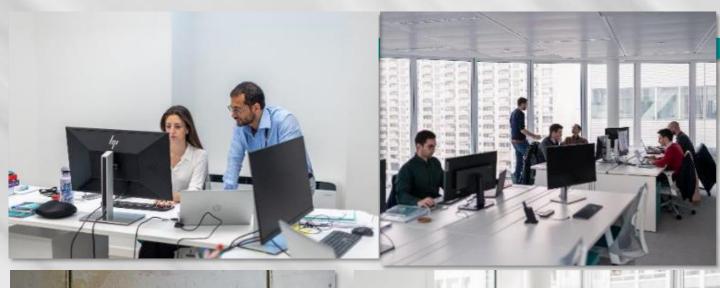
ENSREG & newcleo

Licensing views









700+
EMPLOYEES



25+ YEARS OF RESEARCH



14+
PATENTS



€ 500 MILLION OF PRIVATE FUNDS CURRENTLY RAISING UP TO € 1 BILLION



SMR DEPLOYMENT

- SMRs are necessary to decarbonize mankind activities for electricity supply, heat supply, desalinization, hydrogen supply, access to lowcapacity power grids and, in longer term prospect, maritime propulsion and more!
- Because of huge capitalistic investments, the private sector needs cheaper new build capital cost with still a reasonable return on investments and with a reasonable timescale.







CIRCE Large pool (90 tons LBE)

Lead cooled research facilities



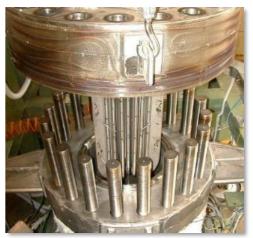
SMR DEPLOYMENT

 The nuclear acceleration should be technologically neutral

 The nuclear acceleration should be public/private sector neutral too. Meaning that timescale for licensing and construction shall be reasonably reduced.



NACIE-UP loop



LIFUS-5 Separate Effect facility



RACHELE (Coolant chemistry lab)

Lead cooled research facilities



SMR DEPLOYMENT

- We need to drastically cut down nuclear accident probability and consequences to facilitate getting closer to population as needed.
- < 1mSv outside the fence in case of unlikely severe accident would be ideal maybe if close to population.
- Spent fuel intermediate storage away from reactors in a dedicated place pending reprocessing for sustainable nuclear energy prospect.
- National regulator to foster nuclear newcomers on the complex regulatory pathway.



