

---

# EURATOM Research and Training Programme

2021 – 2025

---

**TOMASZ SLIWINSKI**

Euratom 2021-2025: New Programme, New Possibilities  
Webinarium, 19 Maja 2021



*Research and  
Innovation*

# Outline:

---



1. Horizon Europe & Euratom Programme
2. Euratom Training and Research Programme
3. Euratom Work Programme 2021-2022



---

# 1. Horizon Europe & Euratom Programme



# Horizon Europe & Euratom

## HORIZON EUROPE

## EURATOM

### SPECIFIC PROGRAMME: EUROPEAN DEFENCE FUND

*Exclusive focus on  
defence research  
& development*

Research  
actions

Development  
actions

### SPECIFIC PROGRAMME IMPLEMENTING HORIZON EUROPE & EIT\*

*Exclusive focus on civil applications*



**Pillar I  
EXCELLENT SCIENCE**

European Research Council

Marie Skłodowska-Curie

Research Infrastructures



**Pillar II  
GLOBAL CHALLENGES &  
EUROPEAN INDUSTRIAL  
COMPETITIVENESS**

Clusters

- Health
- Culture, Creativity & Inclusive Society
- Civil Security for Society
- Digital, Industry & Space
- Climate, Energy & Mobility
- Food, Bioeconomy, Natural Resources, Agriculture & Environment

Joint Research Centre



**Pillar III  
INNOVATIVE EUROPE**

European Innovation  
Council

European innovation  
ecosystems

European Institute of  
Innovation & Technology\*

### WIDENING PARTICIPATION AND STRENGTHENING THE EUROPEAN RESEARCH AREA

Widening participation & spreading excellence

Reforming & Enhancing the European R&I system

Fusion

Fission

Joint  
Research  
Center

---

# 2. Euratom Research and Training Programme 2021-2025



# Euratom Programme (2021-2025)

Regulation establishing the Programme adopted on 10 May and published on 12 May

12.5.2021

PL

Dziennik Urzędowy Unii Europejskiej

L 167 I/81

II

(Akty o charakterze nieustawodawczym)

## ROZPORZĄDZENIA

ROZPORZĄDZENIE RADY (Euratom) 2021/765

z dnia 10 maja 2021 r.

ustanawiające program badawczo-szkoleniowy Europejskiej Wspólnoty Energii Atomowej na lata 2021–2025 uzupełniający program ramowy w zakresie badań naukowych i innowacji „Horyzont Europa” oraz uchylające rozporządzenie (Euratom) 2018/1563

# Main priorities of the Euratom Programme

1. Improve and support nuclear safety, security, safeguards, radiation protection, safe spent fuel and radioactive waste management, decommissioning, including the safe and secure use of nuclear power and non-power applications of ionizing radiation,
2. Maintain and further develop expertise and competence in the nuclear field within the Community
3. Foster the development of fusion energy as potential future energy source for electricity production and contribute to the implementation of the European fusion roadmap,
4. Support the policy of the Union and its MS on continuous improvement of nuclear safety, safeguards and security.

# Euratom Programme (2021-2025)

## Key novelties

1. **Simplification** of specific objectives
2. **Education and Training** – more actions offering direct support to students and researchers, opening of access to MSCA
3. **Synergies with Horizon Europe** – a clear legal base, same rules and instruments
4. **Synergies between Euratom actions** – access to JRC expertise and infrastructures
5. **More focus on health issues** - medical applications of ionising radiation
6. **Introduction of new Prizes** - Nuclear Innovation Prize in the field of safety of reactor systems and radioactive waste management



# Euratom Programme 2021-2025



The financial envelope for the implementation of the new Euratom Programme 2021-2025 shall be **€1.382 billion in current prices.**

**€583 million** for indirect actions in fusion research and development

**€266 million** for indirect actions in nuclear fission, safety and radiation protection

**€532 million** for direct actions undertaken by the Joint Research Centre

# Euratom's co-funded Partnerships

- Most of the Programme, in particular research in fusion energy, waste management and radiation protection, will be carried out through co-funded European Partnerships.
- A new generation of European Partnerships should bring greater impacts, involving a wide range of public and private partners.
- Success of Euratom co-funded Partnerships requires a strong commitment from EU MS.

**EUROfusion**

**Radioactive waste  
management**

**Radiation protection**

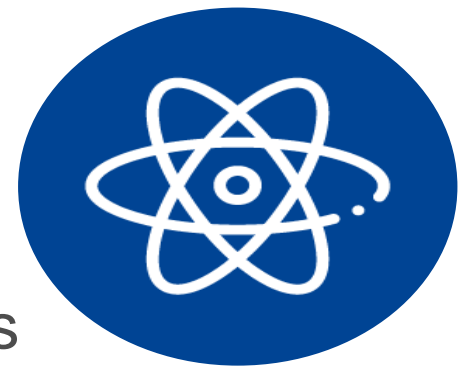
The new approach ensures simplified and more transparent support of research and innovation, creating stronger links with EU and national policies.

---

# 4. Euratom Work Programme 2021-2022

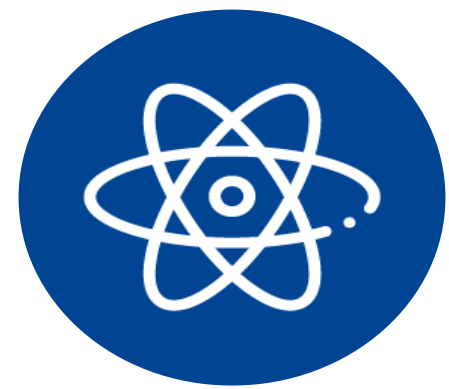


# Main priorities for fission research

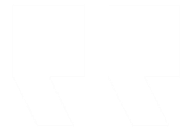


1. Research for safety of current and future Nuclear Power Plants
2. Radiation protection and non-power applications
3. Research infrastructure, education & training and socio-economic issues
4. Radioactive waste management
5. Other Actions in support of fission research and training

# Main priorities for fusion research



1. Co-funded European Partnership for fusion research
2. Scientific basis for licensing procedures and standards for future fission and fusion plants
3. Development of tritium management in fusion and fission facilities
4. Supporting actions for fusion research and training



# Thank you!

## # HorizonEU

## # Euratom

<http://ec.europa.eu/horizon-europe>



© European Union 2021

Unless otherwise noted the reuse of this presentation is authorised under the [CC BY 4.0](https://creativecommons.org/licenses/by/4.0/) license. For any use or reproduction of elements that are not owned by the EU, permission may need to be sought directly from the respective right holders.

Image credits: © ivector #235536634, #249868181, #251163013, #266009682, #273480523, #362422833, #241215668, #244690530, #245719946, #251163053, #252508849, 2020. Source: Stock.Adobe.com. Icons © Flaticon – all rights reserved.