

*Europeanisation of research and
development –
a means to bridge the gap between
academia and industry*

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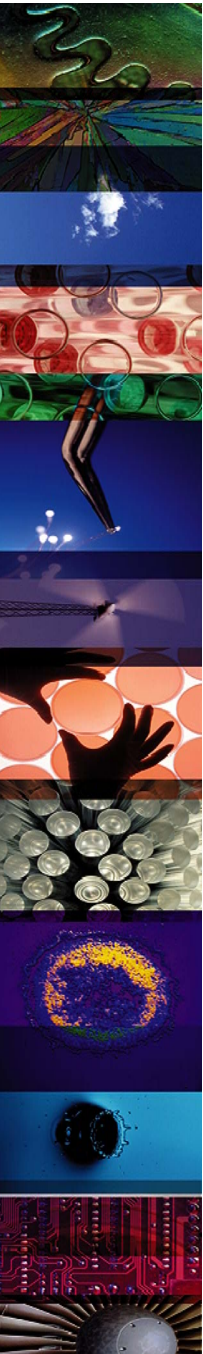
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Why Europeanisation & Bridging the Gap?

[Lisboa 3/2000: idea of the ERA; Barcelona 3/2002: 3% GDP].
Today Europe spends 2,0%, US 2,8% and Japan >3% for R&D

„ Excellence + Innovation are keys to European Industry competitiveness!“

- Six major objectives
 1. Centres of excellence through collaboration
 2. Technology Initiatives („critical mass“, PPP)
 3. Basic research through competition of teams on EU level
 4. Attract the best researchers
 5. Develop research infrastructure
 6. Improving the coordination of National Programmes
- Focussing EU's efforts on key topics (+space & security)
- Taking full advantage of complementarity with EU structure funds



European Support to R&D

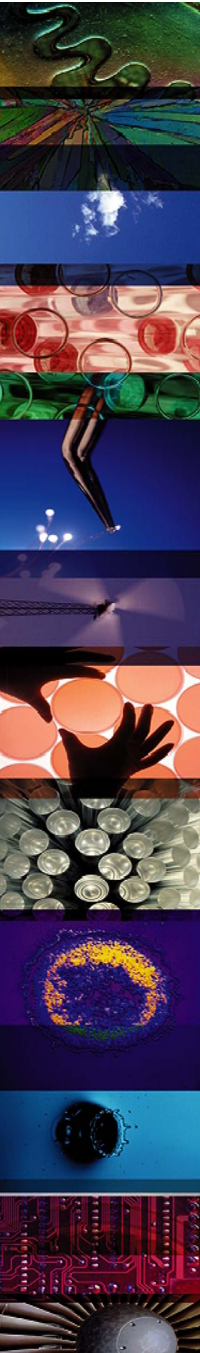
EU CRAFT

- Enable groups of SMEs to undertake joint research by contracting research to an outside research supplier

EU Framework Programme

- Gives i.e. Swedish researchers an opportunity to collaborate with leading European companies and research organisations at the cutting edge of technology, with the support of EU funding





Socio-economic Trends

Increasing competition at a global scale

- Focus on higher parts of the value chain
- Faster innovation cycles

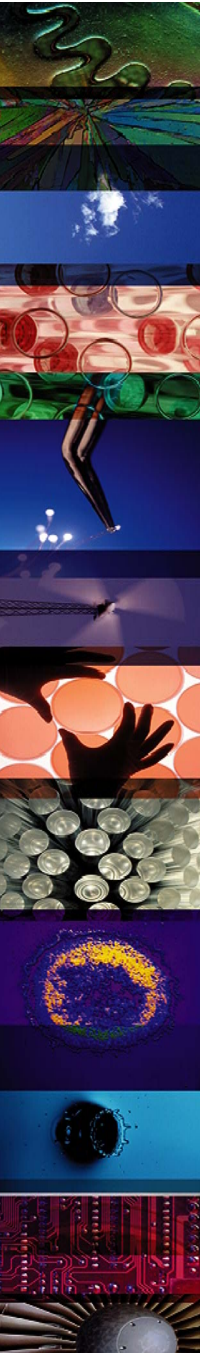
Enlargement

- An opportunity but requires further effort on
“Integration”

Ageing Population

- Starting to feel the impact....

