FP7
Rules of participation
Funding schemes
Evaluation criteria and submission of proposals

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EU research: the story so far

- **1952:** ECSC treaty; first projects started March 1955
- **1957:** Euratom treaty; Joint Research Centre set up
- **1983:** ESPRIT programme
- **1984:** First Framework Programme (1984-1987)
- **1987:** 'Single European Act' – science becomes a Community responsibility;
  Second Framework Programme (1987-1991)
- **1990:** Third Framework Programme (1990-1994)
- **1993:** Treaty on European Union;
- role of RTD in the enlarged EU
- **1994:** Fourth Framework Programme (1994-1998)
- **1998:** Fifth Framework Programme (1998-2002)
- **2000:** European Research Area
- **2002:** Sixth Framework Programme (2002-2006)
- **2005:** Proposal for the Seventh Framework Programme (2007-2013; 2007-2011 for Euratom)

What's new in FP7

- **Our global budget of more than €50 billion over 7 years**, which represents a significant increase with respect to FP6 in terms of annual money.
- FP7 will last longer, running for **seven years** rather than four, from 2007 to 2013, allowing for longer term planning of research activities
- **A simpler structure, organised into four main programmes: Cooperation, Ideas, People and Capacities** (in addition to the JRC and EURATOM programmes).
- **The introduction of the European Research Council (ERC)** through the Ideas SP for boosting Basic Research at European level.
- **Simplification in implementing the programme:** aspects of this are a **unique registration facility** for all prospective participants, **the introduction of a unique cost model etc.**
- Integration of the **international dimension** into all four Specific Programmes

