

# European Industrial Alliance on SMRs: where do we come from, where do we go

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# Who we are and what we do

We act as the voice of the European nuclear industry in energy policy discussions with EU Institutions and other key stakeholders

# Membership

The membership of nucleareurope is made up of 15 national nuclear associations and several corporate members



# Corporate Members



# What does nuclear contribute to the EU's economy?

**100**

Nuclear reactors in  
operation in the EU



**1** million jobs

**€ 100**

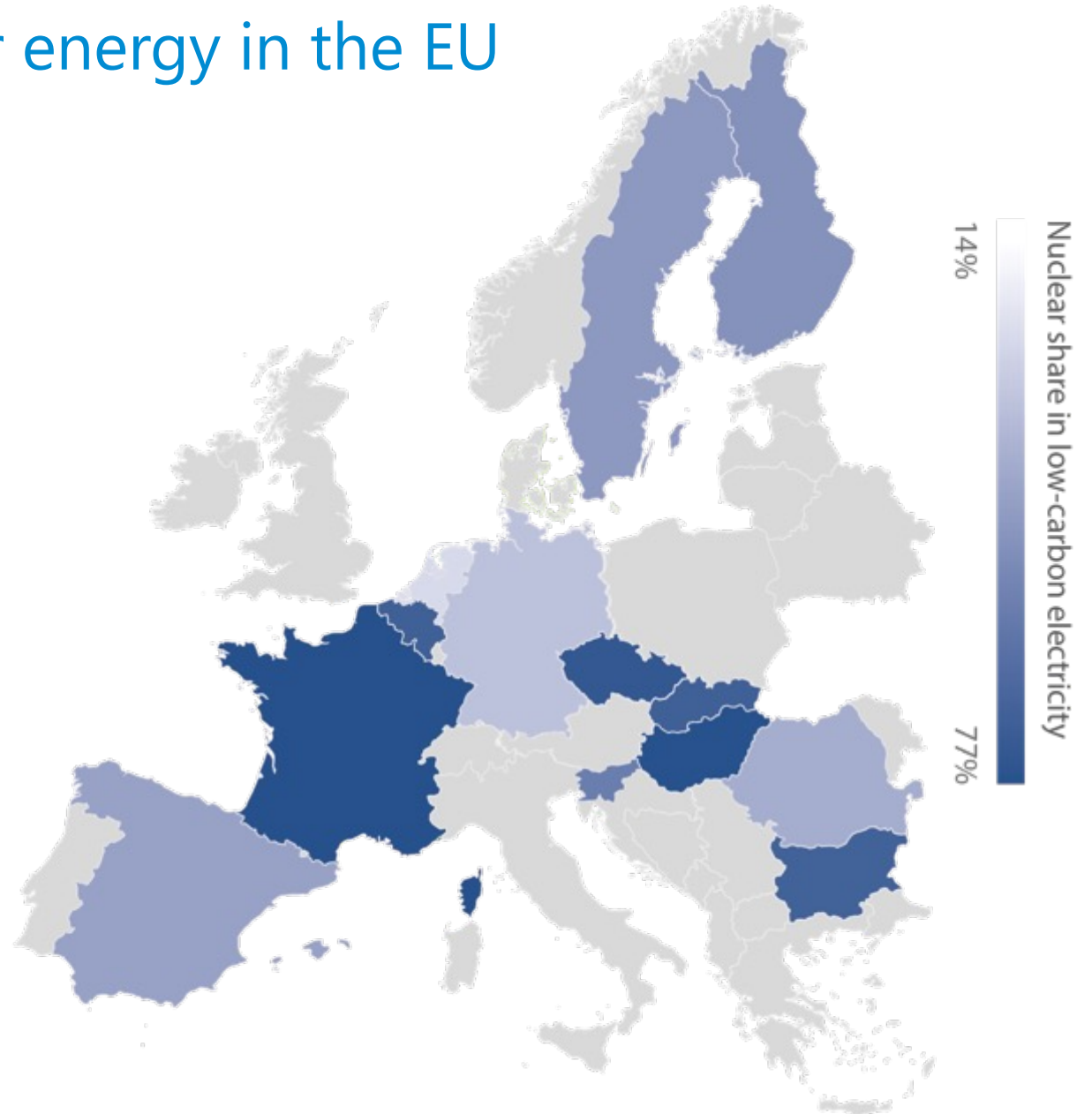
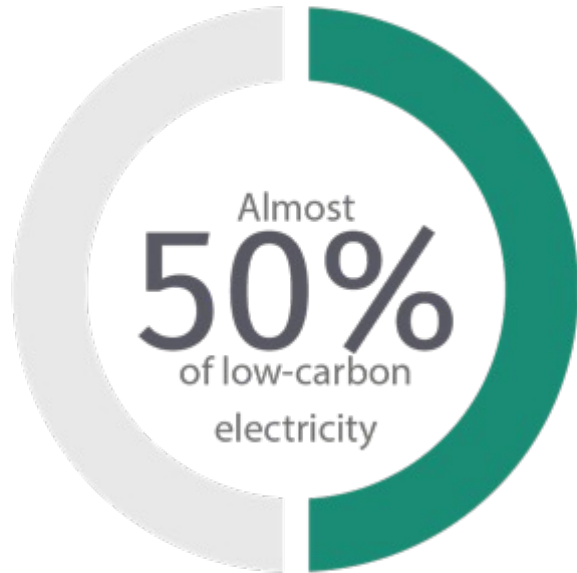
billion/year