Security



IST FP6: FET in IST Work Programme 2005-2006

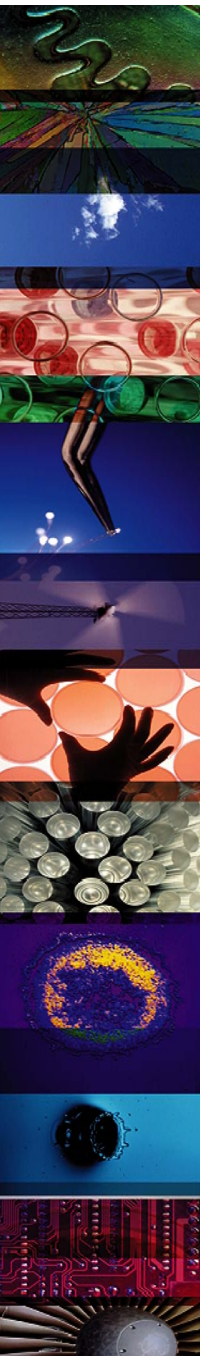
- FET Open Scheme
- Proactive Initiatives
 - **Call 4** (closing 22 March -05)
 - Advanced Computing Architectures
 - Situated and Autonomic Communications
 - Presence and Interaction in Mixed Reality Environments (follow-up of FP5)
 - Simulating Emergent Properties in Complex Systems (complement to FP6 Call1)

Call 5 (closing 21 September):

- Simulating Emergent Properties in Complex Systems

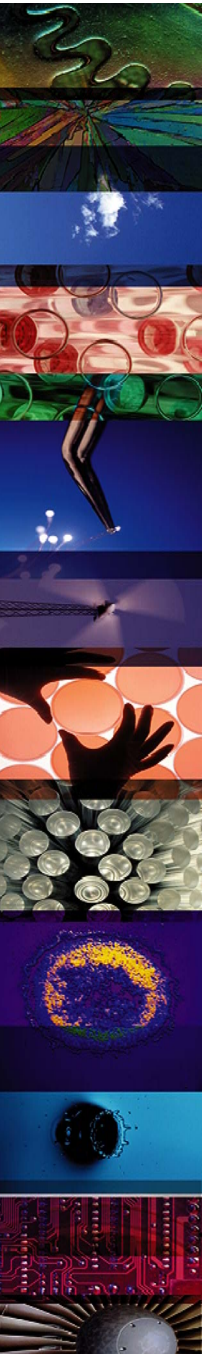
IST FP6: Call 4, closing 22 March -05

- Cognitive Systems
- Micro- and nano- devices for integration
- Nanoelectronics
- Broadband for all
- Mobile platforms & Wireless systems
- Global dependability and security framework
- Strengthening ICT research in enlarged Europe
- Semantic-based knowledge systems
- Networked a-v systems and home platforms
- Integrated biomedical info. for better health
- eBusiness, eGovernment, eHealth, eLearning, eSafety of road and air transport

