



Pasteur's Quadrant for a 'Science of Global Systems'



Go FET?
... or Select something else?

	Inspired by use?	Inspired by use?
	No	Yes
Questfor fundamental understanding ? Yes	Fundamental questions: Formal foundations of highly interdependent systems ERC	Core Questions: Normative Analytic Computational FET
Questfor fundamental understanding No	?	Operational Questions: How to induce Action app-driven



inspired by W. Clark, Harvard





Long-term vision: a new, original or radical long-term vision of technology-enabled possibilities going far beyond the state of the art

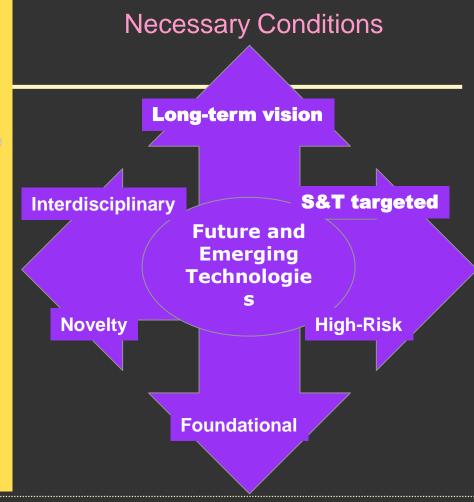
Breakthrough S&T target: scientifically ambitious and technologically concrete breakthroughs plausibly attainable within the life-time of the project.

Foundational: the breakthroughs must be foundational in the sense that they can establish a basis for a new line of technology not currently anticipated.

Novelty: new ideas and concepts, rather than 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 go beyond current mainstream collaboration configurations in joint S&T research, and must aim to advance different scientific and technological disciplines together and in synergy towards a breakthrough.



Open, light and agile

Roadmap based research

FET-Open 0/0

Early Ideas

Individual research projects

Exploring novel ideas

FET Proactive

Exploration and Incubation

Critical mass making a case

Developing topics & communities

FET Flagships

Large-Scale
Partnering Initiatives

Common research agenda

Addressing grand challenges

Large initiatives

Small projects up to 4M€6 to 8 partners

Medium size projects 4 to 10M€



