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# FP7 - INTERNATIONAL COOPERATION

## ENERGY THEME & NEW INCO PROGRAMME

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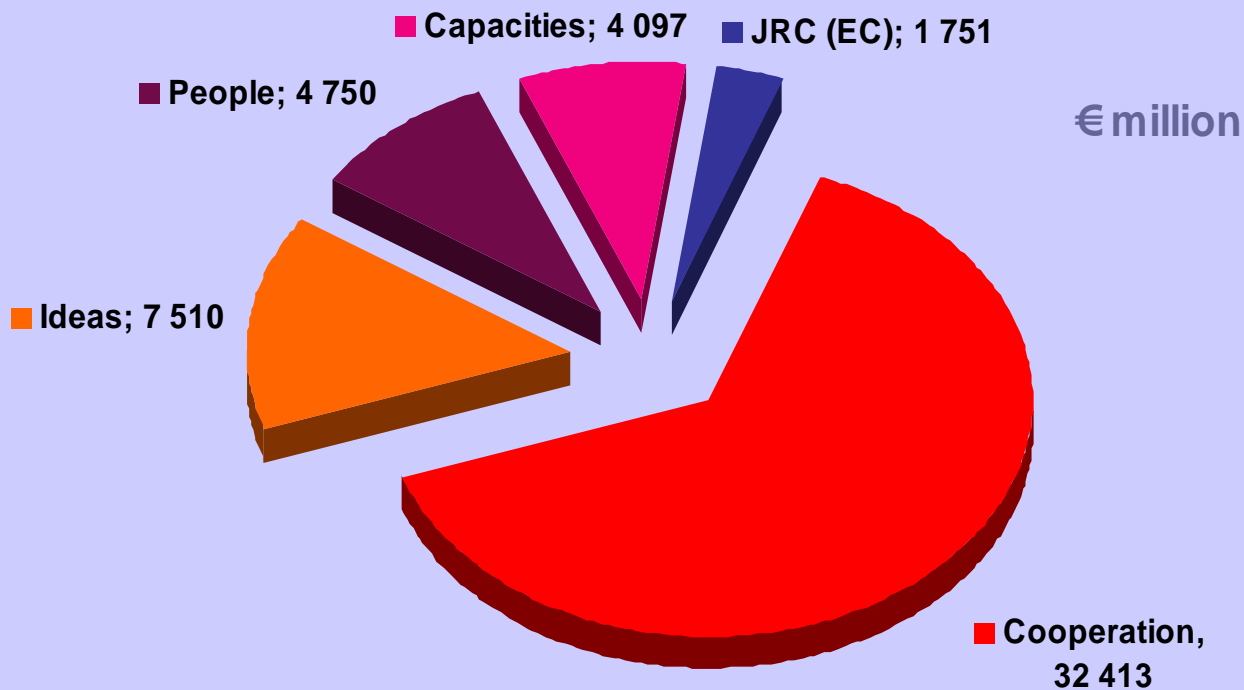
# The 7<sup>th</sup> Framework Programme of research

## Main new elements of FP7 compared to FP6

- Duration increased from five to seven years (except for Euratom FP)
- Annual budget increased significantly
- Basic research (~ €1 billion per year) and ERC
- New structure: cooperation, ideas, people, capacities
- Simpler procedures
- ERA-NET (coordination national programmes, Art. 169) can be part of the Themes
- FP7 topics should integrate within the research activity itself (e.g. coordinated calls)



# FP7 budget (€50 521 million, current prices)



■ Note: Euratom FP: €2.7 billion over 5 years - not included above



# FP7 2007-2013 'Cooperation' budget

## I. Cooperation

Budget  
(€million,  
current prices)

1. Health	6 100
2. Food, agriculture and fisheries, and biotechnology	1 935
3. Information and communication technologies	9 050
4. Nanotechnologies, materials and production	3 475
5. Energy	2 350
6. Environment	1 890
7. Transport	4 160
8. Socioeconomic research	623
9. Space	1 430
10. Security	1 400
Total	32 413

\* Not including non-nuclear activities of the Joint Research Centre: €1 751 million



# A new approach to support International Cooperation

- The theme-oriented international cooperation actions are carried out under the **Cooperation Specific Programme** with:
  - the **opening of all activities to third countries** – both for ICPC and industrialised countries in the Themes &
  - the introduction of **Specific international co-operation actions (SICAs)** dedicated to ICPCs.
- The international actions in the area of human potential are carried out under the **People Specific Programme**
- INCO actions of the **Capacity Specific Programme** are designed to
  - identify **S&T priorities** with Third Countries,
  - reinforce the **participation** of these countries in FP7
  - promote a **co-ordinated approach among MS** to S&T international Cooperation.
- Also the **Ideas Specific Programme** is open to 3rd Countries.



