



nuward SMR

NUWARD SMR

SMR –
THE MODULAR ATOM FOR
BUSINESS

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NUWARD SMR Experience Based Technology



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NUWARD SMR: a PWR 340MWe power plant



A nominal power of **340 MWe** from 2 integrated reactors of 170 MWe each



>90% availability; compatible with ENTSO-E grid requirements; **60 years** of operation; **load-following** capability



Safety objectives that meet the best international standards



Modular approach and **simple competitive design** targeting **40-month** construction duration for a NOAK



Improved **landscape** integration



Multipurpose by design (H2, district heating, desalination, heat & electricity cogeneration, CO2 capture).



Designed for export, allowing adaptation to multiple markets without significant re-design



First Nuclear Concrete in France in 2030

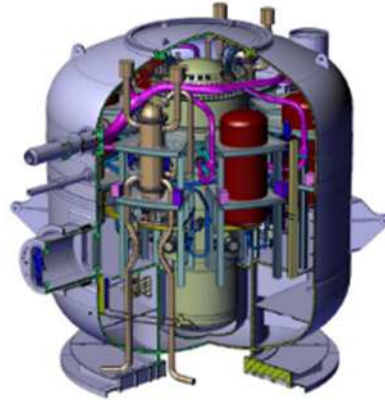


NUWARD SMR: safe, simple, affordable...

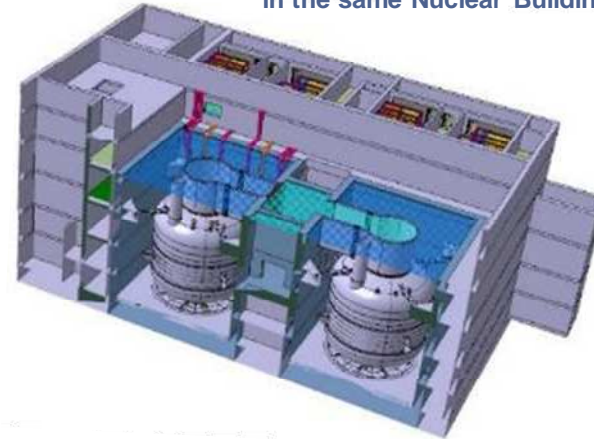
An integrated reactor...



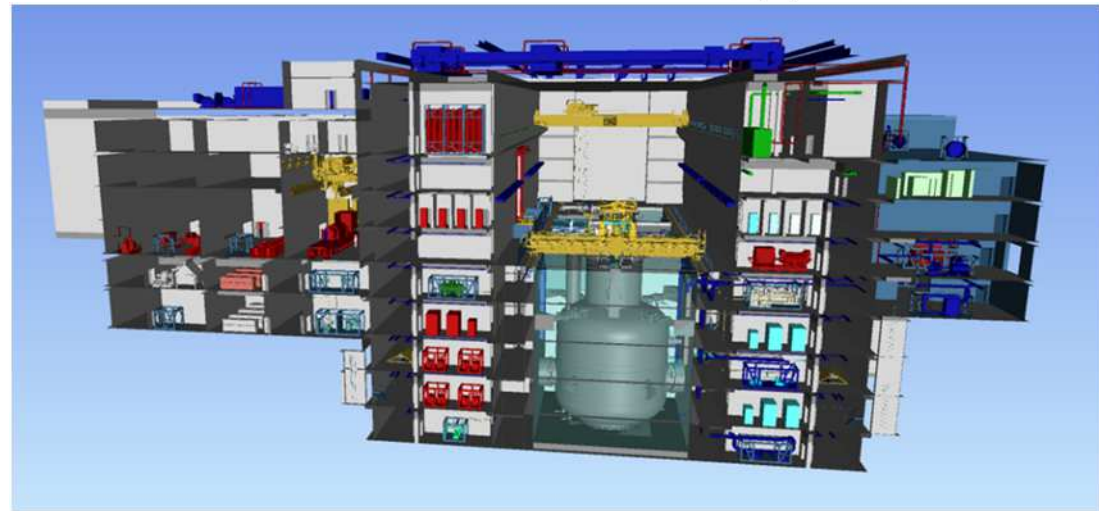
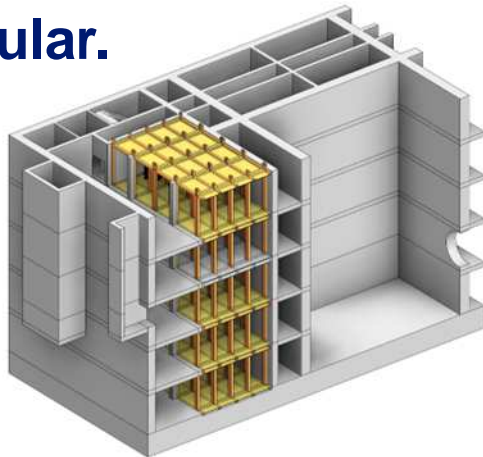
...installed in a metallic containment submerged in a water pool



