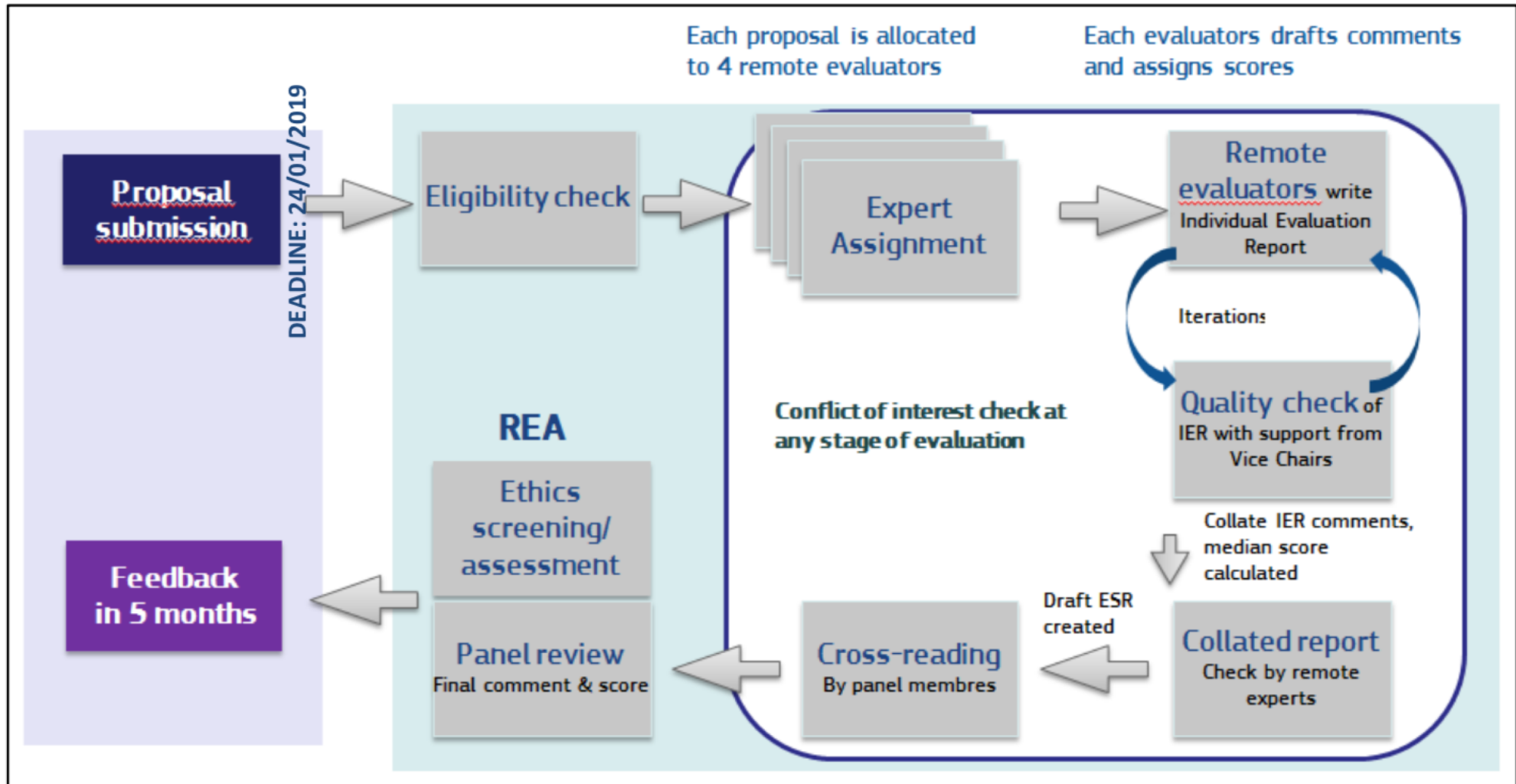
Excellence	Impact	Quality and efficiency of the implementation
<p>Adherence to the "FET gatekeepers" as described in the call text:</p> <ul style="list-style-type: none"> • Clarity of the radical vision of a science - enabled technology and its differentiation from current paradigms. • Novelty and ambition of the proposed science-to-technology breakthrough that addresses this vision. • Range of and added value from interdisciplinarity for opening up new areas of research; non - incrementality of the research proposed. • High-risk, plausibility and flexibility of the research approach. 	<ul style="list-style-type: none"> • The extent to which the outputs of the project would contribute to the expected impacts listed in the work programme under this topic. • Effectiveness of measures and plans to disseminate and use the results (including management of IPR) and to communicate about the project to different target audiences. 	<p>The following aspects are taken into account:</p> <ul style="list-style-type: none"> • Coherence and effectiveness of the research methodology and work plan to achieve project objectives and impacts, including adequate allocation of resources to tasks and partners • Role and complementarity of the participants and extent to which the consortium as a whole brings together the necessary expertise.
<p>Threshold: 4/5 Weight: 60%</p>	<p>Threshold: 3.5/5 Weight: 20%</p>	<p>Threshold: 3/5 Weight: 20%</p>

