SNETP
Sustainable Nuclear Energy Technology Platform

SNETP Strategy

Bernard Salha, SNETP President

2 February 2021

SNETP in a nutshell

- SNETP was set up in 2007 under the auspices of the European Commission with the goal to **support technological development for enhancing safe and competitive nuclear fission in a climate-neutral and sustainable energy mix**.
- In line with the objectives of the SET-Plan and the European Green Deal, SNETP aims to contribute to:
  - Lowering European greenhouse gas emissions
  - Assuring security of energy supply for Europe
  - Stabilizing electricity prices in Europe
- The association gathers various types of stakeholders: industry, research centers, safety organisations, universities, non-governmental organisations, SMEs, etc. based on the successful implementation of:
  - ESNII since 2010
  - NC2I since 20 11
  - NUGENIA association since 2012

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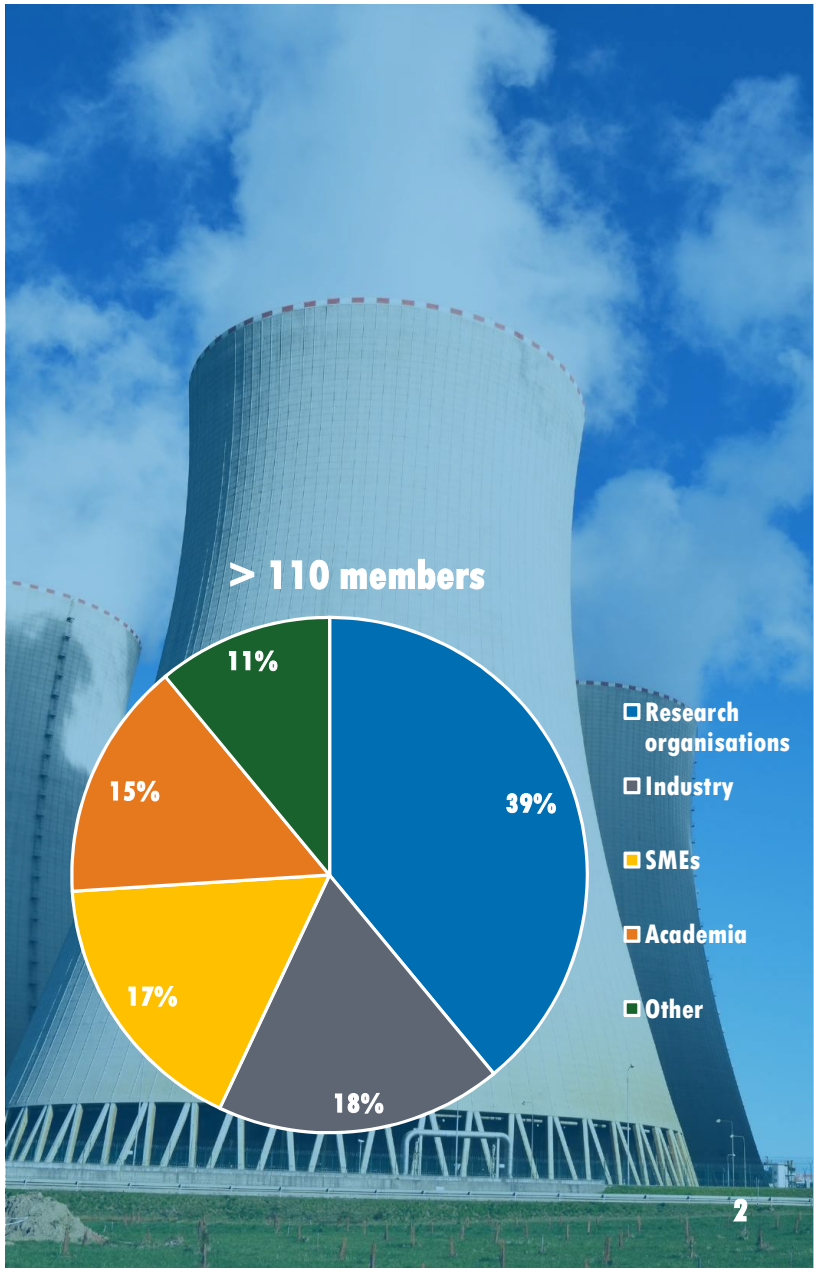

