



Structure and funding schemes



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ARC Fund
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FP7 Structure

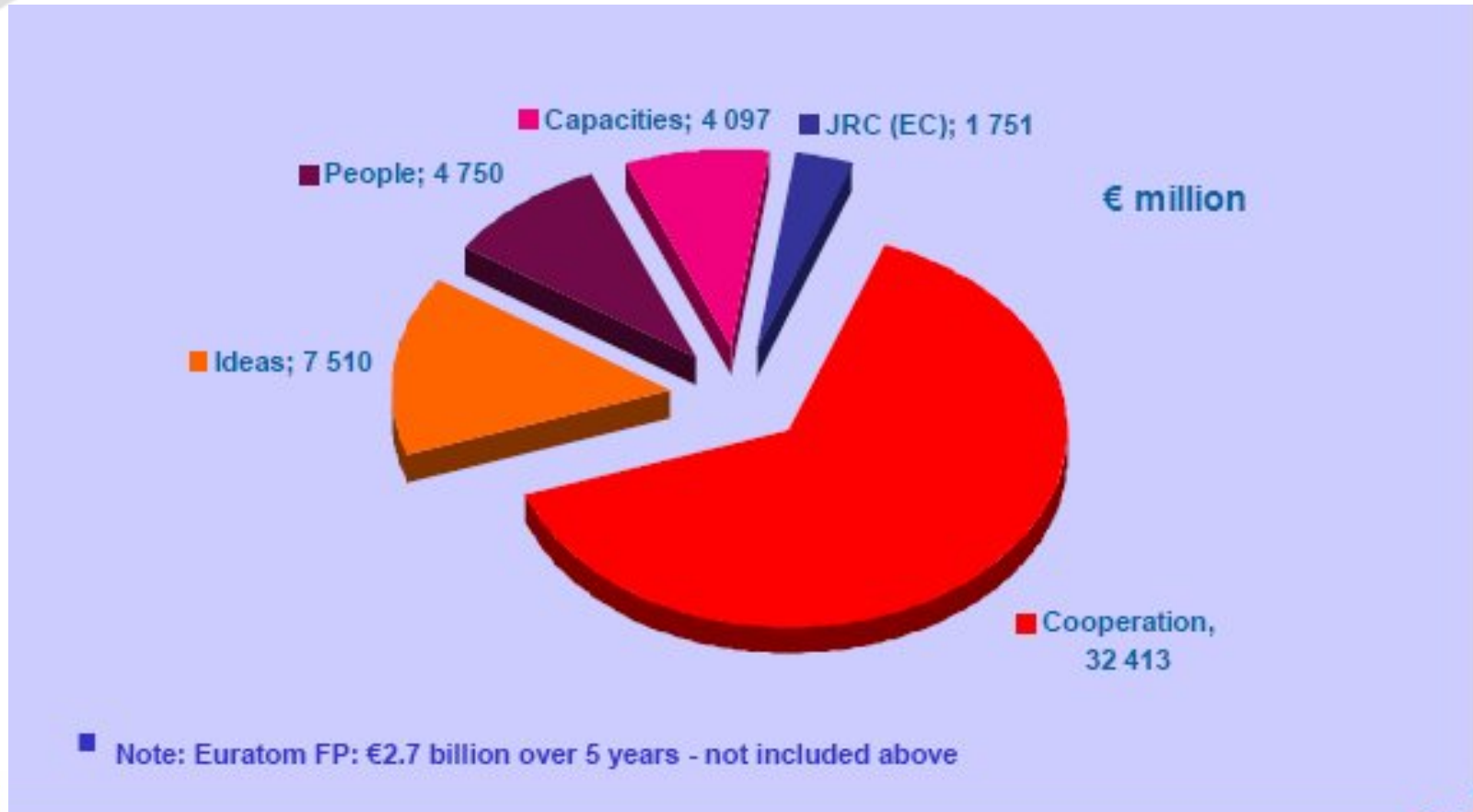
<http://cordis.europa.eu/fp7>

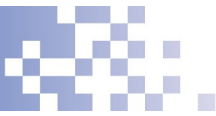
COOPERATION	Health	IDEAS	European Research Council	
	Food, agriculture and biotechnology		PEOPLE	Initial training
	Information and communication technologies			Life-long training
	Nanosciences, nanotechnologies, materials and new production technologies			Industry-academia
	Energy	International dimension		
		Specific actions		
	Environment (including climate change)	CAPACITIES	Research infrastructures	
			Research for the benefit of SMEs	
			Regions of Knowledge	
	Research potential			