2 independent reactors (2x170MWe) in the same Nuclear Building



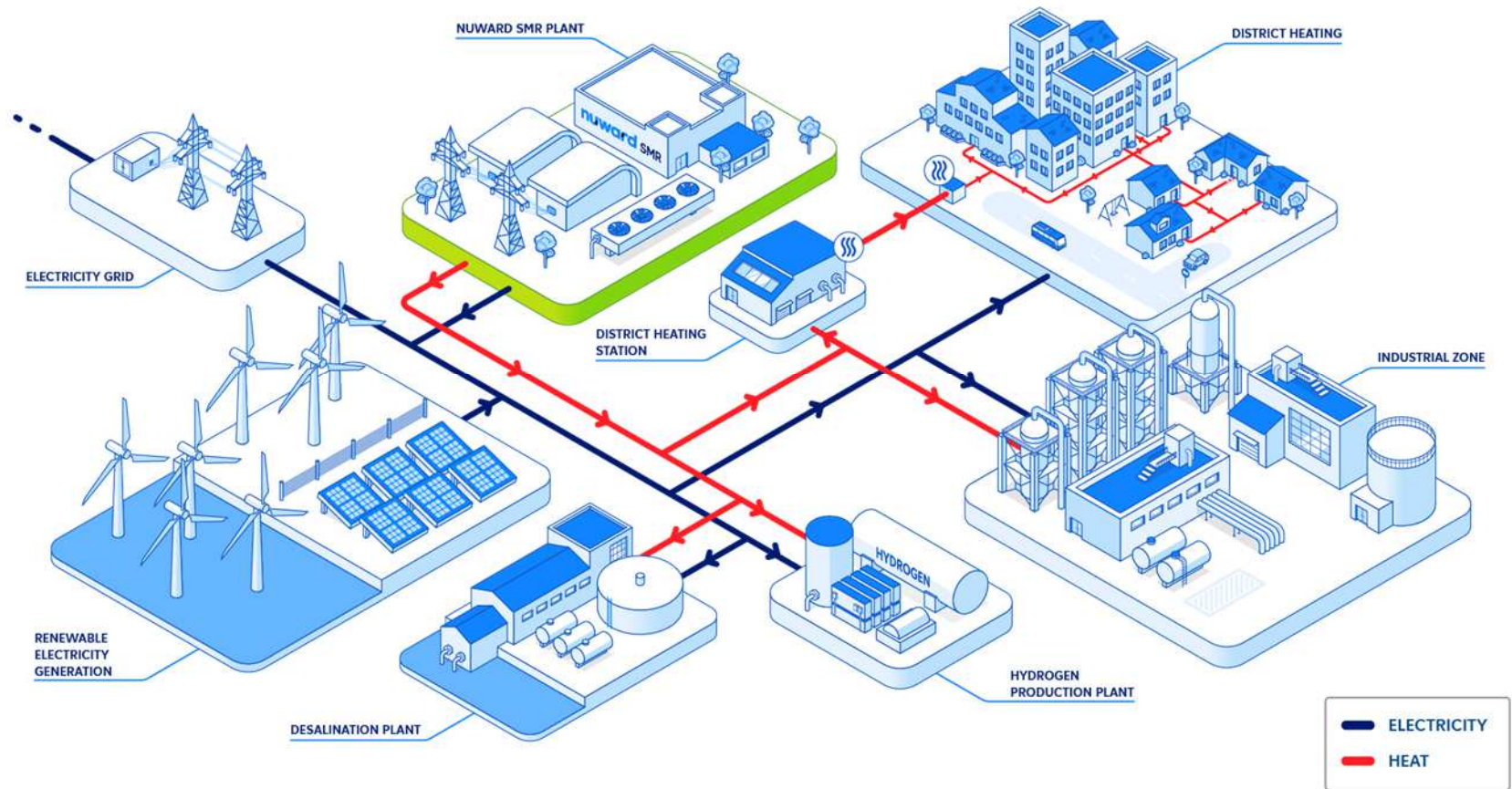
..and modular.



