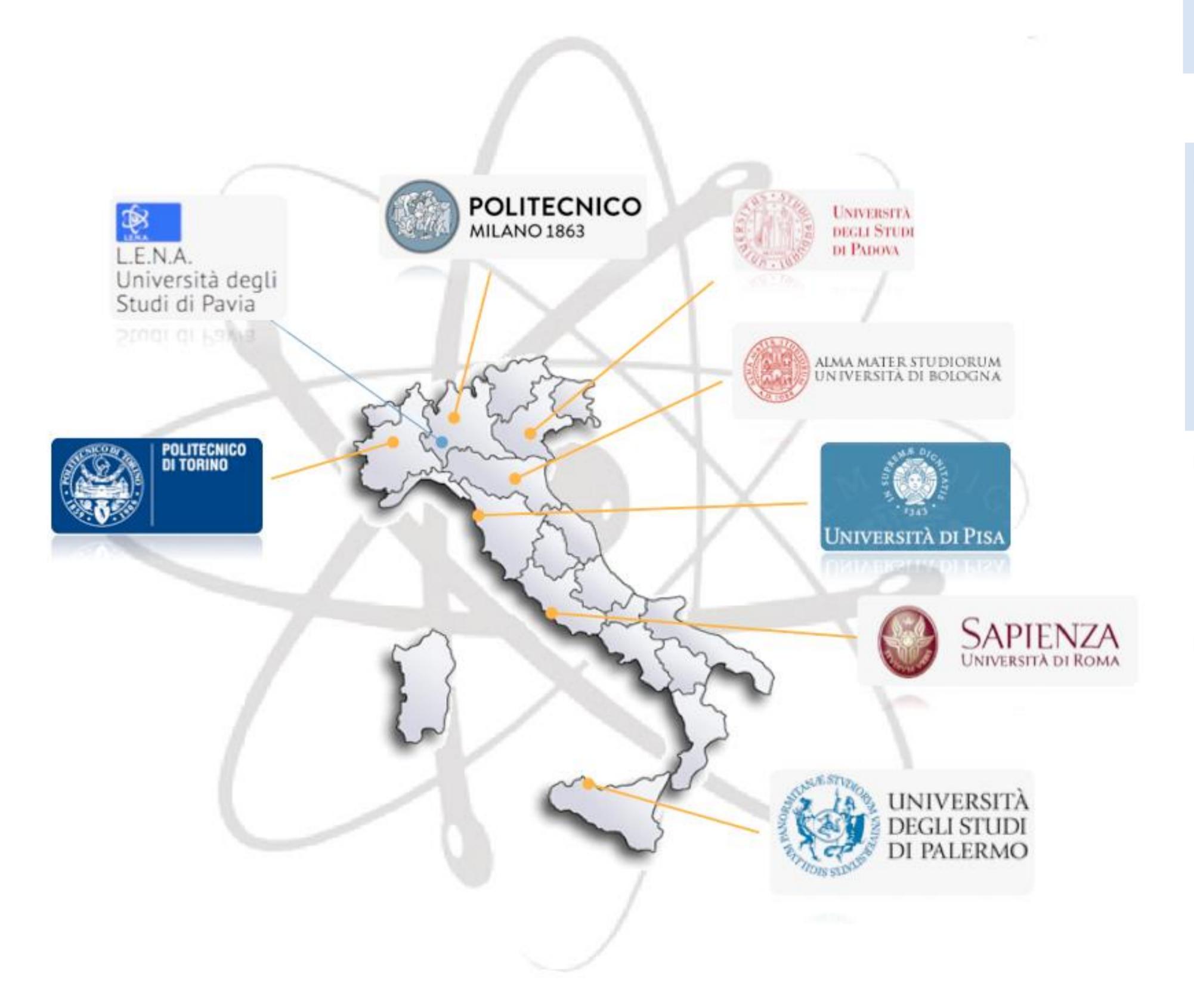


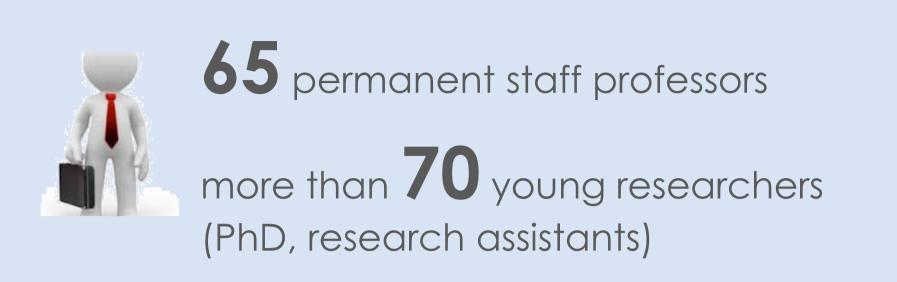


Education, Training and Research for Innovative Reactors and SMRs



CIRTEN — the italian nuclear universities



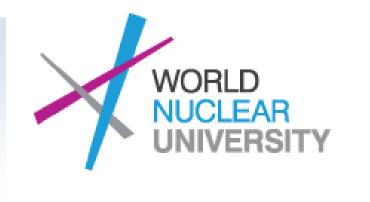


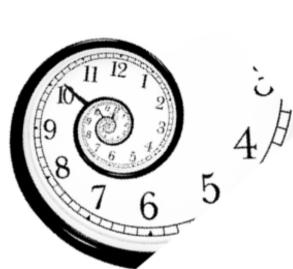


- CIRTEN is the Consortium of the Italian Universities involved in nuclear science and technology research activities, and where educational programmes (MSc, PhD) on nuclear engineering are offered to the young generations
- CIRTEN has been founded in 1994, joining the competences and the history of Universities active in the nuclear engineering area since the early '50s
- In the land of Enrico Fermi, researchers, professors and young students are working together to renovate and to transfer knowledge on nuclear technology and its applications



CIRTEN is a proud Founding Member of **ENEN** Association, the European Nuclear Education Network, and of the World Nuclear University







