

# European Research and Innovation Day

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*Research & Innovation as a tool for  
accession to EU*

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# EU R&I policy

- 1) Participation Research Programmes (FP7 and 'Horizon 2020')**
- 2) Integration into European Research Area (ERA)**
- 3) Contribution to Innovation Union (IU) flagship**

# Montenegro in EU

- **Candidate country since December 2010: prepare for compliance with EU *acquis***
- **Associatre to FP7 since 1/1/2008**
- **Member of WBC Steering Platform on Research**

# Meeting with Commissioner Geoghehan-Quinn and all WBCs Ministers in Brussels on 15 September



# Key messages

***"encouraged Ministers to continue their endeavours to raise the political profile of research and innovation at national level, and increase investment in research capacity. This is in line with our efforts to achieve the goals of the Innovation Union flagship initiative and the Horizon 2020 programme," Commissioner stated".***

***"emphasised the importance of association to the EU research framework (FP7). She assessed it is a major step towards deeper involvement in the EU research and innovation policy and cooperation".***



# Montenegro in FP7

- **Implementation fully on track: 1st meeting of Joint Committee in Brussels in June 2010**
- **NCP: nominated and updated**
- **Nomination in FP7 management Committees: important to attend**
- **Participation in balance with financial contribution: 138 proposals submitted/29 funded: room for improvement**

# **FP7 2012 Work Programme**

## **Opportunities for Montenegro researchers and research organisations**



# FP7 2012 Work Programmes

- **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



- **Two major calls – 20 July (€654 million)**
- **Research priorities:**
  - **Major focus on: ageing, including health systems, medical technologies, rare diseases**
  - **Other areas covered: personalised medicine, availability of organs for replacement, better understanding of ageing, chronic diseases related to ageing, adapting healthcare to specific needs**
- **Strong emphasis on SMEs and medical technologies sector**
- **Supporting Pilot Initiative on Active and Healthy Ageing and the ongoing Innovative Medicines Initiative PPP**

- **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)

- **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)**

- **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**



- **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**
  - **Bio-energy**
  - **Smart grids**
  - **Carbon Capture and Storage (CCS)**
  - **Smart cities**



# 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**

# Transport

- **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**



# 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**
- **International cooperation strongly encouraged in all topics and challenges in 2012**

- **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**

- **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**

# Ideas Programme

- **The European Research Council (ERC) – first pan-European funding organisation for frontier research**
- **ERC grants are rewarded, 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**

# 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**

- **One call - 20 July - €219.7 million, with three activities:**
  - **Research for SMEs (€150 million)**
  - **Research for SME associations (€49.7 million)**
  - **Demonstration projects (20 million)**
- **Of great interest to Montenegro**
  - **Innovative SMEs with little or no research capacity**
  - **Research performing SMEs needing to complement core research activities through outsourcing**
  - **SME associations**
  - **RTD performers - universities, institutes, research organisations, companies, research performing SMEs etc**

# Regions of Knowledge

- **One call - 20 July - €17.99 million**
- **Trans-national cooperation between regional research-driven clusters**
- **Improving links between regional authorities, research entities and local business community; development of regional/European Joint Action Plans, boosting regional competitiveness, mentoring regions with a less developed profile etc.**
- **2012 call covers the following areas:**
- **RTDI aspects of the EU digital agenda**
  - **reinforcement of eInfrastructures, cloud computing, applications for government and science, new generation of web-based applications and services, Internet of Things, and key enabling technologies in ICT**
- **Development of technologies/services for the implementation of a resource-efficient Europe**
  - **Efficiency of using materials, water and energy**
- **Clusters should build sustainable partnerships between research and business, lever private and public investment and drive the implementation of the Innovation Union**

# Research Potential

- **One call - 20 July - €66.57 million - LAST CALL IN FP7**
- **Integration of research entities from the EU's convergence and outermost regions in the ERA and enhancement of their innovation potential**
- **Very popular action, with high-quality proposals, low (ca 5-7%) success rate**
- **EU contribution of up to €5 million/project**
- **One applicant (from targeted region) + 3 other MS/AC outstanding partners**
- **S&T excellence of the applicant is a driving force**
- **Typical beneficiaries include universities and specialised research institutes**
- **For 2012: activities to organise and manage IP and innovation capacity to be included in action plan**
- **A steering committee is needed to discuss applicant's R&I strategy**
- **Need to ensure sustainability of excellence - associate national/ regional authorities and end-users to project**

# Research Potential

**The action plan must include the following 4 coherent measures:**

- **Exchange of know-how and experience - through two-way secondments of research staff; organisation of workshop/conferences and promotional dissemination activities**
- **Recruitment by applicant of experienced researchers to enhance S&T research capability**
- **Upgrading, development or acquisition of research equipment**
- **Elaboration of a strategic plan for IP management, protection and building innovation capacity**