**25%**  
of the electricity production





# Nuclear energy in the EU



© nucleareurope - Source: Eurostat 2021

# Political Challenges in the EU

 Nuclear supporters  
 Nuclear opponents



Many EU states have announced their plans to invest in or continue using nuclear energy:

- Bulgaria
- Czech Republic
- Estonia
- Finland
- France
- Hungary
- The Netherlands
- Poland
- Romania
- Slovakia
- Slovenia
- Sweden

Many countries do not oppose nor support (ie Italy), which is a good sign...



# European Industrial Alliance on **SMALL MODULAR REACTORS**

## General Presentation





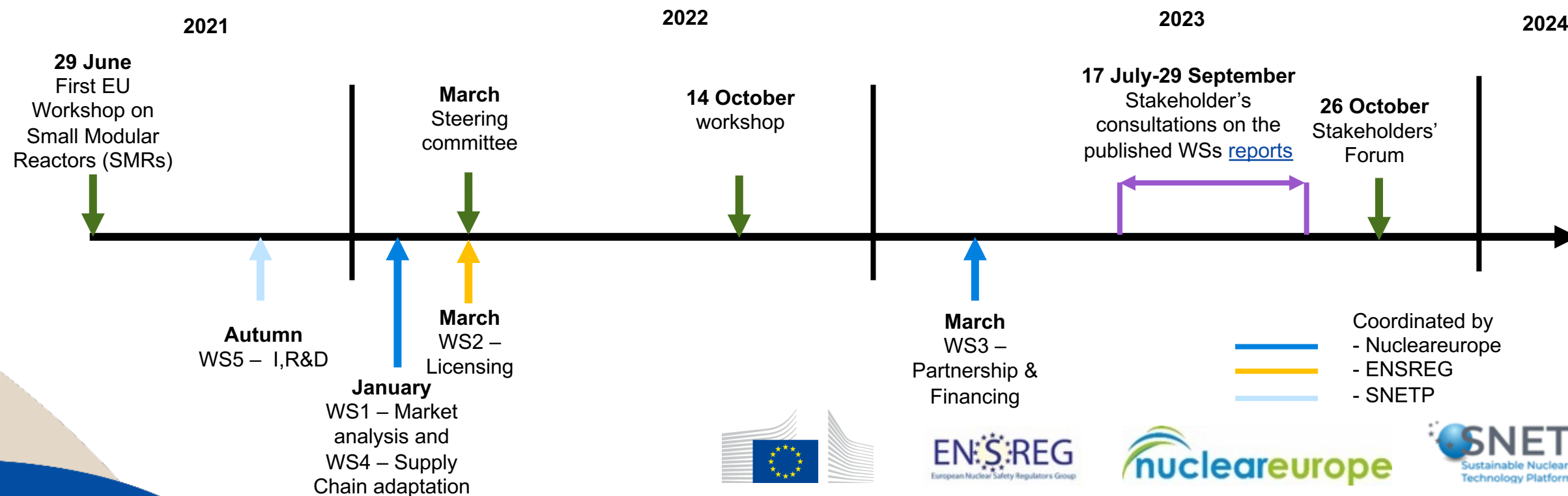
# European SMR pre-Partnership



## General objectives

**Identify enabling conditions and constraints, including financial ones,** towards safe design, construction and operation of SMRs in Europe in the next decade and beyond in compliance with the EU legislative framework in general and to the Euratom legislative framework in particular.

