



Joint ICTP-IAEA Workshop on Physics and Technology of
Innovative Nuclear Energy Systems, Trieste,
12-16 December 2022

Group Activity 2: Innovations in Nuclear Energy Sector in Meeting Sustainable Energy Development Challenges

COMPETENCY AREAS

Group 1 - Energy planning and strategies for sustainable development

Group 2 - Planning for nuclear energy sustainability

Group 3 - Innovations in nuclear energy sector in meeting sustainable energy development challenges

Group 4 – Nuclear energy systems modelling and analysis

Group 5 - The methodology for assessing sustainability of nuclear energy systems (the INPRO Methodology)

Core modules

Module 1
Energy planning and strategies for sustainable development

Module 2
Planning for Nuclear Energy Sustainability

Module 3
Innovations in Nuclear Energy Sector in Meeting Sustainable Energy Development Challenges



Advanced modules

Module 4
Introduction to the INPRO methodology for assessing sustainability of nuclear energy systems

Module 5
Methods and tools for planning sustainable energy development

Module 6
Methods and tools for modelling and analysis of nuclear energy systems

Research project module

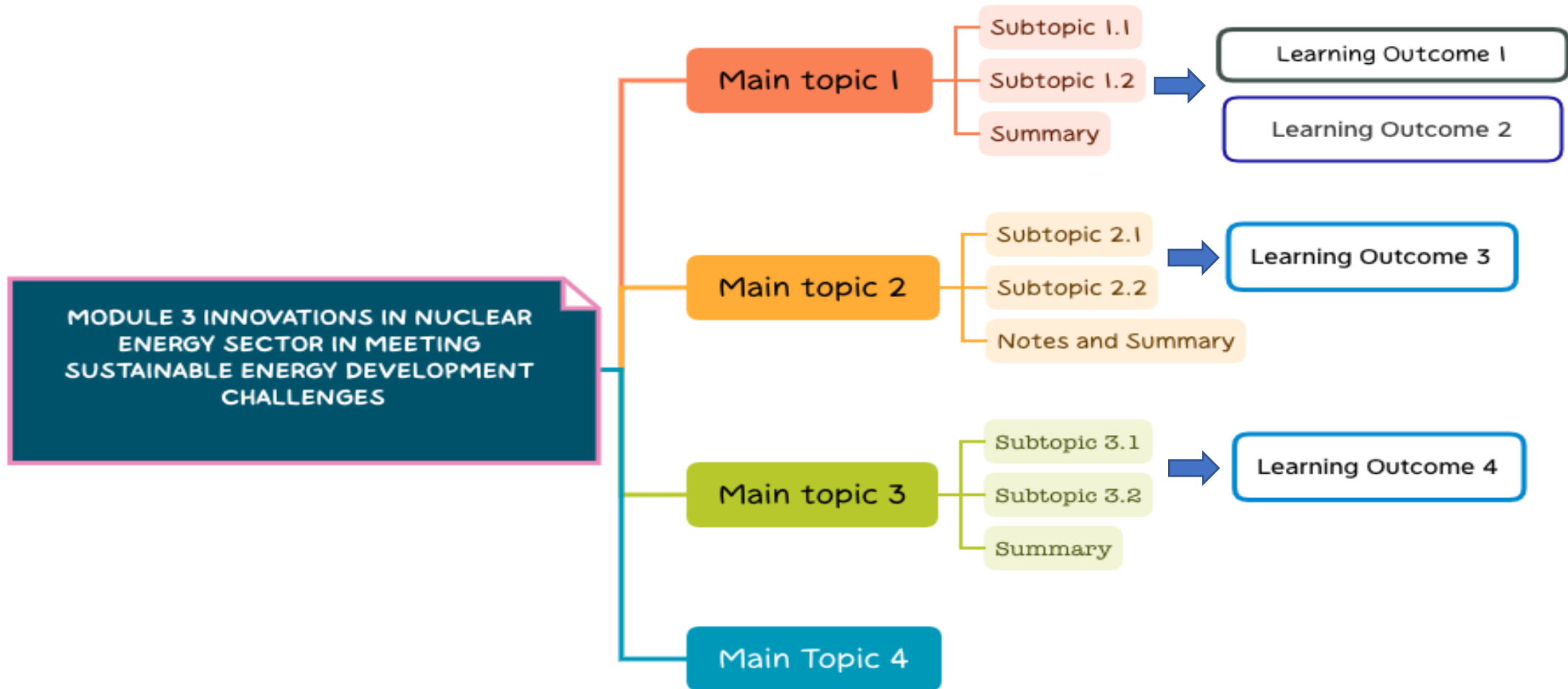
Module 7
Research projects on planning and assessment of energy and nuclear energy systems.

