SNETP
Sustainable Nuclear Energy Technology Platform

Funded by the European Union

OFFERR project

eurOpean platForm For accEssing nucleaR R&d facilities

OECD/NEA Workshop „LTO Beyond 60“
February 26-29, 2024

OFFERR general presentation

OFFERR
EUROPEAN USER FACILITY NETWORK

Jiri Zdarek, WP5 leader (UJV)

Charles TOULEMONDE, coordinator (EDF)

https://snetp.eu/offerr/

This project is funded by the Horizon Europe programme under grant agreement n°101060008.

Context and objectives

This project will recieve funding from the Horizon Europe programme under grant agreement n°101060008.

Objectives

set up a European infrastructure network

SNETP service portofolio

Topical clusters to identify synergies

EU Infrastructure

cooperate

Cost optimization of R&D

Group capacities and expertise between EU infrastructure

International infrastructure & relative initiatives

facilitate access

Efficiency and reasonable timeline

Young generation of researchers and engineers

Cooperation of research teams

This project will recieve funding from the Horizon Europe programme under grant agreement n°101060008.

OFFERR in a nutshell

Consortium

- 17 partners
- More than 130 person.month

Budget

- 9 M€ funding
- 7,2 M€ for financing the R&D activities

Schedule

- 4 year project
- Call publication during the first year
- Several cut-off dates after the call publication

Call Publication

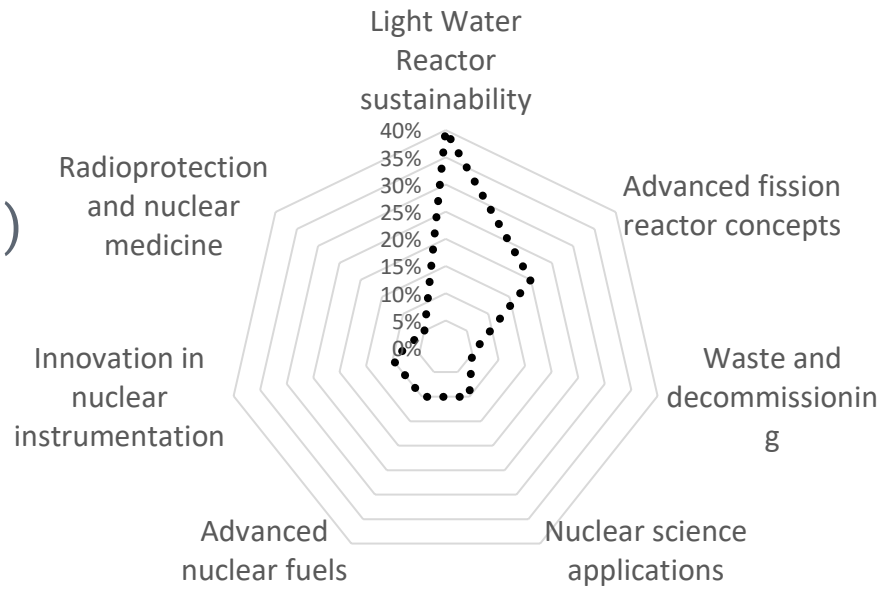
- 2 types of projects
  - Fast tracks
  - Complex projects
- Review by experts panel

SNETP
Sustainable Nuclear Energy Technology Platform

This project will recieve funding from the Horizon Europe programme under grant agreement n°101060008.

Expected funding distribution per area for the first call

- Light water Reactor sustainability ⇨ ~ 40 %
- Advanced fission reactor concepts ⇨ ~ 20 %
- Waste and decommissioning ⇨ ~ ε % (max 1)
- Nuclear science applications ⇨ ~ 10 %
- Advanced nuclear fuels ⇨ ~ 10 %
- Innovation in nuclear instrumentation ⇨ ~ 10 %
- Radioprotection and nuclear medicine ⇨ ~ ε % (max 1)



