



THE EU FRAMEWORK PROGRAMME
FOR RESEARCH AND INNOVATION

HORIZON 2020

**SNETP General
Assembly
Brussels, 17-03-2015**



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FURTHER INTEGRATION OF NUCLEAR REACTOR (NR) RESEARCH AT EU LEVEL

*Achievements and way forward,
including through Joint Programming
and Co-funding*

H2020 Euratom Fission WP

Reactor systems

- Safety & competitiveness of nuclear installation
- Advanced nuclear systems for increased sustainability
- Advanced systems for non-electrical uses



Radiation protection



Geological disposal



Research infrastructures

Training and mobility

Cross-cutting and INCO

Grand Total:

~50 M€/y

Global EC funding for EURATOM indirect actions

Program	Period	EC funding (M€)	Annual budget (M€/y)
FP5	1998-2002	172	34
FP6	2002-2006	190	38
FP7	2007-2011	287	57
FP7 extension	2012-2013	118	59
Horizon-2020	/ 2014-2018 /	315 /	63

Specific EC funding for EURATOM indirect actions in "innovative reactors"

Program	Total EC funding (M€)	Number of projects	Number of year*project	Average participants per project	EC funding (k€/y per participant)
FP5	12	15	47.5	9	2
FP6	18	7	16.5	18	9
FP7	79	20	67	20	3
FP7 extension	29	12	40	11	5

Thus, Innovative reactors : 7% in FP5 , 20% in FP6 and 27% in FP7



MAIN ACHIEVEMENTS SO FAR

- Promotion of SRAs and Action Plans of relevant research platforms, associations and initiatives (long-standing activity)
- Development of a shared view on the necessity to further focus on safety and consider fission as an integral part of the EU energy mix (2013 Symposium) and SET-Plan Towards an Integrated Roadmap and Action Plan
- Taking on board of the Key SRAs priorities in drafting the Euratom calls for proposals
- Consolidation and integrating relevant SRAs, including through interaction with the wider academic community where appropriate (e.g. on materials)



THE WAY FORWARD - 1/2

- Sustained efforts on SRAs should drive the scientific and technical content, while maintaining the focus on safety (the first requirement for technology deployment)
- Further integration of the three SNETP pillars ("a coherent whole") and provision of an overall picture and strategy
- Streamlining representation / communication ("one voice")
- Think in terms of European strategic interests and citizens' concerns (notably security of supply and furthering of safety)
- Concentrate on actions with clear European Added Value (e.g. develop S&T basis for future EU standards)



THE WAY FORWARD - 2/2

- Reinforced participation of MS should provide leverage for wider and more ambitious public support to NR research in selected areas (e.g. standards for GIV)
- Provision of relevant accurate and up-to-date financing data
- Realistic, step-by-step approach
- Making use of the best-adapted Horizon 2020 instruments
 - Programme co-fund instruments starting with for example ERANET(s) in selected areas of NR safety
 - Innov-*Fin* for supporting research infrastructure of pan-european interest, and latest Juncker's Investment Plan
 - EJP as a longer term possible option.

Thank you!