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FP7 2013 Work Programmes International Dimension

Opportunities for South Pacific, OCT's and ACP's

FP7 Work Programmes 2013

All relevant information available on the FP7 participants portal :
http://ec.europa.eu/research/participants/portal

➡ legal basis for the implementation of FP7

➡ full information on the calls for proposals to be published in 2012-2013 (details of activities, budgets and calls timing)

FP7 Work Programmes 2013

Work programme of actions of over €9,4 billion including:

Project calls open for international partners   €4.84 billion
People (Marie S. Curie Grants)   € 0,97 billion
Ideas (European Research Council grants)   € 1,75 billion
Iter   € 0,94 billion
Other (special actions, general and other activities) € 0,89 billion

Principles of participation in FP7

- All areas of FP7 open to the participation of Pacific researchers and/or research organisations

- Pacific countries are 'International Cooperation Partner Country' (ICPC) ⇨ Same rights and obligations for receiving EU funding as EU Member States

- Consortia must have the minimum required number of EU Member States/Associated States participants
  - ⇨ Normally 3 Member States/Associated States participants(please refer eligibility criteria mentioned into the full text of the call)

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The 4 FP7 Specific Programmes (SP)

COOPERATION
Collaborative research
10 Thematic Areas

- 1 Health
- 2 Food, Agri & Biotech
- 3 ICT
- 4 Nano-sciences/technology

Materials and new production technologies

- 5 Energy
- 6 Environment
- 7 Transport (incl. AERO)
- 8 Socio Economic Sciences and the Humanities
- 9 Space
- 10 Security

IDEAS

Supporting, investigator-driven research projects carried out across all fields

PEOPLE

Strengthening the human potential in research and technology in Europe

Initial Training of Researchers

Life-long training & Career Development

Industry-academia pathways

International Dimension

Specific support action

CAPACITIES

- 1 Research Infrastructures
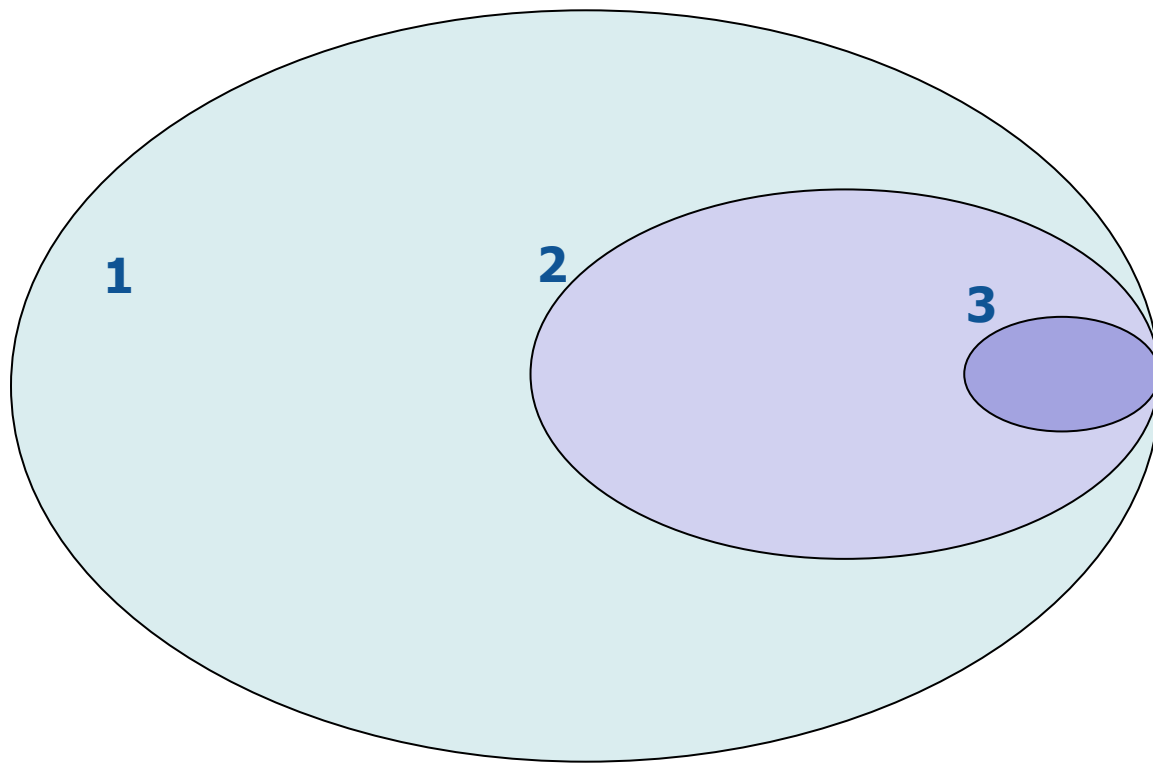- 2 Research for the benefits of SMEs
- 3 Regions of Knowledge
- 4 Research Potential
- 5 Science in Society
- 6 Support for the coherent development of research policies
- 7 International Cooperation