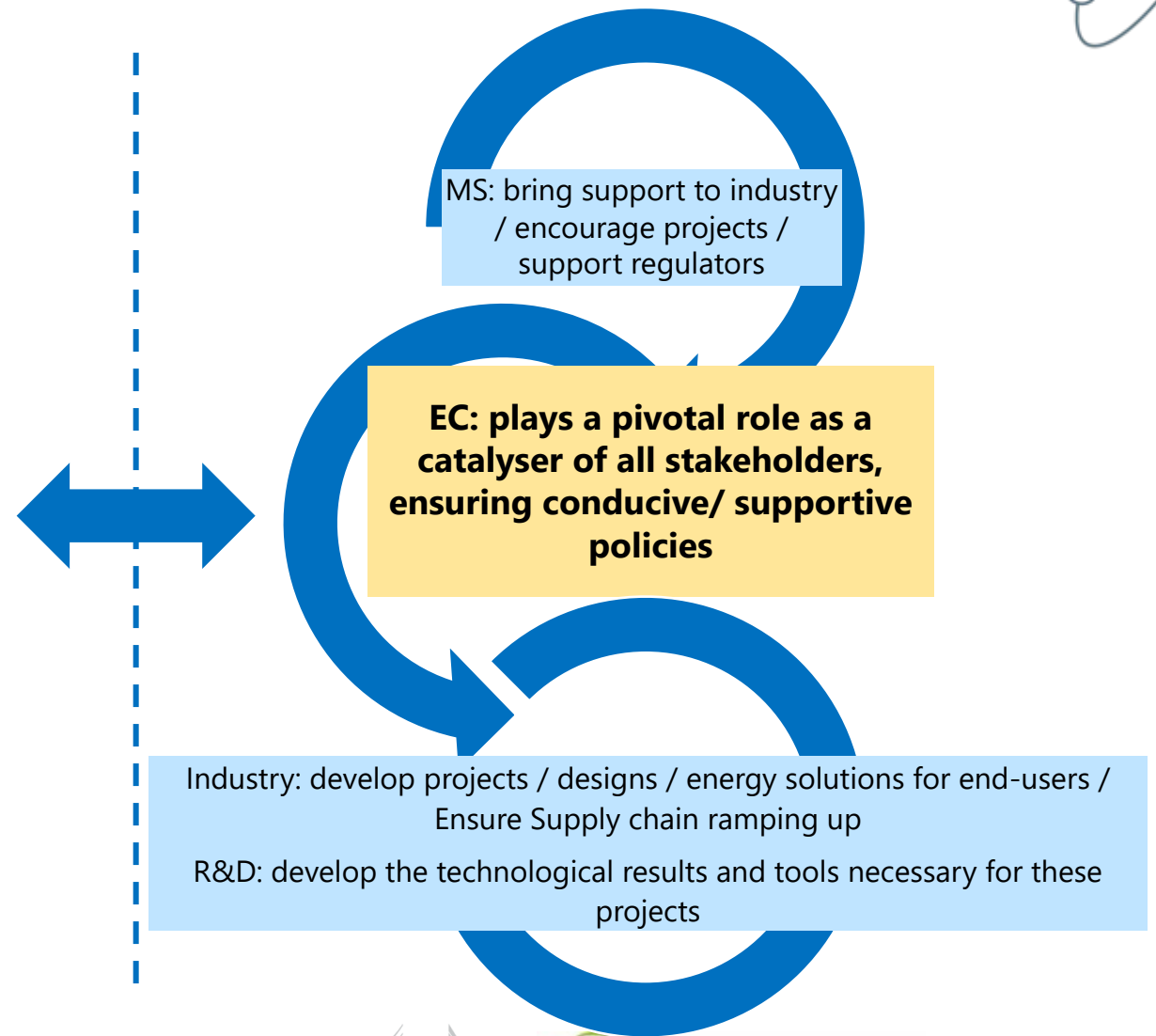
## Timeline



# Outcome of the pre-Partnership European Industrial Alliance on SMRs: what for?



-  Accelerate SMRs' deployment (incl. for and with intensive end-users)
-  Ensure collaboration on SMR licensing across regulators
-  Bring together all stakeholders with a conducive framework @EU & national level
-  Ensure EU supply chain readiness (skills, capability & capacity)
-  Ensure R&D development and cooperation and prepare for the future with innovation



## Industrial Alliance Main Objective

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The main objective of the European Industrial Alliance on SMRs is to **facilitate and accelerate the development, demonstration, and deployment of the first SMRs projects in Europe in the early 2030s**, by assisting emerging SMRs projects to reach the demonstration and deployment phase.



# European Industrial Alliance structure



## Technical Working Groups

- Groups for policy reflection and action in important aspects for which further work is needed (project development, project finance, supply chain, financing, safety research, public engagement, waste management, etc.) or not yet touched upon.
- Will be nourished by projects' feedback experience and will disseminate best practices across projects
- Will directly interact with EU & National decision-makers.

## Project-based Working Groups

- Will be assisted under the SMR Alliance
- Will gather interested stakeholders through specific agreements.
- Depending on project nature & objectives, they could fall under different categories (IPCEIs, PPP, SRIA, etc,)
- Will run under strict commercial protection / non-disclosure agreements



# Specific Objectives



1. Facilitate and accelerate **collaborative development** and deployment of SMRs in the European market and beyond.

2. Strengthen the enabling conditions for SMR development by improving the **European nuclear supply chain**.

3. Provide **feedback on EU policies** to uphold high safety and environmental standards for SMR development.

4. Provide guidance on policies to raise **public awareness** about SMRs and initiate an **inclusive debate**.

5. Identify and prioritise future **workforce needs**, building on existing training programs.

6. Foster **nuclear research**, focusing on LW-SMRs and on innovative aspects of AMRs.

7. Promote **collaboration with international partners** and expand EU potential to export SMR technologies globally.





## Working Methods

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The Alliance will **provide a framework for coordinating activities, preparing analytical studies, sharing best practices and developing and conducting joint actions aimed at fostering the deployment of SMRs in Europe.**

It will promote **collaborative actions between SMR project promoters**, public and private entities and associations, Member States, regions, social partners, regulators, research and technology organisations, education and training institutions, investors, civil society and NGOs.

