

EDUCATION, TRAINING AND RESEARCH FACILITIES (OFFERR WP 4 & ENEN# WP 5)

L. Cizelj, Ch. Toulemonde, A. Al Mazouzi, G. L. Pavel



Overview

- Background & Motivation
- Experience with (career enhancement) mobility in ENEN+ project
- Arrangements for mobility in ENEN#
- Linking mobility & access to research infrastructures (OFFERR & ENEN#)
- Summary

Background & Motivation

“Strategic agenda for EU wide nuclear education, training and knowledge management” (available from ENEN):

Nuclear education in distress since 1990s.

Good safety culture resolves known problems!

Nuclear education should remain a necessary prerequisite for training.

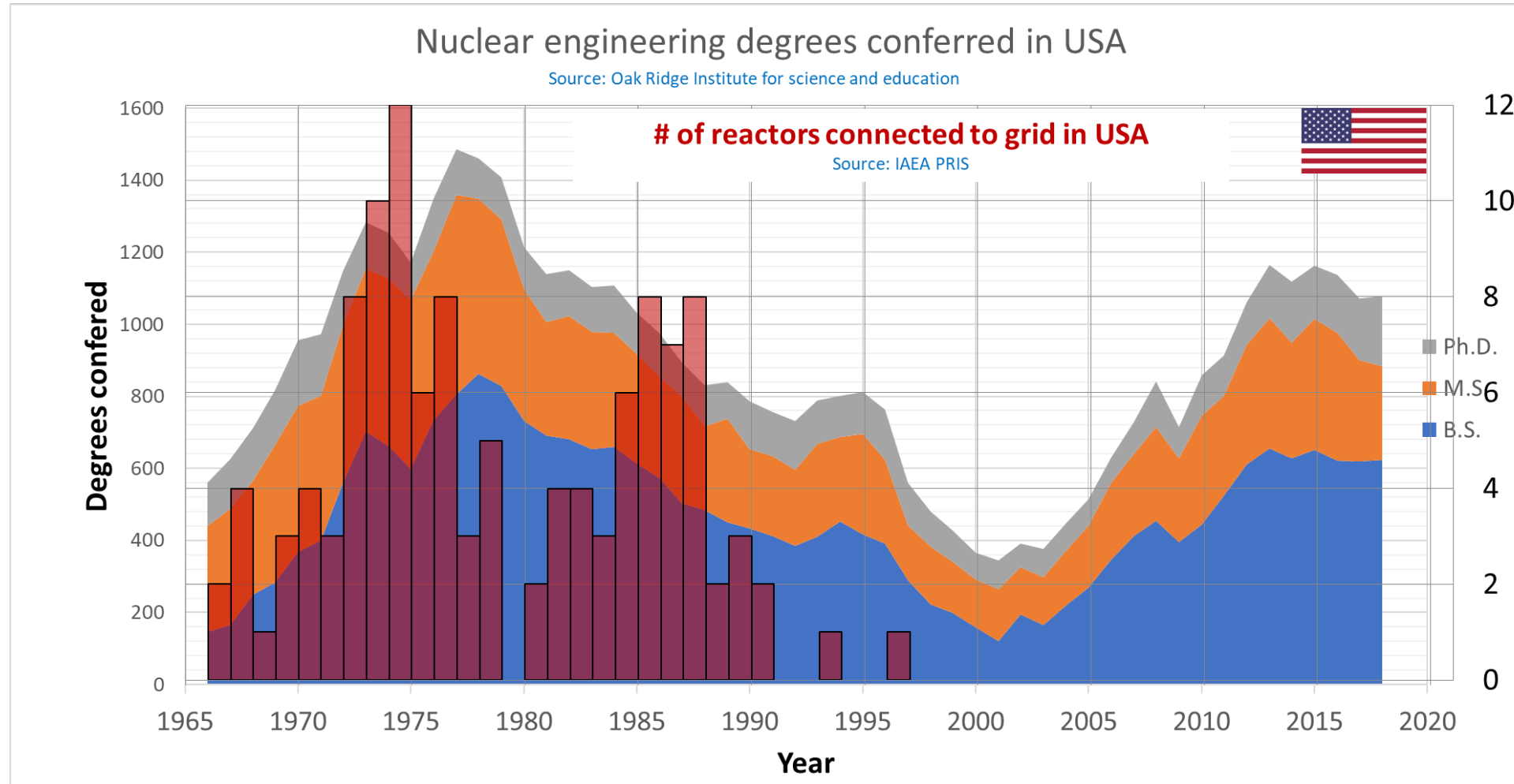
Bottom-up solutions (e.g. ENEN):

