

Safety focused strategies on storage option- centralized storage facility (ATC)

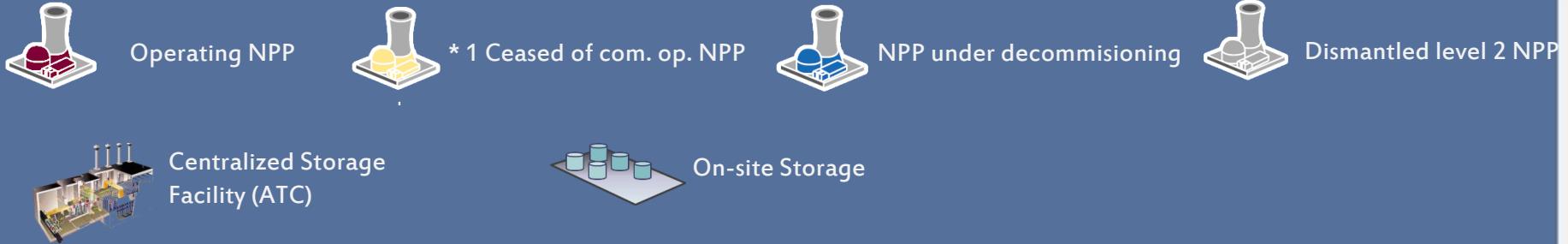


2 | BACKGROUND. SITE SELECTION PROCESS

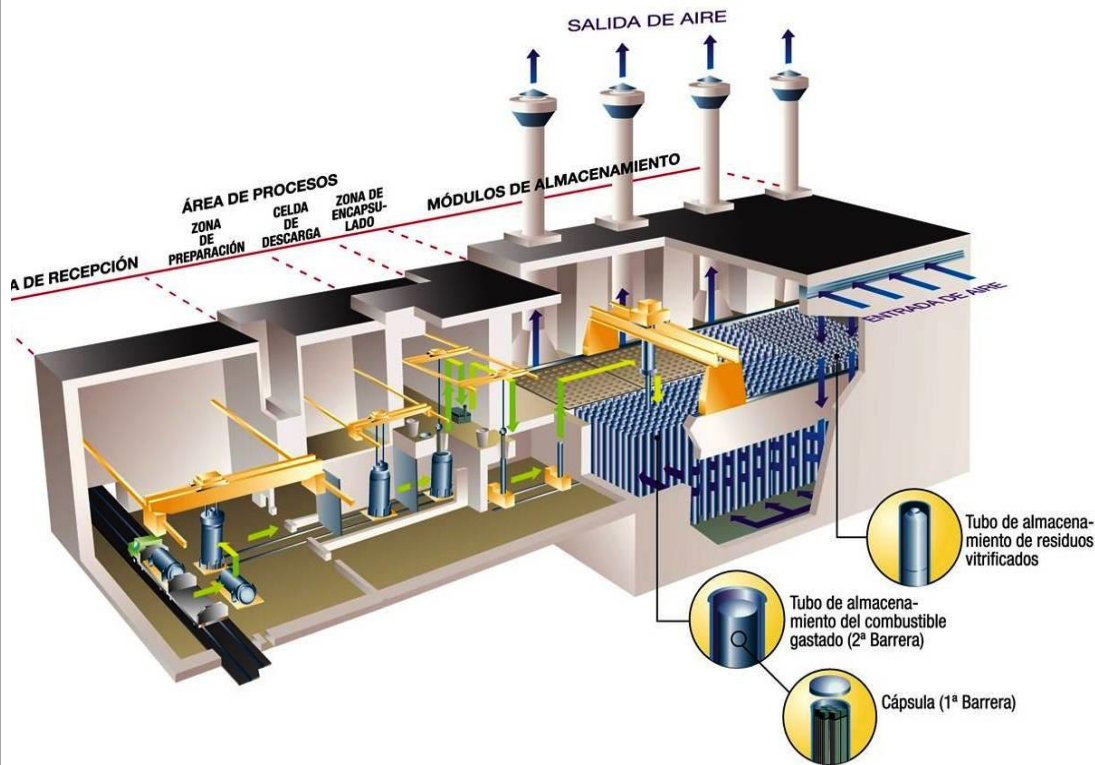
- **2004.** Spanish Parliament's Industry Commission recommended the Government to develop a centralized storage facility (ATC).
- **2006.** 6th National RADWaste Management Plan prioritizes the facility construction of the facility (ATC).
- **From December 2009 to December 2011.** The Government carried out public consultation for site selection and coordinated a national consent based process, resulting 4 final candidates.
- **December 2011.** The Government took a final decision on the site for construction of ATC in Villar de Cañas (Cuenca).