# Science in Society

- **One call - 20 July - €37.4 million**
- **Focus on enabling responsible research and innovation (RRI) in ERA**
- **Focus on:**
  - **Better understanding of S&T in society**
  - **Broader engagement - political, societal and ethical issues**
  - **Strengthening and improving the European science system**
  - **Gender and research**
  - **Young people and research**



# Coherent Development of Research Policies

- **One call - 20 July - €1 million**
- **Support to trans-national networks of procurers**
- **To enhance strategic use of public procurement to stimulate the market, increase update of R&D results and develop innovative public services**
- **Exchanging and implementing best practice methods, peer review of procurement practices between partners, development of personnel exchange or joint training activities, training for public bodies, definition of strategic action plans etc.**

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# 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



# **Building links with partners and FP7 Proposal Writing**

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# Why Participate in FP7?

- **Internationalisation of research**
- **Benchmarking performance in European context**
- **Range of project types (multi-disciplinary, industrial)**
- **Networking opportunities – research and teaching**
- **Opening up new opportunities**
- **Mobility of staff and students**
- **Research capacity**
- **Pan-European networks**
- ***Money!***



# Who do I need in my consortium?

- **Depends on topic...**
- **Partners must match activities in proposal**
- **Appropriate balance of sectors – industry, academia, civil society, user groups, etc**
- **Consideration of expected impact of project**
- **Work programme may stipulate or offer advice on types of partner or country involvement**
  
- **EU dimension/ added-value**

# What is expected of a co-ordinator?

- **Administers EU financing, makes payments to partners**
- **Needs to keep record of how the financing is distributed**
- **Reviews reports to the Commission**
- **Monitors compliance of partners with grant agreement**
- **Is the only point of contact for the Commission**
- **None of these tasks can be subcontracted!**

# How do I find partners?

- Existing contacts
- FP6/ FP7 Projects
  - <http://cordis.europa.eu/fp6/projects.htm>
  - [http://cordis.europa.eu/fp7/projects\\_en.html](http://cordis.europa.eu/fp7/projects_en.html)
- EU/national conferences and project evaluation
- European Technology Platforms  
<http://cordis.europa.eu/technology-platforms>
- Partner searches:
  - NCPs
  - CORDIS
  - IGLO

***Note! Use partner searches with caution***

***And explain to everyone that Montenegro is an associated country***

# The whole process

- 1) Speak to NCPs/Research Support Office**
- 2) Consult the Work Programmes**
- 3) Identify a topic**
- 4) Consider the requirements of the funding scheme**
- 5) Check deadline in WP and Call Text**
- 6) Identify activities**
- 7) Identify partners**
- 8) Meet, allocate activities, develop a short proposal**
- 9) Understand the application forms and plan submission carefully**
- 10) Write the full proposal...**

# What is EU added-value?

*How does the EU benefit from funding your project and why is it required at the EU level?*

## **S&T**

- **Expertise from other EU countries**
- **Access to data from other countries**
- **Different cultural and social perspectives**
- **Research too costly for one country**

## **Implementation**

- **Avoid having one partner dominate research activities and budget**
- **Appropriate geographic spread for that project**

## **Impact**

- **Improve competitiveness, health and environment of EU**
- **Feed into EU-wide policy objectives and their development**
- **Decrease fragmentation and duplication**

# Proposal writing

- **Involve both researchers and research support**
- **Involve all partners**
- **Think about whose need is being addressed**
- **Think about the impact of the project**
- **Ensure that ALL aspects are addressed (science, socio economic factors, management, integration, training, technology transfer, dissemination etc.)**
- **Use simple, clear language**
- **Pay attention to layout**

# Top tips – preparation

- 1) Clarify your own goals for participation**
- 2) Read all Call documentation (ie, GfA and WP)**
  - Also consider relevant EU policy documents
- 3) Fully appreciate the evaluation criteria**
- 4) Discuss with and meet potential partners**
- 5) Use appropriate partnership (including balance of budget and activities)**
- 6) Set aside enough time**
- 7) Research previous and current projects**
- 8) Work with your NCPs/institution**

# Evaluation Criteria



**Overall threshold = 10/15**

**NOTE – check Work Programme for specific criteria, weightings and thresholds.**

**Also different for Marie Curie and ERC**

# Relevance

- **Relevance is considered in relation to the topic (s) in the Work Programme open in a given call, and to the objectives of the call**
- **Integrated into 'S&T quality' and 'Impact'**
- **This must be addressed in the proposal!**
- **If it is only partially relevant – it will be reflected in the scoring**
- **If it is not relevant – it will be 'out of scope' and rejected on eligibility grounds before the evaluation**

# 'S&T Quality'

*Scientific and/or technological excellence (relevant to the topics addressed by the call)*

- **Soundness of concept itself**
- **Quality of objectives**
- **Acknowledgement of, and development beyond, the 'state-of-the-art'**
- **Methodology and Work Plan**
- **Quality of co-ordination**

