

FP7 Information Session

Euratom Thematic Area

17 May 2012



Contents

Background

2012 work programme

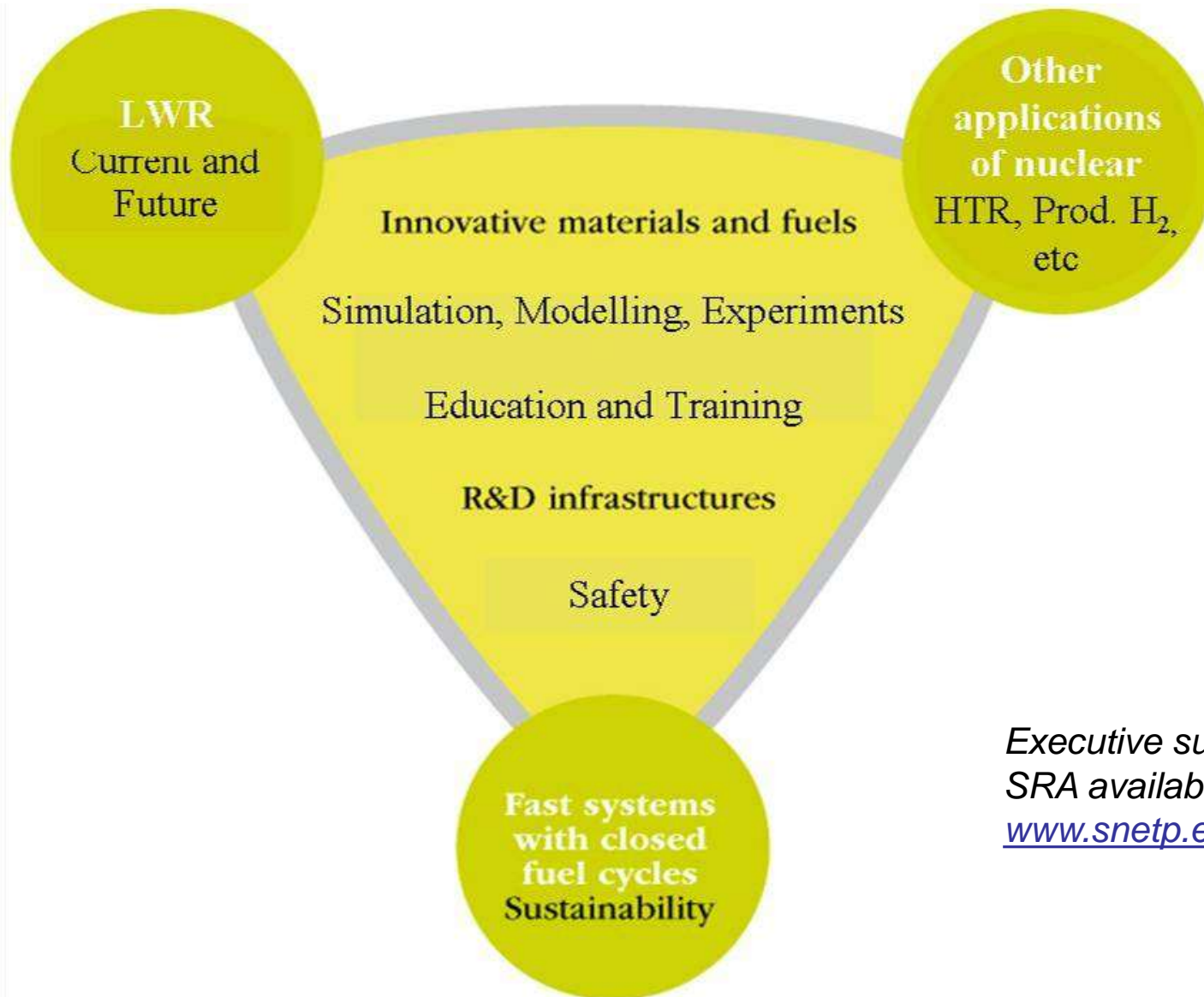
Indicative work programme for 2013+

SET-Plan & nuclear fission



- Key EU technology challenges for the next 10 years
... to meet 2020 targets:
 - *“Maintain competitiveness in fission technologies, together with long-term waste management solutions”*
- ... to meet 2050 vision:
 - *“Complete the preparations for the demonstration of a new generation (Gen-IV) of fission reactors for increased sustainability”*
- Priority European Industrial Initiatives to be launched from 2008 onwards:
 - *“Sustainable nuclear fission initiative: focus on the development of Generation-IV technologies”*