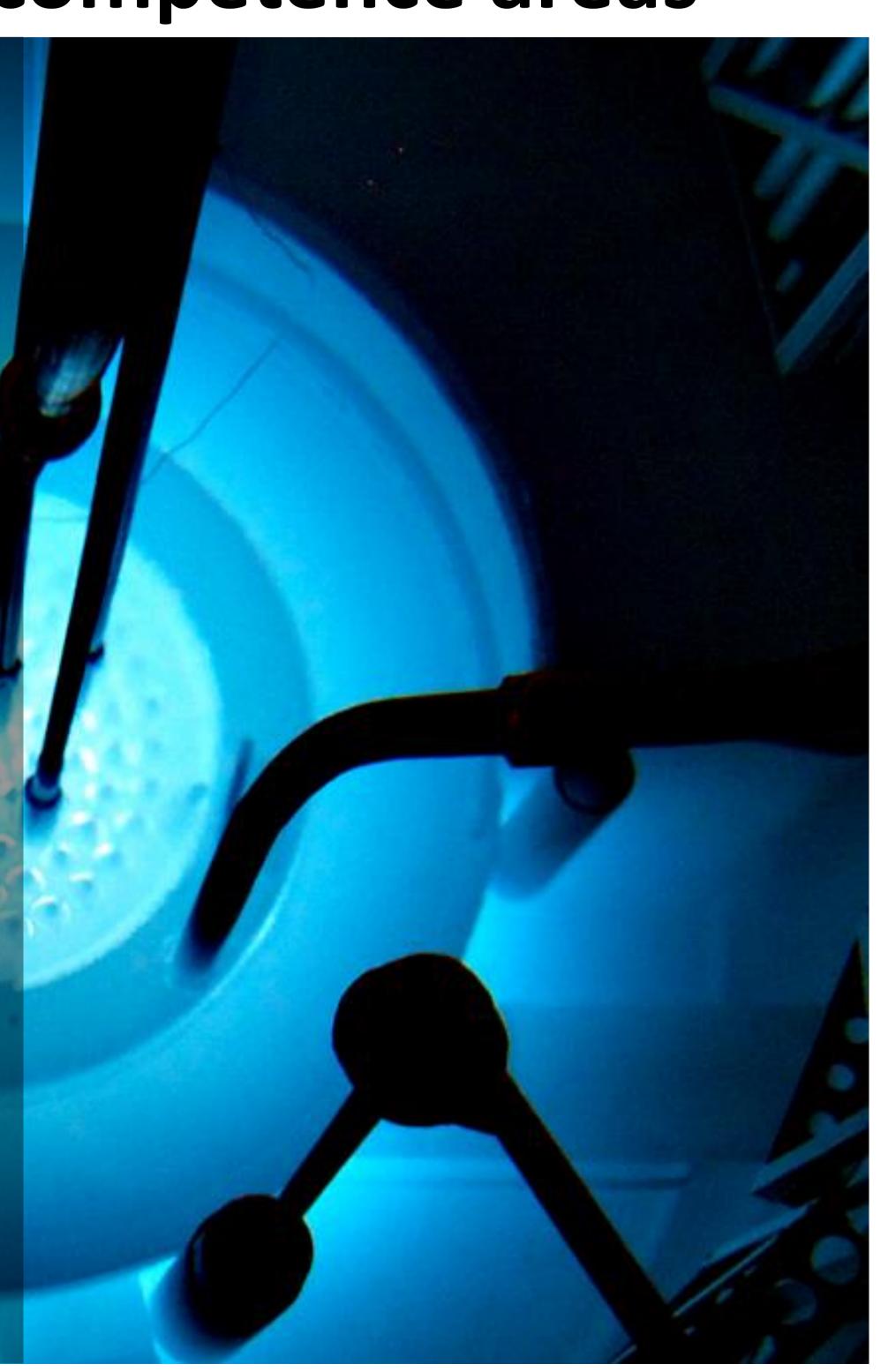


Education, Training and Research for Innovative Reactors and SMRs

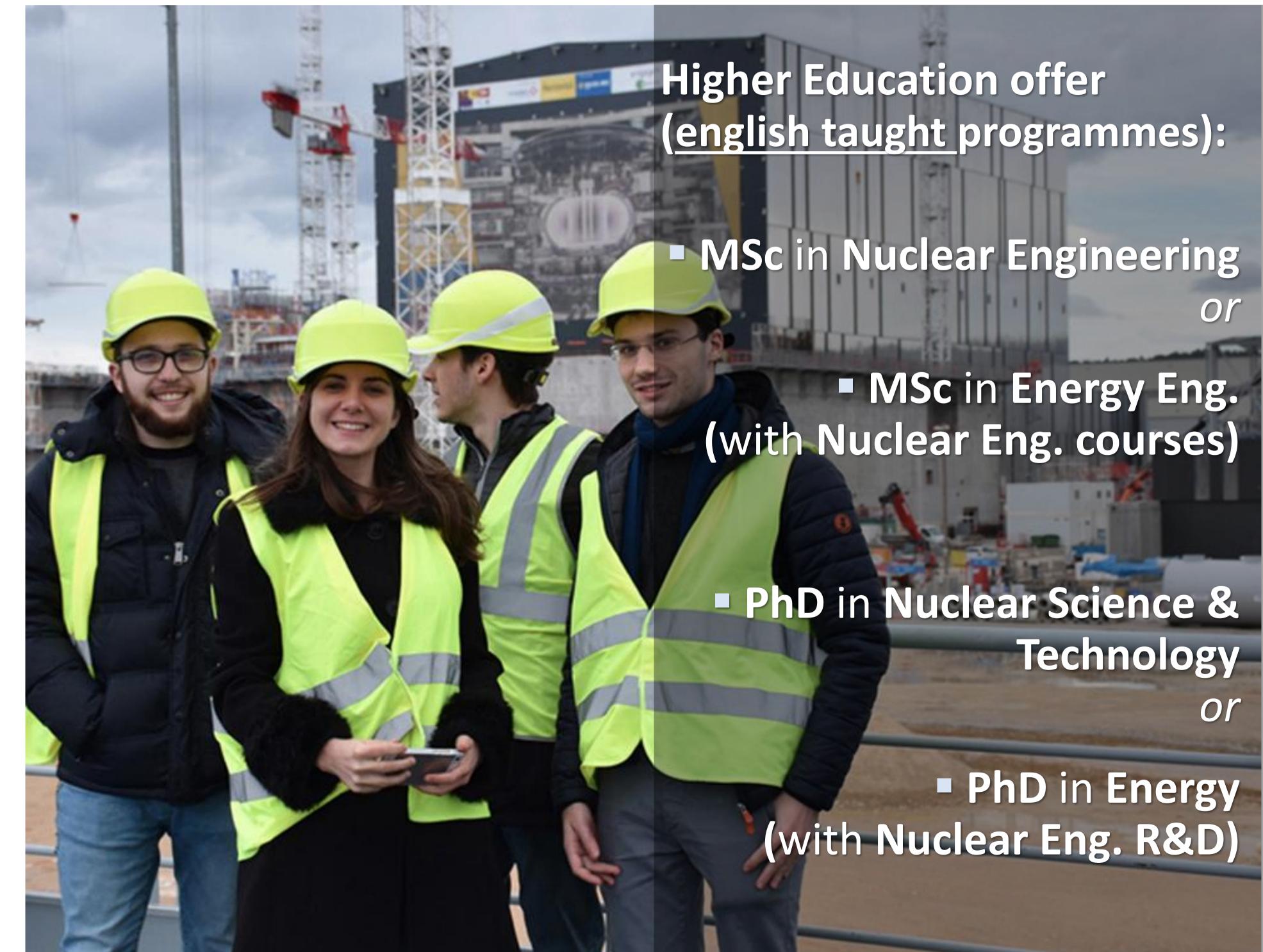


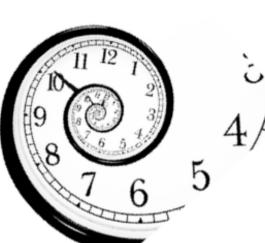
CIRTEN is active in international R&D projects, through its competence areas

