

FP7 2012 Work Programme International Dimension Opportunities for MPCs

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COMMISSION

EU - BUILDING AN
INNOVATION UNION

FP7 Work Programmes

- Legal basis for the implementation of FP7
- Contain full information on the calls for proposals to be published in 2011-2012
 - Details of topics and expected impacts, budgets and timing of calls etc
- Work programme of actions of over €8 billion, including:
 - 39 calls issued on 20 July 2011 with budget of €5.31 billion
 - Additional 15 calls for €1.74 billion to be issued in 2011-2012
 - Other non-call activities also included



Participation of MPCs in FP7

- All areas of FP7 open to the participation of MPCs researchers and/or research organisations
- MPCs are International Cooperation Partner Country (ICPC)
 - Same rights and obligations for receiving funding as MS
- Consortia must have the minimum required number of MS/AC participants



- One call - 20 July (€304.57 million)
- Research Priorities
 - Sustainable primary production; mitigating and adapting to climate change
 - Low carbon and resource efficient industry
 - Food security and safety for Europe and beyond
 - Socially inclusive and healthy Europe
- Calls have an emphasis on
 - Completing ERA
 - Linking existing and new initiatives for the bio-based economy
 - Stimulating innovation including knowledge transfer
 - Supporting European policies (CAP, CFP, Key Enabling Technologies etc)
 - Supporting international initiatives (eg. Millenium Development Goals)

KBBE – Interest for MPCs

- Topics of particular interest (targeted to MPCs and African ACP):
 - Conversion of bio-waste in developing countries - SICA
[KBBE.2012.3.4-01]
- Other topics in areas of mutual interest may include:
 - agricultural commodity markets **[KBBE.2012.1.4-05]**
 - insects as novel source of proteins **[KBBE.2012.2.3-05]**
 - animal health surveillance programmes **[KBBE.2012.1.3-01]**
 - standardisation of bio-based products **[KBBE.2012.3.3-02]**



- Three ICT Calls - Call 8 (20 July; €787 million), Call 9 (18 January; €291 million), Call Future Internet (18 May; €80 million)
- Three Cross-thematic calls - Factories of the Future (20 July; 160 million); Energy-Efficient Buildings (20 July; 140 million); ICT for Green Cars (20 July; €330 million)
- FET call - still open for proposals
- Extension of 2011 work programme
- Focus around number of key challenges:
 - pervasive and trusted network and service infrastructures
 - cognitive systems and robotics
 - alternative paths to components and systems
 - technologies for digital content and languages
 - ICT for health, ageing well, inclusion and governance
 - ICT for a lower carbon economy
 - ICT for manufacturing & factories of the future
 - ICT for learning and access to cultural resources
- Support also for Future and Emerging Technologies (FET)



ICT – Interest for MCPs

- All topics open for MCPs participation
- Topics of particular interest may include:
 - International partnership building and support to dialogues – SICA [Topic ICT-2011.10.3]
 - ICT for fully electric vehicles [Topic: GC-ICT-2011.6.8]
 - Challenging current Thinking [Topic: ICT-2011.9.1]
 - International cooperation on FET research [Topic: ICT-2011.9.4]



- Four calls - 20 July, €292.5 million
- Three cross-thematic calls - Factories of the Future, Energy Efficient Buildings and Green Cars - 20 July (€335 million)
- Focus on smart and sustainable growth for a greener industry
- Challenges addressed include:
 - Energy and energy efficiency
 - Environmental issues and sustainability
 - Raw materials
 - Health and safety
 - Factories of the future
 - European energy-efficient buildings
 - Green cars



NMP – Interest for MCPs

- All topics open for MCPs participation
- Topics with international cooperation encouraged:
 - Adaptive production systems and measurement and control equipment for optimal energy consumption and near-to-zero emissions in manufacturing processes
[Topic: FoF.NMP.2012-1]
 - Support for standardisation needs **[Topic: NMP.2012.4.0-2]**



- Three calls - 20 July - €262 million
- Focus on the implementation plans and road maps of the European Strategic Energy Technology Plan (SET-Plan)
- Aim to accelerate market take up of most promising technologies in:
 - Solar
 - Wind
 - Bioenergy
 - Smart grids
 - Carbon Capture and Storage (CCS)
 - Smart cities



ENERGY – Interest for MPCs

- Topics of particular interest (targeted to MPCs):
 - Research and development for medium temperature range solar collectors – Targeted Opening **[Topic: ENERGY.2012.4.1-1]**
 - Hybridisation of CSP with other energy sources – Targeted Opening **[Topic: ENERGY.2012.2.5-2]**



Environment

- Two calls - 20 July - €255 million
- Focus on five challenges for resource efficiency and climate resilience:
 - Coping with climate change
 - Sustainable use and management of land and seas
 - Improving resource efficiency
 - Protecting citizens from environmental hazards
 - Mobilising environmental knowledge for policy, industry and society
- Most topic areas are evaluated through a two-stage process
- Emphasis on innovation
- All topics open to international participation