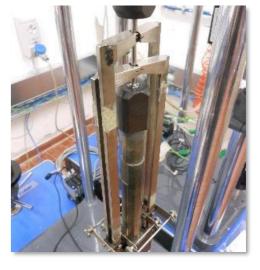
LECOR Corrosion Loop



BIDONE Lead-Pool



HELENA Lead Technology Loop



Lead Mechanical Laboratory

Lead cooled research facilities



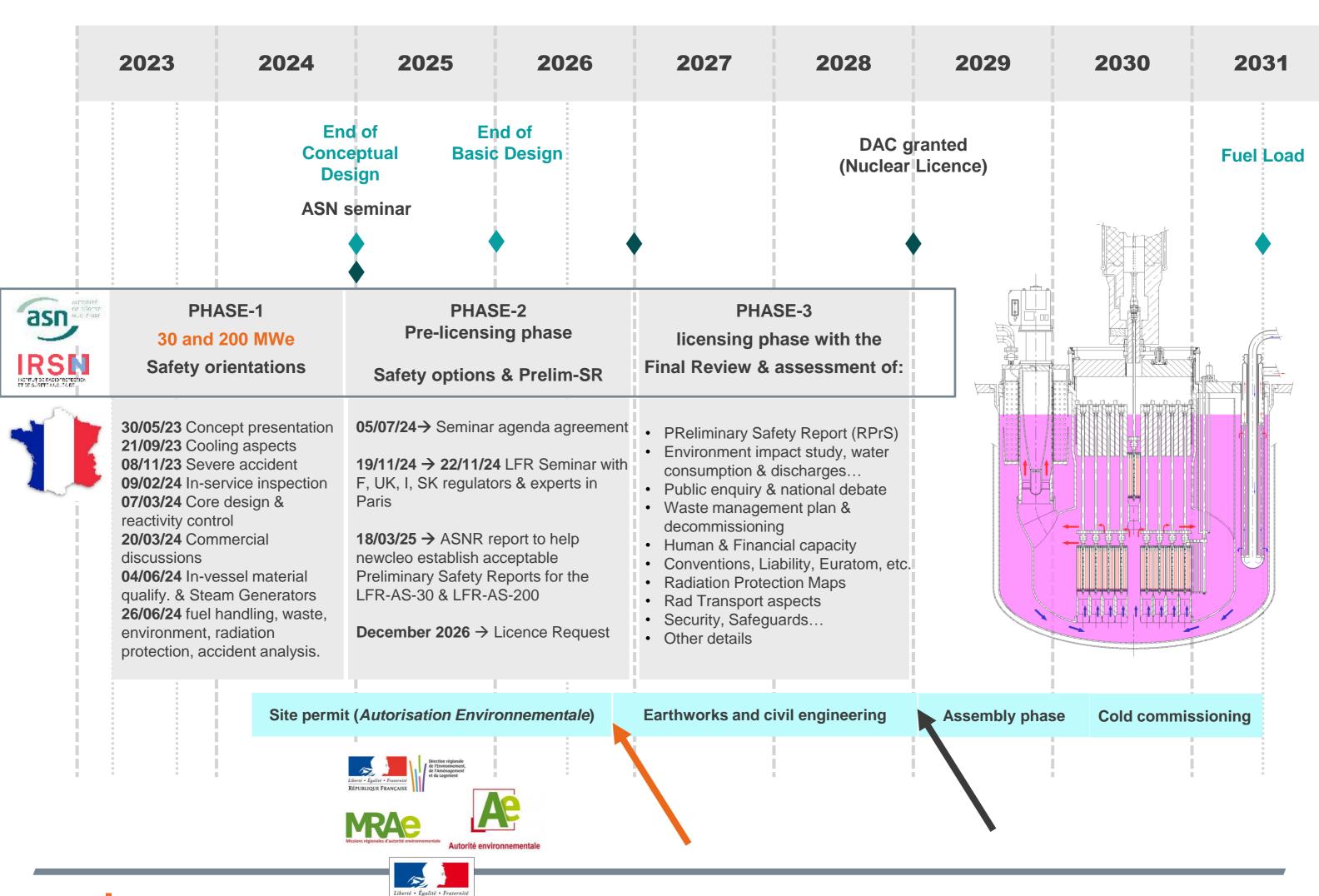
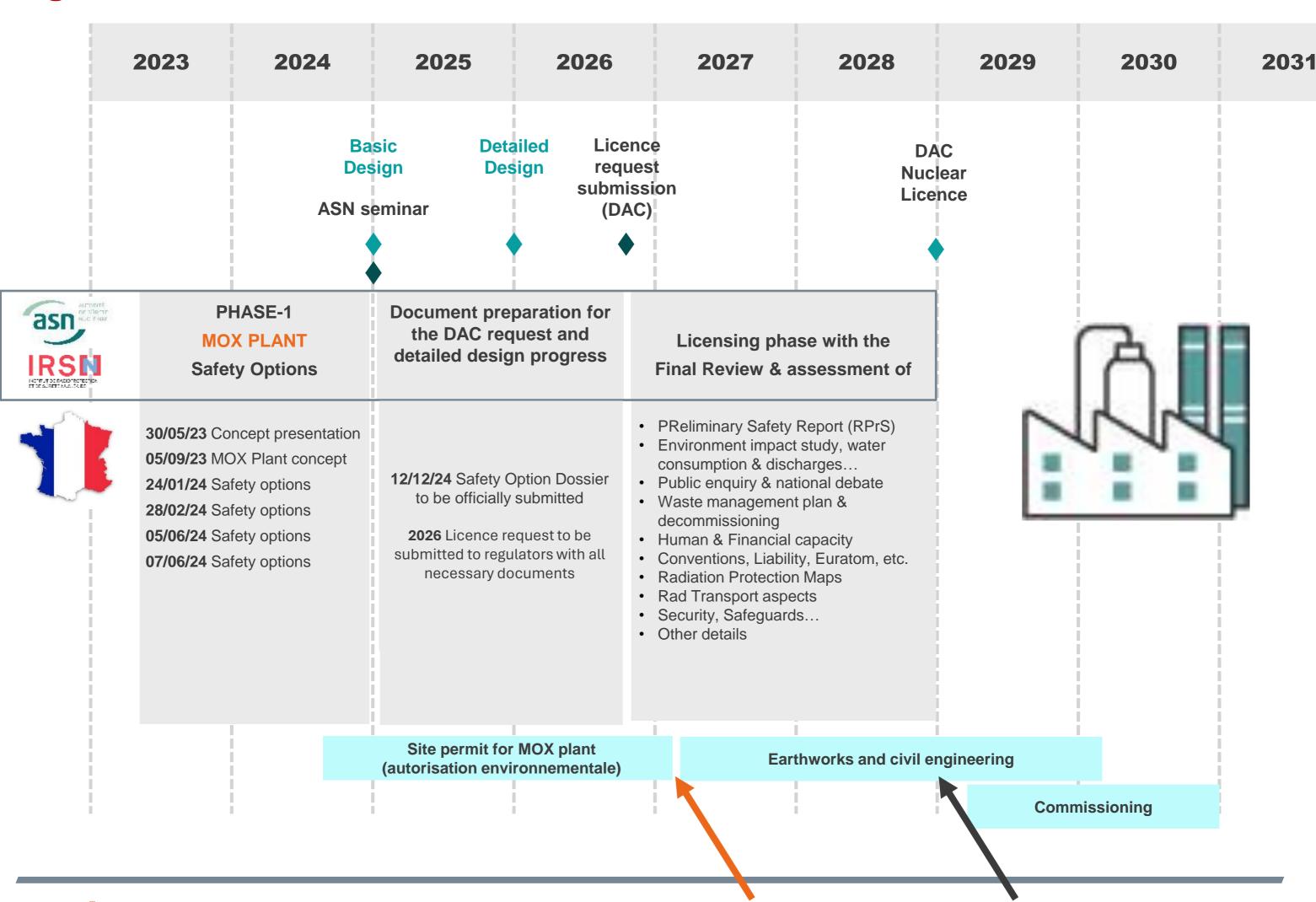


