

Education 4.0

Today's main **challenges** in training young personnel **How to** preserve the expertise and train the new generations? **The practice of ENEN**

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European Nuclear Education Network



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European Nuclear Education Network

International non-profit association funded in 2003

Objective is the preservation and further development of expertise in the nuclear fields by higher Education & Training

Institutional membership: 50 universities, 12 Companies, 8 international members, 5 research centers.

Agreements with: IAEA, EC-JRC, ENS, WNU, I2EN, Fusenet









Education & Training projects

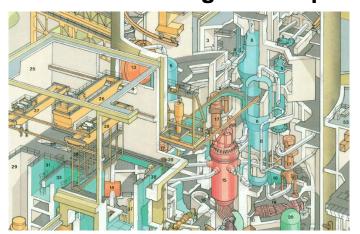
- ENEN PLUS Attract, develop, retain, sustain talent E&T Mobility Fund
- ANNETTE Coordination of European E&T, transfer of expertise
- NUSHARE Nuclear Safety Culture
- ENEN-RU II Russian Federation and European Union bilateral collaboration
- EUJEP-2 Japan and European Union exchange programme
- MEET CINCH RadioChemistry E&T
- CORONA II VVER technology E&T
- PETRUS III Waste Management and Geological Disposal E&T
- ELINDER Decommissioning E&T
- ENETRAP Radiation Protection E&T



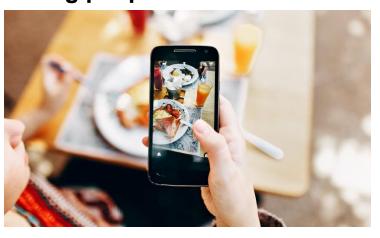
Challenges in Training Young personnel

Science, Technology, Engineering, Maths

Nuclear Knowledge is complex



Young people are "Millennials"



Always new technology trends





Challenges in Training Young personnel

"Human"

Young

STEM

Science, Technology, Engineering, Maths

Attract talent

Millennials

Experience oriented, socially «connected»

Retain talent

Collective

Training

Complex knowledge

Complex, difficult, critical for safety

Develop talent

Technology trends

3D, augmented reality, apps, etc

"Tech"



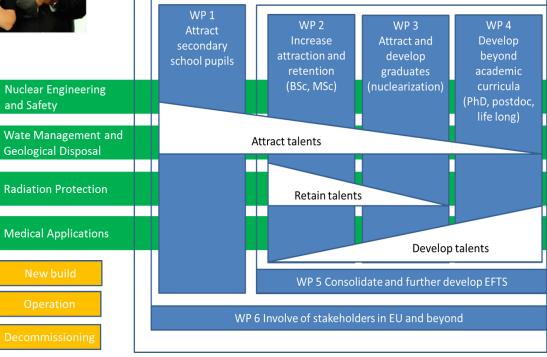
ENEN PLUS PROJECT

EUROPEAN NUCLEAR MOBILITY FUND OPENED ON 1 MARCH 2018!



Attract,
Retain,
Develop,
Involve,
Sustain TALENTS

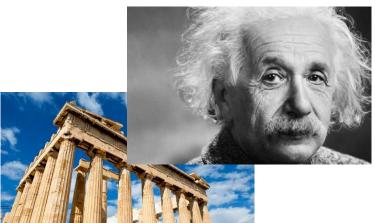
1,000,000€
in grants for students, researchers and trainees mobility



How to... overcome these challenges? preserve the expertise and train the new generations?



