Key Messages

- At present, the DEMO design has not been formally selected and detailed operational requirements are not yet available.
- **Definition of DEMO HLRs** following interaction with **external stakeholder group** composed of experts from industry, utilities, grids, safety, licensing, etc.
- Frequent exchanges with **Gen IV fission and ITER to learn from their experience.**
- A **more systems-oriented approach** brought clarity to a # of critical design issues.
- **Early attention given to industrial feasibility, costs, nuclear safety and licensing**.
- Main **design Integration risks** that affect plant architecture, performance and safety identified and being assessed.
- Newly defined strategy for the DEMO breeding blanket design → impact on the EU TBM Program: replace one of the two He-cooled (i.e., HCLL) with a water-cooled concept (WCLL).
- **Staged-design approach with rigorous Gate Reviews** is planned (pre-CDR Gate 2020).
- Design readiness evaluation, together with a **technology maturation and down selection strategy** by embedding industry experience from the very beginning.