Task for the Group Activity 2

For Module 2 Innovations in Nuclear Energy Sector in Meeting Sustainable Energy Development Challenges, develop:

- **Learning objectives**
- **Map of module topics**
- **Prerequisites**
- **Learning outcomes**

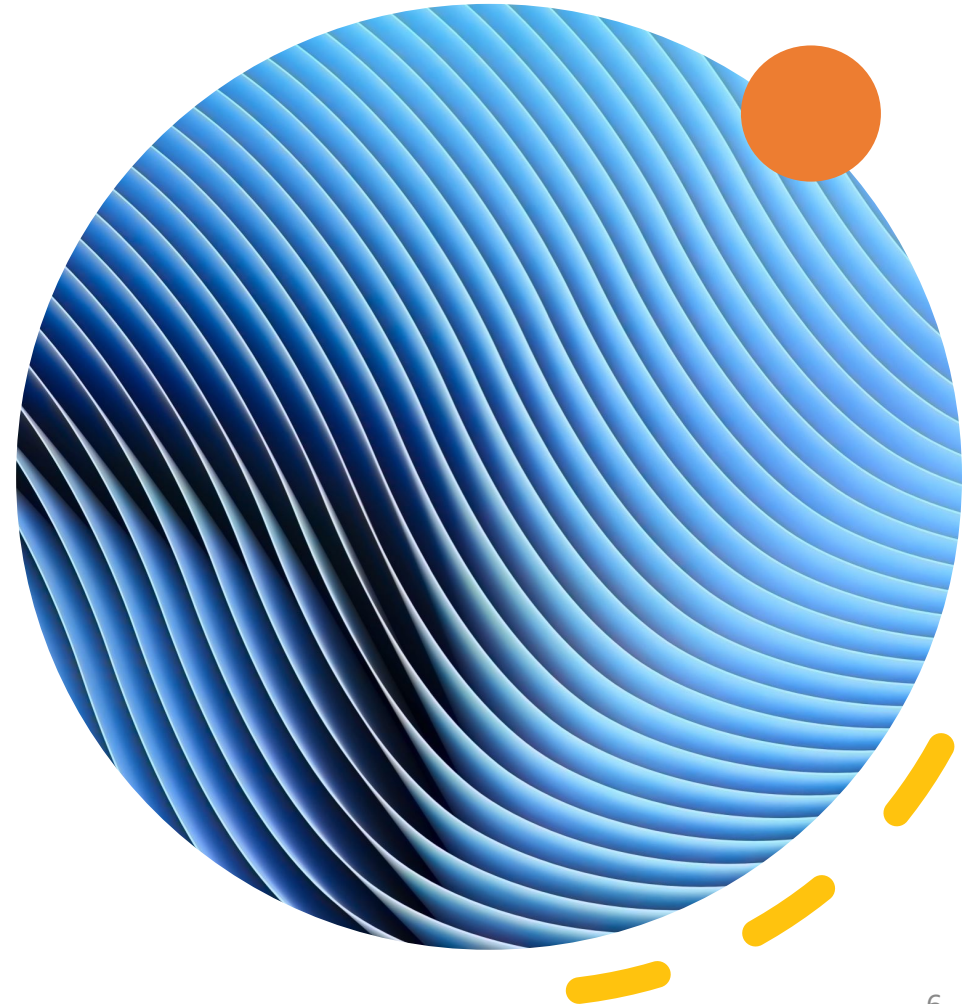
Module 3. Innovations in Nuclear Energy Sector in Meeting Sustainable Energy Development Challenges – Task for activity



Module 3. Innovations in Nuclear Energy Sector in Meeting Sustainable Energy Development Challenges – Learning Objectives

The main objective:

to describe the needs for technological and institutional innovations and improvements in nuclear energy systems with the goal to achieve sustainable development and deployment.





Thank you for your
attention!