3 SPANISH SPENT FUEL STRATEGY



4 GENERAL INFORMATION CENTRALIZED STORAGE FACILITY (ATC)



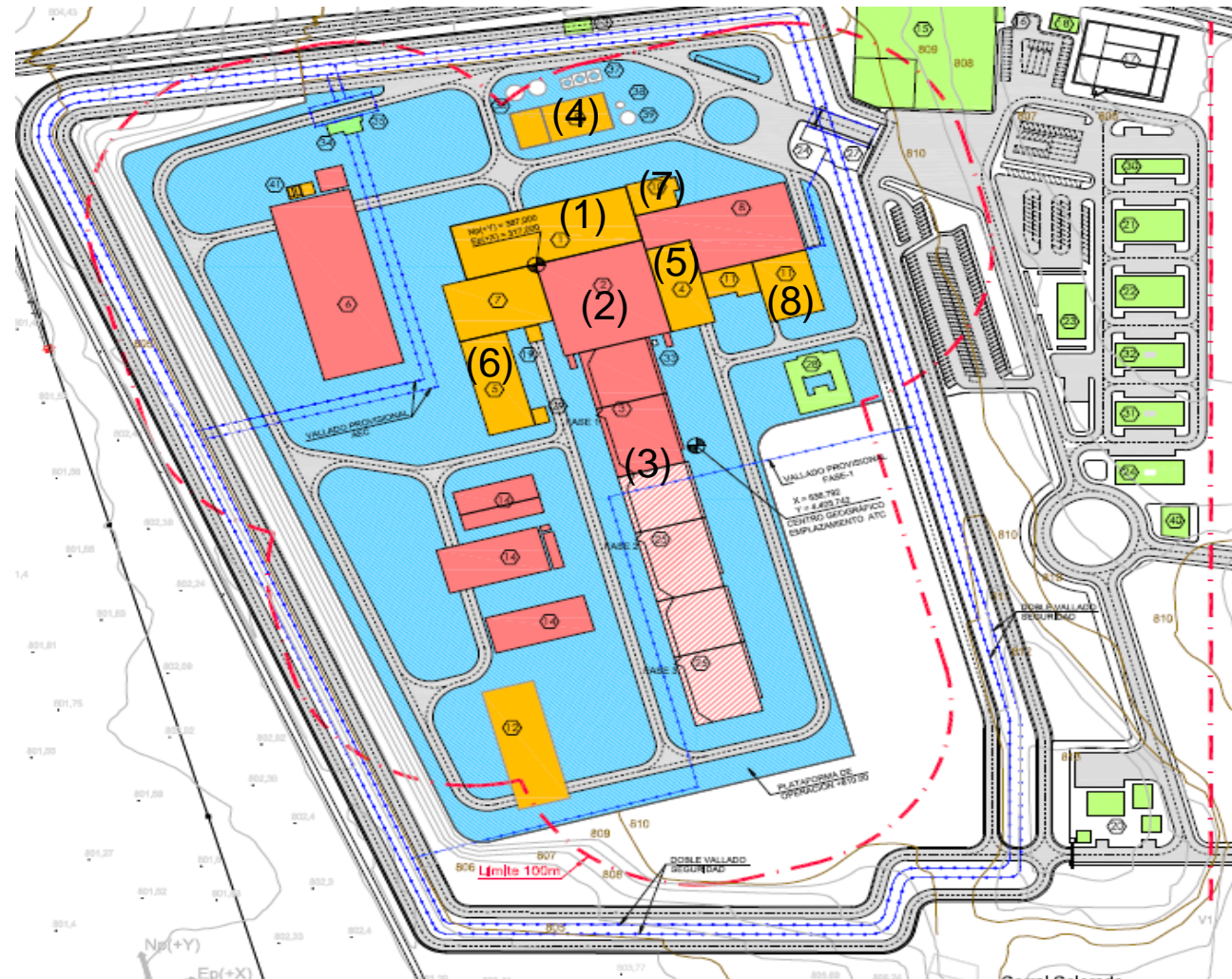
Nuclear Facility description

- Centralized Storage facility for current nuclear fleet:
 - 6700 Ton Spent nuclear fuel (19571 Fuel assemblies)
 - 12 m³ High level waste + 4 m³ ILW from Vandellos I reprocessed spent nuclear fuel
 - Intermediate level waste from NPP dismantling
- Estimated operational life time of 60 years. Design life 100 years
- Research Center and Industrial park