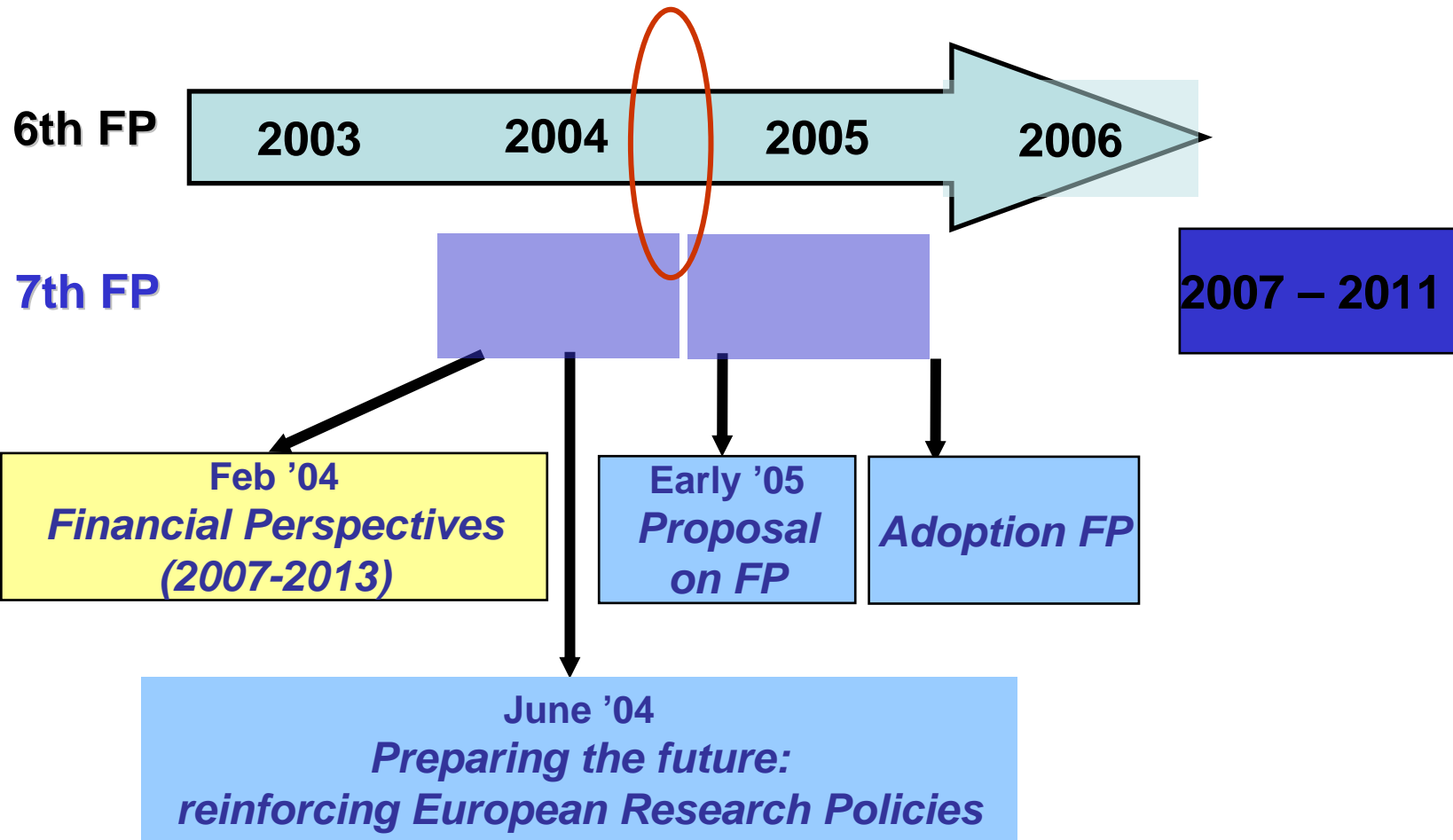


IST FP6: Call 5, closing 21 September -05

- Multimodal Interfaces
- Photonic components
- Micro/nano based sub-systems
- Embedded Systems
- Collaborative Working Environments
- Cross-media content for leisure and entertainment
- Advanced GRID Technologies, Systems & Services
- Improving risk management
- eInclusion
- ICT for Environmental Risk Management
- ICT for Networked Business
- Software and Services
- Access to preservation of cultural/scientific resources
- Research networking testbeds



