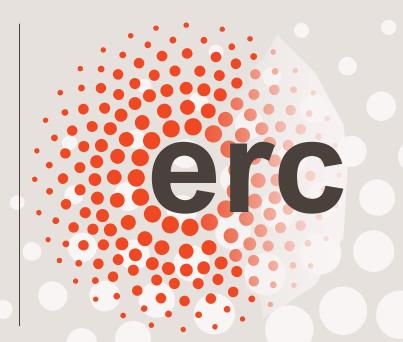


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FP7 IDEAS Programme European Research Council

The ERC Proof of Concept funding opportunity

Laura Pontiggia ERC Executive Agency



Brussels, 9 February 2011



Currently our granting schemes support 2 critical stages in scientific careers Selected grantees by age in 2009



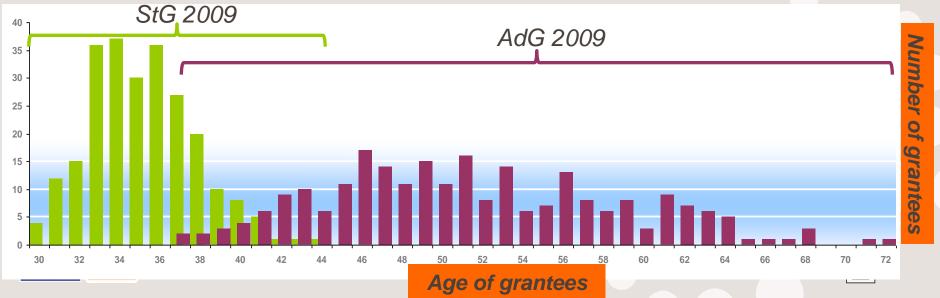
Starting Grants

- Attract/retain next-generation leaders
- Address funding gap early in independent career
- Establish independent research team & program

• up to € 2.0 Mio for 5 years

Advanced Grants

- Attract/retain current world-leaders
- Stimulate investigator-driven, breakthrough research
- up to € 3.5 Mio for 5 years



Innovation requires excellent research



"New products and new processes do not appear full-grown. They are founded on new principles and new conceptions, which in turn are painstakingly developed by research in the purest realms of science!" Vannevar Bush, *Science, The Endless Frontier,* 1945





Excellent research bears excellent fruitsrecent Nobel Prizes

European Research Council



Fibre optics and digital 2009 Nobel Prize in Physics imaging: frontier The 2009 Nobel Prize in Physics goes to Charles K. Kao, Willard S. Boyle research 40 years ago, and George E. Smith, the fathers of fiber optics and digital imaging. ۲ today communication industry **Giant magneto** 2008 Nobel Prize in Physics resistance: frontier The 2008 Nobel Prize in Physics has been awarded to Yoichiro Nambu, research in 1988, ten Makoto Kobayashi and Toshihide Maskawa. \odot years later computer storage technology Papilloma virus: 1983 2007 Nobel Prize in Physics frontier research, today The 2007 Nobel Prize in Physics has been awarded to Albert Fert and Peter vaccine against high risk Grünberg "for the discovery of giant magnetoresistance". \odot types of the virus 2009 Nobel Prize in Physiology or Medicine 2009 Prize in Economic Sciences The Nobel Prize in Physiology or Medicine goes to Elizabeth H. Blackburn, The Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Carol W. Greider and Jack W. Szostak "for the discovery of how Nobel goes to Elinor Ostrom and Oliver E. Williamson, who both analyse chromosomes are protected by telomeres and the enzyme telomerase ۲ economic transactions occuring outside the markets". ۲ 2008 Nobel Prize in Physiology or Medicine 2008 Prize in Economic Sciences The Nobel Prize in Physiology or Medicine has been awarded to Harald zur The Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Hausen, Françoise Barré-Sinoussi and Luc Montagnier "for their discovery of Nobel has been awarded to Paul Krugman "for his analysis of trade patterns human immunodeficiency virus". and location of economic activity". 🛛 🧿 2007 Nobel Prize in Physiology or Medicine 2007 Prize in Economic Sciences