- Assist in maintaining the education system(s) and generate warnings;
- Insufficient to attract sufficient quantities of good students;

(Coordinated) top-down approaches needed:

- Strategic planning, communications and cooperation of nuclear stakeholders (e.g., .gov, .com, .edu)
- Long term investments

Background & Motivation



Background & Motivation

Excellent education and training activities include

- Working in different environments
- Access to the best expertise and research infrastructure

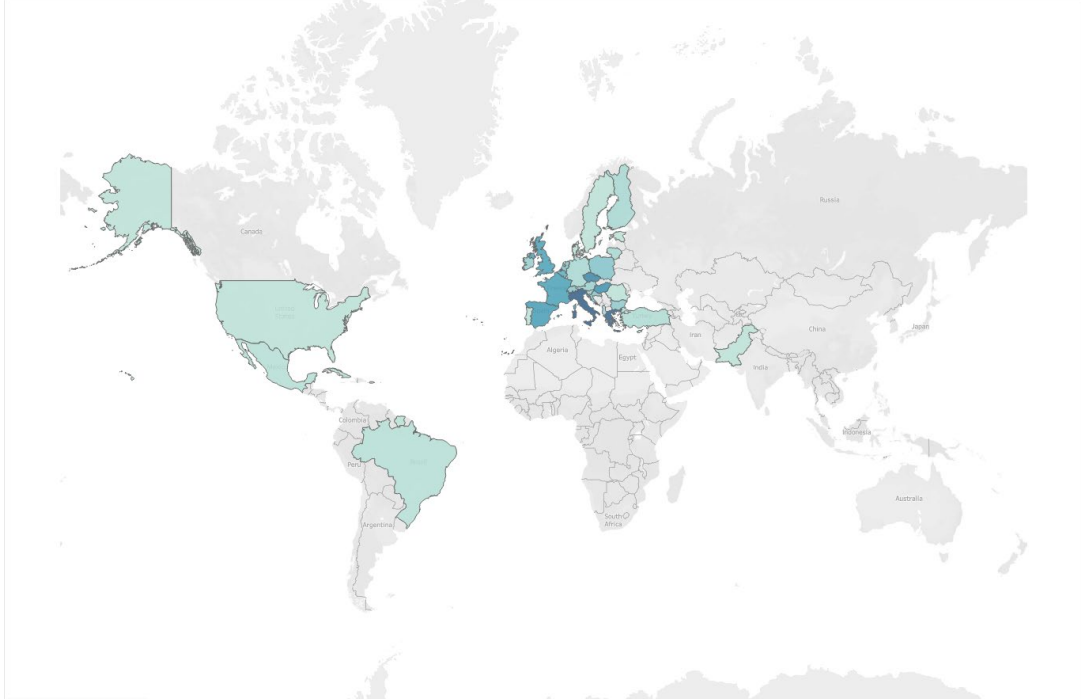
→ Mobility support including access to research infrastructure

Joint venture by OFFERR and ENEN# projects.

Experience in ENEN+ project

>500 persons, >45 person years, ~800k€ (out of 1M€ - COVID19)

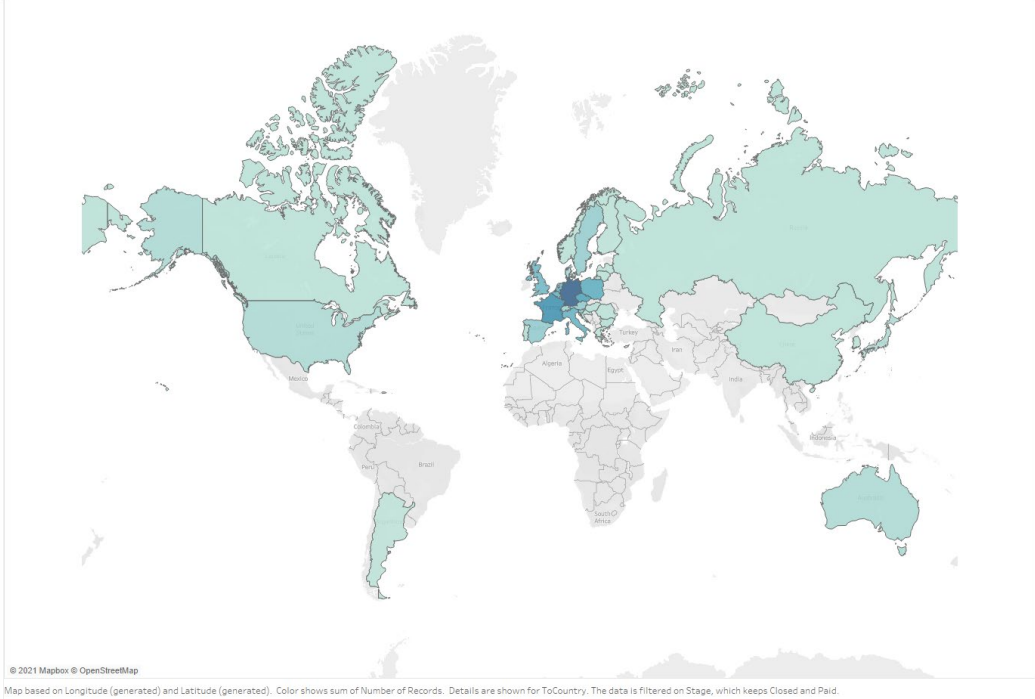
From Country (approved & paid & closed)