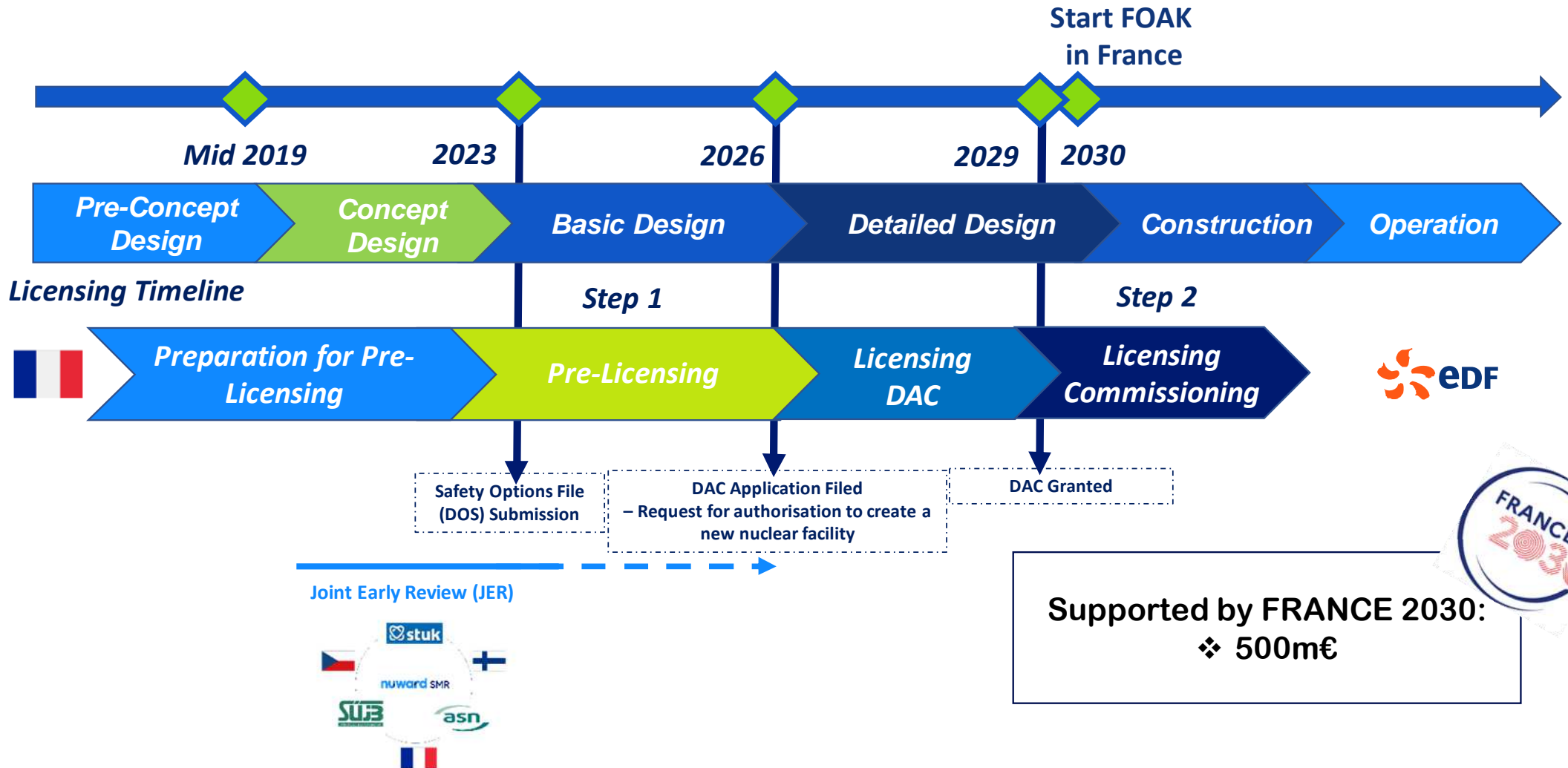
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NUWARD SMR: Multipurpose by design