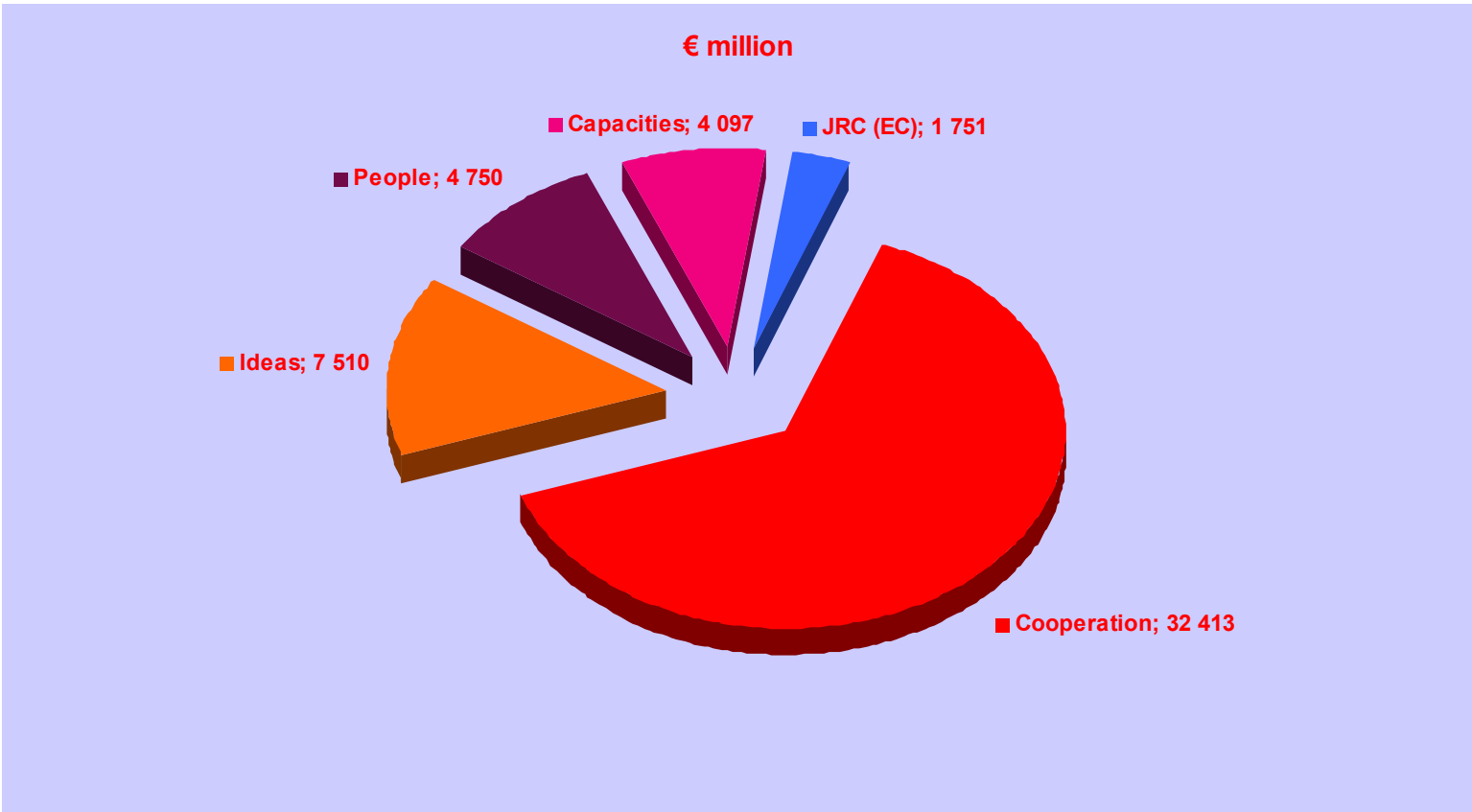
FP7 Specific Programmes 2007 - 2013

Cooperation – Collaborative research	60.8%
Ideas – Frontier Research	14.1%
People – Marie Curie Actions	8.9%
Capacities – Research Capacity	7.7%

+

JRC non-nuclear research	3.3%
Euratom– JRC nuclear research	1.0%
Euratom– nuclear fusion and fission research	4.2%

FP7 budget (€ 50 521 million)