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 Map based on Longitude (generated) and Latitude (generated). Color shows sum of Number of Records. Details are shown for Applicant Information | Country of Institution. The data is filtered on Stage, which keeps Closed and Paid.



To Country (approved & paid & closed)



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 Map based on Longitude (generated) and Latitude (generated). Color shows sum of Number of Records. Details are shown for ToCountry. The data is filtered on Stage, which keeps Closed and Paid.



Experience in ENEN+ project

Shares in EUR



~1/3 females

Experience in ENEN+ project

Top Hosts: Demand for Research Infrastructure!

ToInstitution (group)

EC - JRC (Petten), EC-JRC in Geel, EC-JRC-Geel and 17 more	34
ESMPE - Treatment Planning systems, ESMPE European School for Medical Physics Experts - Treatment Planning ..	16
Treatment Planing Systems, Treatment planning system; Jointly orginized by ESMPE and COCIR, Treatment Plann..	13
Material Ageing Institute, Material Ageing Institute Training - Module 3, Material Ageing Institute training cours..	9
NRG & NRG Research & Innovation	6
European Congress of Medical Physics	5
Innovation in technology in Nuclear Medicine	5
Institut Jozef Stefan, Jozef Stefan Institut, Jozef Stefan Institute and 1 more	5
Leadership in Medical Physics, Development of the profession and challenges for the MPE (D&IR), Leadership in M..	5
SCK CEN, SCK-CEN, SCK•CEN Academy for Nuclear Science and Technology and 1 more	5
SOTERIA final workshop, SOTERIA Final Workshop 2019, SOTERIA Training School 2018	5

Experience in ENEN+ project

Web based application and review system (SurveyMonkey)

- 2 months rolling deadlines
- Lump sum grants paid directly to students
- Report (non-financial) at the end of the activity

Basic features:

- Cross border mobility
 - EU citizens anywhere
 - Non EU citizens to EU
- B.Sc., M.Sc., Ph.D., PostDocs, LLL
- Individual (316 persons) and group (186 persons, 11 events) activities

Arrangements for mobility in ENEN#

Budget 2,5 M€

>1000 people & >100 person years of career enhancement experience

Lump sum directly to the learner (in advance)

Web based application and evaluation

- 2 month rolling application and evaluation deadlines
- Process coordinated, evaluated and further developed by the **Mobility Committee**
- Rules & Criteria to be published in a Mobility Manual
- Reevaluation of the scheme in months 18 and 33 (rev. Mobility Manual)

Arrangements for mobility in ENEN#

Participation Criteria

- Cross-border mobility preferred (on-line case-by case).
- EU citizens anywhere; citizens of any country to EU.
- Bilateral exchanges to be based on reciprocity.
- Nuclear topics, including nucl engineering/safety, medical application, radiation protection, waste management, radio chemistry, nucl materials...

Arrangements for mobility in ENEN#

Evaluation Criteria

- Compliance with goals of the ENEN#
- Quality of the proposed activity [**Career enhancement**]
- Access to infrastructures is secured (directly, through OFFERR, etc)
- Priority to thos who request less than max financing

Arrangements for mobility in ENEN#

Table 3.11 - Indicative budget for mobility actions (total of 2 505 000 EUR)