## 1- Associated countries

(Iceland, Liechtenstein, Norway, Switzerland, Israel, Turkey, WBCs)

▶ **Same prerogatives as Member States**

## 2- International Cooperation Partner Countries (ICPC):

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

▶ **Can be funded**

## 3- Industrialised countries (USA, Canada, Japan, Australia....)

▶ **Funded only exceptionally**

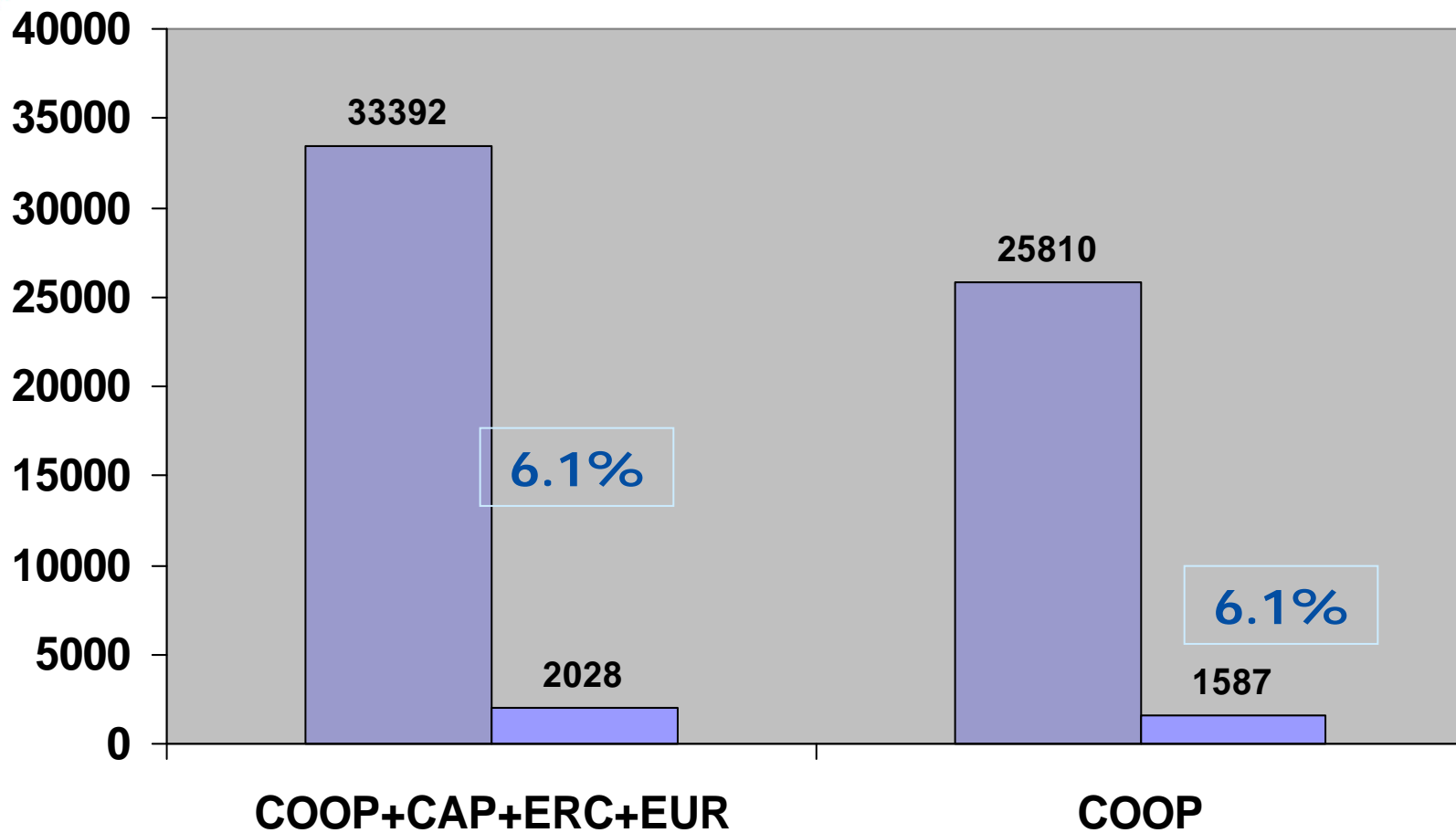


# Main objectives of International Cooperation in FP7

- Support Europe competitiveness through **strategic partnerships** with third countries in selected fields of science, also attracting researchers and resources
- Address specific problems facing third countries on the basis of **mutual interest and mutual benefit** (e.g. global challenges)
- Use S&T cooperation to **reinforce the Community's external relations** and other relevant policies, strengthening Europe's role in the world (knowledge, markets, progress)



# FP7 all SP (except People) / Cooperation SP



■ Total applications ML

■ Total third country applications ML





# Mechanisms for implementation of international cooperation

- “Opening” of all activities and topics of the work programme to international cooperation
  - “Targeted Opening” to the participation of third countries or regions
  - Specific International Cooperation Actions (SICA)**
- Other specific actions such as **twinning of projects** or **joint co-funded projects**