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FP7 WP2013 INTERNATIONAL DIMENSION : GENERAL / TARGETED OPENING

1. GENERAL OPENING : All FP7 WP 2013 Activities **open to international cooperation**

2. TARGETED OPENING (A) : FP7 WP 2013 Activities with a **focus on international cooperation, including but not restricted** to Pacific, OCT and ACP countries

3. TARGETED OPENING (B) : FP7 WP Activities with a **focus on international cooperation specifically targeting** Pacific, OCT and ACP countries

1. GENERAL OPENING

Main activities addressed in the FP7 Thematic Workprogrammes 2013
(All open to international cooperation)

SPECIFIC PROGRAMME
"COOPERATION"

1. Health

1.1) Biotechnology, generic tools and medical technologies for human health

- Detection, diagnosis and monitoring
- Suitability, safety, efficacy of therapies
- Innovative therapeutic approaches and interventions

1.2) Translating research for human health

- Large-scale data gathering, systems biology
- Brain research
- Translational research in major infectious diseases
- Translational research in other major diseases

1.3) Optimising healthcare delivery to EU citizens

1.4) Other actions

- Coordination and support actions
- Responding to EU policy needs

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2. Food, Agriculture and Fisheries, Biotechnology

Knowledge-Based Bio-Economy (KBBE)

2.1) Sustainable production and management of biological resources from land, forest and aquatic environments
2.2) Fork to farm: Food (including seafood), health and wellbeing
2.3) Life sciences, biotechnology and biochemistry for sustainable non-food products and processes.

3. Information and Communication Technologies

3.1) Pervasive and Trusted Network and Service Infrastructures

3.2) Cognitive Systems and Robotics

3.3) Alternative Paths to Components and Systems

3.4) Technologies for Digital Content and Languages

3.5) ICT for Health, Ageing Well, Inclusion and Governance

3.6) ICT for a low carbon economy

3.7) ICT for the Enterprise and Manufacturing

3.8) ICT for Learning and Access to Cultural Resources

3.9) Future and Emerging Technologies

4. Nanosciences, Nanotechnologies, Materials and new Production technologies – NMP

4.1) Nanosciences and nanotechnologies

4.2) Materials

- New precursors, processing routes and functionalities for carbon fibres
- Innovative materials for advanced applications

4.3) New production

- Monitoring and assessing resource efficiency
- Sustainable production in farms and forests

4.4) Integration (integration of new knowledge from nano-, materials-, and production technologies in sectoral and cross-sectoral applications)

4.5) Public-private partnerships ("Factories of the Future"; "Energy-efficient buildings"; "Green cars")

5. Energy

5.1) Hydrogen and Fuel Cells

5.2) Renewable Electricity Generation

5.3) Renewable Fuel Production

5.4) Renewables for Heating and Cooling

5.5) CO_2 Capture and Storage Technologies for Zero Emission Power Generation

5.6) Clean Coal Technologies

5.7) Smart Energy Networks

5.8) Energy Efficiency and Savings

5.9) Knowledge for Energy Policy Making

5.10) Horizontal Programme Actions

6. Environment (including Climate Change)

6.1) Coping with climate change (fundamental processes that couple land surface, atmosphere, ice-caps and oceans as well as the cumulative effects of climatic and non-climatic stressors on marine geochemistry and biodiversity)

6.2) Sustainable use and management of land and seas (To improve the knowledge base on how ecosystems react to pressures)

6.3) Improving resource efficiency (development and testing of highly eco-innovative technologies, processes and services to valorise urban wastes and recover raw materials from industrial wastes

6.4) Protecting citizens from environmental hazards.

