

The added value of European research: **HORIZON 2020**



Manuel Martín Ramos
European Commission
Joint Research Centre
Nuclear Safety and Security Coordination
Manuel.MARTIN-RAMOS@ec.europa.eu

Horizon 2020 three main priorities:

1. Excellence science
2. Industrial leadership
3. Societal changes

http://ec.europa.eu/research/horizon2020/index_en.cfm

EURATOM TREATY

EC to promote and facilitate nuclear research activities in Member States and complement them through a Community Research and Training Programme (Euratom programme)

- Financial support to research contracts
- Provide facilities, equipment or expert assistance
- Stimulate joint financing

The EURATOM Programme general objective is to pursue nuclear research and training activities with an emphasis on nuclear safety and security, and to contribute to the long-term decarbonisation of the energy system in a safe, efficient and secure way.

Specific objectives for indirect actions (R&I activities funded by the EU and undertaken by the participants)

- Safe operation of nuclear systems
- Contribute to the development of solutions for the management of ultimate nuclear waste
- Support the development and sustainability of nuclear competences
- Foster radiation protection
- Promote innovation and industrial competitiveness
- Ensure availability and use of European research infrastructures
- (Plus additional specific objectives in the area of nuclear fusion)

Specific objectives for direct actions (R&I activities undertaken directly by European Commission's Joint Research Centre)

- Improve nuclear safety including: fuel and reactor safety, waste management and decommissioning, emergency preparedness
- Improve nuclear security including: nuclear safeguards, non-proliferation, combating illicit trafficking and nuclear forensics
- Raising excellence in the nuclear science base for standardisation
- Foster knowledge management, education and training
- Support the policy of the Union on nuclear safety and security and the related evolving Union legislation

MAIN RECOMMENDATIONS FROM THE 2013 "SYMPOSIUM ON BENEFITS AND LIMITATIONS OF NUCLEAR FISSION FOR A LOW CARBON ECONOMY"

- Involve the research community, politicians, civil society and industrial actors in the dialogue on nuclear fission research
- Further focus research on safety, risk-mitigation, safeguards and security, radioactive waste management and decommissioning
- Enhance the scientific support to policy on nuclear safety
- Promote a wider systemic approach
- Develop research into new and emerging technologies, not only for safety and security, but also in innovative sectors such as nuclear medicine.
- Keep the EU competences in nuclear science and technology at the highest level
- Enhance international cooperation to promote the highest safety standards

**Thank you for your
attention**