# Mechanisms

## Rules of participation

- **Opening:** all topics of the work programme are open to the participation of applicants from third countries
- **Targeted Opening:** topics for which the participation of well targeted third countries or regions **is explicitly encouraged**
  - The participation of the third country partner is in addition to the legal minimum consortium of
    - ✓ 3 partners from 3 different EU Member States and/or Associated States for collaborative projects
    - ✓ 1 partner from a EU Member State and/or Associated State for Coordination Support Actions



# Rules of participation Twinning – Coordinated Call

**Other Specific actions:** topics especially designed for information exchange or for co-funded joint research with targeted third country partners

- Twinning of existing research projects
  - Coordinated Call for joint research



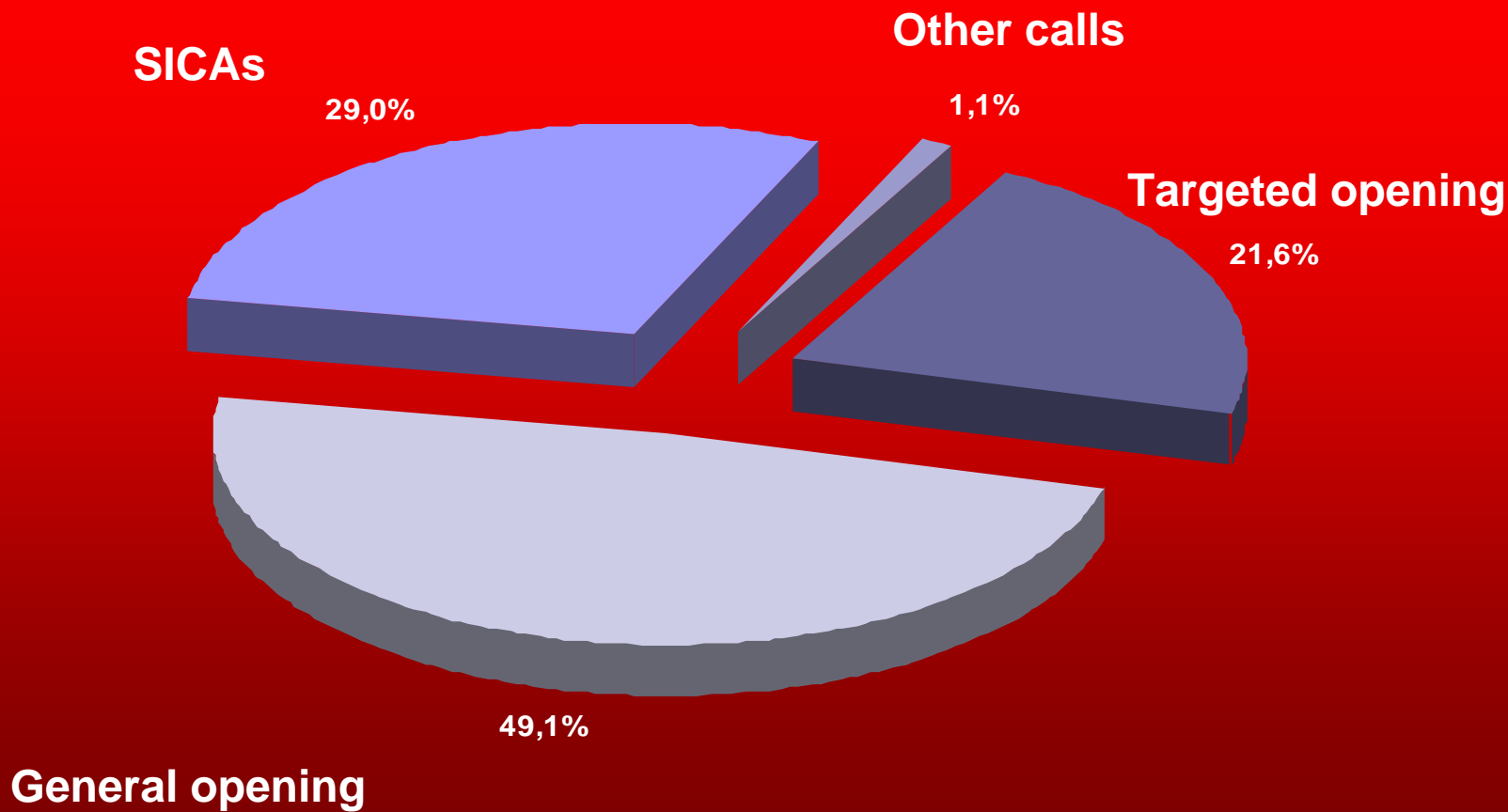
# Rules of participation - SICA

- **Specific International Cooperation Actions (SICA):** topics especially designed and devoted to the international cooperation with targeted ICPC (International Cooperation Partner Countries)
  - Collaborative Project: The minimum number of participants is 4 partners out of which 2 from different EU Member States and/or Associated States + 2 partners from two different ICPC\*

(\*): Except for China, India, Brazil and Russia that are considered as regions. The rule is minimum 2 partners from two different provinces or oblasts or states from these countries.