Meeting 2030 market needs





Supported by FRANCE 2030:
❖ 500m€


European by design

 Unparalleled design construction and operation **experience and expertise based in EU**

 Fully owned **EU Intellectual Property**

 Fully delivered by **EU Supply Chain**

 Working towards **EU licensing**

 Adapted to **EU market needs**

The unparalleled experience & the comprehensive expertise – Made in

Engineering
Construction
Operation

- 67 reactors in operation
- 3 reactors under construction
- 8 new reactors under development
- + 2,000 reactor-year of experience
- + 50,000 nuclear working force



Research
Development &
Innovation

Design,
construction,
commissioning of
compact nuclear
reactors

Naval design,
development and
manufacturing

Design and supply of
nuclear steam supply
systems, services and
fuel

International engineering consultancy
and nuclear plant designer (BE)

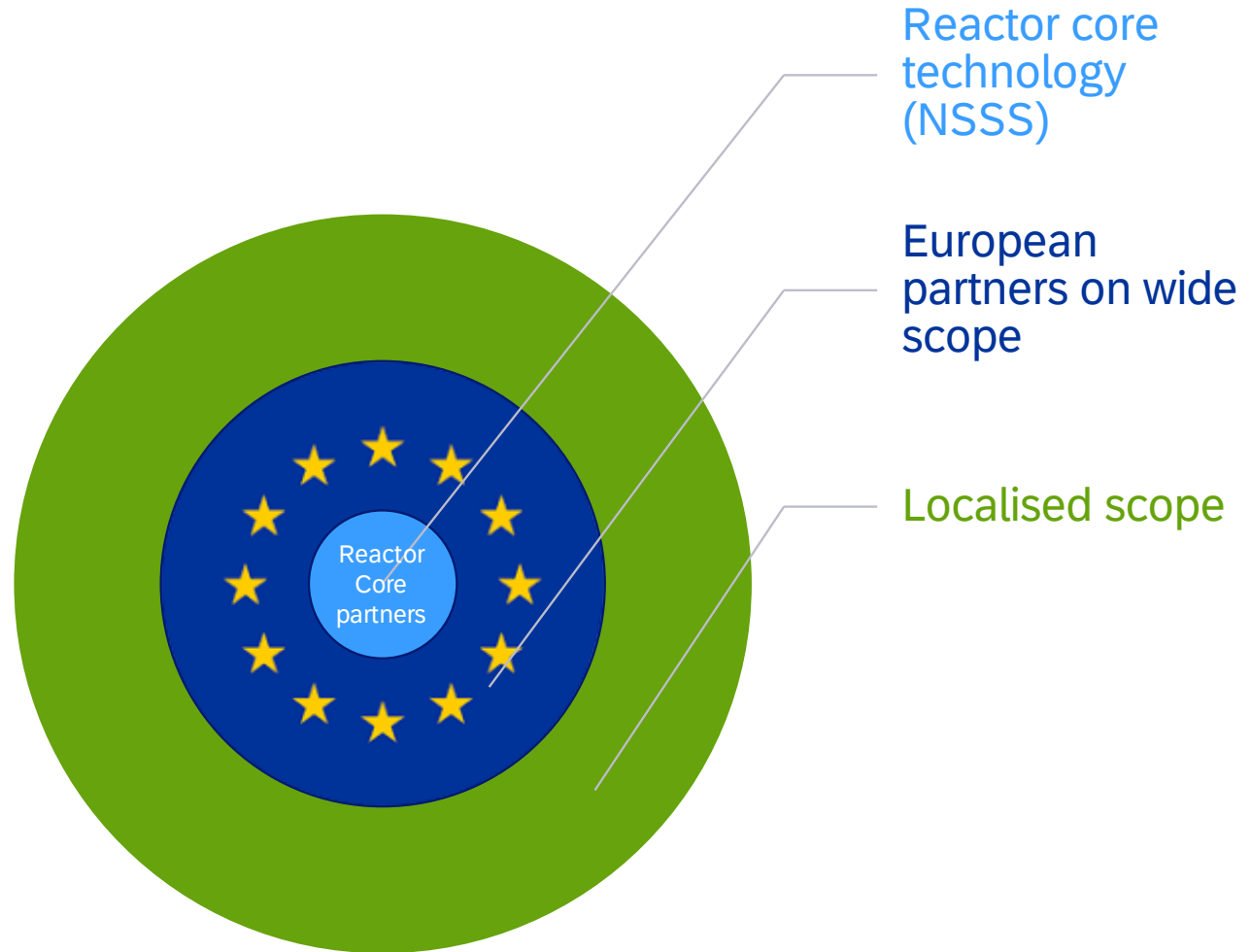
Additional studies performed by:

- Ansaldo (IT)   
- UJV Rez (CZ)  

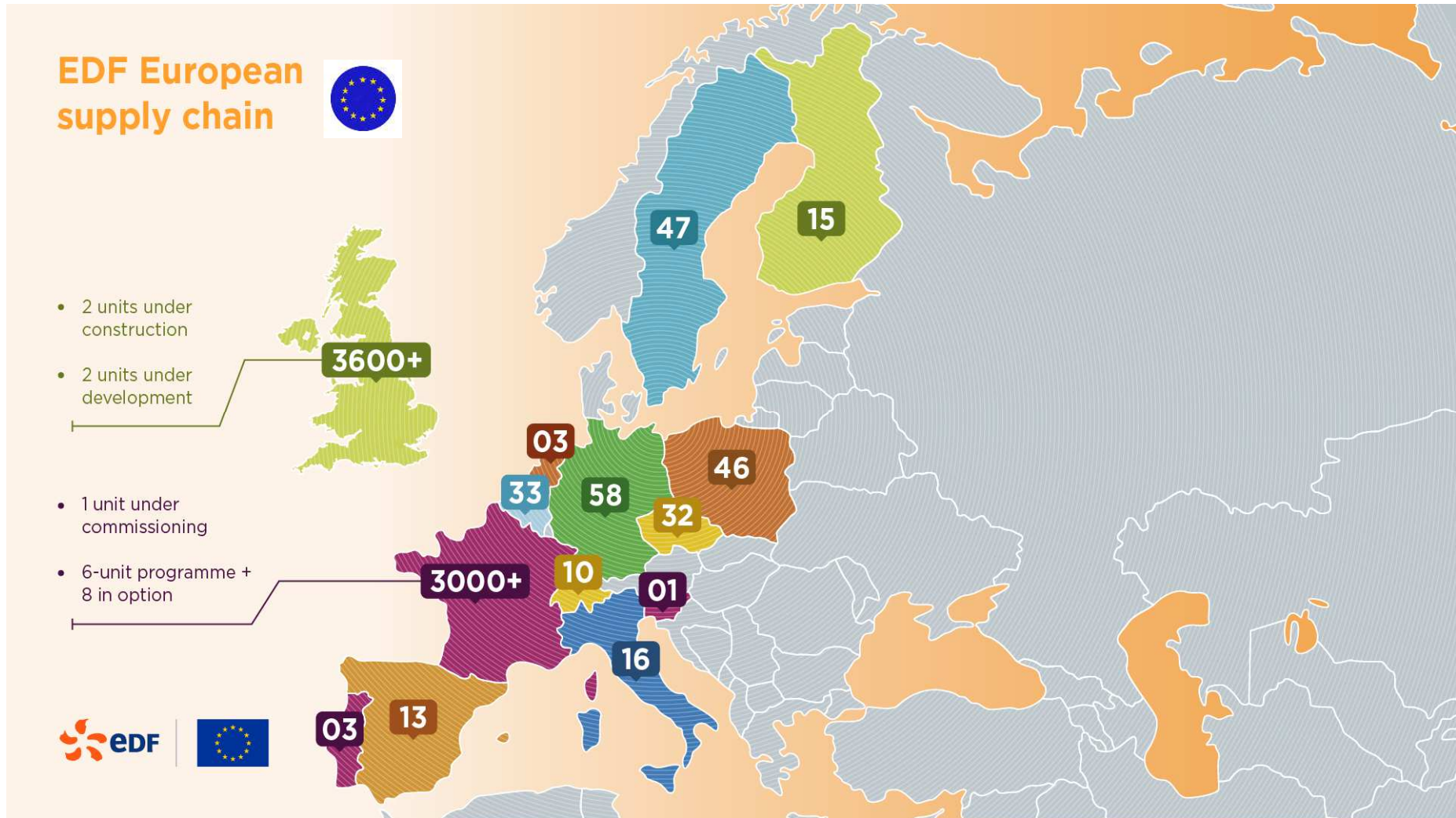


Technology supply chain and partnerships approach

- ❑ Industrial capacity and capability relying on the **European Nuclear Industry**
- ❑ **Development of supply chain** to incorporate European partners / suppliers / R&D to support the product industrialisation
- ❑ Industrial breakdown structure allowing **diversification of supply** and allowing targeted market's industry to support the manufacturing / construction of NUWARD SMR