6.5) Mobilising environmental knowledge for policy, industry and society

7. Transport (including aeronautics)

7.1) Eco-Innovation (greening of air transport)

7.2) Safe and Seamless Mobility

7.3) Competitiveness Through innovation (improving cost efficiency, protection of aircraft and passengers, pioneering the air transport of the future)

7.4) Sustainable Surface Transport (including the "European Green Cars Initiative")

8. Socio-economic sciences and humanities

8.1) Growth, employment and competitiveness in a knowledge society – the European case.

8.2) Combining economic, social and environmental objectives in a European perspective – Paths towards sustainable development.

8.3) Major trends in society and their implications

8.4) Europe in the world

8.5) The Citizen in the European Union

8.6) Socio-economic and scientific indicators

8.7) Foresight activities

8.8) Horizontal actions (analysis and evaluation of outcomes of EU funded research in socio-economic sciences and humanities in the context of their contribution to building the European Research Area)

9. Space

9.1) Space-based applications at the service of European society

- Pre-operational validation of GMES services and products
- Integration of satcom and satellite navigation solutions with space-based observing systems
- Coordinated provision of observation data
- Development of earth observation satellites
- Continuity of GMES services in the areas of Marine and Atmosphere

9.2) Strengthening foundations of space science and technology (exploration, space transportation, reducing vulnerability of space assets)

9.3) Cross-cutting activities (SME technology transfer, international cooperation)

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10. Security

10.1) Security of Citizens

10.2) Security of Infrastructures and Utilities

10.3) Intelligent Surveillance and Border Security

10.4) Restoring Security and Safety in Case of Crisis

10.5) Security Systems Integration, Interconnectivity and Interoperability

10.6) Security and society (Cultural and socio-economic, as well as systemic risk analyses, scenario building and other research activities related to subjects such as Security as an evolving concept, others)

10.7) Security research coordination and structuring (Develop synergies between civil, security and defence research as well as to coordinate between the demand and the supply side of security research.)

Cross-thematic Call
" The Ocean of Tomorrow 2013"

- Cross thematic call focusing on marine technologies
- Three key areas will be tackled:

  ✓ sensing technologies that are necessary to improve reliable measurements of key parameters in the sea,

  ✓ new materials that can avoid bio-fouling on mobile and stationary structures, and

  ✓ innovative transport and deployment systems for the energy sector.

SPECIFIC PROGRAMME "CAPACITIES"

1. Research infrastructures

1.1) Support to existing infrastructures/e-infrastructures)

(Deployment, operation and evolution of the pan-European high-capacity and high-performance communication networking (GÉANT) as well as the deployment of user-centric services.)

2. Research for the Benefit of SMEs

2.1) Research for SMEs

('Research for SMEs' supports small groups of innovative SMEs in solving technological problems and acquiring technological know-how.)

2.2) Research for SME Associations (SME-AGs)

('Research for SME Associations' supports SME associations to develop technological solutions to problems common to a large number of SMEs in specific industrial sectors or segments of the value chain through research.)

2.3) Demonstration activities

2.4) Coordination and support action (preparing the H2020 support function for SMEs)

5. Science in Society

5.1) A more dynamic governance of the science and society relationship (Relationships between science, democracy and law; broader engagement to anticipate and clarify political, societal and ethical issues; improve access to S&T results,…)

5.2) Strengthening potential, broadenning horizons

(promoting gender equality, youth awareness, science education in schools)

5.3) Science and society communicate (EU contest for young scientists, interaction with media)

6. Support for the Coherent Development of Research Policies

Activity A - Providing evidence-base and monitoring of R&I policies and supporting policy coordination to tackle societal challenges by increasing synergies and consistency at the EU level.