SNETP Sustainable Nuclear Energy Technology Platform

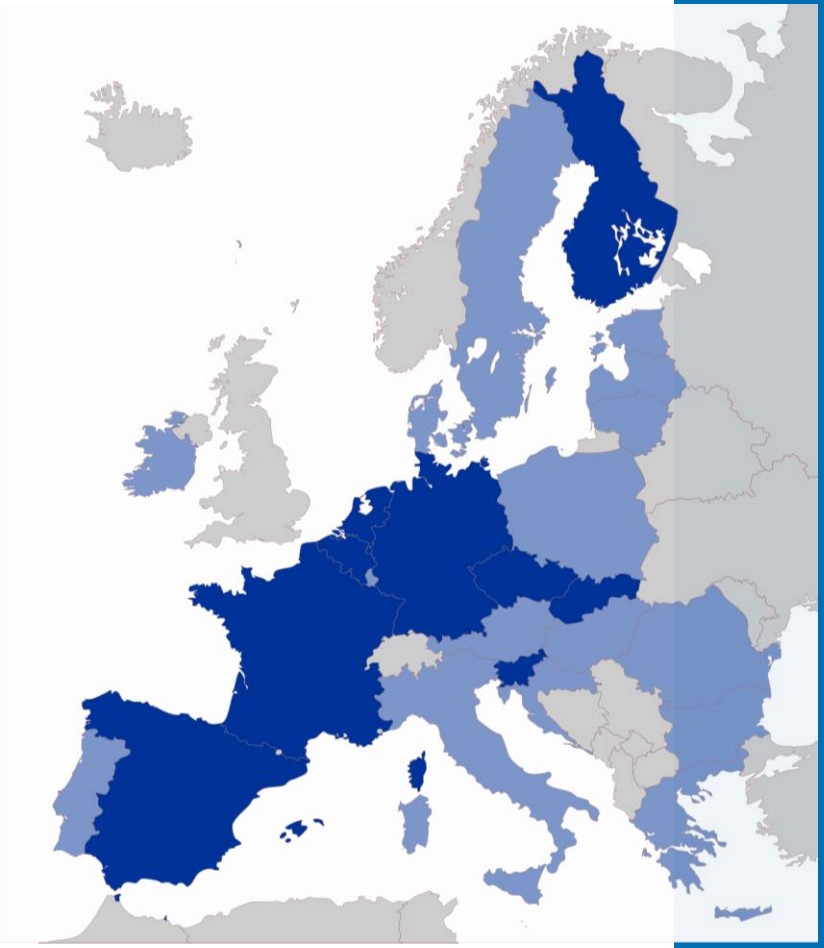
This project is funded by the Horizon Europe programme under grant agreement n°101060008.

OFFERR description

This project will recieve funding from the Horizon Europe programme under grant agreement n°101060008.

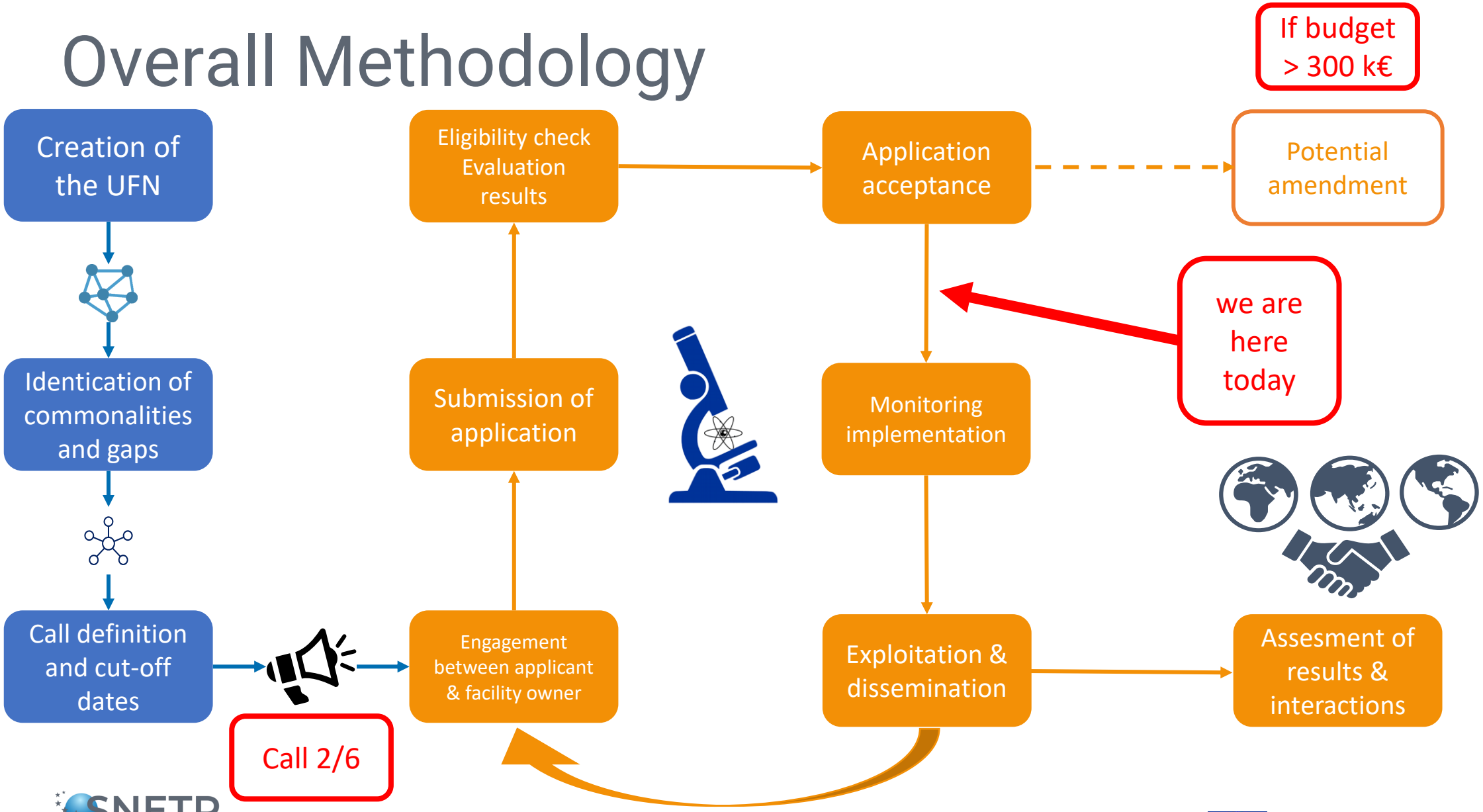
OFFERR consortium members (coordination)