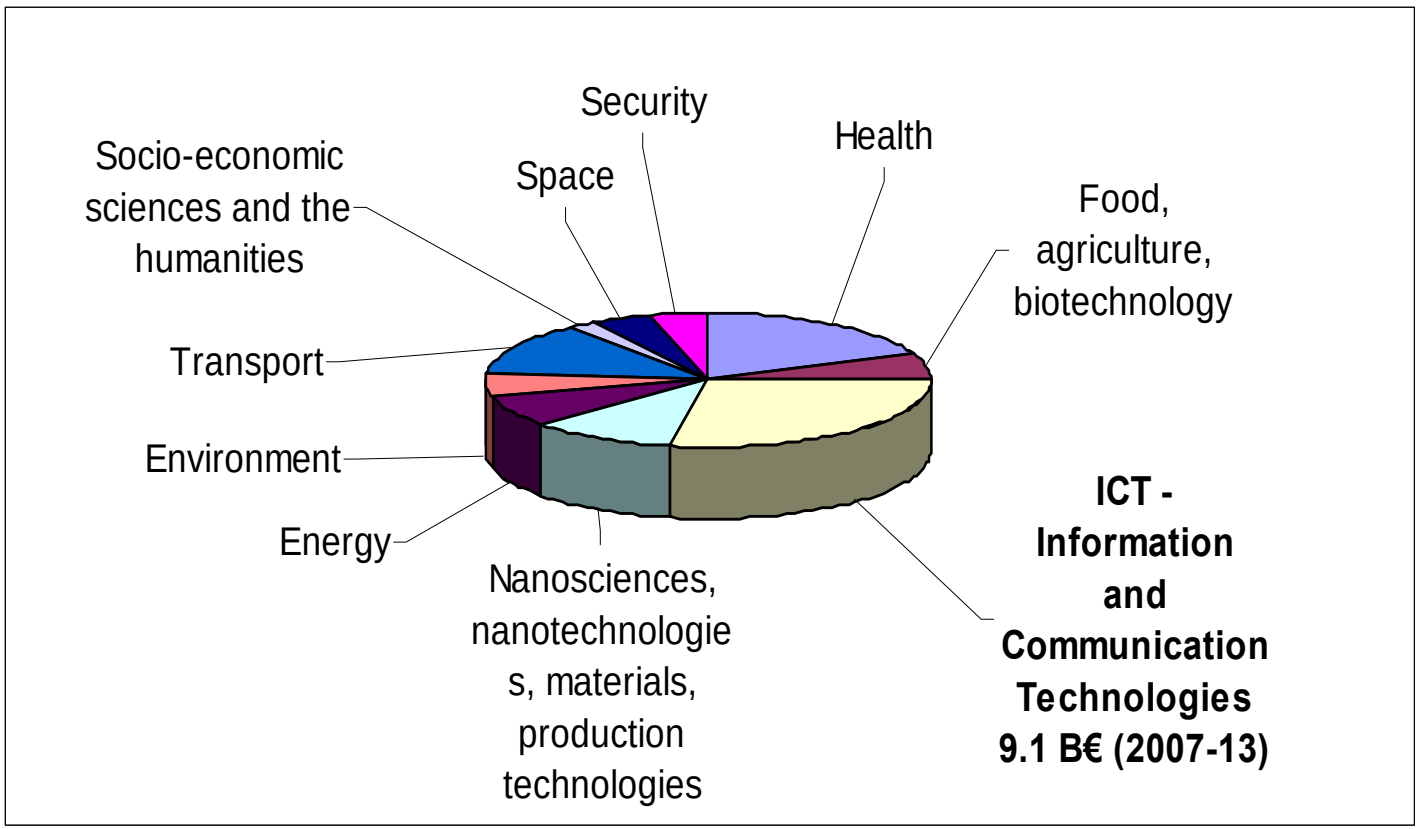


FP7 "Cooperation": Themes

Health	6,000
Food, Agriculture & Biotechnology	1,935
Information & Communication Technologies	9,120
Nanosciences, Nanotechnologies, Materials & new Production Technologies	3,505
Energy	2,300
Environment (including Climate Change)	1,900
Transport (including Aeronautics)	4,195
Socio-Economic Sciences & the Humanities	610
Space	1,430
Security	1,320

Source: European Commission

FP7 Cooperation Programme



Ideas – European Research Council

- Frontier research
- Support to individual teams, to promote excellence through Europe-wide competition
- Executive Agency
- Independent scientific governance (Scientific Council)

- ***Source: European Commission***

People – Human Potential

Initial training of researchers (≈40%)
Marie Curie Networks

Life-long training and career development (25-30%)
Individual Fellowships
Co-financing of regional/national/international programmes

Industry-academia pathways and partnerships (5-10%)
Industry-Academia Scheme

International dimension (25-30%)
Outgoing International Fellowships; Incoming International Fellowships
International Cooperation Scheme; Reintegration grants

Specific actions (≈1%)
Excellence awards

Capacities – Research Capacity

- Research infrastructures
- Research for the benefit of SMEs
- Regions of Knowledge
- Research Potential
- Science in Society
- Coherent development of policies
- Activities of International Cooperation

Source: European Commission

FP7 Cooperation Programme
Theme 1. Health

- Biotechnology, generic tools and technologies for human health
- Translating research for human health
- Optimising the delivery of healthcare to European citizens

Source: European Commission

FP7 Cooperation Programme

Theme 2. Food, Agriculture and Fisheries, and Biotechnology

- Sustainable production and management of biological resources from land, forest, and aquatic environments
- 'Fork to farm': Food, health and well being
- Life sciences and biotechnology for sustainable non-food products and processes

Source: European Commission

FP7 Cooperation Programme

Theme 3. Information and Communication Technologies

- ICT Technology Pillars
- Integration of Technologies
- Applications Research
- Future and Emerging Technologies

Source: European Commission

FP7 Cooperation Programme

Theme 4. Nanosciences, Nanotechnologies, Materials and new Production Technologies

- Nanosciences and nanotechnologies
- Materials
- New production
- Integration of technologies for industrial applications

Source: European Commission

FP7 Cooperation Programme
Theme 4. Energy

- Renewables, clean energy, C02 emissions, efficiency, etc.
- Nuclear fission and radiation protection (under Euratom FP)
- Fusion energy research (under Euratom FP)

Source: European Commission

FP7 Cooperation Programme

Theme 6. Environment (inc. climate change)

- Climate change, pollution and risks
- Sustainable management of resources
- Environmental technologies
- Earth observation and assessment tools

Source: European Commission

FP7 Cooperation Programme
Theme 7. Transport (inc. aeronautics)

- Aeronautics and air transport
- Surface transport (rail, road and waterborne)
- Support to the European global satellite navigation system (Galileo)

Source: European Commission

FP7 Cooperation Programme

Theme 8. Socio-Economic Sciences and the Humanities

- Growth, employment and competitiveness in a knowledge society
- Combining economic, social and environmental objectives in a European perspective
- Major trends in society and their implications
- Europe in the world
- The citizen in the European Union
- Socio-economic and scientific indicators
- Foresight activities

Source: European Commission

FP7 Cooperation Programme
Theme 9. Space

- Space-based applications
  at the service of the European society
- Exploration of space
- RTD for strengthening space foundations