# SICAs, Targeted Openings and Coordinated calls (main listed applications)





## FP7n – SP Cooperation

- **Energy** in the 7<sup>th</sup> Framework Programme
  - ➔ Dedicated Theme - **ENERGY THEME** - of the Cooperation Programme (Budget: 2.3 million €)
  - ➔ Addressed by many FP7 Themes and activities (e.g. Agriculture, Materials, Information Technologies, Transport, Research Infrastructures, Marie Curie etc.)



# The Energy Theme - Objectives

- Adapting the current fossil-fuel based energy system into a
  - more sustainable one
  - less dependent of imported fuels
  - based on a diverse mix of energy sources and carriers
- Addressing the challenges of
  - security of supply and
  - climate change
  - whilst increasing the competitiveness of Europe's industries



# The Energy Theme

## Thematic coverage (Areas)

**1. Hydrogen and fuel cells**

**CO2 capture and storage technologies for zero emission power generation**

**2. Renewable electricity generation**

**Clean coal technologies**

**3. Renewable fuel production**

**Smart energy networks**

**4. Renewables for heating and cooling**

**Energy savings and energy efficiency**

**Knowledge for energy policy making**

**Horizontal Programme Actions**



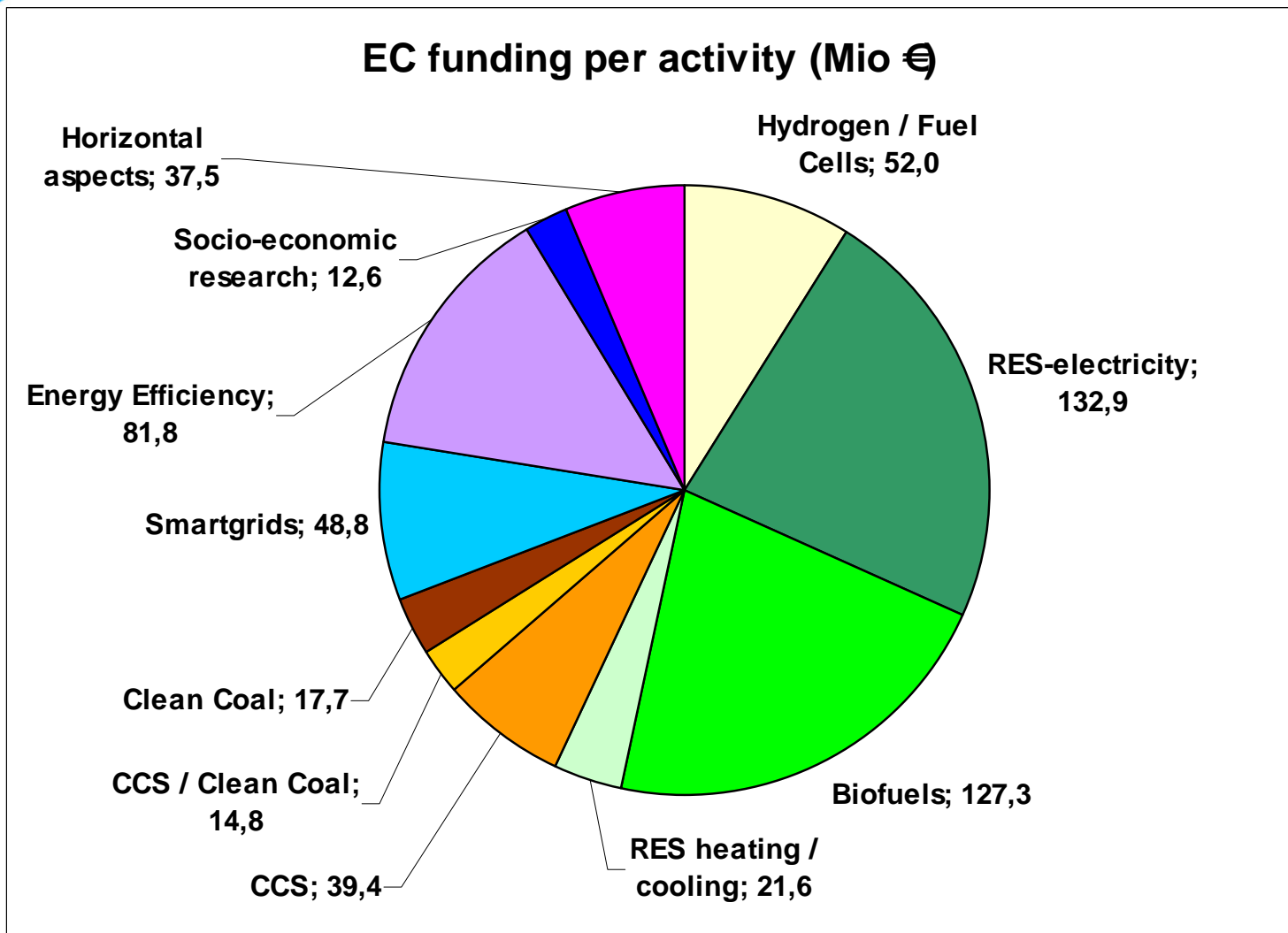


# The Work Programme

- FP7 is implemented through competitive calls for proposals
- Content of the calls is based on the annual Work Programmes
- Terminology
  - ➔ **Theme** (Energy)
    - ➔ **Activity** (nine in the Energy Theme)
      - ➔ **Area** (stable throughout FP7, but with flexibility)
        - ➔ **Topic** (subjects open for proposals in the calls, only in the year in question)



# The Energy Theme - FP7 Implementation so far



*Including calls from DG RTD and DG TREN from 2007 and 2008*



# International Cooperation FP7 Energy theme

- Global nature of the energy challenges, threats and opportunities

→ Sustainable development of energy systems

→ Security of energy supply and Climate Change




International Cooperation dimension is an increasing important element of the energy research policy



# FP7 – SICAs on Renewable energy

ENERGY.2007.3.2.7	Identifying research needs and technological opportunities for <b>Biofuels</b> production in Latin America
ENERGY.2007.9.1.4	Energy technology transfer ( <i>emerging economies, EU Neighbouring and Developing Countries</i> )
ENERGY.2007.5&6.2.1	Support to regulatory activities for CO2 capture and storage ( <i>China, India, Brazil, South Africa</i> )
ENERGY.2008.3.2.1	Enhancing international cooperation between the EU and Latin America in the field of <b>biofuels</b>
ENERGY.2008.2.1.1	Strategic INCO initiatives in <b>photovoltaics</b> ( <i>MPCs</i> )
ENERGY.2009.3.3.2	Enhancing exchange of information, synergies and cross-fertilisation between projects in the field of <b>Biorefineries</b>



Towards  
a low carbon  
future