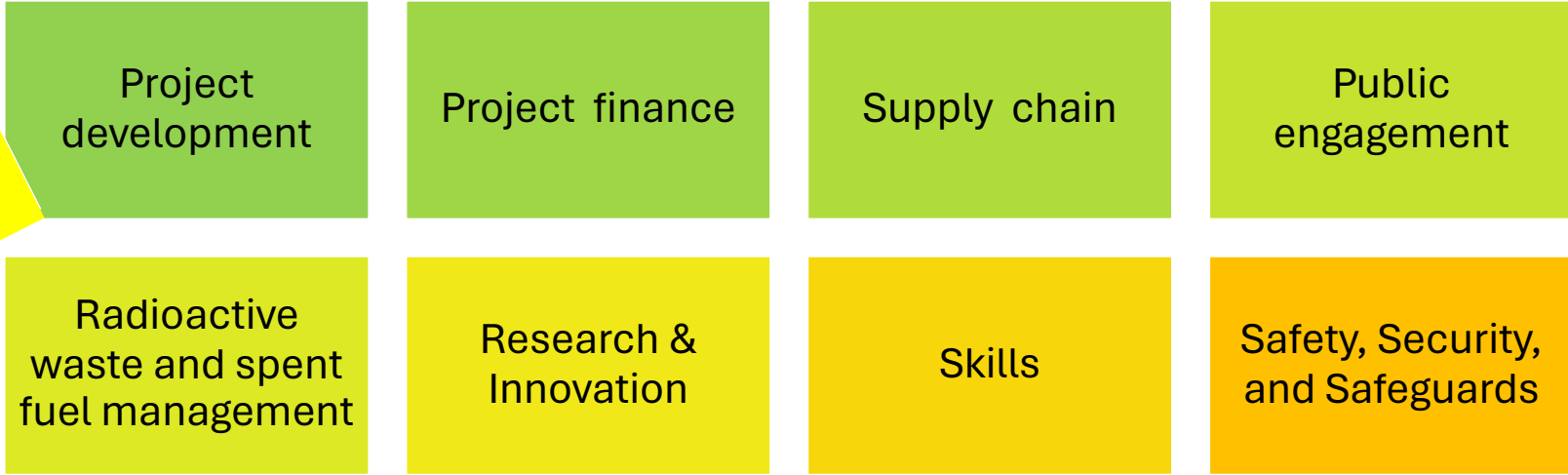




# Working Methods – Technical Working Groups



**INDICATIVE LIST**



- Technical Working Groups assigned tasks by the Governing Board.
- Stakeholder collaboration: developers, vendors, utilities, research institutes, financial institutions, supply chain representatives, training centres, and civil society.
- EC could provide technical support, including research on safety, security and safeguards for SMRs.
- Working Groups may meet multiple times a year.
- Administrative support provided by an entity designated by the industry in agreement with the EC.



# Tasks



The Alliance will elaborate a **Strategic Action Plan by Q1 2025** to deliver on the following tasks:

**Task 1:** The Alliance will **facilitate interactions** between vendors, project developers, suppliers, financial institutions, and investors **to explore investment possibilities and develop new cost-sharing financial models.**

**Task 2:** The Alliance will develop by **Q4 2024 technology roadmaps**

**Task 3:** The Alliance will promote **connections with potential end-users**

**Task 4:** The Alliance will **map and regularly assess the performance and completeness of the European supply chain**

**Task 5:** The Alliance will **map the availability of financial support, attract private investment, and facilitate the dialogue and matchmaking between producers and investors**



# Tasks



The Alliance will elaborate a **Strategic Action Plan by Q1 2025** to deliver on the following tasks:

**Task 6:** The Alliance will **identify and prioritise future needs for research, innovation, qualification, demonstration, and skills development** in cooperation with the SNETP to be addressed in the next European (including Euratom) and national R&D&I programmes