Source: European Commission

FP7 Cooperation Programme
Theme 10. Security

- Protection against terrorism and crime
- Security of infrastructures and utilities
- Border security
- Restoring security in case of crisis
- Security systems integration and interoperability
- Security and society
- Security research Coordination and structuring

Source: European Commission

IDEAS Programme
ERC budget 2007-2013

Source: European Commission

- **Total (FP7 Ideas budget): € ≈7.5 bn**
  - ✓≈ 15 % of FP7 budget
  - ✓≈1/3 Starting Grants, ≈ 2/3 Advanced Grants
  - ✓Less than 5% for operational ERC management
- **1st Call**
  - ✓StG only, Jan 2007, € 300 Mio.
- **2nd Call**
  - ✓AdG only, August 2007, € 550 Mio.
- **3rd call onwards:**
  - ✓StG + AdG ≈ € 1.0 bn per year

IDEAS Programme

First Call of Proposals

Source: European Commission

ERC Starting Independent Researcher Grant (ERC Starting Grant)

- ***The only programme funded in 2007***
- ***Ca. 200 new investigators/year in any field; funded ca. 1.5 M€ up to 5 yrs***
- ***Sole selection criterion: Excellence of person & proposal***
- ***Eligibility:***
  (a) 2-9 years since PhD (at submission deadline) (could be up to 12 years according to specific circumstances)
- ***(b) Newly established in research or educational position (or offer of position), within EU or associated States***
- ***(c) No nationality criterion: The 3 Rs:***
- ***Recruit, Repatriate, Retain TOP TALENT (ca 1200 positions in 7 years)***

Source: European Commission

Applying for ERC Grants (II)

Source: European Commission

Eligibility (ERC Starting Grant)

- **PI**
  - ✓ 2-9 years since completion of PhD: Special circumstances will be taken into account, such as maternity/paternity leave, military/civil service (+2 years max.)
- **PI and contributing investigators (team members)**
  - ✓ Any nationality
  - ✓ One ERC Grant per investigator only may be active at any one time
- **Hosting institution**
  - ✓ Located in a *EU member state or associated country*
  - ✓ Intra-European grant portability allowed

People – Marie Curie Actions

Source: European Commission

Initial training of researchers
Marie Curie Networks*

Life-long training and career development
Individual Fellowships
Co-financing of regional/national/international programmes

Industry-academia pathways and partnerships
Industry-Academia Knowledge-sharing Scheme*

International dimension
Outgoing & Incoming* International Fellowships; International Cooperation Scheme; Reintegration grants; Support to researcher 'diasporas'*

Specific actions
Mobility and career enhancement actions; Excellence awards

*** Open to third-country nationals**

People SP - Marie Curie Actions in FP7

Source: European Commission

Host - Driven Actions (open to 3rd country nationals*)						
Type of activity & experience required	Marie Curie Networks			Industry-Academia Partnerships & Pathways		
	Initial training	Visiting scientists	Conferences, workshops, training courses	*Recruitments* (can be from the outside of the partnership)	Exchange Staff (Secondments)	Conferences, workshops, training courses
More experienced researchers (> 10 yrs)	-	+	+	+		
Experienced researchers (> 4 yrs or PhD)	-	(+)	+	+	+	++
Early Stage Researchers (< 4 yrs + 1 yr)	+	-	+++	-	+	++

Including technical staff

* Under certain conditions

+ eligible - not eligible

People SP - Marie Curie Actions in FP7

DRAFT

New

Source: European Commission

Individual - Driven Actions (open to 3rd country nationals*)						
Type of activity & experience required	Intra-European Fellowships for Career Development	European Career Reintegration Grants	International Outgoing Fellowships for Career Development	International Incoming Fellowships (Transfer of knowledge)	International Reintegration Grants	Co-funding of regional, national and international programmes
			Reintegration phase included	Reintegration under specific conditions		Reintegration phase could be included
More experienced researchers (> 10 yrs)	+	+	+	+	+	+
Experienced researchers (> 4 yrs or PhD)	+	+	+	+	+	+
Early Stage Researchers (< 4 yrs + 1 yr)	-	-	-	-	-	-

* Under certain conditions

+ eligible

- not eligible

Objectives of Capacities

- Enhance research and innovation capacities in Europe
  - ⇨ Research infrastructures, SMEs
- Promote the development of regional research-driven clusters
- Unlock and develop the research potential in the EU´s "convergence regions" and outermost regions