# European Strategic Energy Technology Plan (SET-Plan)

**European Commission**



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# Energy Research information

- Energy Research web site

[http://ec.europa.eu/research/energy/nn/inco/index\\_en.html](http://ec.europa.eu/research/energy/nn/inco/index_en.html)



**NEW !**



- Seventh Framework Programme

[http://cordis.europa.eu/fp7energy/int-cooperation\\_en.html](http://cordis.europa.eu/fp7energy/int-cooperation_en.html)





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# FP7 - SP CAPACITIES International Cooperation

**Coordination of the international cooperation actions under the different programmes and across Themes**

## Aim:

*To strengthen overall coordination to ensure a coherent approach and develop synergies with other Community policies (RELEX, DEV, Trade, ENV...)*



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# International cooperation in CAPACITIES SP *FP7 – INCO projects*

**Policy Dialogue**

**S&T Cooperation Partnerships**

**Coordination of National Policies & Activities**

**COOPERATION**





# CAPACITIES - International Cooperation Work Programme 2007-2009

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

② Bilateral S&T Cooperation Partnerships (BILAT)

Supporting the EU access to third country programmes (ACCESS4EU)

③ Coordination of National INCO Policies and Activities (ERA-NET)

Transnational cooperation among NCP (INCO NCP)



## Bi-regional Coordination of S&T cooperation

INCO-NETs are platforms bringing together policy makers and stakeholders of one target region/country with the EU to:

- **Identify research needs and set S&T cooperation priorities for mutual benefit and interest; define cooperation policy orientations**
- **Implement specific activities to promote the participation of the targeted regions/countries in the Framework Programme**
- **Identify areas for enhanced co-ordination between Member States, Associated States and International Cooperation Partner Countries**
- **Strengthening co-ordination and complementarities with activities carried out by means of Community foreign policy instruments**



# CAPACITIES - International Cooperation

## INCO-NET – WP 2007 Results

Project	Coordinator	Start Date	Kick-off meeting
<b>WBC-INCO.NET</b>	Zentrum für Soziale Innovation, Austria	<b>1/01/2008</b>	01/02/08, Ljubljana, Slovenia
<b>IncoNet EECA</b>	International Center for Black Sea Studies, Greece	<b>1/01/2008</b>	16/01/08, Athens, Greece
<b>SEA-EU-NET</b>	Deutsches Zentrum für Luft- und Raumfahrt e.V., Germany	<b>1/01/2008</b>	21/01/08, Bonn, Germany
<b>MIRA</b>	Consejo Superior de Investigaciones Cientificas, Spain	<b>1/01/2008</b>	10/01/08, Seville, Spain
<b>EULARINET</b>	Ministerio de Educacion y Ciencia, Spain	<b>1/03/2008</b>	26/03/08, Buenos Aires, Argentina
<b>CAAST-Net</b>	Association of Commonwealth Universities, UK	<b>1/01/2008</b>	18/02/08, Mombassa, Kenya