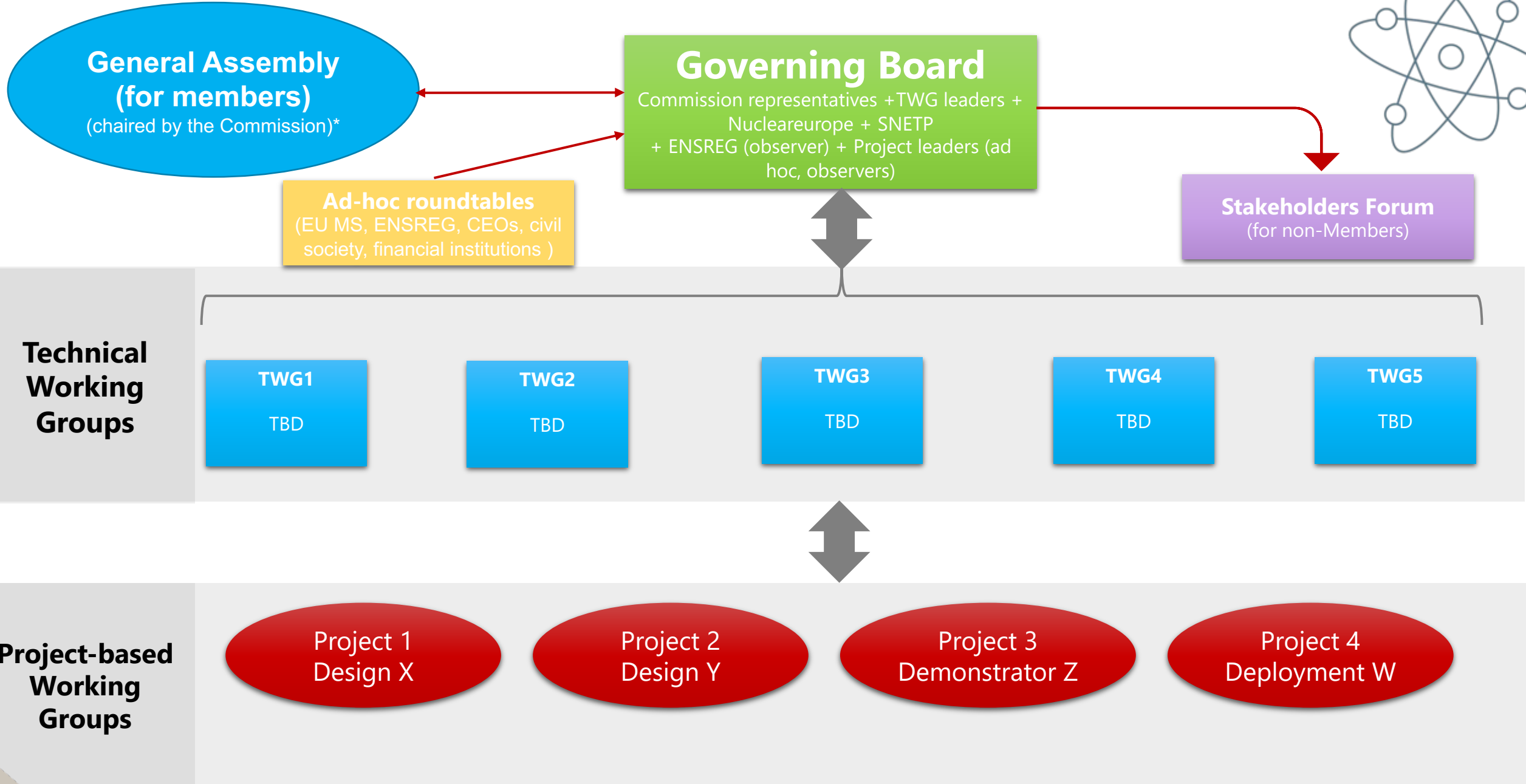
**Task 7:** The Alliance will **explore the skills and training needs for the SMR value-chain and suggest solutions to strengthen education, training, and skills development for a competent workforce.**

**Task 8:** The Alliance will **strengthen exchanges and contacts of project promoters with the European Nuclear Safety Regulators Group (ENSREG) and national regulatory authorities**

**Task 9:** The Alliance will facilitate cooperation between stakeholders, regarding standardisation issues related to design variability, supply chain availability, standardised quality control methods, verification and validation, thus facilitating the circulation of goods amongst Member States.

**Task 10:** The Alliance will also **engage in a dialogue with social partners, stakeholders, civil society organisations, NGOs** and citizens about SMRs and the costs risks and benefits of their deployment