# Implementation

## *'Quality and efficiency of the implementation and the management'*

- **Management structure and procedures**
- **Quality, complementarity and balance of the consortium**
- **Matching of consortium to objectives**
- **Appropriateness of allocation of:**
  - **Staff resources**
  - **Equipment**

# Evaluator comments: S&T Quality

**“Lacks relevance to programme objectives”**

**“Scope of the proposed research is rather narrow”**

**“Proposal lacks focus”**

**“The work described is not particularly novel”**

**“Proposal is too broad”**

***“Given the extent of previous work and patenting in this area, doubts were raised as to whether a novel product could be developed”***



# Evaluator comments: Implementation

**“Role of the Co-ordinator is unclear”**

**“Interaction between work packages is not clearly demonstrated”**

**“the standard and experience of partners is variable”**

**“the management structure is not sufficiently worked out to guarantee the success of this project”**

**“unclear how partners will exchange information”**

**“the role of partner X is unclear”**

***“the costs are not linked to activities and not well balanced”***

**“no formal planning of assessment of milestones”**



# Evaluator comments: Impact

**“Exploitation and dissemination plans are not specific to the project”**

**“the exploitation plan could be better developed”**

**“the European added value of the consortium is limited”**

**“there is no indication of publication plans”**

**“Does not explicitly describe the importance of solving the problem in a European context”**

# Advice for Impact

- **Does proposal explicitly address the Impact section in Work Programme?**
- **Impact should be measured against other developments in research area**
- **Include clear dissemination/ publication plans**
- **Does it have 'EU added value'?**
- **Have plan to track the project's impact post-project**
- **Include plans on how IPR is to be exploited**

# Electronic Submission (EPSS)

- **Co-ordinator must register on the calls page of the Participant Portal and be sent password and access details**
- **PIC code – ask your institution’s European/Finance Office**
- **Passes on access to other participants**
- **Complete A forms (admin details)**
- **Upload .pdf file of Part B (10Mb limit)**
- **‘Submission’ must be selected**
- **Automated check**
- **Can revise up to deadline**
- **Deadline strictly enforced**
- **Technical problems addressed to EPSS helpdesk**



# Evaluators

- **Selected from a wide pool from a database**
- **Selected per call**
- **Replace about 1/4 in any given area annually**
- **Sign confidentiality and conflict of interest declarations**
- **Names published after evaluation (though not at call or proposal level)**
- **Target at least 40% female**
- **Mix of geographical location and background**
- **We need more Moldovans!**
- **To register: <https://cordis.europa.eu/emmfp7>**

# **In short, the best proposals...**

- **Have an EU added value**
- **Clearly address the topic and meet objectives**
- **Push back the frontiers of S&T**
- **Consist of the right consortium for the project**
- **Highlight the impact of the project**
- **Are well budgeted**
- **Are concise and easy to read**



# 'HORIZON 2020'

- **Single Common Strategic Framework (CSF): FP7, Innovation part of CIP and EIT**
- **Fund added value and scientific excellence**
- **Underpin ERA**
- **International cooperation: more strategic**
- **Synergy and Complementarity (IPA)**
- **Proposed budget: 80 billion euro!**

# Integration into ERA

- **Deliver ERA by 2014**
- **Public Consultation on ERA Framework: gaps. Deadline 30 November 2011**
- **Investment in R&I: average 3% of EU(27) GDP; Montenegro: 0,13%: too little!**
- **Mobility of Researchers: Montenegro Action Plan; Euraxess; Code of Conduct and Charter**

- **IPR: very important**
- **Statistics on S&T to monitor progress**
- **Joint Programming: more research opportunities; avoid fragmentation; closer cooperation EU/Member States: open to AC (GPC)**
- **Infrastructure: mapping? National roadmap? Participating in ESFRI?**

# ERA Governance

- **European Research Area Committee (ERAC): Montenegro observer delegate**
- **Important to participate = getting familiar with EU R&I policy; networking**
- **Prof. Dr. I. Radusinovic represent Montenegro**
- **Other ERA bodies: SGHRM; SFIC;ESFRI**



# Contribution to IU

- **Addressing Innovation gap: from ideas to market**
- **Measures/actions at all levels**
- **Stronger monitoring of MS**
- **Innovation Partnerships**
- **34 commitments: implementation on track**
- **Innovation Convention on 5-6 December 2011 in Brussels**

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# Relevance for Montenegro

- **Reference for compliance with EU *acquis* on R&I policy**
- **Start preparing 4 commitments:**
  - **Long term R&I strategy**
  - **Ring-fencing public money for education, research and innovation: increase national budget and use IPA**
  - **Actions to promote excellence: quality researchers**
  - **Open national research systems/integrate in ERA**

# Future actions

- **Meeting of WBC steering Platform in Sarajevo on 1 December 2011**
- **Prepare for next IPA:  
planning/programming of good projects it will help economic development of country and thus accession**
- **Innovation Convention in December**

**Ready to support!**