FET Open:

Scope: Proposals are sought for collaborative research with all of the following characteristics:

- **Long-term vision**: the research proposed must address a new, original or radical long-term vision of technology-enabled possibilities that are far beyond the state of the art and currently not anticipated by technology roadmaps.
- Breakthrough S&T target: research must target scientifically ambitious and technologically concrete breakthroughs that are arguably crucial steps towards achieving the long-term vision and that are plausibly attainable within the life-time of the proposed project.
- **Foundational**: the breakthroughs that are envisaged must be foundational in the sense that they can establish a basis for a new line of technology not currently anticipated.
- **Novelty**: the research proposed must find its plausibility in new ideas and concepts, rather than in the application or incremental refinement of existing ones.
- **High-risk**: the potential of a new technological direction depends on a whole range of factors that cannot be apprehended from a single disciplinary viewpoint. This inherent high-risk has to be countered by a strongly interdisciplinary research approach, where needed expanding well beyond the strictly technological realm.
- Interdisciplinary: the proposed collaborations must be interdisciplinary in the sense that they go beyond current mainstream collaboration configurations in joint science-and technology research, and that they aim to advance different scientific and technological disciplines together and in synergy towards a breakthrough.

Expected impact: Proposals must aim at one of the following two impacts:

- Initiating a radically new line of technology by establishing Proof-of-Principle of a new technological possibility and its new scientific underpinning, or
- Kick-starting an emerging innovation eco-system of high-potential actors around a solid baseline of feasibility and potential for a new technological option, ready for early take-up.

FETOPEN 1 30/09/2014 at 17.00.00 Brussels time

2-4 Mio. EUR

			the implementation
FETOPEN 1	 Clarity of targeted breakthrough and its specific science and technology contributions towards a long-term vision. Novelty, level of ambition and foundational character. Range and added value from interdisciplinarity. Appropriatness of the research methods. 	 Importance of the new technological outcome with regards to its transformational impact on technology and/or society. Quality of measures for achieving impact on science, technology and/or society. Impact from empowerment of new and high potential actors towards future technological leadership. 	 Quality of the workplan and clarity of intermediate targets. Relevant expertise in the consortium. Appropriate allocation and justification of resources (personmonths, equipment, budget).
	Threshold: 4/5	Threshold: 3.5/5	Threshold: 3/5
	Weight: 60%	Weight: 20%	Weight: 20%