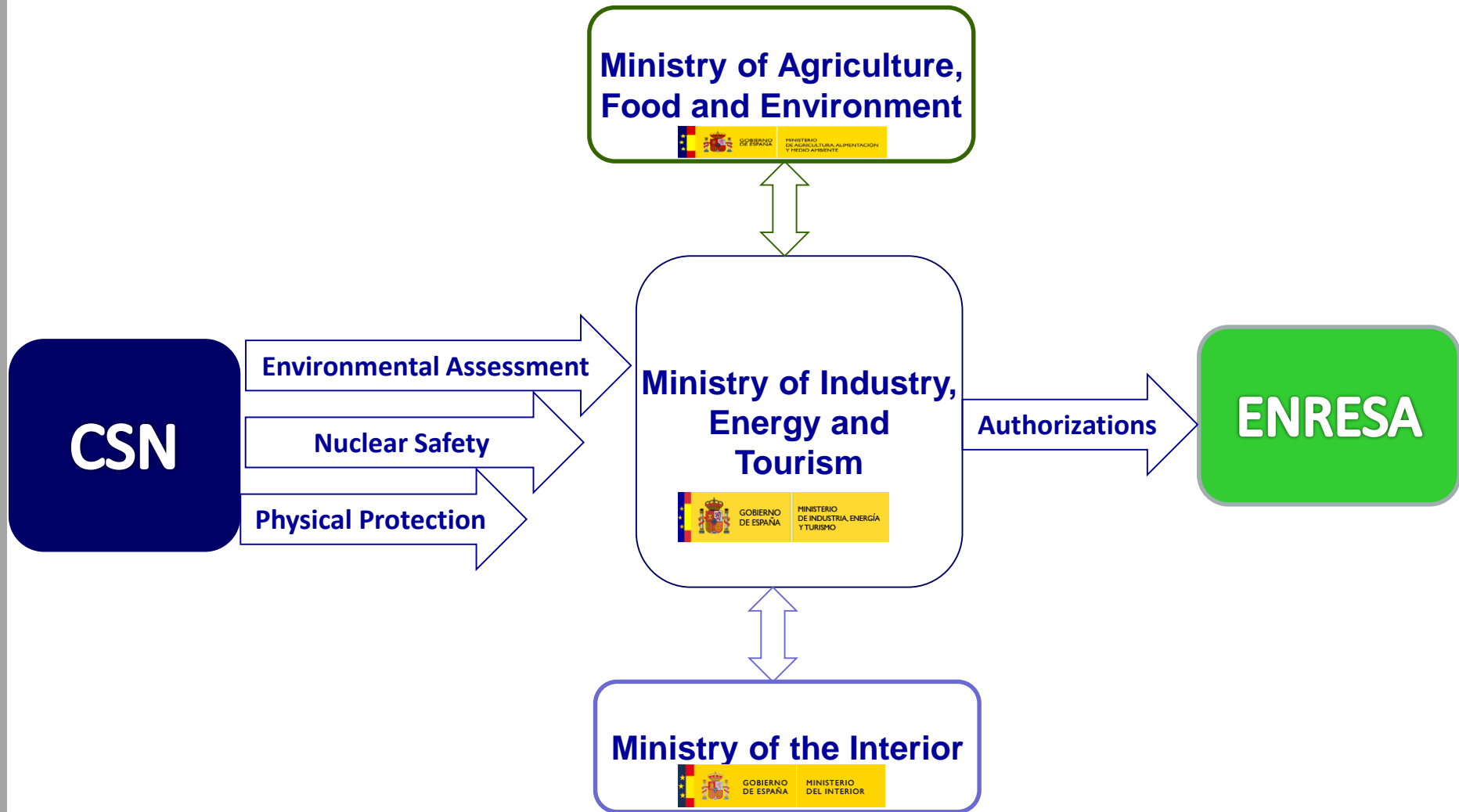
5 LAYOUT FACILITY DESCRIPTION

The facility will include:

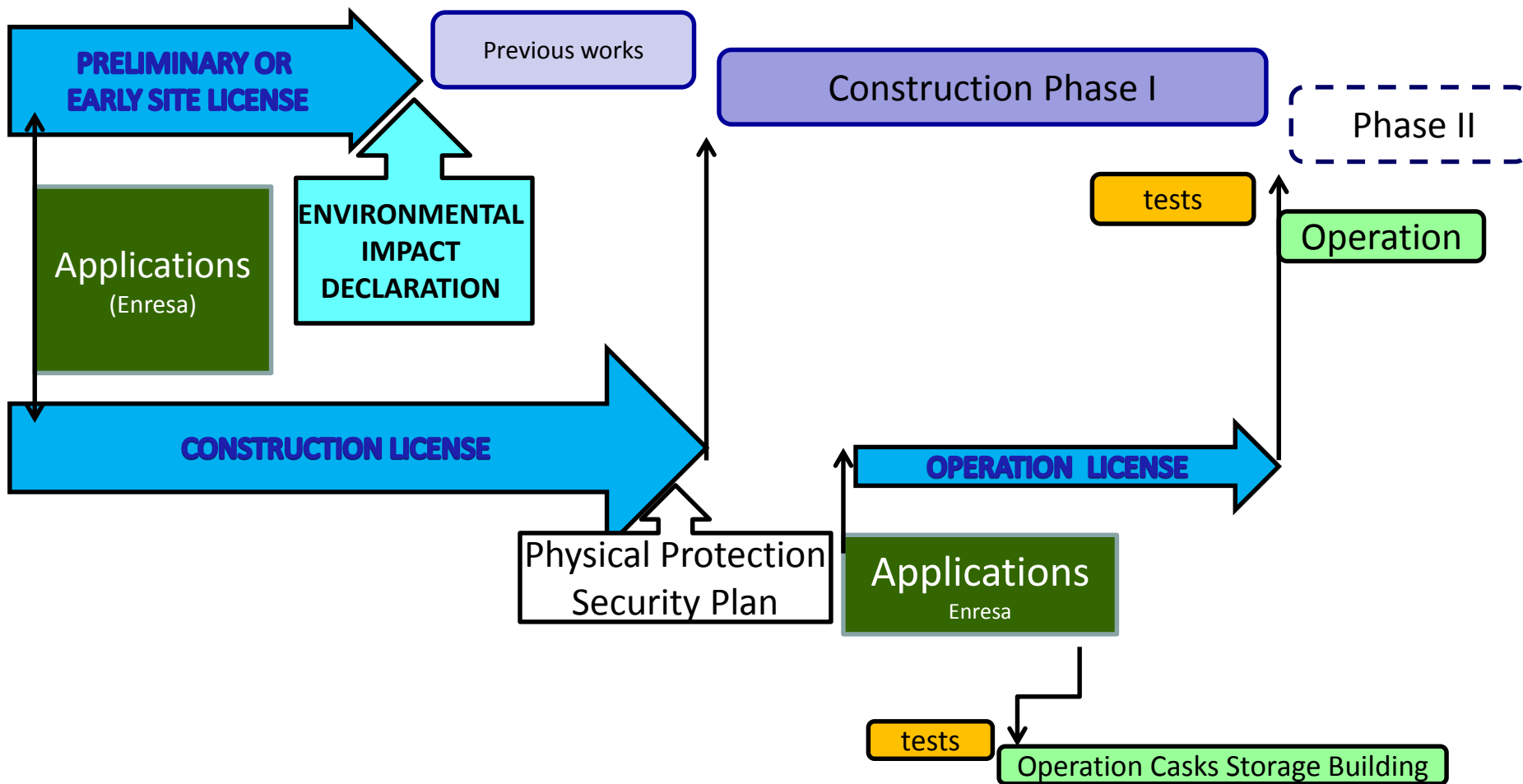
1. Reception
2. Processing
3. Storage vaults
4. Technical services
5. Auxiliary services
6. Radwaste treatment
7. Electricity
8. General services