Member		Country
ELECTRICITE DE France	EDF	France
COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES	CEA	France
CENTRO DE INVESTIGACIONES ENERGETICAS, MEDIOAMBIENTALES Y TECNOLOGICAS	CIEMAT	Spain
EUROPEAN NUCLEAR EDUCATION NETWORK	ENEN	Belgium
INSTITUT DE RADIOPROTECTION ET DE SURETE NUCLEAIRE	IRSN	France
INSTITUT JOZEF STEFAN	JSI	Slovenia
KARLSRUHER INSTITUT FUER TECHNOLOGIE	KIT	Germany
NUCLEAR RESEARCH AND CONSULTANCY GROUP	NRG	Netherlands
LGI SUSTAINABLE INNOVATION	LGI	France
STUDIECENTRUM VOOR KERNENERGIE / CENTRE D'ETUDE DE L'ENERGIE NUCLEAIRE	SCK CEN	Belgium
SUSTAINABLE NUCLEAR ENERGY TECHNOLOGY PLATFORM - SNETP	SNETP	Belgium
SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE	STUBA	Slovakia
UJV REZ, a. s.	NRI	Czechia
UNIVERSITY OF STUTTGART	USTUTT	Germany
TEKNOLOGIAN TUTKIMUSKESKUS VTT OY	VTT	Finland
JOINT RESEARCH CENTRE	JRC	EUROPE
ORGANISATION FOR ECONOMIC COOPERATION AND DEVELOPMENT NUCLEAR ENERGY AGENCY	OECD NEA	



This project will recieve funding from the Horizon Europe programme under grant agreement n°101060008.

Overall Methodology



SNETP Sustainable Nuclear Energy Technology Platform

This project will recieve funding from the Horizon Europe programme under grant agreement n°101060008.

International collaborations

- OECD NEA
  - FIDES
  - LTO Beyond 60
- USA
  - NSUF
  - EPRI
  - PNNL
- UK
  - National Network User Facility

IAEA NEXSHARE

contact is being initiated

- The project intends to initiate or strengthen links with other international initiatives

This project will recieve funding from the Horizon Europe programme under grant agreement n°101060008.

Intra-european collaborations

- Projects
  - Facility clusters
  - Education and training
- Institutes
  - JRC

This project will recieve funding from the Horizon Europe programme under grant agreement n°101060008.

OFFERR applications

This project will recieve funding from the Horizon Europe programme under grant agreement n°101060008.

