

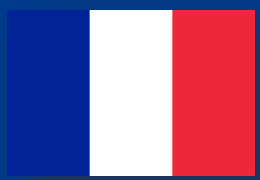


# The French geological disposal project

## CIGEO

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## ◆ Passed in 1991

- For a 15 years research period
- Study of alternative options

## ◆ Technical and scientific approach

- Partitioning and transmutation
- Geological disposal, reversible or non-reversible
- Long-term storage

## ◆ Governance

- Responsibilities
- Control bodies
- Support to the territories



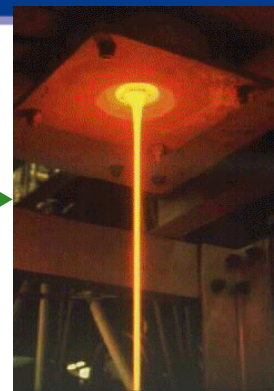
## Major management options for HLW in France

- ◆ Safety of the population and protection of the environment is the first priority
- ◆ Reprocessing of used fuel and reuse of valuable material
- ◆ Reversible geological disposal (Cigéo Project) is the reference solution for the high-level waste

French Nuclear fleet  
59 units

Processing of UF

HLW: 10,000 m<sup>3</sup>



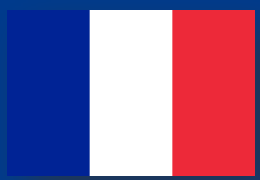
IL-LLW: 70,000 m<sup>3</sup>



Technology waste, research activities and legacy waste

A variety of waste types





**3- Area defined for location of repository U/G facilities after local consultation (2009) and detailed geological survey from the surface**

**Additional above-ground geological survey 2007-2008**

**2- Transposition zone of URL results (proposed 2005)**

**Detailed survey in 2010**

**4- Location of repository surface facilities to be presented during the Public Debate**

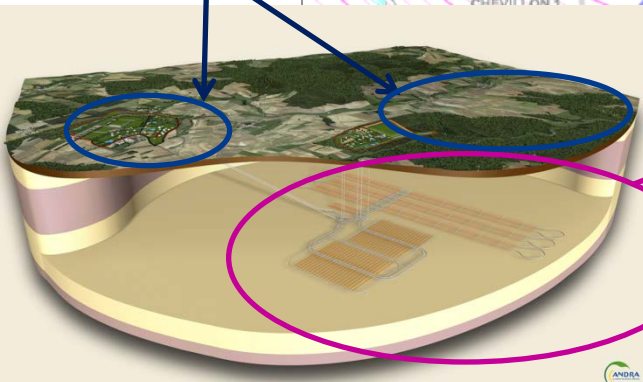
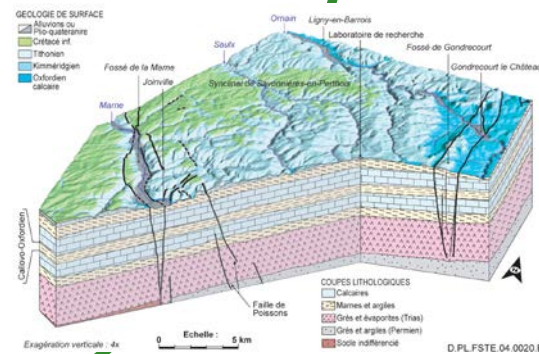
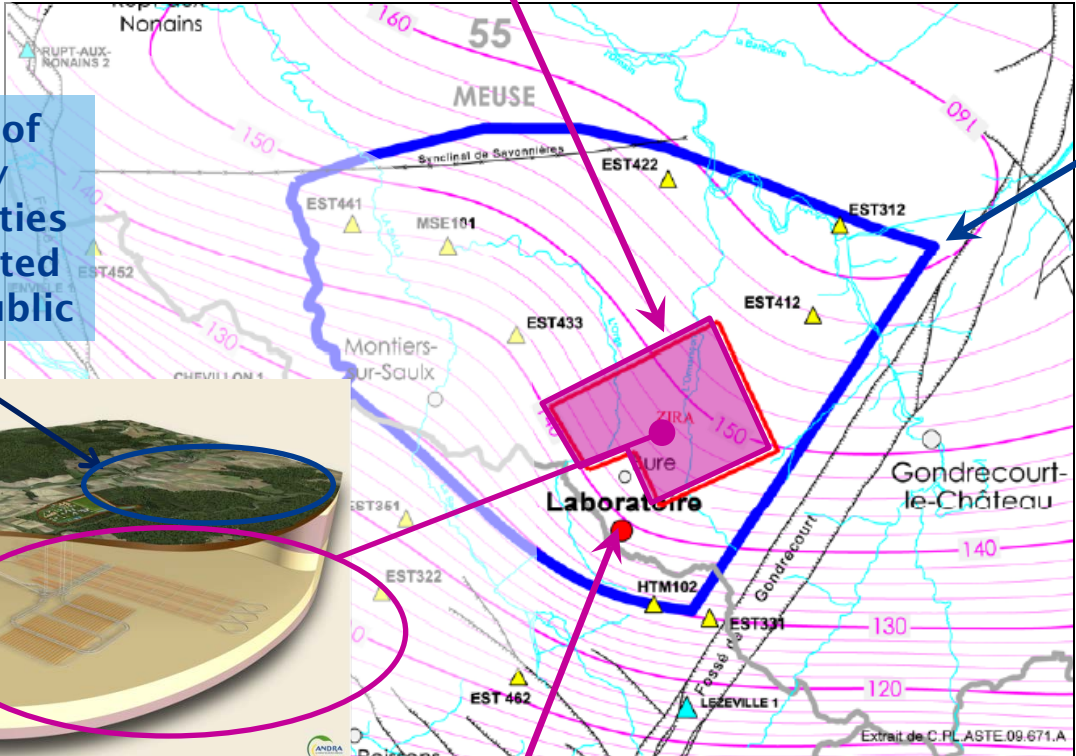
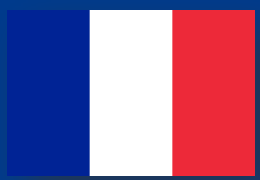