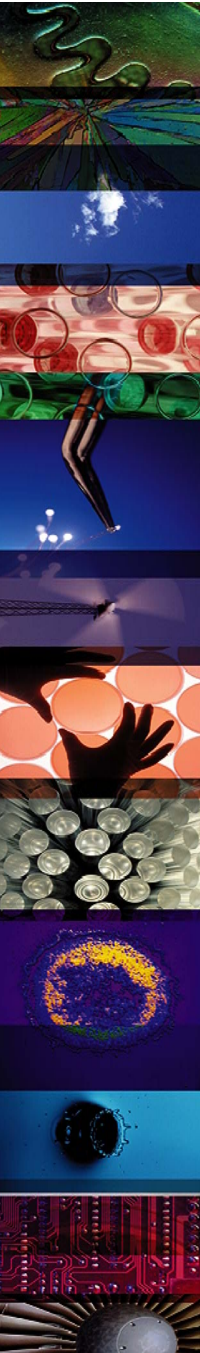
The Roadmap to FP7



Budget FP7

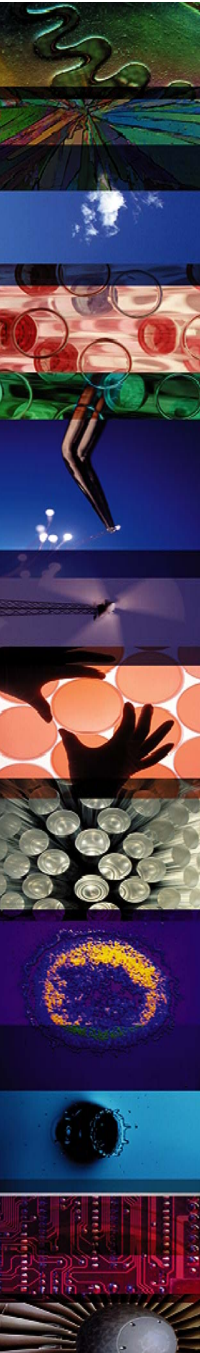
- FP5 Euro 15 billion (1998-2002)
- FP6 Euro 17,5 billion (2003-2006)
- FP7 Euro 30 billion ?





Proposed Structure of FP7

- Continuation of existing Framework model
- Basic Research Funding
- Technology Platforms
- Coordination of National Programmes
- Human Resources and Infrastructure



The Research Priorities

- Bio, Nano, IST, Food safety, SME etc.

New Priorities (political) in FP7:

- Security
- Space
- Chemicals
- Societal Science and Humanities



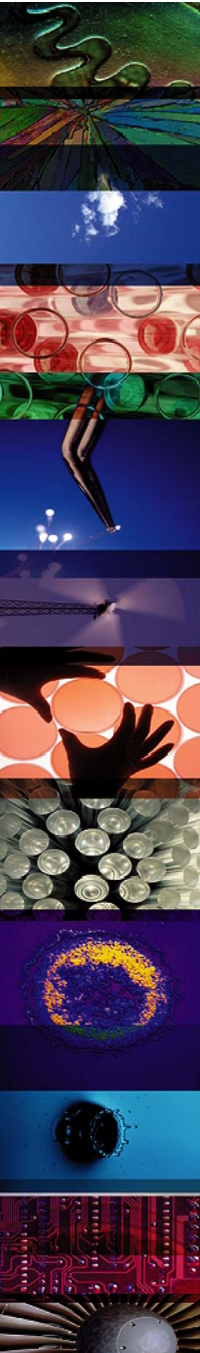
Discussion on Basic Research

- Only evaluation criteria: Scientific Excellence
- No Roles on consortium size
- Relevance, impact, SME, gender etc. – not a criteria
- Budget of 2 billion proposed
- NEST test bed for Basic Research in FP6

Discussion on Technology Platforms

- Hydrogen
- Steel
- Photovoltaic
- Optical Technologies
- Mobile Communication
- Nanoelectronics
- Aeronautics
- GRID
- Water
- OUR PLATFORM??





FP7: 6 + 2 Axes

- Collaboration → Collaborative Research
 - Private/public partnership → Technological platforms
 - Individual research teams → Basic Research Grants
 - Human resources → Mobility and Life Long Learning
 - Research Infrastructures → Access/Networking & Infrastructures
 - Co-ordination of national & regional research programmes and policies → European Research Area
- +
- Space (ESA)
 - Security