OFFERR applications

- An application = a test on one of the facilities
  - Up to 100 % funding

- Two types of applications
  - “Fast track” applications (< 50 k€)
    - ~70 fast-track applications expected

  - “Complex” applications (> 50 k€)
    - Between 50-300 k€
      - (~15 funded applications expected)
    - Higher than 300 k€
      - (~ 4 funded applications expected)

two of the 205 facilities of the OFFERR network

SNETP Sustainable Nuclear Energy Technology Platform

This project will recieve funding from the Horizon Europe programme under grant agreement n°101060008.

First results and timeline

This project is funded by the Horizon Europe programme under grant agreement n°101060008.

First results

- Facility network

https://snetp.eu/offerr-brochure/

205 facilities
in 7 research areas
public or private owners

1/3 in material research area

- Call process & platform
  - Call documents
  - Platform : https://offerr.flexx.camp/getting-started

SNETP
Sustainable Nuclear Energy Technology Platform

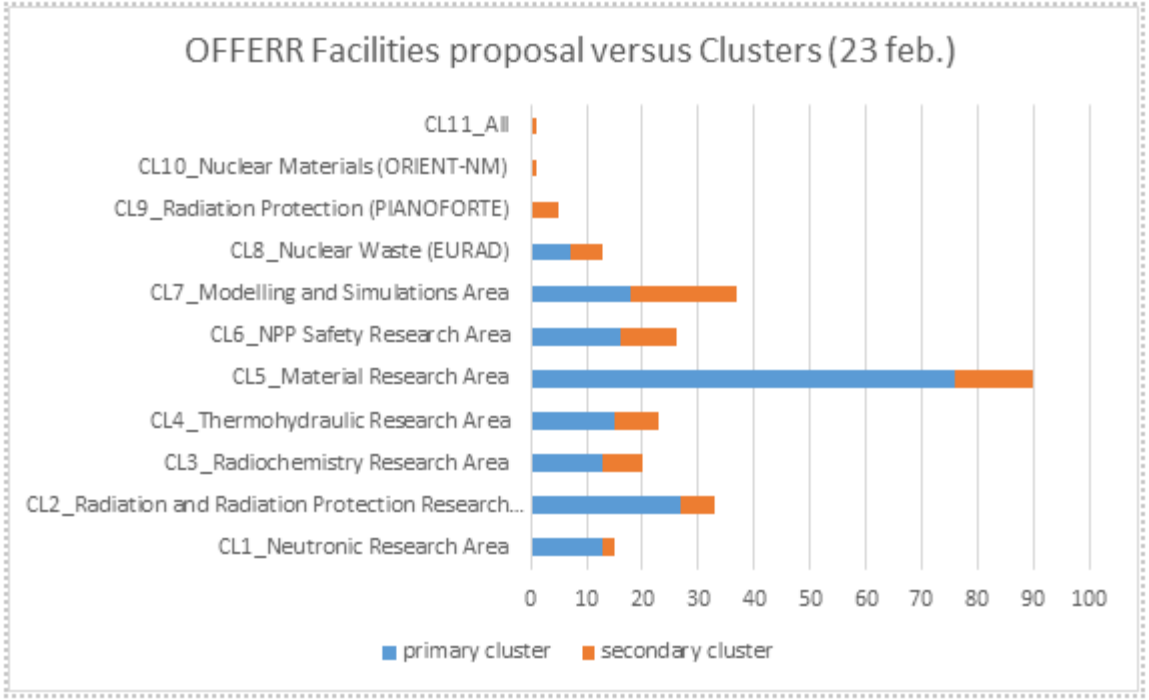
This project is funded by the Horizon Europe programme under grant agreement n°101060008.

Database

https://snetp.eu/wp-content/uploads/2023/09/0_UPDATED-EUFN-Database-2nd-call-V5-SG-230908-.xlsx

- Presentation by clusters

REFERENCE	DESCRIPTION
CL1	Neutronic Research Area
CL2	Radiation & Radiation Protection
CL3	Radiochemistry Research Area
CL4	Thermal Hydraulic Research Area
CL5	Material Research Area
CL6	NPP Safety Research Area
CL7	Modelling & Simulation Area
CL8	Nuclear Waste (EURAD)
CL9	Radiation Protection (PIANOFORTE)
CL10	Nuclear Materials (ORIENT-NM)