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# INCO-NET call 2010

This call provides an opportunity for the INCO-NET projects selected in the first call (FP7-INCO-2007-1) to **expand** their geographical coverage and/or **deepen** their coordination and structuring activities



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To promote improved cooperation in science and technology between Europe and Sub-Saharan Africa

*The **Joint Africa-EU Strategy and Action Plan** adopted at the Lisbon Summit in December 2007 set the goal to create a privileged partnership between the EU and Africa - including on "**Science, Information Society and Space**" (hereafter "**8<sup>th</sup> partnership**").*

*COM (2007) 357 "Joint Africa EU Strategy"*





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# CAAST-Net: Facts & Figures

## INCO-NET, FP7 Capacities Programme

- 4 year project, starting 01-01-2008.
- €3 million budget.
- 7 work packages.
- 18 consortium partners: 10 in Africa, 8 in Europe.



# CAAST-Net: Partner countries

## ■ Africa

- Kenya
- Rwanda
- Uganda
- Madagascar
- Cape Verde
- South Africa
- Research Africa (Pty) Ltd.
- Senegal
- Ghana
- Cameroun

## ■ Europe

- Finland
- Norway
- Portugal
- IRD France
- CIRAD France
- Germany
- Sweden
- UK



# CAAST-Net Objectives

- To support and inform the Africa-Europe science and technology policy dialogue and cooperation processes.
- Identify and prioritize common research areas.
- Promote greater synergy between instruments for Europe-Africa S&T partnerships under the Framework Programme, and development cooperation instruments, notably the EDF.
- Improving the quality and quantity of coordinated practical support to Africa's participation in FP7.
- Monitor the performance and impact of Europe-Africa S&T cooperation and cooperation policy under FP6 and FP7.





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# CAAST-Net: core activities

- Identify mutual research topics - SICAs
- Policy dialogue platform



## Priority setting & communication strategy meeting

23 – 24 April, Brussels

- Joint EU-Africa expert thematic workshops
- 2009: Three thematic priorities:
  - Energy (Senegal);
  - Health (Cameroun);
  - Transport (location to be confirmed).
- 2010: Alternative approach:
  - Multi-thematic, oriented to R4D outcomes, multi-instrument, collaboration with MIRA.



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# Call FP7-2007-INCO-1

## INCO-NET – Project Information

**WBC:** <http://www.wbc-inco.net>

**EECA:** <http://www.inco-eeeca.net>

**LAM:** <http://www.s2lat.eu/eularinet>

**Sub-Saharan Africa:** <http://www.caast-net.org>

**MPC:** <http://www.miraproject.eu>

**ASEAN:** <http://www.inco-eeeca.net>

**INCO site:** <http://ec.europa.eu/research/iscp>

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Research Area

**INCO-NET  
projects**

НАУКА И ТЕХНОЛОГИЯ  
科学与技术  
Science et Technologie  
Ciencia y Tecnología  
علوم و تكنولوجيا  
Science and Technology

Supporting International Science  
and Technology Cooperation  
with Major Regions of the World

**7  
CAPACITIES**

SEVENTH FRAMEWORK  
PROGRAMME



Cover regions, which were either left aside or not sufficiently represented in the first INCO-NET call (FP7-2007-INCO-1).

Areas targeted by the activity:

- Arabic Gulf countries;
- Caribbean region;
- Central America region;
- Pacific region;
- South Caucasus and Central Asian region.



# Call FP7-2009-INCO-1

## INCO-NET

Target area	Proposal Number	Acronym	Title	Number of Participants	Total Cost	EC Recom Contribution
Gulf Countries	244401	INCONET-GCC	Science and Technology International Cooperation Network for Gulf Cooperation Countries aiming at the promotion of bi-regional dialogue	18	1.966.931	1.966.931
South Caucasus and Central Asia	244417	IncoNet CA/SC	International Cooperation Network for Central Asian and South Caucasus countries	30	1.693.137	1.600.000
Central America	244468	ENLACE	Increasing FP7 awareness in Central America	16	2.163.970	1.600.000
Caribbean	244510	EUCARINET	FOSTERING EUROPEAN UNION - CARIBBEAN RESEARCH AND INNOVATION NETWORKS	13	1.785.024	1.533.049
Pacific	244514	PACE-Net	Pacific - EU Network for science and Technology	10	1.555.540	1.399.506
					9.164.602	8.099.486



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# CAPACITIES - International Cooperation

## **INCO-BILAT**

### Bilateral S&T Cooperation Partnerships

#### *Objective:*

- *Strengthen the cooperation partnership between the EU and countries which have an S&T cooperation agreement or are in the process of negotiating one.*



## CAPACITIES - International Cooperation

# **BILAT** actions

- Improving the process of providing information on programs and funding designed to promote cooperation of third countries in the FP;
- Develop national information platforms;
- Reinforce promotion and awareness activities;
- Sharing best practices via joint fora such as workshops and presenting the state of the art and the prospects for cooperation in particular fields;
- Assistance in forming research partnerships; etc...