The Medicine Prize has been awarded to Mario R. Capecchi, Martin J. Evans

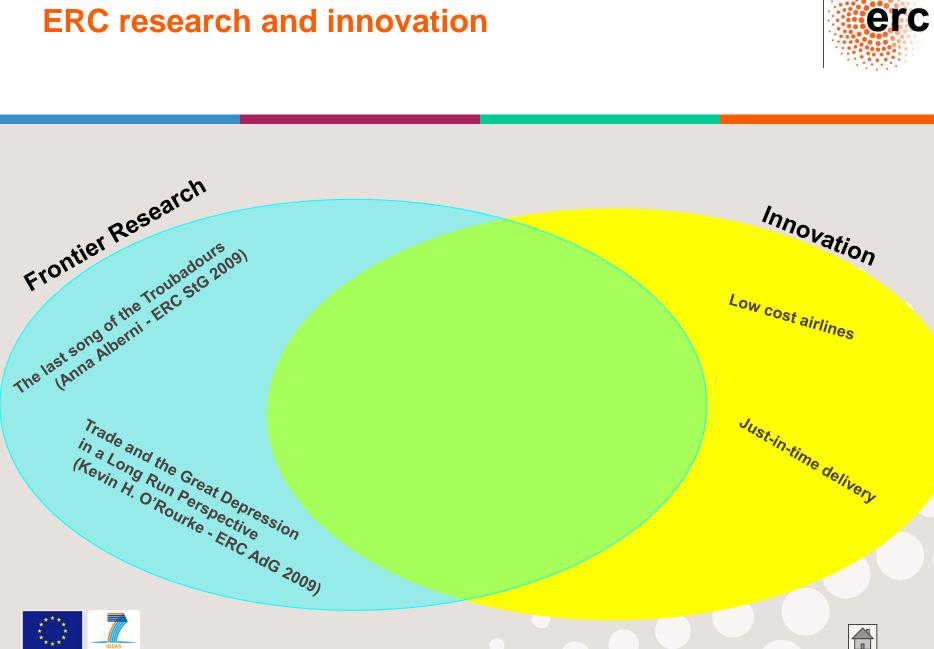
and Oliver Smithies for "discoveries of principles for introducing specific gene modifications in mice by the use of embryonic stem cells". \odot



The Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Nobel has been awarded to Leonid Hurwicz, Eric S. Maskin and Roger B. Myerson "for having laid the foundations of mechanism design theory".



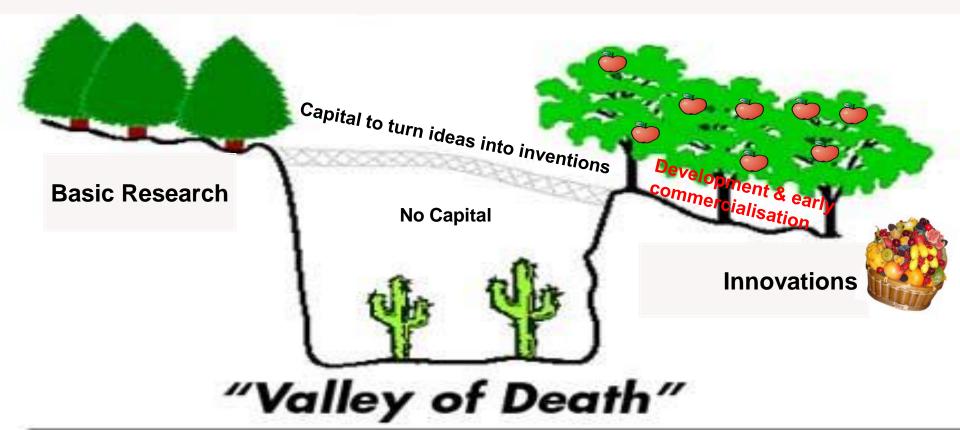
ERC research and innovation



The "Valley of Death"

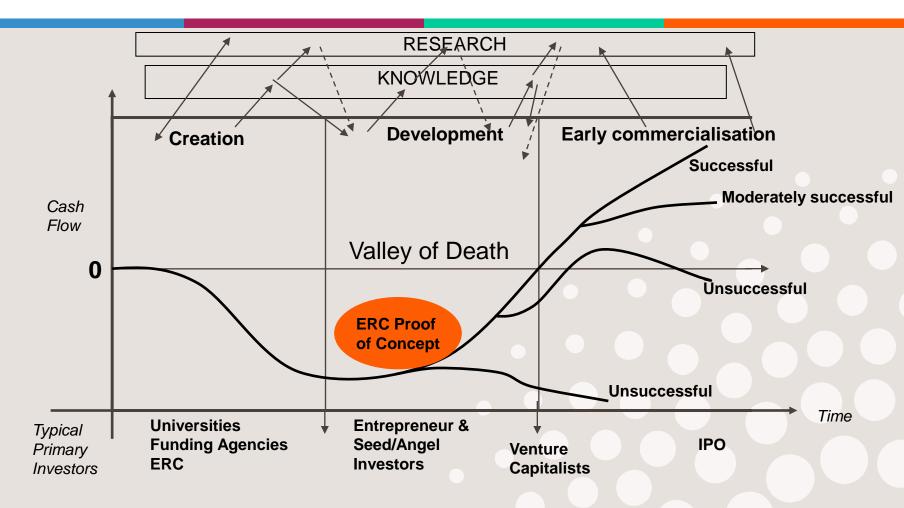


Bridging the gap: from basic research to innovation



Strengthening the ERC's role in the innovation chain: from blue sky research to commercialisation