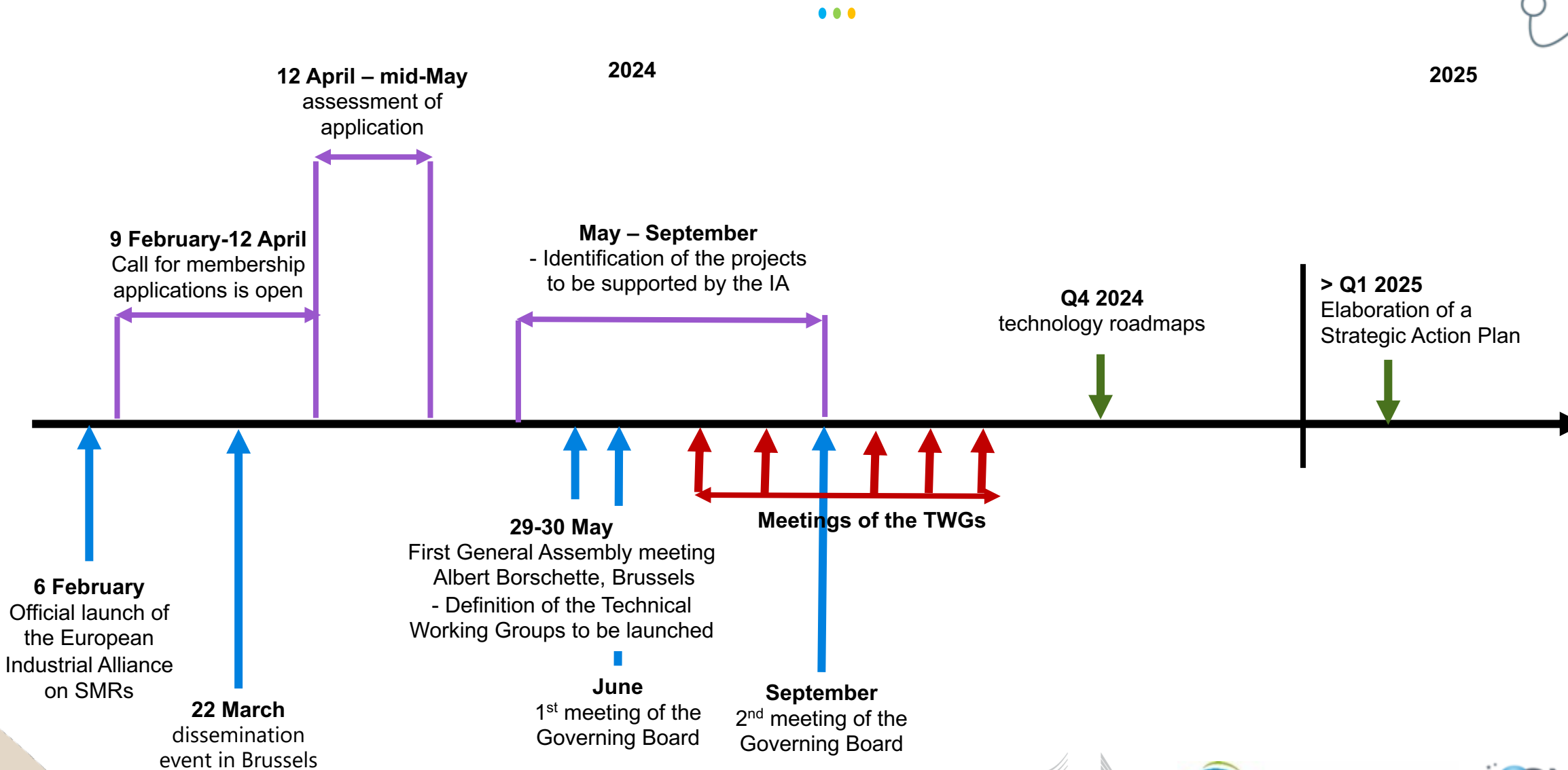
\*: The three Commissioners for Energy, for Internal Market, and for Innovation, Research, Culture, Education and Youth will co-chair the General Assembly meetings.







# Indicative timeline



## Working Methods

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# European Industrial Alliance on SMRs



- [dissemination event](#) of 22 March 2024 (hybrid mode) presented the scope, objectives and activities of the Alliance
  - [Summary of key points from presentations and discussion](#)
  - Link to the recording of the event and presentations on this [page](#)
- EC published a [video](#) on Nuclear power and SMRs in the EU
- The call for members to the [Alliance](#) was open until 12 April
  - More than **300** applications received
  - Assessment of the applications until mid-May
- 1<sup>st</sup> [General Assembly](#) meeting on 29-30 May (hybrid mode)





# Thank you!

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