Actual collaborative research activities will not be promoted through this Area

⇨ **Complement the Cooperation Programme**

Source: European Commission

Capacities Areas and Budget

Source: European Commission

Budget : 4 097 M€	
Areas	
Research Infrastructures	1 715 M€
Research for the benefit of SMEs	1 336 M€
Regions of knowledge	126 M€
Research Potential	340 M€
Science in Society	330 M€
Coherent development of research policies	70 M€
Activities of International Cooperation	**180 M€**

Research Infrastructures

Objectives

Source: European Commission

- Optimising the use and development of the best research infrastructures existing in Europe
- Creating new research infrastructures of pan-European interest
  - in all fields of science and technology

Research Infrastructures

Activities

Source: European Commission

- For existing research infrastructures
  - Promote transnational access
  - Integration activities
  - Strengthening ICT-based e-infrastructures
- For new research infrastructures
  - Design studies
  - Support to construction
    - Preparatory phase
    - Construction phase

Research Infrastructures

International Cooperation

- Added value from partner countries concerning the research infrastructures (databases, data gathering…)
- Targeted calls to identify mutual interests between EU and ICPC

Source: European Commission

Research for the benefit of SMEs

Objectives

- Optimizing the participation of the SMEs in the FP7
- Strengthening the 'innovation capacity' of SMEs in Europe
- Supporting SMEs in outsourcing research activities

Source: European Commission

Regions of knowledge and Research potentia

Objectives

No funding of research

- Strengthening the research potential of European regions
  - ⇨ Development of regional 'research-driven clusters'
- ⇨ ***Particularly in convergence and outermost regions***
- Promoting their successful participation in research activities at the European level
  - ⇨ Strengthening the capacities of the researchers

Source: European Commission

Regions of knowledge and Research potentia

International Cooperation

- Concerns mainly the Research potential Area
  - Researcher exchanges
  - Dissemination of results in conferences

Source: European Commission

Science in Society

Objectives

- Promoting scientific knowledge in society
- Raising awareness of the public on scientific ethics
- Strengthening the public understanding of the importance of research activities on society

Source: European Commission

Science in Society

Activities

- Promoting debates on the relations between and science and society
  - Ethics
  - Reciprocal influence
- Strengthening the potential
- Improving communication between science and society

Source: European Commission

International Cooperation

Objectives

Coordination of the international cooperation actions

- Sustaining the European competitiveness
  - ✓ Strategic partnerships with Third Countries
  - ✓ Encouraging researchers to work in Europe
- Helping Third Countries to solve the problems they face