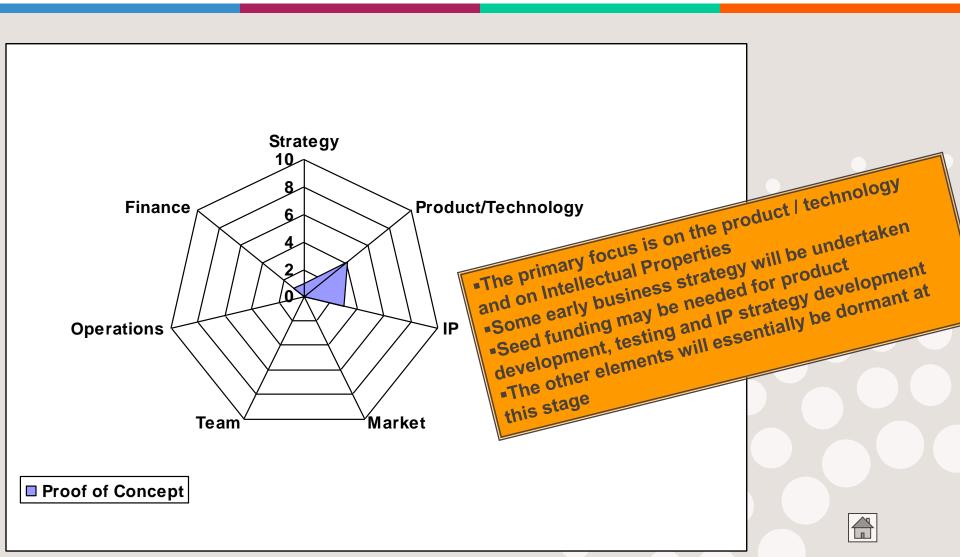








Proof of concept stage





The funding gap

An efficient way of moving excellent ideas towards their first steps in the direction of the marketplace

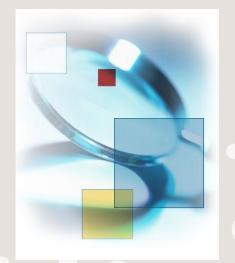




erc

March 2011: launch of the ERC "proof of concept" funding

What for: establish the innovation potential of an ERC-funded idea a: technical validation, market research, clarifying IPR strategy, investigating business opportunities





- Publication: 15 March 2011
- First Deadline: 15 June 2011
- Second deadline: 8 November 2011





The ERC "proof of concept" funding

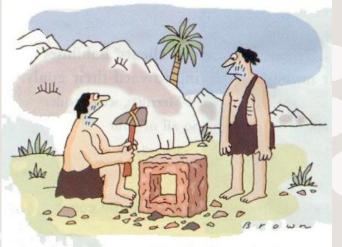
Eligibility: Holders of an ERC grant with an idea substantially drawn from an ERC-funded project





Size: up to €150,000 over 12 months Total budget for 2011: €10 million

Outcome: A "package" to be presented to venture capitalists



"I call my invention 'The Wheel,' but so far I've been unable to attract any venture capital."



erc

Proposal description

- A short description of the idea and its relation to the previous ERC grant
- Outline an early-stage innovation strategy for the idea
- Outline a reasonable and plausible plan of the activities
- Budget: list of requested resources and proper justification





Evaluation: External experts will check that the proof of concept plan is reasonable and acceptable No scientific evaluation

Evaluation criteria:

- 1. Innovation potential
- 2. Quality of the proof of concept plan
- 3. Budget

Evaluation







Evaluation criteria (1)



1. Innovation potential: move the output of research towards the initial steps of pre-commercialisation

- 1.1 economic and societal benefits of the project
- 1.2 commercialisation process to be followed
- 1.3 plans for testing, technical reports, etc.
- 1.4 initial steps of market research
- 1.5 clarification of IPR position and strategy
- 1.6 industry/sector contacts



Evaluation criteria (2 & 3)



2. Quality of the proof of concept plan: sound approach for establishing technical and commercial feasibility

- → 2.1 reasonable and acceptable plan of activities
- → 2.2. sound project-management plan
- → 2.3 team well qualified for the purpose

3. Budget: necessary for the implementation of the proof of concept and properly justified



Application of evaluation criteria



- Evaluation on "pass/fail" basis on each evaluation criterion
- Considered for funding: only proposals with a pass mark by a majority of evaluators on each criteria

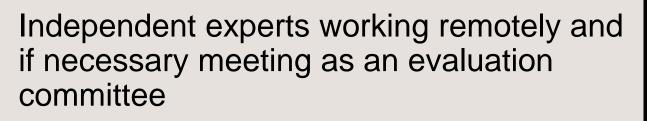




- If not enough budget: selected proposals ranked according to number of pass marks
- If necessary, evaluators meet to determine priority order for ex-æquo











Evaluators

From key innovation stakeholders (national public agencies, government/ministry departments, technology transfer offices of Universities, etc)

