



# How MELODI can contribute to Horizon 2020

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## ***HORIZON 2020 – the EU programme for research & innovation in support of the Union's 2020 objectives***

- Commission published its proposal, including for the Euratom programme 2014-2018, on 30/11/11
  - **€80B total package**
  - **Euratom covers fusion & fission + nuclear activities of JRC (budget for 'fission' = €355M)**
- RP remains a key Euratom objective: *"Joint and/or coordinated research activities, in particular on the risks from low doses from industrial, medical or environmental exposure and on emergency management in relation to accidents involving radiation, to provide a pan-European S&T basis for a robust, equitable & socially acceptable system of protection"*
- RP also plays a role in areas of safety & radwaste management
- Proposal now with Council & EP – adoption 2013

## ***What's new in HORIZON 2020?***

- Marks an evolution from the traditional FP to
  - **'new management modes' (PPPs, P2Ps, JTIs, JUs and other non-Community legal entities) & simplification**
  - **increased synergies between policy areas and sources of funding, focused around 'grand themes' (societal challenges, industrial leadership, excellent science)**
  - **increased emphasis on cross-cutting activities**
  - **better integration of R&D funding into the innovation cycle**
- New funding schemes (e.g. programme co-fund actions)
- Performance indicators for assessing results & impacts:
  - **e.g. under the heading 'Foster radiation protection', the indicator is: *"%age of funded projects likely to have a demonstrable impact on regulatory practice regarding radiation protection"***

## ***Horizon 2020 'Societal challenges'***

- Health, demographic change and wellbeing
- Food security, sustainable agriculture, marine and maritime research, and the bio-economy
- Secure, clean and efficient energy
- Smart, green and integrated transport
- Climate action, resource efficiency and raw materials
- Inclusive, innovative and secure societies

## ***How is MELODI currently positioned in relation to Horizon 2020 objectives?***

- MELODI is focused on one of the priority areas under Euratom
- MELODI is promoting multidisciplinary research
- MELODI is a legal entity with currently 22 members from the public sector across the EU
  - **Includes regulators, TSOs, research funding agencies from 15 MS**
- MELODI members are already involved in Euratom research
- A governance structure has been established and the organisation already is recognised, including internationally, for its competence in low-dose issues

## ***How should MELODI evolve to benefit from Horizon 2020?***

- Reinforce its governance, statutes & procedures in view of a possible role in the implementation of part of the Euratom programme
- Reinforce focus and European convergence of the SRA
- Build bridges with research on emergency preparedness and radioecology

## ***Preparatory phase: 2013 call (deadline 13/11/12)***

- Topic Fission-2013-3.1.1: Preparatory Phase in support of MELODI for its development as federating body to ensure cost-efficiency & high-performance of low-dose risk research in EU
- Support will be provided for a number of measures to prepare MELODI for efficient & effective contribution under Horizon 2020:
  - **Attract biologists from other disciplines**
  - **Build up an innovative mechanism for 'joint programming' & implementation of low-dose research – e.g. prepare inter-government agreements, establish decision-making structures / advisory bodies / IPR rules / researcher access**
  - **Involvement of other bodies such as HERCA (Heads of European Radiation protection Competent Authorities) and ESR (European Society of Radiology), e.g. by MoU**
  - **Address international cooperation aspects**

## ***On-going EU projects on low dose and radioecology:***

Epidemiological Studies of Exposed Southern Urals Populations –  
**SOLO**-30/10/2014

Low Dose Research towards Multidisciplinary Integration –  
**DoReMi**-29/02/2016

Combining epidemiology and radiobiology to assess cancer risks –  
**EpiRadBio**-30/05/2015

Strategy for Allied Radioecology – **STAR** – 29/09/2015

Study to quantify risks for paediatric computerized tomography-  
**EPI-CT**- 31/03/2016

Cognitive and Cerebrovascular Effects ...-**CEREBRAD** – 29/11/2014



## ***... on-going EU projects (2)***

Cardiovascular Risk ...- **PROCARDIO** – 29/11/2014

Cancer risk from neutrons relative to photons...- **ANDANTE** -  
29/02/16

Studies on ...the non-coding genome –**Dark-Risk** -30/09/2015

Risk, Stem Cells and Tissue Kinetics – Ionising Radiation-**Risk-IR**-  
30/09/2016

Prospective cohort ... near the Semipalatinsk nuclear test site –  
**SEMI-NUC**-2015

## EU Scientific Seminars

*Objective:* Inform the European Commission on emerging issues in Radiation Protection – generally addressing new research findings with potential policy and/or regulatory implications

*Organisation:* Organised by DG ENER Radiation protection unit in cooperation with the Group of Experts referred to in Article 31 of the Euratom Treaty and its Working Party on Research Implications for Health and Safety Standards (RIHSS)

*Topics:*

- 2012: Protection of the Environment (to be held on 20 November 2012)
- 2011: Individual Radio-sensitivity
- 2010: Issues with internal emitters
- 2009: Childhood leukaemia – mechanisms and causes
- 2008: Emerging issues arising from radiation induced circulatory diseases (RP 158)
- 2007: Emerging issues on tritium and low energy beta emitters (RP 152)
- 2006: New Insight in Radiation Risk and BSS (RP 145)
- 2005: Scientific seminar on alpha-emitters (RP 151) ....



**Thank you for your attention**