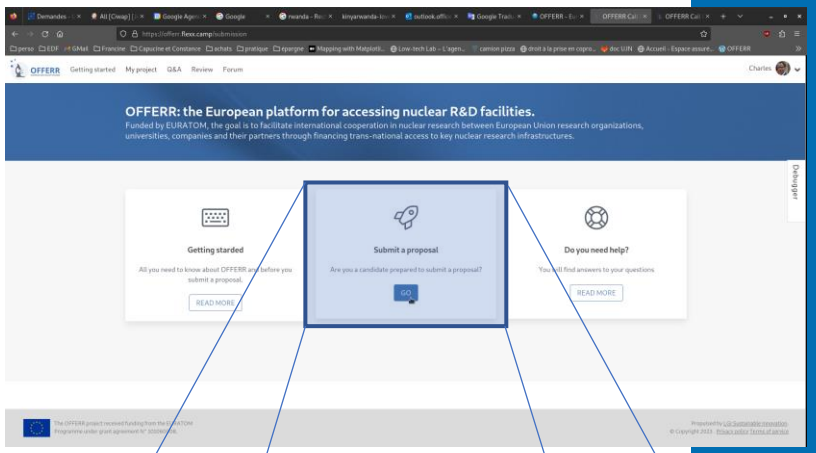
SNETP
Sustainable Nuclear Energy Technology Platform

This project is funded by the Horizon Europe programme under grant agreement n°101060008.

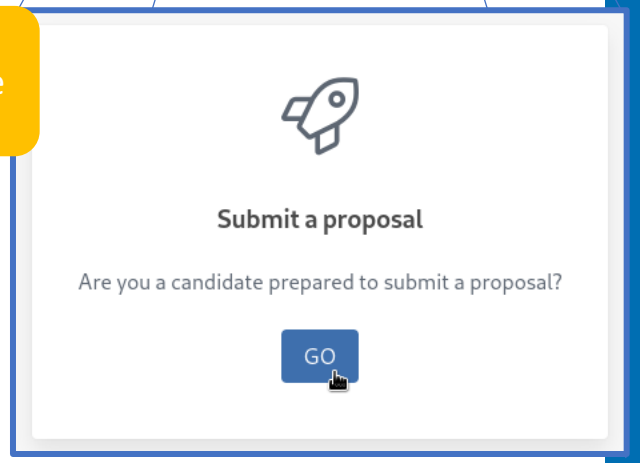
CALLS FOR APPLICATION

- 7,2 M€ budget to fund new experiments

fast-track projects (< 50 k€)			complex projects (> 50 k€)		
cut-off dates	selection completed		cut-off dates	selection completed	
16/05/2023	4 accepted 1 rejected	192 k€			
30/09/2023	11 accepted 1 rejected	518 k€	**30/09/2023**	6 accepted	1931 k€
31/03/2024	1.5 month after		**31/03/2024**	2.5 months after	
30/09/2024			**30/09/2024**		
31/03/2025			**31/03/2025**		
30/09/2025					