Transport (including aeronautics)	Science in society			
	Coherent development of research policies			
Socio-economic sciences and the humanities	International co-operation			
	Non-nuclear actions by the Joint Research Centre			
Security and Space				
Euratom indirect actions	Fusion	Euratom direct actions by the Joint Research Centre		
	Fission			





FP7 budget (€ 50 521 million, current prices)





Cooperation – Collaborative Research

Ten themes

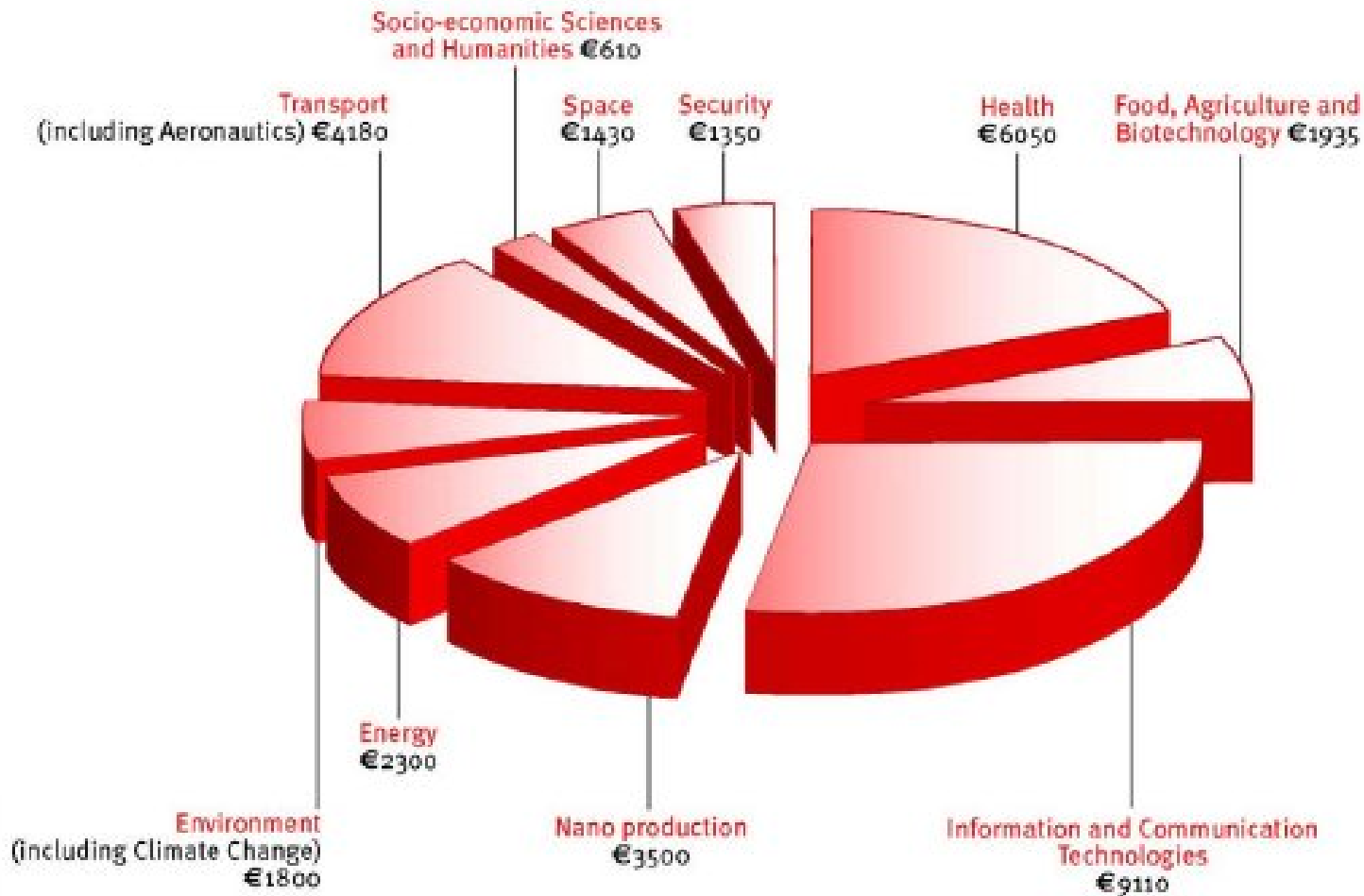
1. Health
2. Food, agriculture and biotechnology
3. Information and communication technologies
4. Nanosciences, nanotechnologies, materials and new production technologies
5. Energy
6. Environment (including climate change)
7. Transport (including aeronautics)
8. Socio-economic sciences and the humanities
9. Space
10. Security