## Countries with EC cooperation agreements in S&T

LAM	ASIA	Africa - MPC	EECA	Industrialised countries
Argentina	China	Egypt	Russia	Australia
Brazil	India	Morocco	Ukraine	Canada
Chile		South Africa		Japan
Mexico		Tunisia		South Korea
		Jordan (under negotiation)		New Zealand
				USA



<b>country</b>	<b>Acronym</b>	<b>Title</b>	<b>Coordinator</b>
<b>New Zealand</b>	FRENZ	Facilitating Research Co-operation between Europe and New Zealand	University of Canterbury, New Zealand
<b>Russia</b>	BILAT-RUS	Enhancing the bilateral S&T Partnership with the Russian Federation	Deutsches Zentrum fuer Luft- und Raumfahrt e. V., Germany
<b>Morocco</b>	M2ERA	MOROCCO TO ERA	ministère de l'education nationale, enseignement supérieur, formation des cadres et recherche scientifique, Morocco
<b>China</b>	BILAT SILK	Bilateral Support for the International Linkage with Kina	Swedish Governmental Agency for Innovation System, Sweden
<b>Chile</b>	CHIEP-II	Strengthen Chilean European Science and Technology Partnerships	National Commission for Scientific and Technological Research, Chile
<b>Tunisia</b>	ETC	European Tunisian Cooperation	Ministry of Higher Education, Scientific Research and Technology, Tunisia
<b>India</b>	EUINEC	European Union and India Enhanced Cooperation Framework for Improved Bilateral Dialogue in the Fields of Science and Technology	Europa Media Public Service Corporation, Hungary
<b>Korea</b>	KESTCAP	Korea-EU Science and Technology Cooperation Advancement Programme	Korea Foundation for International Cooperation of Science and Technology, Korea
<b>Ukraine</b>	BILAT-UKR	Enhancing the bilateral S&T Partnership with Ukraine	Centre National de la Recherche Scientifique, France
<b>Australia</b>	FEED	FEAST Extension, Enhancement and Demonstration project	The Australian National University, Australia
<b>South Africa</b>	ESASTAP2	Strengthening the European-South African Science and Technology Advancement Programme	Department of Science and Technology, South Africa
<b>Brazil</b>	BB.Bice	New Brazilian Bureau for Enhancing the International Cooperation with European Union	Centre for Strategic Management and Studies, Brazil
<b>Mexico</b>	UEMEXCyT II	Bureau for EU-Mexican Science and Technology Cooperation – Step II	Consejo Nacional de Ciencia y Tecnologia, Mexico



# Call FP7-2009-INCO-2 BILAT – Main list

Country	Proposal No	Acronym	Title	No Partners	Total Cost	EC Contrib
Jordan	244082	EU-JordanNet	Enhancement of Jordan-European S&T Partnerships	6	499048	499048
Japan	244310	J - BILAT	BILAT in Japan	8	500000	500000
Argentina	244327	ABESTII	Argentinean Bureau for Enhancing Cooperation with the European Community in the Science, Technology and Innovation Area. Phase II	8	624549	499549
Egypt	244364	ShERACA	Shaping Egypt's association to the ERA and Cooperation Action	4	499987	499987
Canada	244426	ERA-Can II	European Research Area - Canada Information and Support Service	4	1004350	495315
USA	244434	BILAT-USA	Bilateral coordination for the enhancement and development of S&T partnership with the United States of America	5	713063	499904



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# INCO Bilat, Call 2010

The call will only target **Algeria**, which S&T cooperation agreement should be under negotiation at the time of the publication of the call and which was not covered in the first BILAT calls.



## Coordination of national policies and activities on international S&T cooperation

### Objective

➤ To increase the cooperation and coordination of research programmes carried out at national or regional level in the MS and AS and which target one third country or several third countries in a given region

*# The main participants should be ministries, research councils or other funding agencies (research programme “owners” or programme “managers”)*

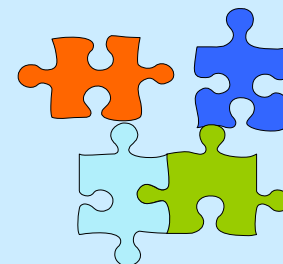


# Coordination of national programmes Overview FP7

## **ERA-NET**

Like in FP6: Coordination of programmes

- ✓ MS agree and fund joint calls/programmes
- ✓ EU funding only for coordination



## **ERA-NET Plus**

New in FP7: Top up of a single joint call

- ✓ MS contribute to a joint trans-national call 2/3
- ✓ EU funding for research: 1/3 of the joint call





