HORIZON 2020

LE PROGRAMME DE RECHERCHE ET D'INNOVATION DE L'UNION EUROPÉENNE

FET OPEN Evaluation Summary Reports (ESR)

First analysis

FET

PCN - Horizon2020

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RÉPUBLIQUE FRANÇAISE

MINISTÈRE DE L'ENSEIGNEMENT SUPÉRIEUR ET DE LA RECHERCHE

PCN – Technologies Futures et Emergentes (FET)

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MINISTÈRE DE L'ENSEIGNEMENT SUPÉRIEUR ET DE LA RECHERCHE

FET NCP

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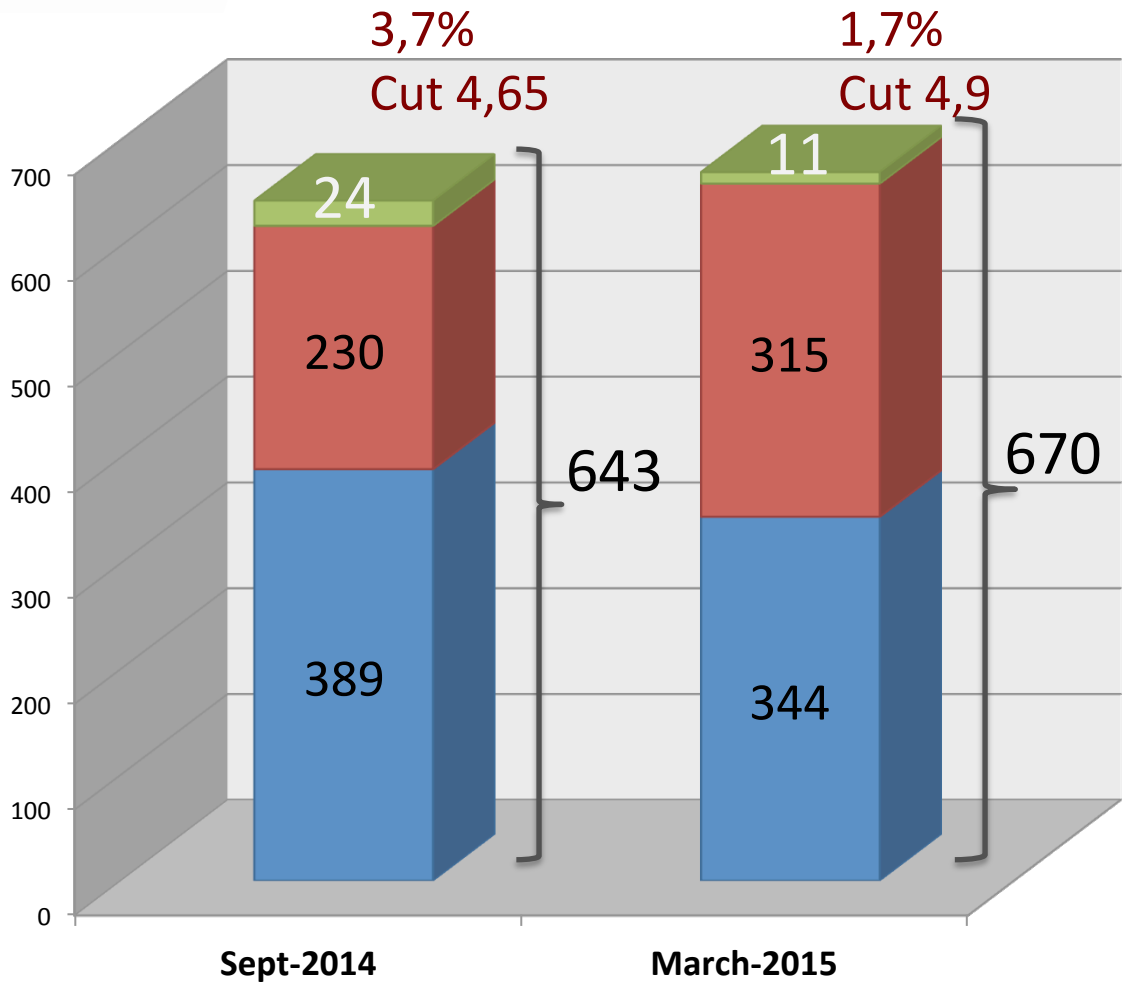
FET OPEN Calls 2014-2015 : key figures