Source: European Commission

International Cooperation: Third Countries

1- Associated countries

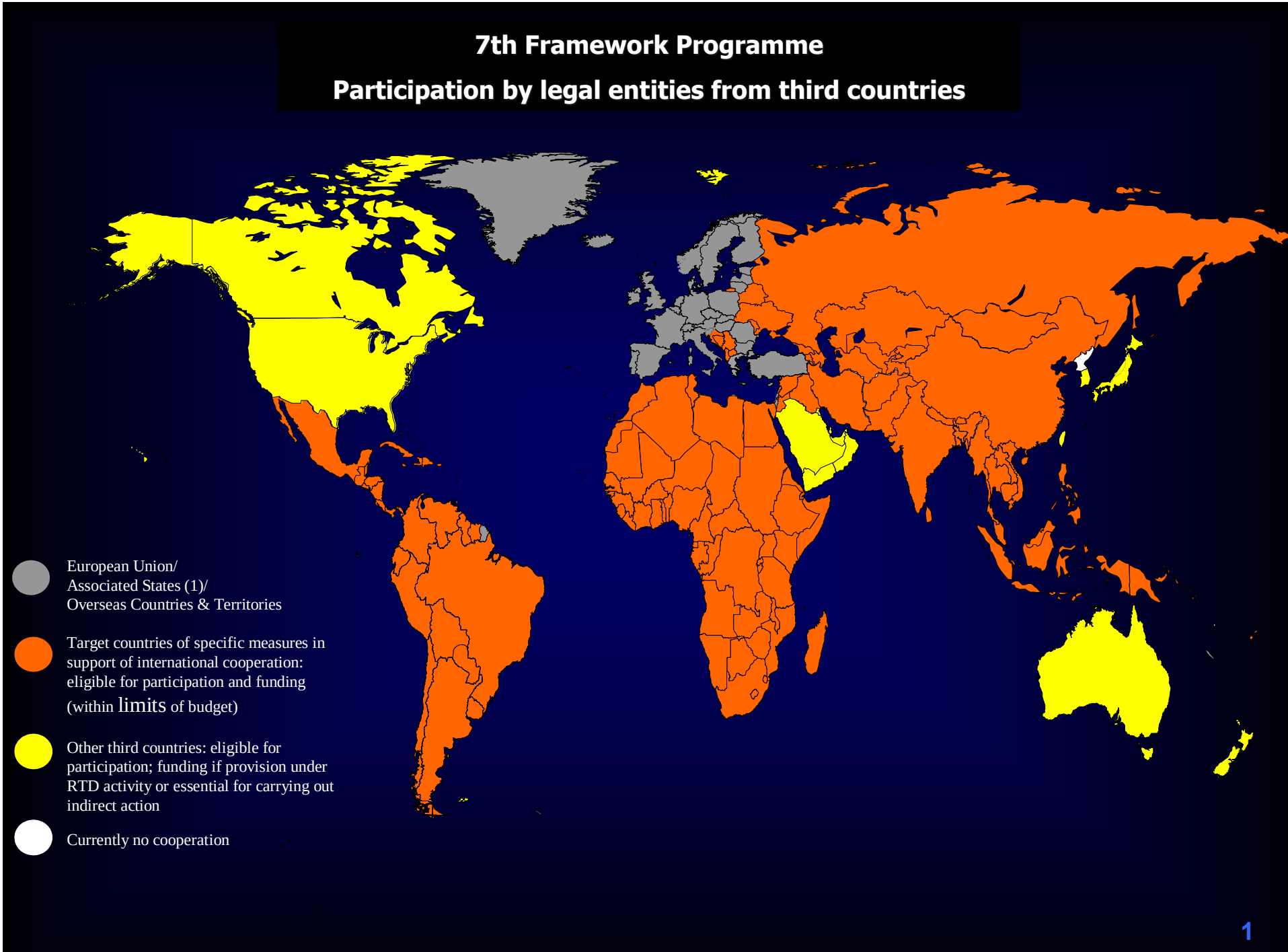
2- Industrialised countries (USA, Canada, Japan, Australia….)

3- International Cooperation Partner Countries **(ICPC):**

- **Countries neighbouring the EU** (Mediterranean Partner Countries, Western Balkans, Eastern European and Central Asian Countries)
- **Developing countries** (ACP, ASIA, Latin America)
- **Emerging economies** (e.g. China, India, Brazil, Russia, South Africa)

7th Framework Programme

Participation by legal entities from third countries



International Cooperation

Bi-regional Coordination of S&T Cooperation (Call 1)

- Definition of priorities and policies
- Strengthening participation from targeted countries and regions in FP7

Funding scheme: INCO-NET

Source: European Commission

International Cooperation

Enhancing bilateral S&T Cooperation Partnerships (Call 2)

- Identifying and demonstrating mutual interest and benefit
- Sharing best practices

Funding scheme: CSA

Source: European Commission

International Cooperation

Supporting the coordination of National INCO Policies and Activities (Call 3)

- Strengthening the cooperation and coordination

Funding schemes: ERA-NET (call 3.1) & ERA-NET PLUS (call 3.2)

Source: European Commission

International Cooperation

The calls

Calls	**Participants**	**Opening / Closure**	**Scheme**	**Project budget** (ind.)	**Max duration** (ind.)
FP7-INCO-2007-1	- 3+ EM/ EA - "significative number" of ICPC	22-12-06 / 02-05-07	CSA	3 M €	4 years
FP7-INCO-2007-2	- Min. 1 legal entity	02-05-07/ 04-09-2007	CSA	0.5 M €	3 years
FP7-INCO-2007-3.1	- Min. 3 EM/EA	02-05-07/ 04-09-07	CSA (ERA-Net)	3 M €	4 years
FP7-INCO-2007-3.2	- Min. 5EM/EA	02-05-07/ 04-09-07	CSA (ERA-Net PLUS)	>3 M €	5 years