Mobility action	Travel cost €	Subsistence €	Fee €	No. of days	No. of persons	Total €	No. of person-days	No. of person-years
High school pupils summer school 1 week	500	500	0	7	60	60 000	420	1,15
High school teachers summer school 1 week	500	500	0	7	30	30 000	210	0,58
High school teachers workshop	500	400	0	4	60	54 000	240	0,66
High school summer school national language	100	200	0	7	120	36 000	840	2,30
B.Sc. Summer school 1 week	500	500	0	7	100	100 000	700	1,92
B.Sc. Competition	500	500	0	7	40	40 000	280	0,77
B.Sc. internship 1 month	500	1 000	0	28	50	75 000	1 400	3,84
M.Sc. Competition	500	500	0	7	40	40 000	280	0,77
M.Sc. Internship 1 month	500	1 200	0	28	100	170 000	2 800	7,67
M.Sc. Internship/study exchange 3 months	500	3 600	0	84	50	205 000	4 200	11,51
M.Sc. Internship/study exchange 6 months	500	6 300	0	168	50	340 000	8 400	23,01
Ph D research 6 months	500	6 300	0	168	100	680 000	16 800	46,03
PostDoc research 6 months	500	6 300	0	168	20	136 000	3 360	9,21
Postdoc research 12 months	500	11 700	0	336	20	244 000	6 720	18,41
2 day training (BSc., MSc., PhD)	500	200	300	2	100	100 000	200	0,55
1 week training/conference (BSc., MSc., PhD)	500	500	500	7	130	195 000	910	2,49
Total					1 070	2 505 000	47 760	130,85

Linking mobility & access to infrastructures (OFFERR & ENEN#)

Basic principles:

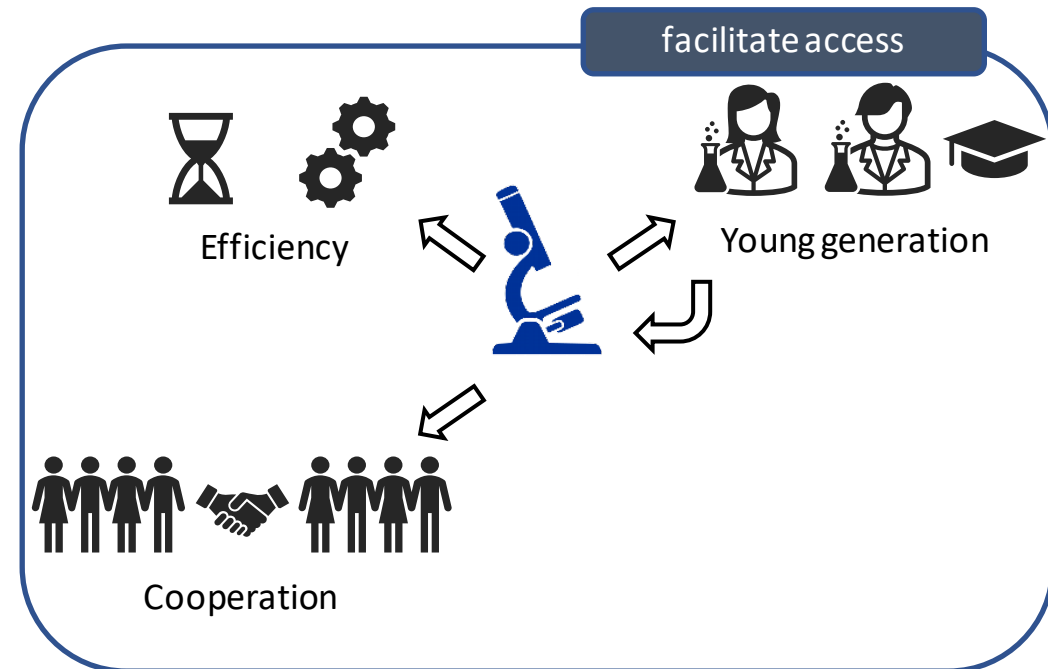
- Joint application
- Joint evaluation

Relevant partners participate in related WP in both projects

→ OFFERR WP 4: European & international interactions & training

→ Mobility Committee in ENEN#

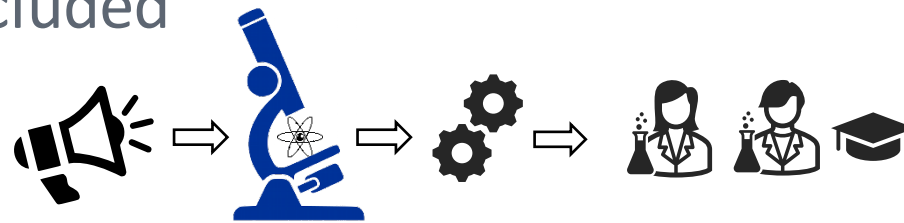
One of the main objective of OFFERR is to facilitate access to young generation



Summary

We are developing scheme supporting mobility (ENEN#) and access to research infrastructures (OFFERR):

- Individual projects as proposed by the candidates
- Group activities at the events of interest for communities
- Various nuclear disciplines included



Joint applications and evaluations are envisioned; to be developed.

The goal (ENEN#): >100 person years of experience for >1000 people

Contact us



www.snetp.eu



secretariat@snetp.eu



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