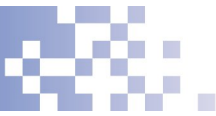
+ Euratom: Fusion energy research, nuclear fission and radiation protection





Cooperation programme - thematic areas (€ million)





Cooperation - Concept

- The Core of FP7
- Continuity with improvements
- Integrated approach - Themes tackle all aspects
 - ✓ Emerging needs – Future and Emerging Technologies
 - ✓ Unforeseen policy needs
 - ✓ International cooperation
 - ✓ Dissemination
 - ✓ SMEs
 - ✓ Cross-thematic approaches
- Annual Work Programmes give comprehensive overview





Cooperation - Tool-box

Support will be implemented across all themes through:

Collaborative research
Collaborative projects
Networks of Excellence
Coordination/support actions
(Alone or in combination)

Joint Technology Initiatives

Coordination of non-Community research programmes
(ERA-NET; ERA-NET+; Article 169)

International Cooperation





Funding Schemes for Cooperation

Collaborative projects

- Consortia with participants from different countries
- Produce new knowledge, technology or common resources for research
- Size, scope and internal organisation of projects can vary
- Can be divided into
 - **Small or medium-scale research projects**
 - **Upper ceiling** for requested Community contribution (eligibility criterion)
 - **Large-scale integrating projects**
 - **Lower (and upper) limit** for requested Community contribution (eligibility criterion)



Funding Schemes for Cooperation

Networks of Excellence

- Functionally integrate activities and capacities in long term perspective
- Joint Programme of Activities
 - Combined use/reallocation of resources
 - Redesign of research portfolios/priorities
 - Exchange of researchers/staff
 - Joint research
 - Training, dissemination, communication activities
- **Formal commitment** of senior management to integration objective
- Number of participants compatible with integration objective (typically, 3-7)





Funding Schemes for Cooperation

Coordination and Support Actions

- Networking
- Exchanges
- Trans-national access to research infrastructures
- Studies
- Conferences, etc.

Eligibility criteria

- **Support:** At least 1 legal entity
- **Coordination:** At least 3 independent MS/AS legal entities





Joint Technology Initiatives (JTI)

- **JTIs** aim to:
 - establish long-term public-private partnerships in research at European level in fields of high industrial and policy relevance
 - co-ordinate research efforts and respond to industry needs
 - lead to flagship projects for European competitiveness
- JTIs build on European Technology Platforms (**ETPs**):
 - in a small number of cases, scale and scope of **Strategic Research Agendas** of ETPs require implementation through dedicated legal structure
 - normal FP instruments not sufficient





Joint Technology Initiatives

Six potential topics identified in the 'Cooperation' Specific Programme:

**Fuel Cells and
Hydrogen
(FCH)**

**Aeronautics and
Air Transport
(‘Clean Sky’)**

**Global Monitoring
for Environment
and Security
(GMES)**

**Innovative Medicines
(IMI)**

**Embedded Computing
Systems
(ARTEMIS)**

**Nanoelectronics
Technology 2020
(ENIAC)**

*Other possible topics
to be identified later...*



Article 169

Participation of the **Community** in research programmes **jointly** Implemented by Member States

Article 169

'In implementing the multiannual Framework Programme, the Community may make provision, in agreement with the Member States concerned, for participation in research and development programmes undertaken by several Member States, including participation in the structures created for the execution of those programmes'

- European co-operation on a large-scale in 'variable geometry' between Member States
- Co-operation between Member States sharing common needs and/or interests
- Identification of Art. 169 initiatives on the basis of clear criteria



Article 169

Four potential initiatives identified in the FP 7 Specific Programmes:

EUROSTARS
(Support to
research performing SMEs)

**Ambient Assisted
Living**

BONUS – 169
(Baltic Sea Research)

**European Metrology
Research Programme
(EMRP)**

*Other possible themes
to be identified later...*



ERA-NET and ERA-NET+

- Continuity and reinforcement of **ERA-NET**
- Normally a **4-step approach**
 - Systematic exchange of information & best practice
 - Definition and preparation of joint activities
 - Implementation of joint activities
 - Funding of joint, trans-national research actions (as much as possible)
- **New topics** not addressed in FP6
- **Broadening** and **deepening** existing ERA-NETs
- Existing ERA-NETs to focus on steps 3 and 4.

NEW:

- **ERA-NET+:** additional EU financial support to 'top-up' joint calls
 - Support to pooled financial resources between national programmes for **joint calls for proposals**
 - **Topping up** maximum 1/3 of the total joint call budget
 - Only **transnational research** projects to be funded

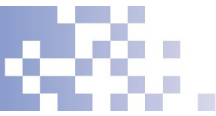




Horizontal issues

- International Cooperation
- Dissemination
- SMEs
- Cross-thematic Approaches





International Cooperation

- International Cooperation activities in all themes
- Key objectives:
 - Promote European competitiveness through strategic research partnerships
 - Address specific third country or global problems
- Contribute to implementing EU policies and fulfilling international commitments
- Promote global sustainable development
- Approach:
 - Enhanced participation of third country researchers in regular projects
 - Specific cooperation actions dedicated to third countries





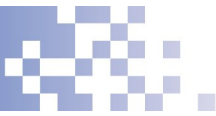
Dissemination and use of R&D results

Need better diffusion and use of **project outputs**



funding at:

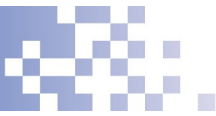
- Project level
 - Innovation-related activities within RTD projects
 - Assistance from external experts
- In all thematic areas
 - Networking initiatives, seminars, brokerage events
 - Focused on specific fields or user groups



Dissemination and use of R&D results

- Complementary actions under the new CIP (Competitiveness and Innovation Programme)
 - Networks such as Innovation Relay Centres
 - IPR-Helpdesk
 - Actions to foster innovation networks and clusters
 - Support to projects and programmes for the dissemination and take-up of innovative technologies
- CORDIS
- Activities of EC Communication Units





Cross-thematic approaches

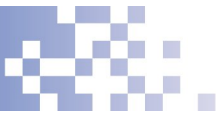
- **Coordinated Calls or topics**

- Example: Climate change/biodiversity/marine science

- **Joint Calls**

- Example: ICT/Security: Security systems, interconnectivity and interoperability





CONCLUSION

The FP7 **Cooperation** Programme

- Provides continuity, increased opportunities, integrated approach, clear overview
- Will further strengthen cooperation between companies, universities and research Centres in Europe



ARC FUND



Thank you for your attention!

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