ENVIRONMENT – Interest for MPCs

- Topics of particular interest (MPCs participation welcomed):
 - Securing underwater and coastal archaeological sites- Targeted Opening **[Topic: ENV.2012.6.2-6]**
- Other topics in areas of potential interest may include:
 - Development of advanced techno-economic modeling tools for assessing costs and impacts of mitigation policies **[Topic: ENV.2012.6.1-2]**
 - Strategies, costs and impacts of adaptation to climate change **[Topic: ENV.2012.6.1-3]**
 - Exploration of the operational potential of the concepts of ecosystem services and natural capital to systematically inform sustainable land, water and urban management **[Topic: ENV.2012.6.2-1]**
 - Long-term monitoring experiment in geologically active regions of Europe prone to natural hazards: the Supersite concept **[Topic: ENV.2012.6.4-2]**
 - Integrating environmental and health data to advance knowledge of the role of environment in human health and well-being **[Topic: ENV.2012.6.4-3]**



- Seven calls to be published on 20 July
 - Aeronautics (three calls - €145 million)
 - Surface Transport (one call - €114 million)
 - Horizontal issues (two calls - €36 million)
 - Cross-thematic (one call - €35 million)
- Three strategic research and innovation priorities for 2012:
 - Eco-innovation
 - Safe and seamless mobility
 - Competitiveness through innovation

TRANSPORT – Interest for MPCs

- Topics of particular interest (targeted to ENP countries):
 - Take up of transport innovation in urban and regional transport – Targeted Opening **[Topic: SST.2012.3.1-3]**
 - Coordinating innovation for efficient bus systems in the urban environment **[Topic: SST.2012.3.2-1]**



Socio-Economic Sciences and the Humanities (SSH)

- Two calls - 20 July - €87 million
- Four priorities for 2012 work programme:
 - The Innovation Union in support of smart growth
 - Inclusive and sustainable growth
 - Reshaping the European economy and strengthening the political unity of the EU
 - Support for developing the external policies of the EU



SSH – Interest for MPCs

- Topics of particular interest (targeted to MPCs):
 - Social changes and political transformation in the Arab world -SICA **[Topic: SSH 2012.4.3-1]**
- Other topics in areas of mutual interest may include:
 - Climate change uncertainties: policymaking for the Pacific front. (Researchers from the Pacific and the Overseas Territories encouraged to participate) **[Topic: SSH.2012.2.2-4]**
 - Challenge: Human rights in EU external relations and internal policies **[Topic: SSH.2012.4.2-1]**

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- One call - 20 July - 84 million
- Focus in 2012:
 - The development of GMES
 - (Pre)-operational validation of GMES services and products
 - Support to the coordinated provision of observation data
 - Development of earth observation satellites
 - Strengthening the foundations of space S&T
 - Research to support space science and exploration
 - Research to support space transportation and key technologies
 - Cross-cutting activities

Space interest for MPCs

- All topics open for participation of MPCs
- Topics of particular interest may include:
 - Support for emergency response management - should target areas inside or outside of Europe [Topic: SPA.2012.1.1-04]
- Or the following topics targeted to countries with an EU S&T Cooperation Agreement (Morocco, Tunisia)
 - GMES Climate change - data archiving and exchange [Topic: SPA.2012.1.3-03]
 - Exploitation of space science and exploration data [Topic: SPA.2012.2.1-01]
 - Key technologies enabling observations in and from space [Topic: SPA.2012.2.2-01]
 - Key technologies for in-space activities [Topic: SPA2012.2.2-02]



- One call - 20 July - €241.7 million
- Seven activity areas:
 - Security of citizens
 - Security of infrastructures and utilities
 - Intelligent surveillance and border security
 - Restoring security and safety in case of crisis
 - Security systems integration, interconnectivity and interoperability
 - Security and society
 - Security research coordination and structuring

Security Interest for MPCs

- All topics open for participation of MPCs
- Topics of potential interest, all of which call for international cooperation, include:
 - Drinking water security management and mitigation against CBRN contamination [Topic: SEC.2012.1.5-02]
 - Countering illegal export of metal-bearing waste [Topic: SEC.2012.2.2-1]
 - Air traffic management/control threat assessment [Topic: SEC.2012.2.2-2]
 - Improving security in air cargo transport [Topic: SEC.2012.2.2-3]
 - Aviation security - reducing costs and facilitating passenger flows [Topic: SEC.2012.2.2-4]
 - Security of supply chain [Topic: SEC.2012.2.4-1]
 - Development of mobile laboratories/facilities for rapid assessment of CBRN events [Topic: SEC.2012.4.4-1]
 - Use of communication/social media in crises [Topic: SEC.2012.6.1-3]



Research Infrastructures

- One call - 20 July - €90 million
- Last call in FP7, call budget to be supplemented in 2013
- Main lines of action:
 - Support to existing research infrastructures
 - Support to new research infrastructures/major upgrades
 - Support for policy development/programme implementation