FET-RIA 2018-2020 scores

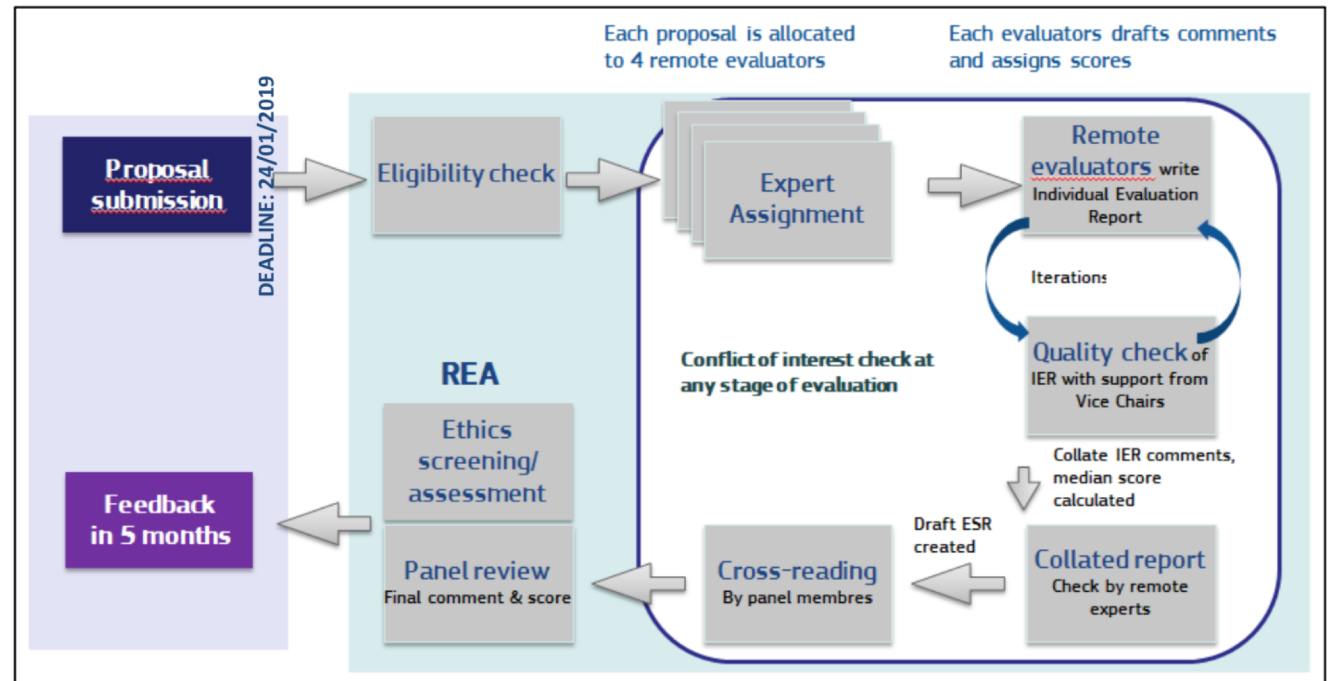
Please find hereafter the scores to be used and their meaning:

- 0** — The proposal fails to address the criterion or cannot be assessed due to missing or incomplete information (unless the result of an 'obvious clerical error').
- 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 with a number of shortcomings.
- 4 — Very good:** the proposal addresses the criterion very well but with a small number of shortcomings.
- 5 — Excellent:** the proposal successfully addresses all relevant aspects of the criterion; any shortcomings are minor.

FET-RIA 2018-2020 evaluation process



FET-RIA 2018-2020 evaluation process



(1) Remote evaluators : 4 scores -> 1 median

(2) Cross-readers : 4 scores (chosen among the remote evaluators scores) -> 1 median

(3) Final score: average (1) and (2)

(4) Proposals ranked by decreasing score, until all funding is « spent »

FET-RIA 2018-2020 evaluation examples

Score of 5 (Excellence)

- The project will develop a completely new approach to XX, which will enable detection XX to unprecedented levels.
- This approach is challenging because XX
- The proposal includes the right level of interdisciplinarity, ranging from XX to XX. All these parts are essential for developing the new paradigm
- This is a high-risk project because of the ground-breaking instrumental approach but also in its use of new types of fundamental science, such as XX

Score of 3 (Excellence)

- The proposal fails to describe how this vision substantially exceeds existing paradigms
- It is not clear how the objectives will be measured
- It does not adequately explain how integration of existing technologies result into non-incremental research
- The project is not clear about the contingency plans in case of technical or scientific uncertainties, specifically related to XX

FET-RIA 2018-2020 evaluation examples

Score of 5 (Impact)

- The development of XX would make a huge contribution to European innovation because it is such a large leap in technological capabilities
- It has the potential for significant market creation which will give Europe the lead in XX technologies
- The proposal identifies the potential of the proposed prototype in the XX market
- Clear, effective and straightforward plan for the dissemination and exploitation

Score of 3 (Impact)

- The dissemination and exploitation plans are very generic
- It does not include sufficient information about how to manage XX data
- The contribution to the building leading research and innovation capacity in XX is overestimated and not sufficiently substantiated.
- The applications mentioned in the proposal are quite distant from the technology-level development

FET-RIA 2018-2020 evaluation examples

Score of 5 (Implementation)

- The work plan to achieve the project objectives builds on well-described and complementary interactions between the involved participants, each covering a different area of expertise.
- Deliverables and milestones are well-suited for project evolution evaluation.
- The main risks have been properly identified and their mitigation is well aligned with the flexibility of the project objectives.
- The roles of each participant are clearly differentiated and described in the proposal

Score of 3 (Implementation)

- The expertise on XX is not sufficiently present in the consortium
- The PM and funding associated to tasks XX are underestimated
- The person-months efforts are un-balanced, the coordinating institution is taking XX while not justifying its expertise in tasks XX
- Some of the most relevant risks were identified, but the mitigation actions are not sufficiently clear