SNETP added value

- **SNETP is the only European wide association dedicated to collaborative nuclear research.**
  - All major European R&D organisations involved in nuclear are members of the association.
  - Various events are organised and online tools are deployed to facilitate collaboration of the community on new projects proposals. Since its creation in 2007, SNETP has supported discussions on approximately 300 project ideas.
- **The specific European Technology & Innovation Platform (ETIP) status provides an important visibility to SNETP and its members**, with privileged access to relevant high-level managers within EU institutions, international organisations, and member states.
- **SNETP and its members contribute to the shaping of European energy policies**, by exchanging with peers on research priority topics, by producing reference documents (e.g. SRIA) on the state of R&D&I in Europe, by publishing position papers, etc.

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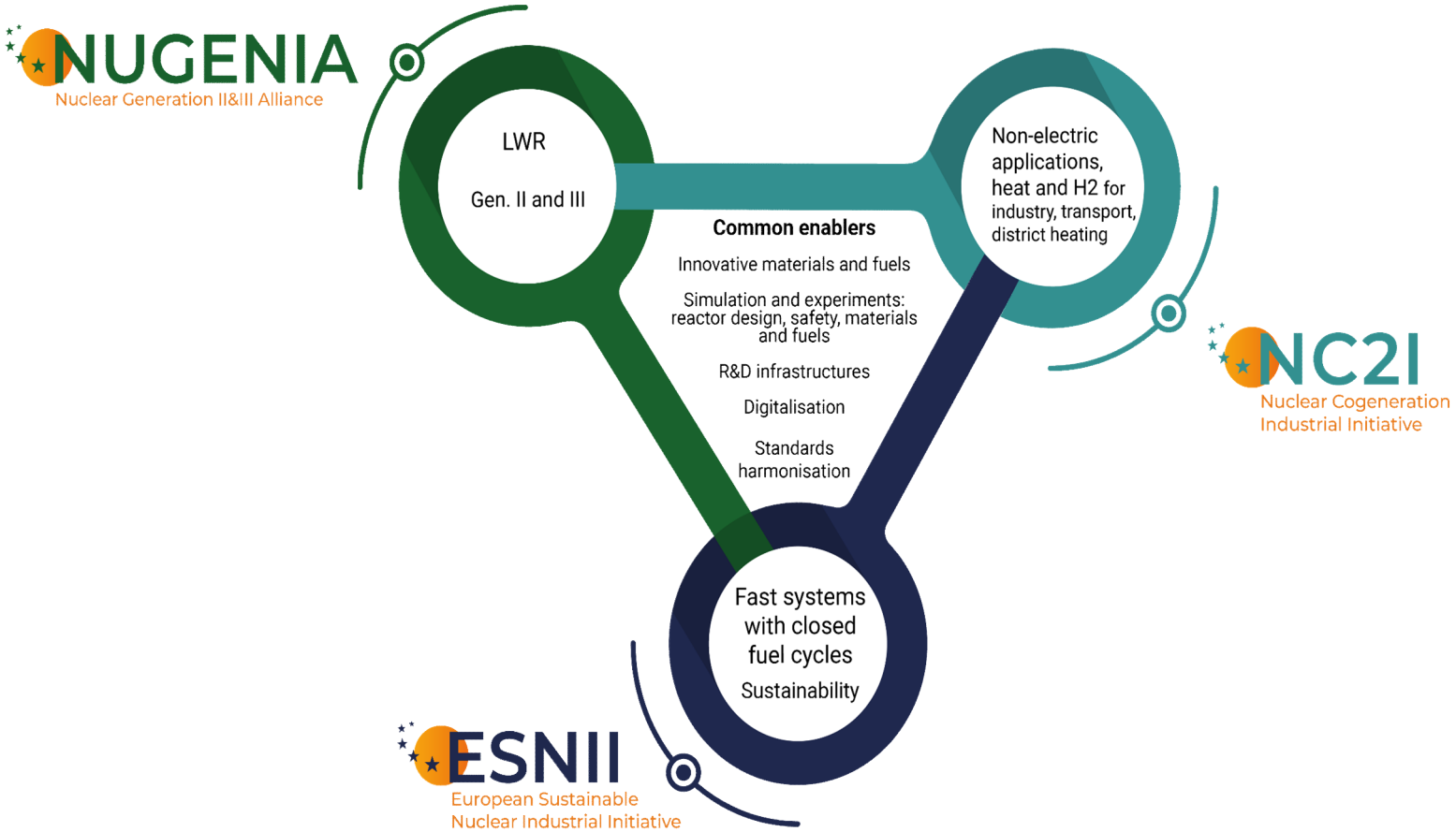