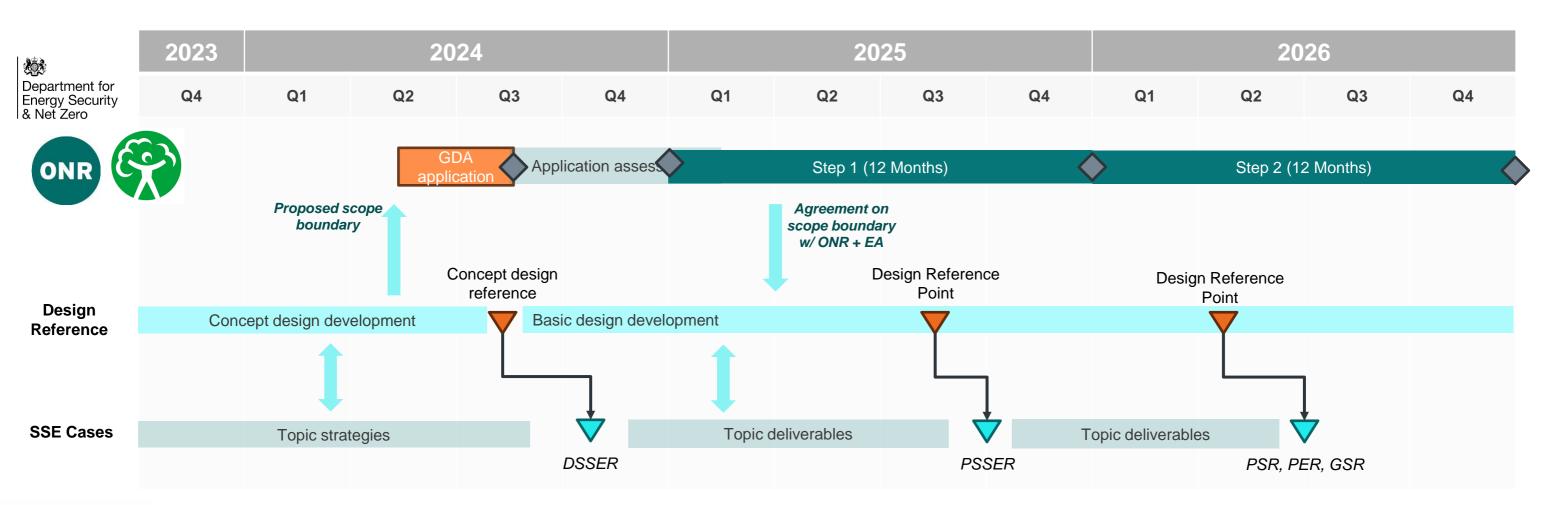


Fig 4.2.2 – V3





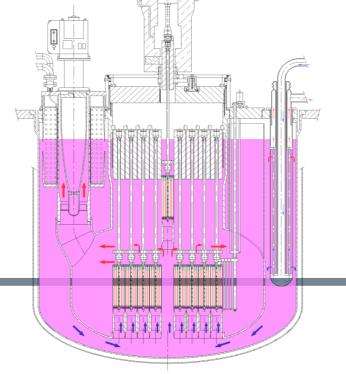
UK Generic Design Assessment (GDA) Timeline





- 1. GDA Preparation Activities to ensure readiness to enter into the GDA process (from both an organisational readiness and design maturity perspective)
- 2. GDA Step 1 Initiation Step where matters such as the scope and timescales are agreed, and ONR's knowledge of the design and the RP's safety and security cases increases. Importantly, this Step includes the RP identifying any immediate gaps in meeting regulatory expectations and proposing how these will be subsequently resolved

3. GDA Step 2 – Fundamental assessment of the generic safety, security and environment cases, to identify any potential 'showstoppers' that may preclude deployment of the design



200 MWe



Licensing & construction

- Regulation to accept industrial risks and to facilitate civil engineering construction (just the concrete) before the nuclear licence with adequate permit & arrangements.
- Site permit duration to be reduced (2.5 years min)
 with national site selection & preparation.
- Regulation should be reviewed to attract private investments (along with public investments) for enhanced nuclear acceleration.



Newcleo's increasing numbers of partners and suppliers