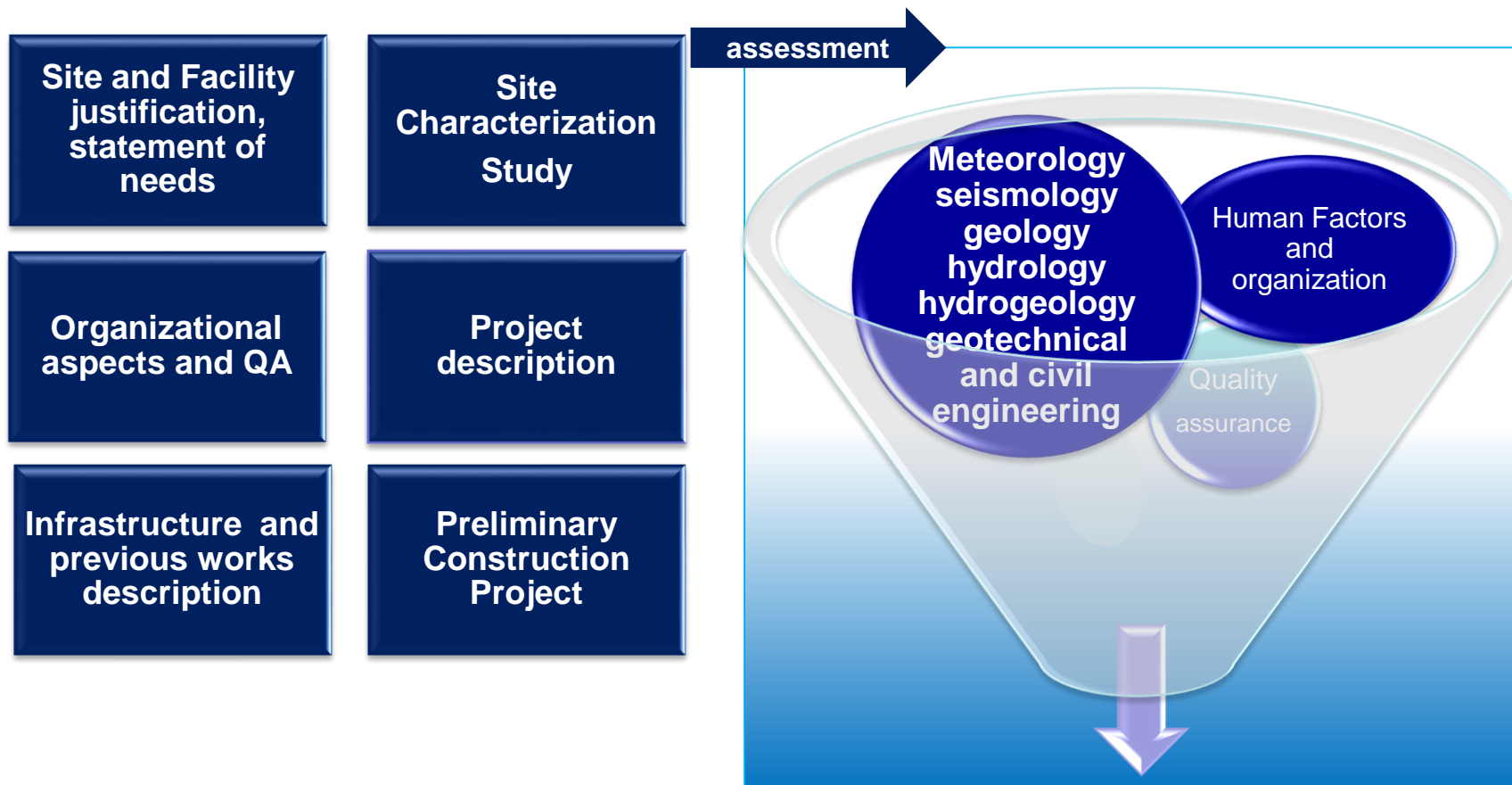
6 GLOBAL LICENSING PROCESS



7 | GENERAL LICENSING PROCESS

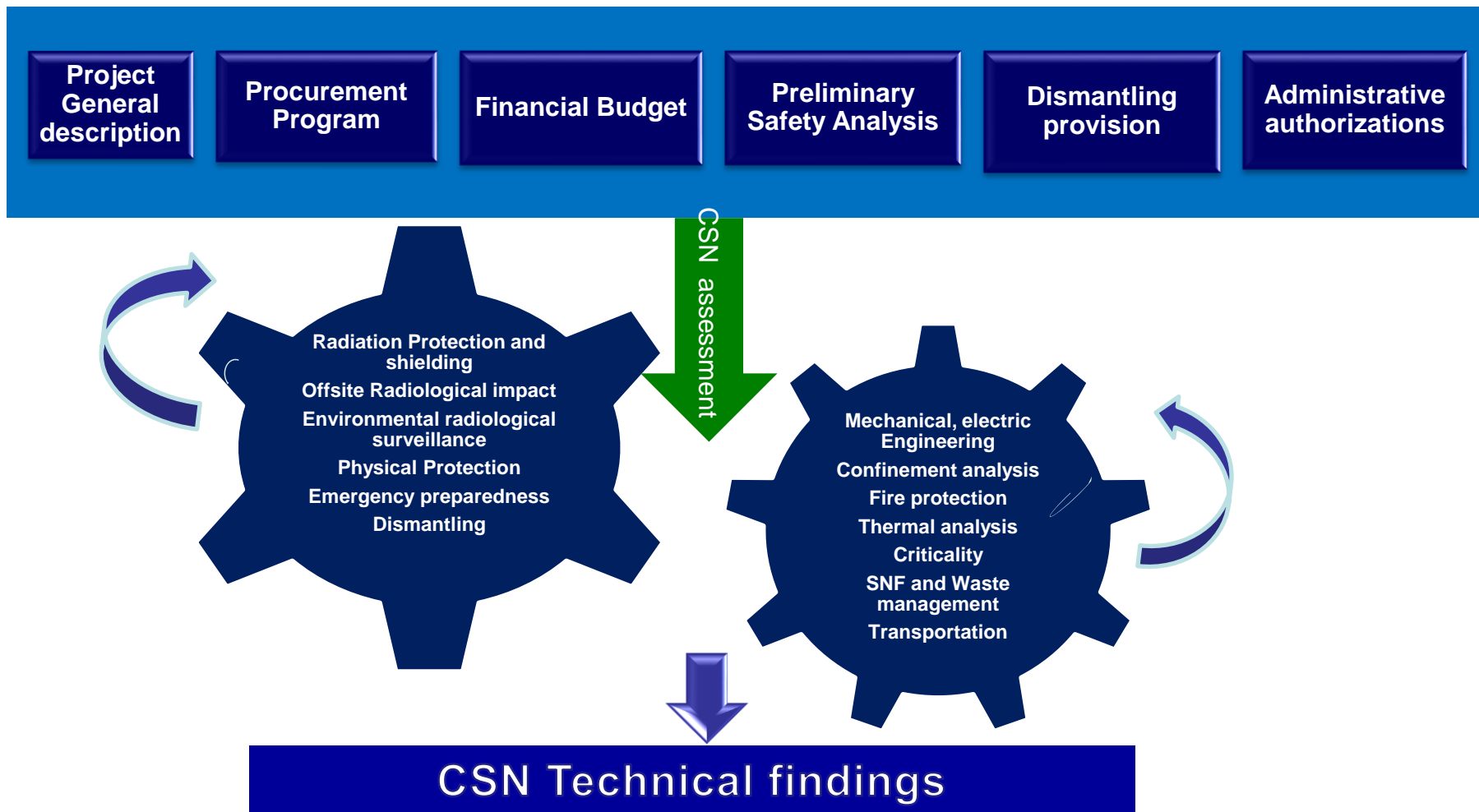


8 | ATC LICENSING PROCESS (1) : PRELIMINARY OR EARLY SITE LICENSE



CSN technical findings

9 | ATC LICENSING PROCESS (2) CONSTRUCTION LICENSE



10

SAFETY REQUIREMENTS CENTRALIZED STORAGE FACILITY

- The Centralized Storage Facility must be able to face extreme natural conditions, multiple failure and unintended man-made hazards.
- A draft CSN technical instruction will require that Design Extended Conditions (beyond design) analysis be performed.
- Council Directive 2014/87/EURATOM (amending Directive 2009/71/EURATOM safety of nuclear installations) applies to Centralized Storage Facility

11 | ATC LICENSING PROCESS: (3) OPERATION LICENSE

- Final Safety Analysis
- Conduct of operations
- Technical Specifications
- Emergency Plan
- Nuclear Test Program
- Quality Assurance Program
- Radiation Protection Program
- SNF and waste management Program
- Final economic study
- Dismantling provisions
- Physical Protection Program



**THANK YOU
FOR YOUR ATTENTION**