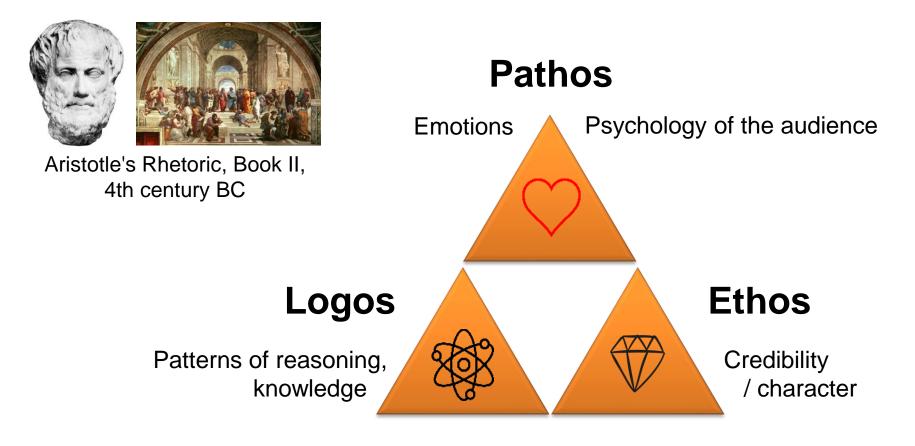






Learning is the persuasion of the student's intellect

Three 3 means of persuasion that an orator must rely on:



How to... overcome these challenges? ETHOS – Learning persuation

Credibility / character

Institution:

- Reputation of institution
- International collaboration

Digital Tool/System:

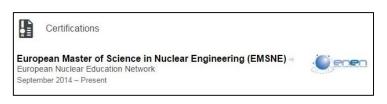
- faithful representation
- appropriate,
- accessible

ENEN PhD and EMSNE certification

Competitive and friendly



EMSNE certification





How to... overcome these challenges? LOGOS – Learning persuasion

Patterns of reasoning and knowledge

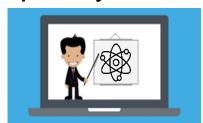
EMSNE Certification



- Quality at international level
- Common reference curricula and mutual recognition among ENEN members

Digital Tool/System:

- Well explained,
- In accordance with the complexity of the topic



ANNETTE project



How to... overcome these challenges? PATHOS – Learning persuasion

Emotions and psychology of the audience

Digital Tool/System:

- Positive always
- Inspiring (international, discovery, experiences...)
- Unconscient emotions (recognition, digital medal, peer pressure, competition)







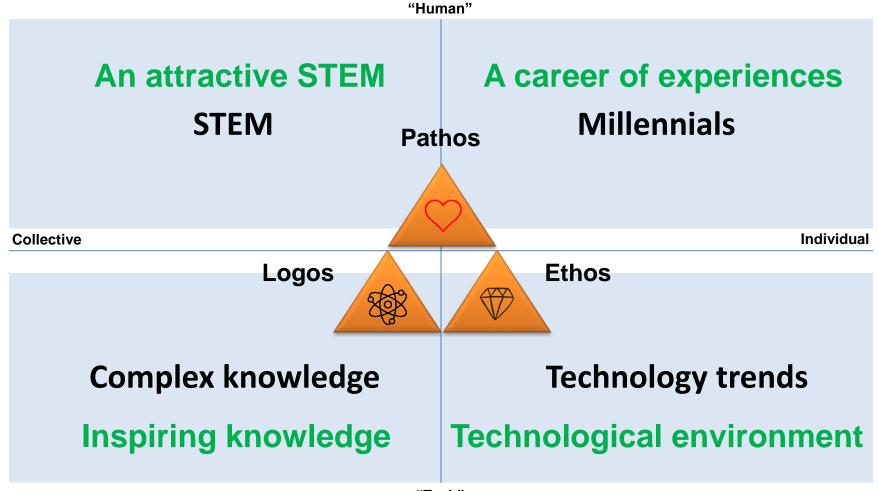








Challenges in Training Young personnel



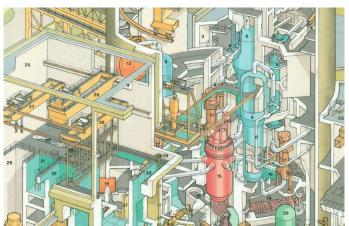
"Tech"



Nuclear =

An attractive STEM

Inspiring knowledge



A career of experiences



Technological environment





Thank you for your attention

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