Each pillar has defined its own working rules (Charters) endorsed by the Governing Board, January 14th, 2021.

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SNETP members (105 full members)

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Invitation to join is permanently open

SNETP Objectives

Promoting Scientific Excellence

- Agree on, implement and promote common R&D&I priorities within the SNETP community representing the three pillars and strenghten EU expertise and excellence

Boosting Innovation

- Facilitate industrial-driven and intersectoral innovation (digital, robotics, materials, etc.) in nuclear for current and new applications (non-power, hydrogen, etc.)

Representing nuclear fission R&D in European Affairs

- Promote SNETP expertise and research priorities towards European institutions

Strenghtening International Relations

- Promote SNETP expertise and research priorities towards international nuclear institutions (IAEA, OECD/NEA, GIF, etc.)

Providing solutions to Industry

- Foster industrial-driven research addressing the needs of SNETP industrial members in particular regarding safety, supply chain, licensing and cost-competitiveness

Cooperating closely with Regulators

- Reinforce cooperation between SNETP and the different regulatory and standardization bodies.

Supporting R&D infrastructures

- Support projects and initiatives aiming at maintaining/refurbishing/building the needed infrastructure to perform R&D&I in the nuclear field.

Sharing Experience with European Associations

- Foster & coordinate interactions with European associations in the field of nuclear, and any other sector with potential mutual interests with nuclear.

Engaging with Civil Society

- Engage with civil society and non-nuclear stakeholders to rationalize the debate on the European energy mix and enhance the acceptability of nuclear.

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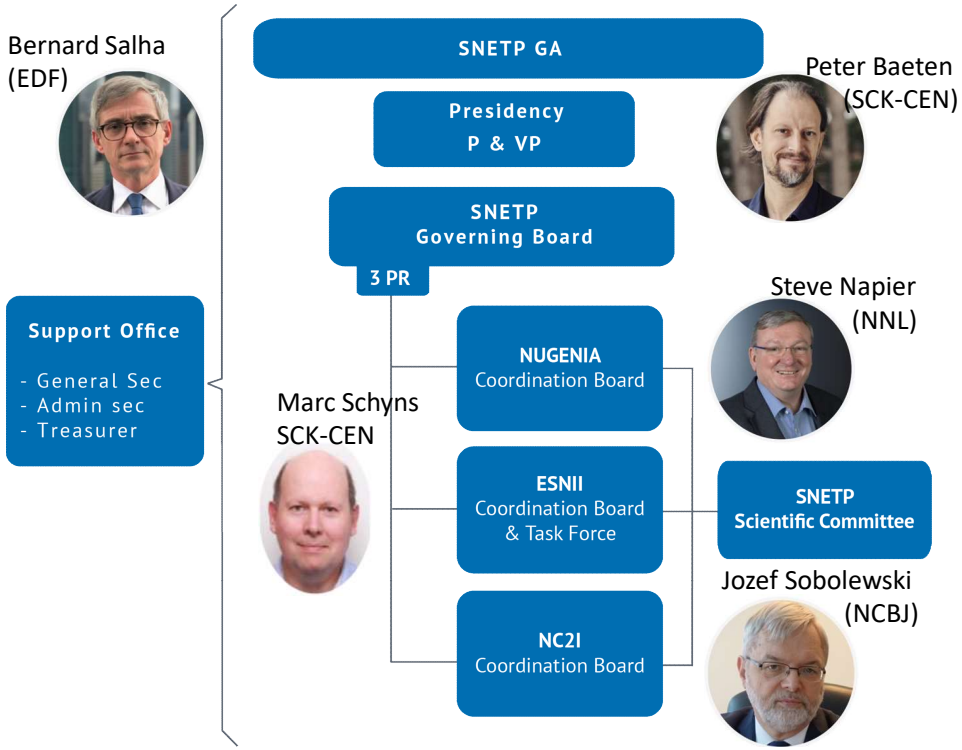
SNETP governance