NUWARD SMR will benefit from EDF EU Supply Chain



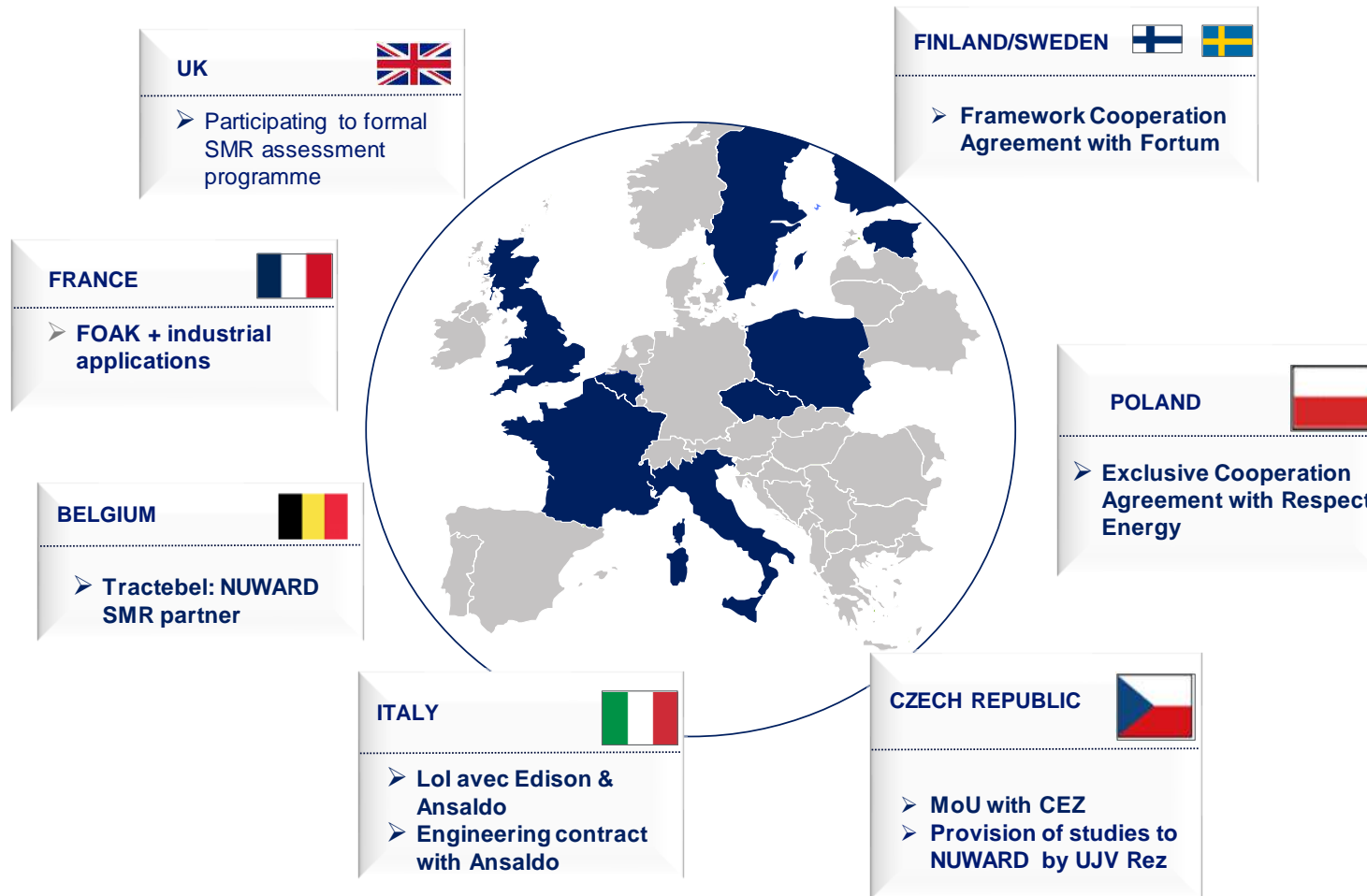
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Made for Europe, in Europe.

Current NUWARD SMR cooperations and agreements in Europe.



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Working towards EU licensing

Joint Early Review (JER)



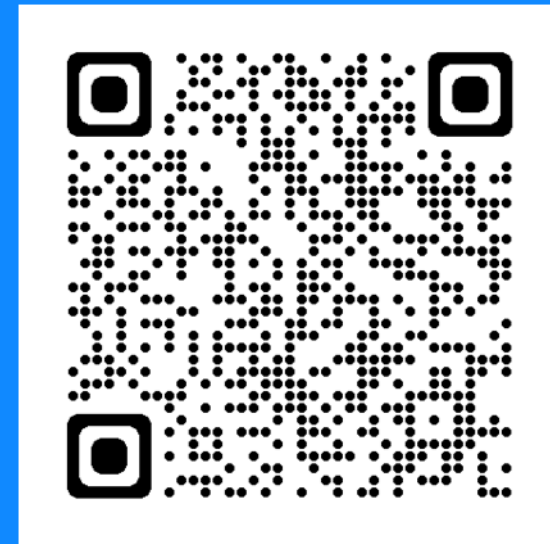
- ▶ Great **feedback** by safety authorities
- ▶ Hailed by international regulators associations as **the best way forward** in terms of maximisation of efficiency of SMR evaluations.
- ▶ Phase 2 will start soon with new European regulators **joining in!**

Market and product appraisal: EU at the core of the International NUWARD Advisory Board (INAB)

Providing valuable insights and inputs to the product development to ensure NUWARD delivers what the market really needs.



Dziękuję!
Merci !
Thank you!



Web site: www.nuward.com



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