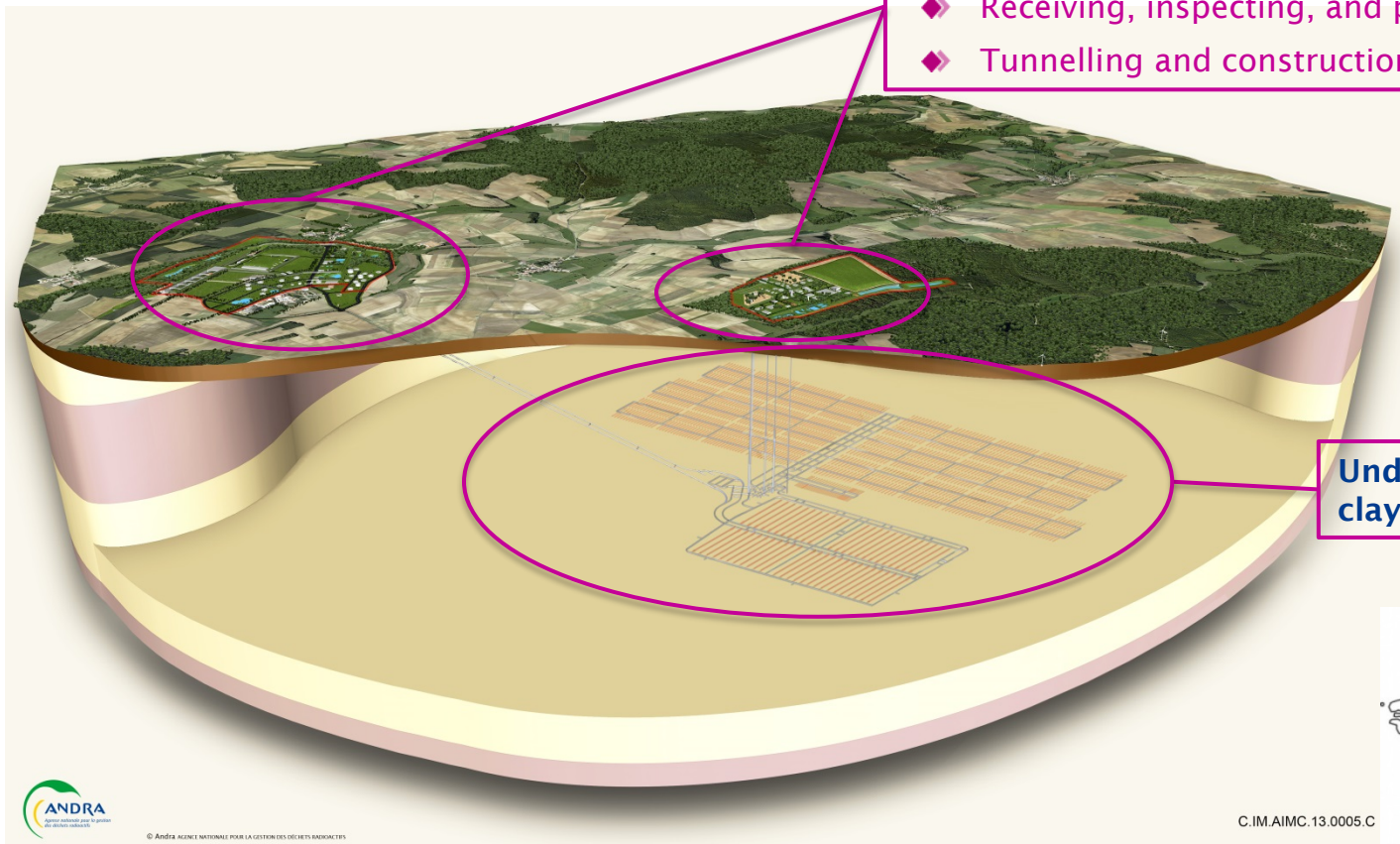
Schéma de principe du stockage à terminaison