Activity B - Supporting a single market for R&I and delivering the ERA Framework with a focus on topics underpinning policies that foster excellent science

Activity C - Analysing how to improve the business environment and foster European partnerships in R&I in view of unleashing the EU's innovation potential

7. Activities of International Cooperation

7.1) Bi-regional coordination of Science &Technology

Activity

7.3) Supporting the coordination of national policies and activities of Member States and/or Associated States on international S&T cooperation

7.4) Supporting awareness raising of Horizon 2020 in third countries

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SPECIFIC PROGRAMME
"PEOPLE"

Activity 1: Initial Training of Researchers

1.1 MARIE CURIE ACTION: INITIAL TRAINING NETWORKS (ITN)

Activity 2: Life-Long Training and Career Development

2.1 MARIE CURIE ACTION: INTRA-EUROPEAN FELLOWSHIPS FOR CAREER DEVELOPMENT (IEF)

2.2 MARIE CURIE ACTION: CAREER INTEGRATION GRANTS (CIG)

2.3 MARIE CURIE ACTION: CO-FUNDING OF REGIONAL, NATIONAL AND INTERNATIONAL PROGRAMMES (COFUND)

SP People

Activity 3: Industry-Academia Partnerships and Pathways

3.1 MARIE CURIE ACTION: INDUSTRY-ACADEMIA PARTNERSHIPS AND PATHWAYS (IAPP)

Activity 4: World Fellowships

4.1 MARIE CURIE ACTION: INTERNATIONAL OUTGOING FELLOWSHIPS FOR CAREER DEVELOPMENT (IOF)

4.2 MARIE CURIE ACTION: INTERNATIONAL INCOMING FELLOWSHIPS (IIF)

4.3 MARIE CURIE ACTION: INTERNATIONAL RESEARCH STAFF EXCHANGE SCHEME (IRSES)

Activity 5: Specific Actions

5.1 RESEARCHERS' NIGHT (NIGHT)

SPECIFIC PROGRAMME "IDEAS"

SP Ideas

- Research at the frontier of knowledge mainly on physical sciences and engineering; life sciences; social sciences and humanities

- All calls are open to researchers of any nationality who intend to establish and conduct partly their research activity in any EU Member state or FP 7 associated country.

- Starting Grants Call / publication 10 July 2012

- Advanced Investigator Grants Call / publication 7 November 2012

- Advanced Grants Call / publication 7 November 2012

- ERC Synergy Grants Call / publication 10 October 2012

2. TARGETED Opening (A)

Activities with a focus on international cooperation, including but not restricted to Pacific, OCT and ACP countries

SPECIFIC PROGRAMME "COOPERATION"

KBBE – Interest for OCT's

- All topics open for OCT's participation
- Topics of particular interest may include:

KBBE.2013.1.2-08: Innovative insights and tools to integrate the ecosystem-based approach into fisheries advice 6 mio

KBBE.2013.3.2-01: Marine bio technology ERA-NET 2 Mio

KBBE.2013.2.5-02: Saving water and energy for resource-efficient food processing 18 mio

Food, Agriculture and Biotechnologies (FAB)

- One call - 10 July (€380 million)
- Research Priorities
  - Sustainable Agriculture and Forestry
  - Sustainable and Competitive Agri-Food Sector for a Safe and Healthy Diet
  - Unlocking the Potential of Aquatic Living Resources
  - Sustainable and Competitive Bio-based Industries
- Calls have an emphasis on
  - Completing ERA (European Research Area)
  - Stimulating innovation incl. knowledge exchange with SMEs
  - Supporting European policies (e.g. General Food Law Regulation)
  - Supporting international cooperation (e.g. Tackling challenges of a global nature, Millennium Development Goals)

Cross thematic Call "Oceans of Tomorrow"

4 topics of particular interest :

•OCEAN.2013-1: Biosensors for real time monitoring of biohazard and man made chemical contaminants in the marine environment

•OCEAN.2013-2: Innovative multifunctional sensors for in-situ monitoring of marine environment and related maritime activities

•OCEAN.2013-3: Innovative antifouling materials for maritime applications

•OCEAN.2013-4: Innovative transport and deployment systems for the offshore wind energy sector

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Environment

- Three calls to be launched on 10 July:
  - Environment two-stage (€248 million)
  - Environment one-stage (€17 million)
  - Water innovation & demonstration (€40 million)

- Focus on :

ENV.2013.6.1-1 Climate-related ocean processes and combined impacts of multiple stressors on the marine environment 9 mio

ENV.2013.6.2-1 Water resources management under complex, multi-stressor conditions 9mio

ENV.2013.6.2-2 Toxicants, environmental pollutants and land and water resources management 12mio

ENV.2013.6.3-3 Contribution to the assessment of global water resources through the use of new Earth Observation datasets and techniques 9mio

ENV.2013.6.3-1 Turning waste into a resource through innovative technologies, processes and services no info in the WP