- Nuclear safety
- Decommissioning, nuclear waste management and environmental remediation
- Innovation and technology development of nuclear fission (GenIII, GenIV, SMRs) and fusion reactors
- Nuclear fuel and fuel cycle
- Radiation protection
- Radiation measurement and instrumentation
- Medical and industrial applications of ionising radiations



Nuclear Engineering educational activities are carried out in all CIRTEN Universities







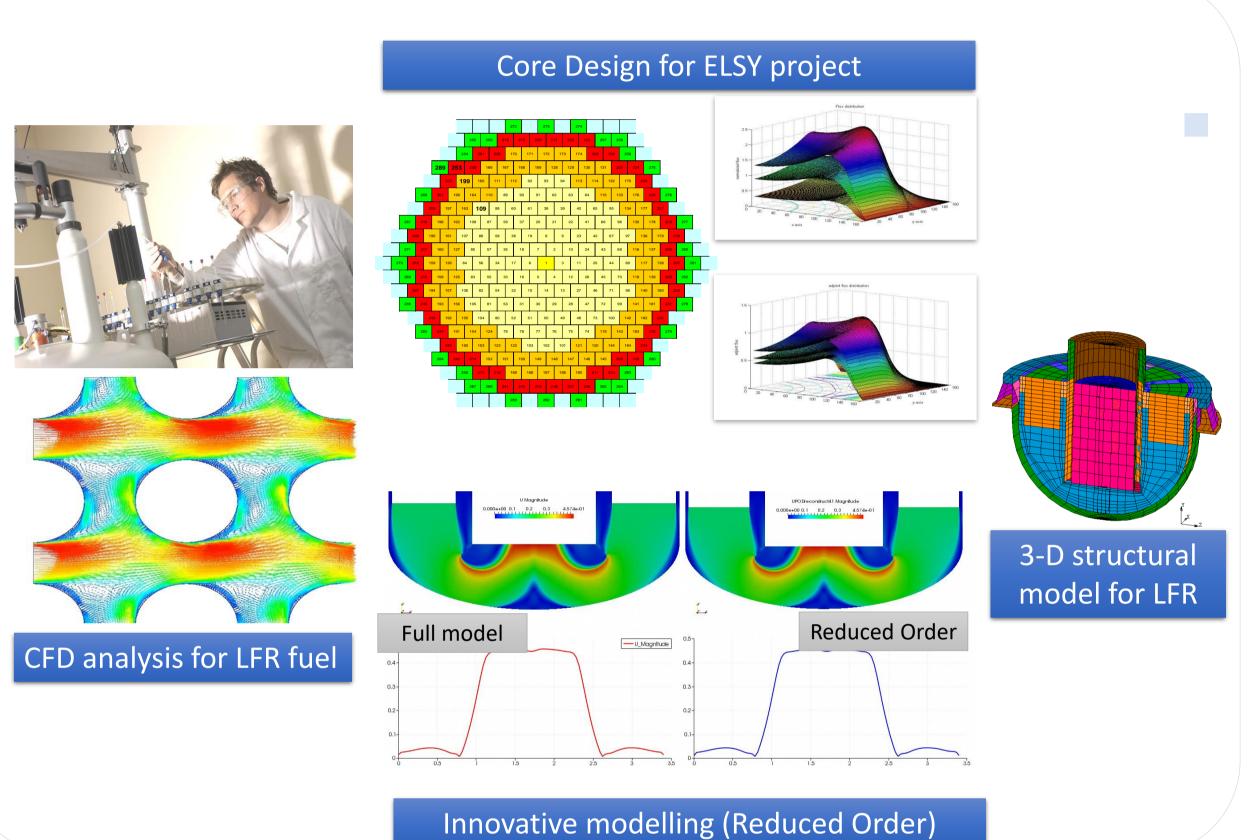


Education, Training and Research for Innovative Reactors and SMRs



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CIRTEN and new generation reactors



R&D activities for **Lead**cooled Fast Reactors

- Partner of **FALCON** consortium for the development of **ALFRED** reactor
- Participation to Euratom projects and GIF-GenIV activities, experience on Accelerator Driven Systems

R&D activities for **Small Modular Reactors**

- Key partner of the IRIS project
- Developer of SMR (integral PWR) concepts
- Research activities performed for EU SMR concepts (FlexBlue, F-SMR, ELSMOR project)
- Collaborating with IAEA in SMR initiatives

CIRTEN education, training and research

- MSc and PhD students and young Post-Doc researchers, from Italy, Europe and other Continents, involved in modelling and experimental R&D activities
- **International Summer** Schools organised and hosted in CIRTEN Universities
- Innovative educational tools (e.g. Massive On-Line Open Courses-MOOC) and on-site visits