SNE-TP Strategic Research Agenda: 3 pillars



*Executive summary of
SRA available on
www.snetp.eu*



Euratom Work Programme 2012

Fusion (ITER)

Fission and radiation protection:

- *Radioactive waste management (€9m)*
- *Reactor systems (€20m)*
- *Radiation protection (€15m)*
- *Infrastructures; HR & training; Cross-cutting actions (€9.25m)*

Nuclear Fission, Safety and Radiation Protection: Objectives for 2013+

To strengthen the research and innovation framework and coordinate Member States' research efforts, thereby avoiding duplication and retaining critical mass in key areas.

The role of the EU is to support, in the interest of all its Member States, joint cutting-edge research efforts, knowledge creation and knowledge preservation on nuclear fission technologies.

Contribute to continuous development of sound scientific and technical basis all over Europe to accelerate practical developments for safer management of long-lived radioactive waste, to enhance in particular safety and security while contributing to resource efficiency and cost-effectiveness of the European energy system, and to ensure a robust and socially acceptable system of protection of man and the environment against the effects of ionising radiation.

NFD&RP Objectives 2013+ (cont.)

- *Nuclear systems and safety:* Contribute to pre-conceptual design and related activities for Generation IV reactors, insofar as effort remains exclusively focused on safety.
- *Nuclear waste:* Support joint research activities on deep geological disposal to ensure the operation of the first repositories in the EU by 2020-25.
- *Radiation protection:* Address concerns of European citizens on possible long-term health effects of low radiation doses, especially from use of radiation in medical diagnostic and therapeutic techniques.

NFS&RP Indicative Work Programme 2013

Majority of activities will provide catalytic and leveraging support for a **preparatory phase** (PP), aiming at optimal coordination, cross-border operation and possible integration of national research actions of pan-European interest in nuclear fission and radioprotection.

Preparatory phases to include the following activities:

- Strategic
- Management
- Governance
- Financial
- Legal
- Technical

Should lead after 2-3 years to implementation of joint programmes, incl. PPP.

NFS&RP Indicative Work Programme 2013 Activities (1)

Geological disposal:

- Prep phase (PP) for new modes of integrated research programmes
- Support for the Implementing Geological Disposal Technology Platform (IGD-TP)

Reactor systems:

- Safety and competitiveness of existing nuclear installations: PP for integrated EU research programme
- Advanced nuclear energy systems: PP towards coordinated research on reactor safety
- Cross-cutting aspects: Development of joint actions between national programmes on advanced nuclear materials
- Non-electrical uses: Towards a European Research Platform on Co-generation

NFS&RP Indicative Work Programme 2013 Activities (2)

Radiation protection:

- Risks for low and protracted exposures: PP to develop Multi-disciplinary European Low Dose Initiative (MELODI) as federating body
- National research activities in other areas: Support towards European platform on impact of radiation on the environment, incl. the food chain

Infrastructures:

- Support to MYRRHA

NFS&RP Indicative Work Programme 2013

Activities (3)

Human resources and training:

- Euratom Fission training Schemes (EFTS)

Cross-cutting actions:

- Widening involvement in NFS&RP programme
- Education / training / information to the public
- Towards a socio-economic analysis of FP7 Euratom actions

Cooperation with Third Countries:

- Collaborative research on geological disposal
- Impact of radiation on the environment
- Support to large research infrastructures
- Euratom Fission Training Schemes (EFTS)

Euratom FP7 Call 2013

- Publication July 2012
- Deadline January 2013
- Budget not yet finalised



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Thank you!

