Horizon 2020

The EU Framework Programme for Research and Innovation

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DG RTD (Research and Innovation)
Unit K4 – Nuclear Fission

2014-2020

IGD-TP _Exchange Forum,
Paris, 29 November 2012
OVERVIEW

- FP7 Status
- New Euratom FP 2014-2018 in Horizon 2020
- Towards European Joint Programmes in Horizon 2020
- EURADWASTE '13 conference
Two new projects in 2012:

**DOPAS (technical project on plugs and seals)**
**Duration:** 48 months from 01 September 2012  
**Participants:** Coordinator POSIVA + 13 beneficiaries  
**Budget:** total cost € 15.744 million, EU funding € 8.7 million

**SecIGD2 (IGD-TP secretariat)**
**Duration:** 36 months from 01 January 2013  
**Participants:** Coordinator ANDRA + 3 beneficiaries  
**Budget:** total cost € 1.424 million, EU funding € 0.79 million
Call deadline 13 November 2012: Proposals received

**Topic - Preparatory phase (PP) for the support of joint programmes:**

- **Geological Disposal** – no proposal
- **Reactor systems** – 1 in GEN II & III and 1 in GEN IV
- **Radiation Protection** – 1 proposal
- **Complementary integrative proposals**
  - **Materials** – 1 (joint res. actions between nat. programmes)
  - **Cogeneration** – 1 (European Res. Initiative on co-generation)

**Topic - (Support to IGD-TP SRA priorities and basic research**

1 proposal – CAST (Carbon- 14 Source Term)

Evaluation in January 2013, contract mid-2013
### FP 7 status in 2012

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<tr>
<th>Project</th>
<th>Total Costs</th>
<th>EU Funding</th>
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<tr>
<td>CARBOWASTE (EUR million 12.1 / 6.00)</td>
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<td>ACTINET-I3 (EUR million 7.68 / 3.00)</td>
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<td>EBBSYN</td>
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<td>CatClay (EUR million 1.55 / 0.82)</td>
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<td>ReCOSY (EUR million 6.2 / 3.5)</td>
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<td>PETRUS II (EUR million 1.87 / 0.8)</td>
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<td>FORGE (EUR million 11.3 / 5.99)</td>
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<td>FIRST-Nuclides (EUR million 4.7 / 2.5)</td>
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### Horizons

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### Horizon 2014-2018

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#### IGD-TP Priorities
- **Total 22 projects**
- **Total 102.4 / 53.8**
- **TSOs & NMS 2.3 / 1.85**
- **Cross-cutting topics 19.8 / 9.0**
- **Basic research 13.1 / 7.5**
- **Gov. & Training 7.0 / 4.4**

#### Other Projects
- **IGD-TP priorities 60.2 / 31.0**
- **TOTAL 102.4 / 53.8**
European Commission proposal to Council of European Union Member States in December 2011

**Budget:**
- **Fission (indirect actions):** €355 million / 287
- **Fusion:** €710 million / 1947
- **JRC (EC direct prog.):** €724 million / 517

**General objective:**
- Nuclear safety, security & radiation protection
- Long-term decarbonisation of the energy system (safe, efficient & secure way)

**Objectives (indirect actions fission):**
- **safe operation** of nuclear systems;
- **management of ultimate waste**;
- development and sustainability of **nuclear competences**;
- **radiation protection**;
- **innovation and industrial competitiveness**;
- availability and use of **research infrastructures**.
Ongoing: Euro Parliament and Council discussions of EC proposals
Ongoing: Need EP / Council agreement on EU budget 2014-2020
Ongoing: FP7, final call evaluation
Mid 2013: Drafting 1st Work Programme
          if Horizon 2020 adopted by EP and Council
Jan. 2014: Launch of first calls
Introduction of **programme co-funding**
as foreseen in the **Rules for participation**: COM(2011) 810 final, 30/11/2011

**Why**

- Further increase coordination and integration of research via support to programmes rather than projects

**Objective in area management of ultimate waste (GD)**

- Support IGD-TP priorities
- And the wider needs
  - Continued innovative basic research
  - Support less advanced national programmes
  - Needs of regulators / TSOs
  - Engagement of citizens and civil societies
  - Promote int.l cooperation, disseminate results
  - Stimulate training and mobility
  - Include support to socio-economic impact studies
Means

✓ Allocate ca. 2/3 of budget available to research to programmatic activities and 1/3 to traditional projects and horizontal activities

Who would be able to propose a programme

✓ Entities public or private that own or manage research programmes

Who could participate in research activities

✓ All legal entities as in FP7
Programme co-fund: Rules for participations, definitions: “'programme co-fund action' means an action funded through a grant the main purpose of which is supplementing individual calls or programmes funded by entities, other than Union bodies, managing research and innovation programmes”

Types of actions: schemes being considered

✅ ERA-NET instrument: Co-funding of individual calls,

✅ Marie Curie COFUND: Co-funding of training, mobility and career development programmes,

✅ "European joint-programmes": Co-funding of research and innovation programmes, including (incl. calls)
Programme co-fund

How would it work

Actions

EC call

Applicants for

EC funding

**EJP**
- Programme & or competitive project calls
- % of total expenditure

ERA-NET
- Competitive project calls
- Cost of calls + % of R&D & admin costs

MC cofund
- Doctoral & fellowship programmes
- Scale of unit costs

(With ratio of national budget pooled)
✓ Subject to confirmed interest of Member States public and private owners or managers of research programmes

✓ As soon as EC instruments are ready

✓ And based on outcome of a PP
The Preparatory Phase

What is expected

- Prepare to set-up legal entity(ies);
- Address strategic questions e.g. vision and objective of a joint programme,
- Agree on governance i.e. decision making procedures,
- Develop prog. content and prepare impl.tion road-map
- Who takes part,
- Who funds what,
- How the programme(s) are managed,
- What are the legal is issues involved,
- Which technical tools will used & developed

EC considering ways and means to relaunch support to a PP before Horizon 2020
Simultaneously with FISA '13, the sister conference on reactor systems and safety; A joint introduction & closure for synthetic view of issues, policies & research & implementation programmes in reactor systems/safety & high-level waste disposal in Europe;

**Euradwaste:**

- to present achievements of Euratom FP7: >20 projects
- to cover EU Waste Directive / 2011
- to present & discuss EC research policy for partnership & joint programming
Thank you for your attention!

Find out more:
www.ec.europa.eu/research/horizon2020