ENV.2013.6.2-3 Transition to sustainable, low carbon societies 3mio

ENV.2013.6.2-8 'Sustainable management of Europe's deep sea and sub-sea floor resources (not counted since already included in Oceans of Future)

ENV.2013.6.3-2 Eco-innovative demonstration projects no info in the WP

- Contribution to three cross-thematic calls on water, ocean for tomorrow and raw materials

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Focus on :

ENV.2013.6.5-2 Mobilising environmental knowledge for policy and society', sub-topic d) 'Raising societal awareness and tackling skill shortages on raw materials. 1mio

ENV.2013.6.2-3 'Transition to sustainable, low carbon societies' 6 Mio

ENV.2013.6.5-2 Mobilising environmental knowledge for policy and society', sub-topic e) 'Implications of socio-economic research on air pollution policy 1Mi

ENV.2013.6.2-3 Transition to sustainable, low carbon societies 3 Mio

ENV.2013.6.4-4 Towards stress tests for critical infrastructures against natural hazards 3 Mio

ENV.2013.6.5-2 Mobilising environmental knowledge for policy and society', sub-topic a) 'Policy and economic implications of the post-2012 climate agreements. 6 Mio (one million per one proposal in each of the six subtopics)

ENV.2013.6.1-4 Land cover and land-use change and climate change mitigation 6 Mio

ENV.2013.6.2-6 Improved monitoring of the impact of cultivation on the environment using global Earth Observations 9 Mio

ENV.2013.6.5-1 Accelerating progress towards the Green Economy', sub-topic c) 'Business practices for promoting the 'Green Economy' and sustainable production and consumption post Rio+20 1 Mio

Environment − Interest for OCT's

- All topics open for OCT's participation
- Topics of particular interest may include:
  - ENV.2013.6.5-4 Knowledge platforms, networking and uptake of research results for more strategic international R&I cooperation – FP7-ENV-2013-one-stage
  - ENV.2013.6.2-6 'Improved monitoring of the impact of cultivation on the environment using global earth observations'
  - ENV.2013.6.3-5 'Contribution to the assessment of global water resources through the use of new earth observation datasets and techniques'
  - ENV.2013.6.4-3 'Coasts at threat in Europe: tsunamis and climate-related risks'
  - ENV.2013.6.5-1 'Accelerating progress towards the Green Economy'

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SPECIFIC PROGRAMME "CAPACITIES"

International Cooperation

- ## One major call- 10 July (€41 million)

- ## Focus on:
  - Bi-regional coordination of S&T cooperation including priority setting and definition of S&T cooperation policies (FP7-INCO-2013-1, INCO-NET)
  - Bilateral coordination for the enhancement and development of S&T Partnerships (FP7-INCO-2013-2, BILAT)
  - Supporting the coordination of national policies and activities of Member States and/or Associated States on international S&T cooperation (FP7-INCO-2013-3, ERA-NET /ERA-NET PLUS)
  - Supporting the trans-national activities of International Cooperation NCPs (FP7-INCO-2013-4, INCO-NCP)
  - Reinforcing cooperation with European Neighbourhood Policy countries on bridging the gap between research and innovation (FP7-INCO-2013-9, R2I-ENP)

SPECIFIC PROGRAMME "PEOPLE"

Marie Curie

- Eleven calls, issued 10 July - 13 March - total budget €973 million

- Most Marie Curie Fellowships open to OCT's researchers

- The World Fellowship calls will be of particular interest to OCT's:
    - IOF - March 2013 – 43,50 million
    - IIF - March 2013 – 43,50 million
    - IRSES – March 2013 – 30 million

Marie Curie World Fellowships — Interest for OCT's

- Topics of particular interest may include:

  - **IOF:** International Outgoing Fellowships
  - **IIF:** International Incoming Fellowships
  - **ITN:** Initial Training Network
  - **IAPP:** Industry-Academia Partnership and Pathways

SPECIFIC PROGRAMME "IDEAS"

Ideas Programme

- Applications can be made in any field of research - particular emphasis on the frontiers of science, scholarship and engineering

- All calls open to researchers of **any nationality** who intend to establish and conduct partly their research activity in any EU Member State or FP7 associated country

- Starting Grants call - 10 July - €398 million

- Advanced Investigator Grants call - November - €662 million