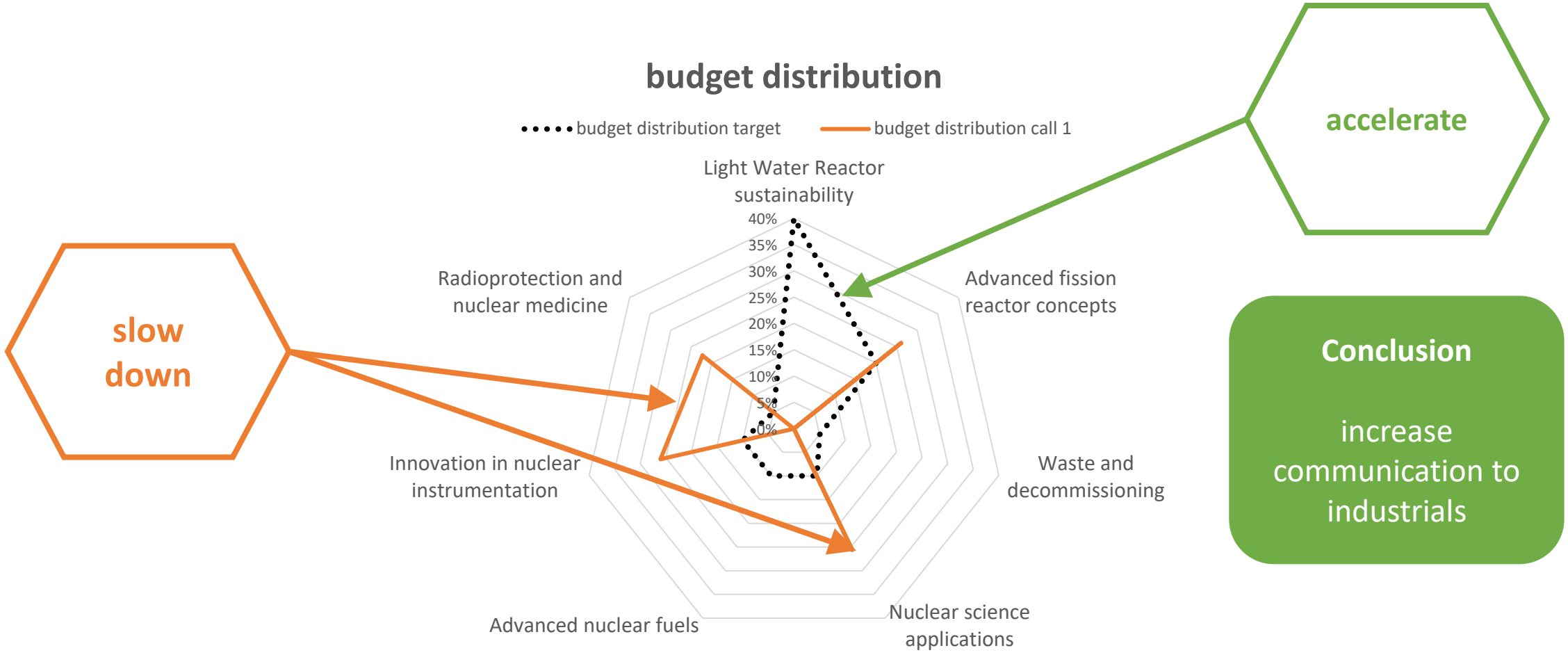
+ 50% leverage effect



SNETP
Sustainable Nuclear Energy Technology Platform

This project is funded by the Horizon Europe programme under grant agreement n°101060008.