Research Infrastructures – Interest for MPCs

- All topics open for MPCs participation
- Topics of particular interest may include:
 - Coordination actions, conferences and studies supporting policy development, including international cooperation, for e-Infrastructures. International cooperation in Research and Education Networking **[Topic:INFRA-2012-3.3]**
 - Biological Resources Centres for micro-organisms **[Topic:INFRA-2012-1.1.6]**
 - Experimental facilities for animal disease infectiology **[Topic:INFRA-2012-1.1.7]**
 - Plant Genetic Resources Centres. The project will also develop activities for the identification and rescue of endangered resources. **[Topic:INFRA-2012-1.1.10]**



- One call - 20 July - €37.4 million
- Focus on enabling responsible research and innovation (RRI) in the European Research Area
- All topics open for participation of MPCs
- Topics calling for international cooperation, which may be of potential interest include:
 - International coordination in RRI
 - Scientific data: open access, dissemination, preservation and use

International Cooperation

- Two calls - 20 July - €32 million
- Focus on
 - Bi-regional cooperation for addressing societal challenges, supporting policy dialogue and developing cooperation in innovation (INCO-NET)
 - Targeted at: sub-Saharan Africa, Latin America and Caribbean, **Mediterranean Partner Countries**, South East Asian Countries
 - Bilateral coordination for the enhancement and development of S&T partnerships (BILAT)
 - Targeted at Australia, Brazil, China, India, New Zealand, Russia, South Africa, South Korea, USA and Argentina, Chile, **Jordan**, Mexico, **Morocco**, Ukraine



International Cooperation: INCO-NET - MPC

- Specific activities foreseen:
 - Promote complementarity and synergy between projects funded by the EU, the MS and FP7 Associated countries
 - Provide communication and information platform to support networking and match-making
 - Provide regional analysis on problems related to innovation framework conditions and identify approaches to address them
 - Carry out regional analysis to evaluate research and innovation infrastructure needs and for increasing the impact of research on policies/society etc
 - Study the links between evolving political/socio-economic conditions and scientific and cooperation capacity in STI



International Cooperation - BILAT

- Activities to include:
 - Supporting institutional dialogue [EU-Jordan/EU-Morocco]
 - Promoting FP and bilateral cooperation, joint activities, brokerage events etc
 - Monitoring progress in bilateral S&T cooperation
 - Promoting synergies between EU policies and programmes targeting Jordan/Morocco and facilitating coordination of EU/MS/AC research projects and initiatives
 - Supporting FP Contacts



Ideas Programme

- The European Research Council (ERC) – first pan-European funding organisation for frontier research
- ERC grants are awarded, to attract or repatriate to Europe, early-career and senior top researchers, **of any nationality, and their teams**, for five-year projects
- PIs have to conduct their research project in any EU Member State or FP7 associated country (AC) -PIs need to physically spent at least 50% of their time in the MS/AC
- Investigator driven research / bottom-up approach. For all fields of research, from Social sciences and Humanities to Life Sciences and Physical Sciences. No thematic priorities. Scientific excellence is the only criterion for success



Ideas Programme

- Grant packages: Starting Grant: up to €2 million / Advanced Grant: up to €3.5 million Starting Grant call - 20 July - €729.98 million / Advanced Grant call - 16 November - €679.98 million
- New Scheme: 'ERC Synergy': will support small groups of Principal Investigators working jointly on similar research projects - Up to €15 million/ grant over 6 years – call publication in October 2011 – for very limited number of projects
- Evaluation: single submission of proposal – 2 stage evaluation, interviews for some ERC schemes



Marie Curie Actions

- Two calls issued on 20 July 2011 (ITN and IRSES), six other from 19 October 2011 until 13 March 2012 - Total budget ca. €900 million;
- Nearly all Marie Curie Actions are open to both MPC institutions and researchers;
- The '**World Fellowship**' calls are of particular interest to EaP:
 - **IRSES** (funding eligible for staff exchange for both MPC researchers and institutions) - 20 July 2011 - €30 million;
 - **IOF** (for EU MS/AC researchers going to institutions in MPC) - 13 March 2012 - €40 million;
 - **IIF** (for MPC researchers going to institutions in EU MS/AC) - 13 March 2012 - €40 million.



Marie Curie Actions – Interest for MPC

Institutions located in MPC are eligible in the following actions:

- **IRSES:** International Research Staff Exchange Scheme (All MPC eligible for funding);
- **ITN:** Initial Training Networks;
- **IAPP:** Industry-Academia Partnership and Pathways;
- **IOF:** International Outgoing Fellowships.

Researchers from MPC are eligible in all above-mentioned actions (excluding IOF) and in the following actions:

- **COFUND:** Co-funding of Regional, National and International Programmes;
- **IIF:** International Incoming Fellowships;
- **CIG:** Career Integration Grants.