Cooperation Tools

Collaborative research

Collaborative projects
Networks of Excellence
Coordination/support actions

Joint Technology Initiatives

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

International Cooperation

First Calls for proposals

- 42 calls published on 22 December

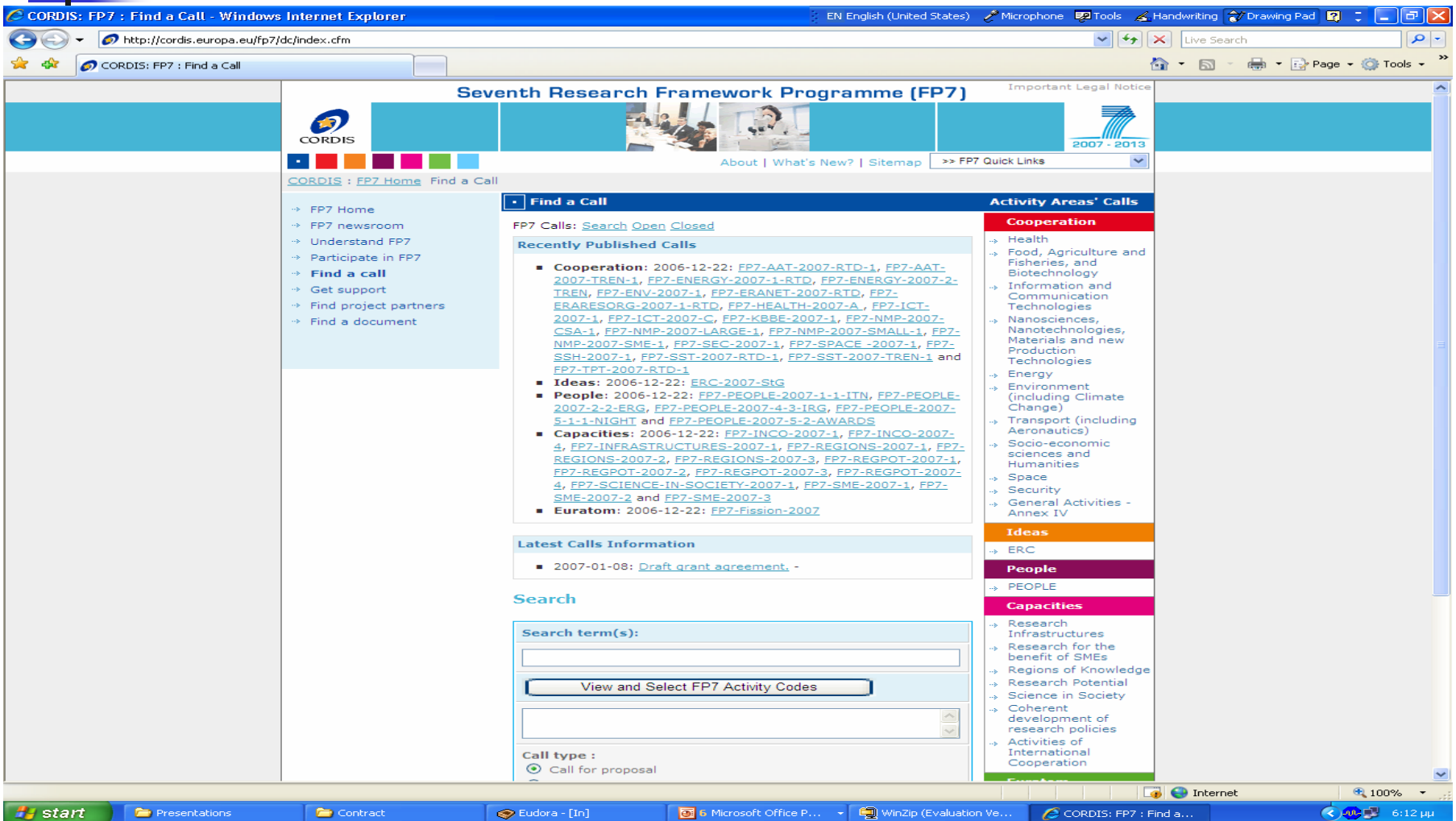
see CORDIS for more information:
http://cordis.europa.eu/fp7/dc/index.cfm

- Calls sorted by call identifier and by Specific Programme

- ***Source: European Commission***

First Calls for proposals

http://cordis.europa.eu/fp7/dc/index.cfm



More Info.....

- EU research: http://ec.europa.eu/research
- Seventh Framework Programme: http://ec.europa.eu/research/fp7
- Information on research programmes and projects: http://cordis.europa.eu/fp7/
- RTD *info* magazine: http://ec.europa.eu/research/rtdinfo/
- Information requests: http://ec.europa.eu/research/enquiries/

Thank you for your attention