Call 1 distribution feedback



Conclusion

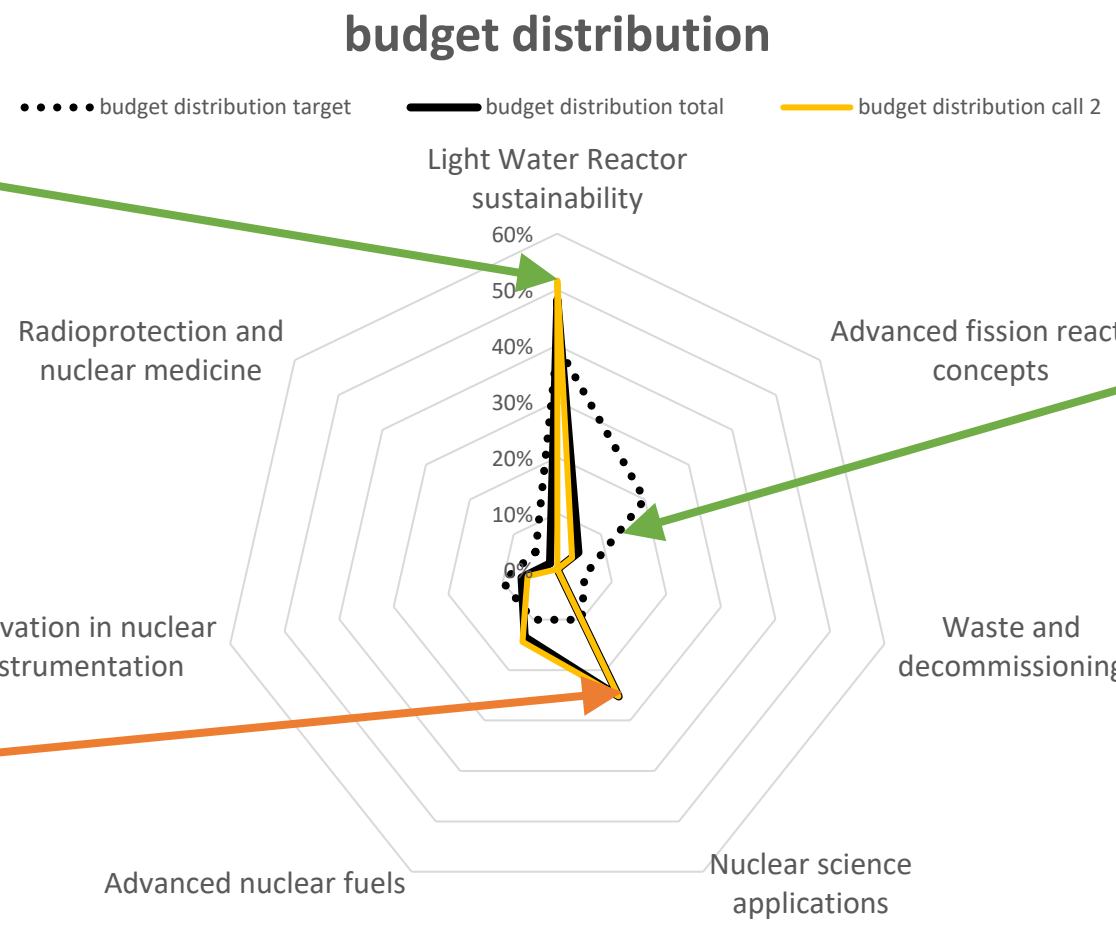
increase communication to industrials

SNETP
Sustainable Nuclear Energy Technology Platform

This project is funded by the Horizon Europe programme under grant agreement n°101060008.

Call 2 distribution estimate

better



accelerate

slow down

Conclusion

push SMR/AMR

SNETP
Sustainable Nuclear Energy Technology Platform

This project is funded by the Horizon Europe programme under grant agreement n°101060008.

OFFERR and LTO Beyond 60 Cooperation

- LTO Beyond 60 project will summarise needs to confirm long term operation beyond design lifetime.
- Identified needs has to be justified by verified and qualified tests and analysis.
- OFFERR Research facilities database is excellent possibility to find relevant Facility and Research team.
- OFFERR provides funding for accepted Research proposal.

This project is funded by the Horizon Europe programme under grant agreement n°101060008.

OFFERR and LTO Beyond 60

- This meeting provides excellent possibility to start cooperation.
- Our next call for proposals will start on March 2024.
- Than another calls will follow. OFFERR project is till 2026.
- Financing is possible for Research facility and Research team from the EU. Participation of Research team outside EU is also possible and welcome, but without financing. Research results are available for all participating teams.

This project is funded by the Horizon Europe programme under grant agreement n°101060008.

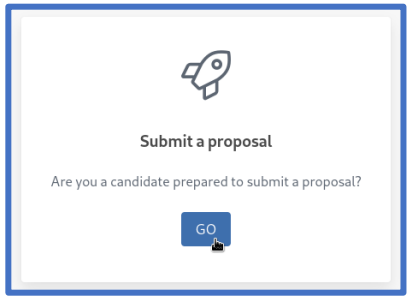
Useful links

This project is funded by the Horizon Europe programme under grant agreement n°101060008.

How to benefit from the project

- If you are a facility owner
  - Join the OFFERR facility network

- If you need to launch new experiments
  - 100 % funding up to 1 M€
  - If the concerned facility belongs to the OFFERR network
    - Contact the owner
  - If the concerned facility does not belong to the OFFERR network
    - Propose the owner to join the network
    - Database is updated every six months



SNETP
Sustainable Nuclear Energy Technology Platform

This project is funded by the Horizon Europe programme under grant agreement n°101060008.

OFFERR useful links

- web page
  - https://snetp.eu/offerr/
- platform
  - https://offerr.flexx.camp/getting-started
- FAQ
  - https://offerr.flexx.camp/faq
- contact
  - https://offerr.flexx.camp/contact-us

OFFERR
EUROPEAN USER FACILITY NETWORK

SNETP
Sustainable Nuclear Energy Technology Platform

This project is funded by the Horizon Europe programme under grant agreement n°101060008.

Contact us

www.snetp.eu

secretariat@snetp.eu

www.linkedin.com/company/snetp

@SNE_TP

OFFERR
EUROPEAN USER FACILITY NETWORK

SNETP
Sustainable Nuclear Energy Technology Platform

This project is funded by the Horizon Europe programme under grant agreement n°101060008.