78,1 M€

41 M€

Partners

Abstract

- ***Excellence*** weight 60%, threshold 4/5
  - Clarity of targeted breakthrough and its specific science and technology contribution towards a long-term vision
  - Novelty, level of ambition and foundational character
  - Range and added value from interdisciplinarity
  - Appropriateness of the research methods
- ***Impact*** weight 20%, threshold 3,5/5
  - Importance of the new technological outcome with regards to its transformational impact on technology, society
  - Quality of measures for achieving impact on science, technology and/or society
  - Impact from empowerment of new & high potential actors towards future technological leadership
- ***Quality & efficiency of the implementation*** weight 20%, threshold 3/5
  - Quality of the workplan and clarity of intermediate targets
  - Relevant expertise in the consortium
  - Appropriate allocation and justification of resources (person-months, equipment, budget)

Operational capacity

Proposal content corresponds to the topic description

ESRs: first analysis

Corpus

- Main list: all RIA projects
  - 24 (2014) + 11 (2015)
- Below available budget: projects with FR as coordinator
  - 30 (2014) + 30 (2015)
- Below threshold: projects with FR as coordinator
  - 44 (2014) + 31 (2015)

ESRs: first analysis

« Classical » peer review schemes

- Contradictory opinions: « exhaustive state-of-the-art / no state-of-the-art »,
- Standard comments: « novel concept », ...

Excellence:

Strengths

- **Clarity:** Good description of the methodology, Cutting-edge technology, with breakthrough, promising, **realistically achievable**, targeted breakthrough, long term vision, **Ambitious and feasible,** Sound and timely**, immediate applications**, **Results are tangible and verifiable**
- Involvement of SMEs
- **Novelty/foundational:** Beyond the state of the art, **potential to create a paradigm shift**, several novel concepts ambitious, original and innovative, very challenging, Innovative approach, strong ambition, simple and powerful

  Totally new applications,

  Very risky, huge payback

- **Interdisciplinarity:** **Genuine** interdisciplinarity

weaknesses

- Continuation to ongoing work
- Insufficient information
- Many risks, not all of them with mitigation actions
- Foundational character not convincing because of the prior developments in the field
- The computational aspects are not clearly described
- Lack of precision in the description of one technical phase
- Lack of survey of the state of the art
- Poor research methodology
- Barely interdisciplinary
- Not quantified
- Expensive materials in use

Impact:

Strengths

- High impact on European and world economy and market, Potential to be commercialized, New technological outcome, New line of technology, final industrial application, Several applications, patents, Proof of principle, Dedicated WP for exploitation
- Beneficial to the whole mankind, Multi benefits to education and research, Economic and social impact, Close contacts with users
- Support of research knowledge transfer team, Market research analysis, Concise but proper measures, realistic numbers
- Good dissemination and data management plan, New media (online new, RSS feed service), Popular press, Communication activities for the general public, Presentation at technical fairs, Creation of a MOOC, Wikipedia article, video
- Publication in high impact factor journals
- Involvement of a company, Startup participation, Involvement of a high-tech SME, Follow-up projects with industry
- Addition of postdocs, intention to hire, High fraction of the WP leaders are young researchers and female researchers, Gender balance is good, At least one young PdD researcher, Scientific work performed by young researchers, Young scientists as principal investigators, Training for young researchers, Woman coordinator

Weaknesses

- The technological actors are not specified, Technological impact not clearly described
- No mention of technology transfer, Commercial aspects not well described, Vague business plan,
- Potential startup failure, No direct involvement of an SME, Usual academic channels, No RTD SME or end users
- Missing screening of IP activities
- Dissemination prejudiced by confidentiality issues, Communication plan not well addressed, No dissemination and exploitation task
- Measures towards general public could be improved

Implementation:

Strengths

- Good work plan, Clear milestones, Contingency plan, Well structured, clear vision
- Complementarity and expertise in the consortium, ERC winning researcher, Experience in managing European projects
- SME Partner
- Appropriate allocation of resources, Justified resources

Weaknesses

- Too many participants so money may not be sufficient, Role of the partners not clearly described in the work packages, Repartition of the leadership of the WPs unequal between partners, Unclear division of tasks, Limited number of milestones, Resource levels not derived from research objectives
- Project management structure and decision making procedures not sufficiently described
- Available preliminary results too limited
- Lack of quantitative benchmarks
- Risk analysis too general
- Absence of end users, absence of industrial partner

Resubmission

61% proposals above threshold in Sept-14 have been resubmitted in March 2015
12% proposals below threshold in Sept-14 have been resubmitted in March 2015

- From « Below available budget » to « Main list »: how to make the difference?
  - Consider the comments/recommendations made by the reviewers...
  - Consider adding (industrial/end-user) partners to the consortium?