# Call FP7-2007-INCO-3

## ERA-NET – Results

Region / country	Acronym	Area	Title	Coordinator
<b>WBC</b>	SEE-ERA.NET PLUS	CSA ERANET PLUS	Further integrating key research institutions from Southeast Europe into the European Research Area	Centre for Social Innovation, Austria
<b>INDIA</b>	New INDIGO	CSA ERANET	Initiative for the Development and Integration of Indian and European Research	Centre National de la Recherche Scientifique, France
<b>RUSSIA</b>	ERA.Net RUS	CSA ERANET	Linking Russia to the ERA: Coordination of MS'AC' S&T programmes towards and with Russia	Deutsches Zentrum fuer Luft- und Raumfahrt e.V., Germany
<b>BLACK SEA</b>	BS-ERA.NET	CSA ERANET	NETWORKING ON SCIENCE AND TECHNOLOGY IN THE BLACK SEA REGION	National Centre for Programme Management, Romania
<b>KOREA</b>	KorA-Net	CSA ERANET	An Initiative to Intensify and Strengthen the Regional S&T-Cooperation between Korea within the Asian Region and the ERA	Deutsches Zentrum fuer Luft- und Raumfahrt e.V., Germany



# INCO Era-net, call 2010

ERA-NET/ERA-NET PLUS proposals should target only one of the following countries/region:

- Africa
- Brazil
- Canada
- China
- Japan
- United States of America



# CAPACITIES - International Cooperation ACCESS4EU – Objectives

## Supporting the EU access to third country programmes

→ This activity aims at increasing the awareness and dissemination in the Member States and Associated Countries of access opportunities for European researchers and research organisations in national research and/or innovation programmes managed by third countries.





# ACCESS4EU - Activities

- Mapping of the access opportunities in the target country;
- Dissemination of the results to European research organisations and multipliers (information and awareness activities in MS and AC, web...);
- Monitoring of the participation of researchers from the Member States and Associated Countries to the programmes managed by the target country;
- Provide a feedback for use by the Commission in the context of the Joint Committee meetings of the S&T agreements and make appropriate recommendation to ensure matching reciprocity from the target country.



# Call FP7-2009-INCO-5 ACCESS4EU – Main List

Target area	Number	Acronym	Total cost	EC contrib
South Korea	244367	KORRIDOR	929.732	499.423
USA	244371	Link2US	526.625	376.694
Russia	244493	ACCESSRU	593.037	438.204
India	244442	INDIA GATE	499.817	499.817
Brazil	244388	APORTA	709.414	499.477
Australia	244485	AUS-ACCESS4EU	573.110	499.957
China	244459	ChinaAccess4EU	498.651	498.651
Mexico	244384	ACCESS2MEXCYT	499.918	499.918
Canada	244422	Access2Canada	499.714	499.714
New Zealand	244463	ACCESS4EU:NZ	608.911	499.639
South Africa	243851	SAccess	639.305	499.400

Negotiation launched on 07/05/2009

End of Negotiation: 01/09/2009



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# CAPACITIES - International Cooperation ERA-WIDE, INCO-2010

## Reinforcing cooperation with Europe's neighbours in the context of the ERA (ERA-WIDE):

Objective:

To reinforce the cooperation capacities of research centres located in the ENP countries, which are not associated to FP7, in the areas of the thematic priorities of FP7.



# ERA-WIDE – Country coverage

ERA-WIDE proposals should target only one of the following countries:

- Mediterranean Partner Countries:

Morocco, Algeria, Tunisia, Libya, Egypt, Jordan, Occupied Palestinian Territory, Lebanon, Syria

- Eastern Europe and South Caucasus:

Moldova, Georgia, Ukraine, Belarus, Armenia, Azerbaijan



# ERA-WIDE Participants profile

- The call is addressed to research centres of proven high level S&T capacities, which are located in an ENP country not associated to FP7;
- The proposal should target only one such centre;
- The consortium should however include additional participants, in particular from the MS and/or AC so as to fulfil the objectives of the activity;
- The research centre targeted by the proposal must be the coordinator of the proposal.



# ERA-WIDE - Activities

## **ERA-WIDE** actions:

- Networking with research centres in MS or AC in view of disseminating scientific information, identifying partners and setting up joint experiments;
- Developing training modules to build competency and facilitate the participation of these centres in FP7;
- Developing research centres' strategy in order to increase their scope (regional coverage, activities) and to improve their responses to the socio-economic needs of their countries and of the region.



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# Information

## Framework Programme – General

- **CORDIS Web Site:** [www.cordis.lu](http://www.cordis.lu)
- **EU Web Site (INCO infodesk) :** <http://ec.europa.eu/research/>

## International Scientific Cooperation Policy

[http://ec.europa.eu/research/iscp/index\\_en.html](http://ec.europa.eu/research/iscp/index_en.html)