- SNETP is steered and monitored by an elected
  - **Governing Board**
    - **Industry**

D. Boath (Jacobs)
J. Dhers (Framatome)
J. Gorgemans (Westinghouse)
I. Nistor (EDF-Energy)
Ch. Schneidesch (Engie)
E. Vesaoja (Fortum)
S. Rátkai (Paks)
B. Morel (Orano)
A. Laciok (CEZ)

    - **R&D centers and acdemia**

F. Barré (IRSN)
E. Gonzalez (CIEMAT)
P. Kinnunen (VTT)
F. Roelofs (NRG)
L. Cizelj (JSI)
P. Kadecka (UJV)
S. Sarrade (CEA)
W. Tromm (KIT)
R. Whittelston (NNL)

- Secretariat : 10 volunteers

JRC, FORATOM, UJV, CEA, ORANO, CIEMAT, SCK.CEN, BZ, IRSN, and:

  - **General Scretariat. A. Al Mazouzi (EDF)**

- Support Office
  - **LGI-consulting providing service**

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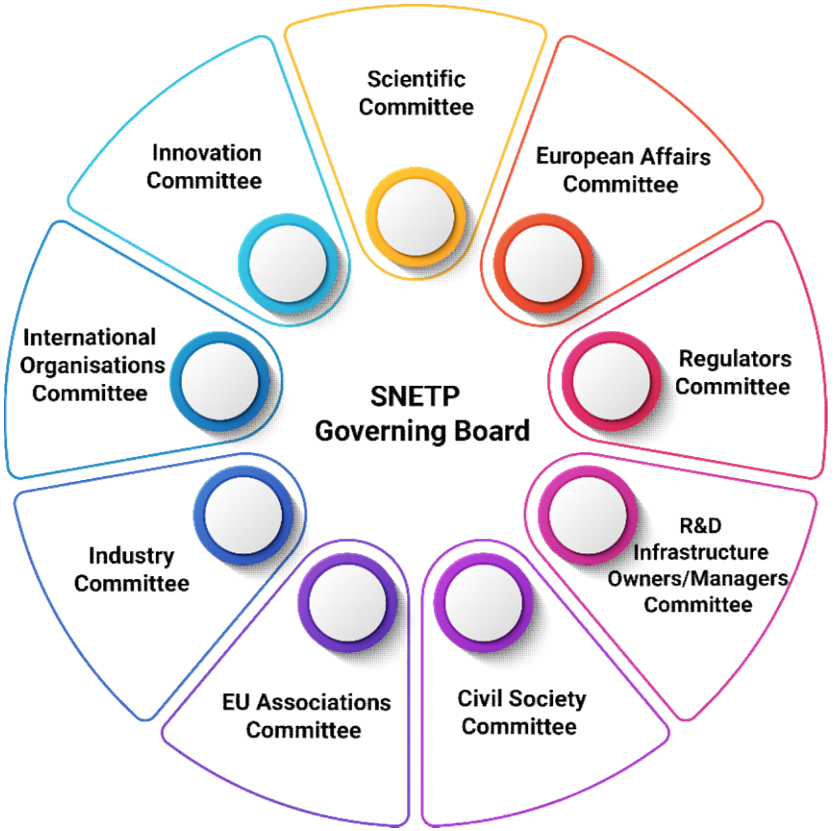
Shared responsabilities

