Long term management of radioactive waste
management routes under development – HLW+ILW-LL

- Today, waste is stored in dedicated facilities, mainly in La Hague and Marcoule

- A reversible deep repository (500m depth), the reference management option, is entering a new phase
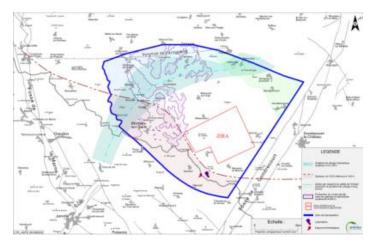

- 2005 : demonstration of the technical feasibility of the disposal project => reference option for the long term management of HLW & ILW-LL.

- 2010 : approval by the Minister of State (Mr Borloo) of an area for location of the underground HL waste disposal facility (15 km² from 30).
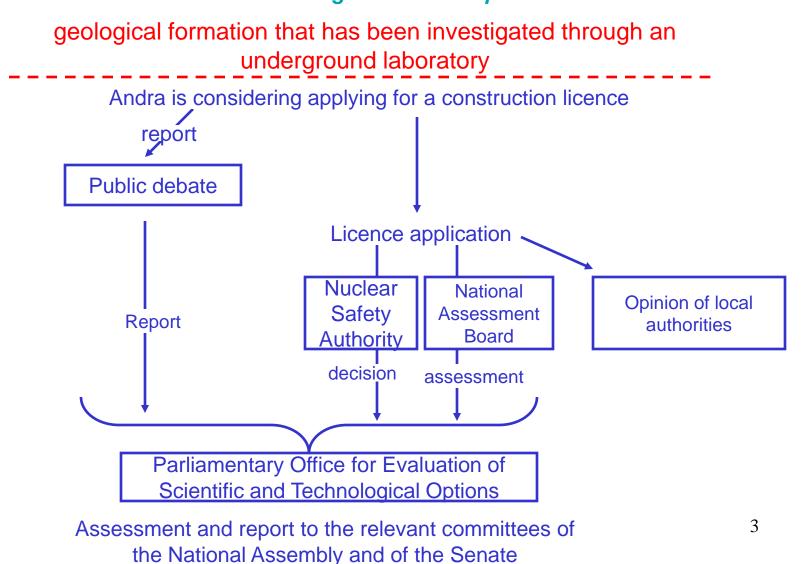
- 2012/2013 : public debate

- 2014 : License application for the construction of the geological repository

- 2025 : current objective for operation of the disposal

Long term management of radioactive waste
management routes under development – HLW+ILW-LL

- Conditioning of high level waste and intermediate level long-lived waste (HLW & ILW-LL)

  - ILW-LL generated before 2015 needs to be conditioned before 2030
  - Possible conditionings have been defined for most of the waste of our national inventory
  - The next National Plan for the Management of Radioactive Materials and Waste (PNGMDR) will describe the progress in effective conditioning of this waste

- Partitioning-transmutation - a research orientation for future waste

  - Transformation of some long-lived radioactive elements contained in radioactive waste into shorter-life elements
  - Feasibility is demonstrated for partitioning ; transmutation can be considered in generation IV reactors
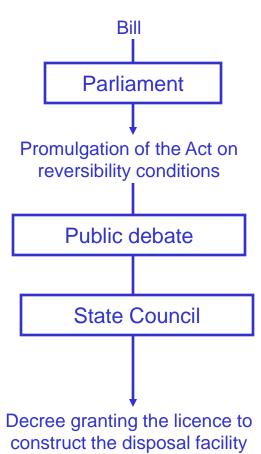 - 2012: assessment of the industrial prospects of those systems

2

Long term management of radioactive waste
management routes under development – HLW+ILW-LL
Process for authorizing the waste disposal center

geological formation that has been investigated through an underground laboratory

Andra is considering applying for a construction licence

report

Public debate

Report

Licence application

Nuclear Safety Authority	National Assessment Board

Opinion of local authorities

decision

assessment

Parliamentary Office for Evaluation of Scientific and Technological Options

Assessment and report to the relevant committees of the National Assembly and of the Senate

3

Long term management of radioactive waste
management routes under development – HLW+ILW-LL
Process for authorizing the disposal center

the government prepares a bill defining the relevant reversibility conditions

Bill

| Parliament |

Promulgation of the Act on reversibility conditions

| Public debate |

| State Council |

Decree granting the licence to construct the disposal facility

4