Since June 2020, extensive work at committees level and GB meetings (3) to:

- Define Scope and objectives
- Plan Short, medium, long term actions
- Identify KPI's

Action plan/budget under preparation, to be presented for endorsement by the General assembly (April'21)

- Governing board organised in 9 committees



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Dialogue & interactions with stakeholders

- **Role:**
  - **SNETP is the European Technology & Innovation platform for Nuclear Energy**
  - **SNETP & FORATOM are in charge of the implementation of the SET-Plan (.10 Nuclear Safety)**
  - **Close partnership with JRC (in-kind contribution to the secretariat)**
- **Actions since June 2020**
  - Dialogue with the EC: permanent observer status of DG-RTD, DG-ENER and DG-JRC (following GB2:
  - Dialogue with Member states following their NPES (14 have included Nuclear in their strategy to reach Green Deal goals): Netherlands, Finland, Czech republic
  - Close collaboration with Foratom: permanent observer and secretariat
  - Contribution to various EC consultations:
    - Taxonomy (with 130 NGO's and academia): June 2020
    - Taxonomy delegate act : December 2020
    - implementation of Euratom funded research and training in nuclear fission and fusion (January 2021)
  - Meeting with Commissioner (organized together with Foratom):
    - Cabinet (committee of EU-affairs): 13/11/2020
    - Mariya Gabriel, Commissioner for Innovation, Research, Culture, Education and Youth: 29/1/2021
- **Actions to continue**
  - Close dialogue and Periodic high-level exchange with various EC-services
  - co-organisation of events/ workshops, exchange with various DGs **(example: on SMR by DG-ENER, …)**
  - Partnership with MS representatives and national associations (example; Finnuclear, CEIDEN, Nuclear Valley, GIFEN, CIRTEN, …)
  - Close link with various NGOs (EERA, MENAE, ECHA, etc.)
  - Collaboration with international organisations (IAEA, OECD/NEA, WNA, ….)

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Our strategy based on:

- **Nuclear Energy is one key element of electricity generation by 2050 accordin to EU long term scenarios (15% of the mix)**
- **Nuclear research and innovation is key to keep on strengthening safety, performance, dismantling, waste management**
- **The door shall be kept widely open for research and innovation on new reactors (such as SMR, Gen IV) which could provide enhanced safety, performance and waste management**
- **Nuclear is a transverse technology with strong impact on other fields such as medicine, but also data management, industrial software development, balanced energy mix with variable RES**

Challenges

- Budget reduction of Euratom Programme (decrease of more than 20% for indirect actions compared to H2020) ➔ not in line with the share of nuclear in the European mix by 2050 and with the international competition;
- Enabling of synergies between Horizon Europe, Health Europe, Digital Europe, Space, Hydrogen,.. and Euratom programmes.
- Support of new demonstrators (SMR, Hydrogen or Heat Nuclear Hubs)
- Role of European Technology and Innovation Platforms in shaping the collaborative R&I initiatives (support to SNETP similar to other ETIP's of the SET-plan)

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Important dates

- End **February 2021**: Publication of Forum 2021 synthesis
- **March 18th, 2021:** 4th Governing Board meeting
- **End March 2021**: Harmonisation of SNETP actions & KPIs until 2024
- **April 2021**: Publication of the **vision** of the pillars & **SRIA**
- **22d April 2021:** SNETP General Assembly
- **Spring / Summer 2021**: Preparation of the next Euratom call

Other foreseen actions:

- SMR: high level workshop to be organised by DG-ENER (date TBC)
- Synergies: High Level workshop upon the call of the commissioner (TBD)
- ....

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Contact us

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