**1- Siting started in 1992 with a National call for volunteering; URL licensed 1998**



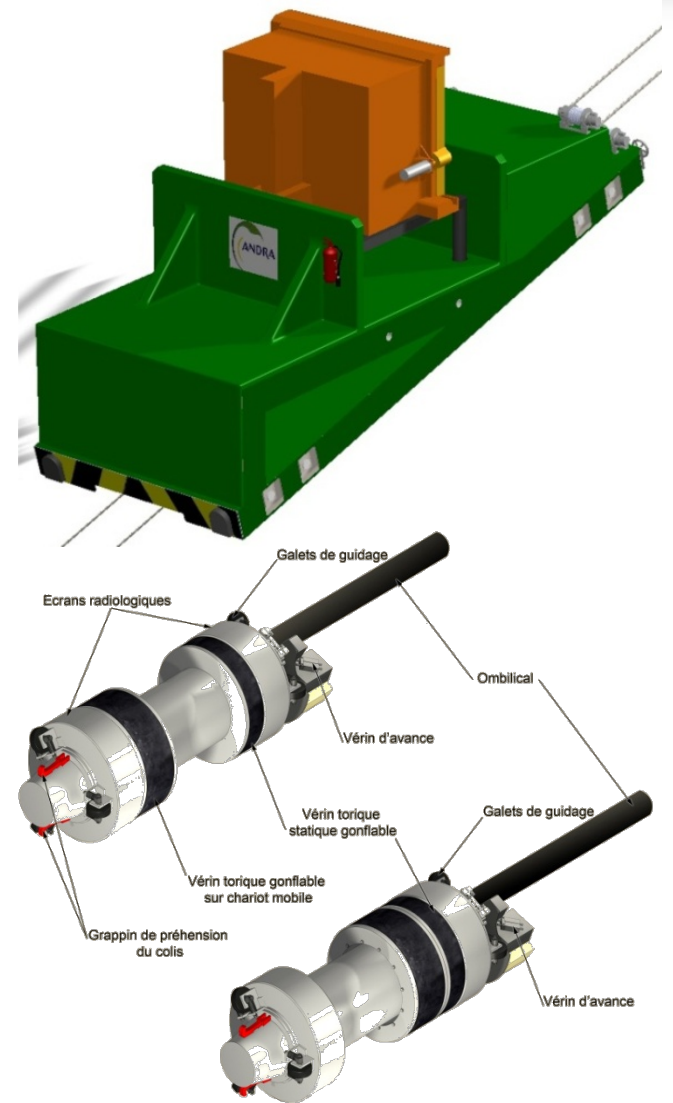
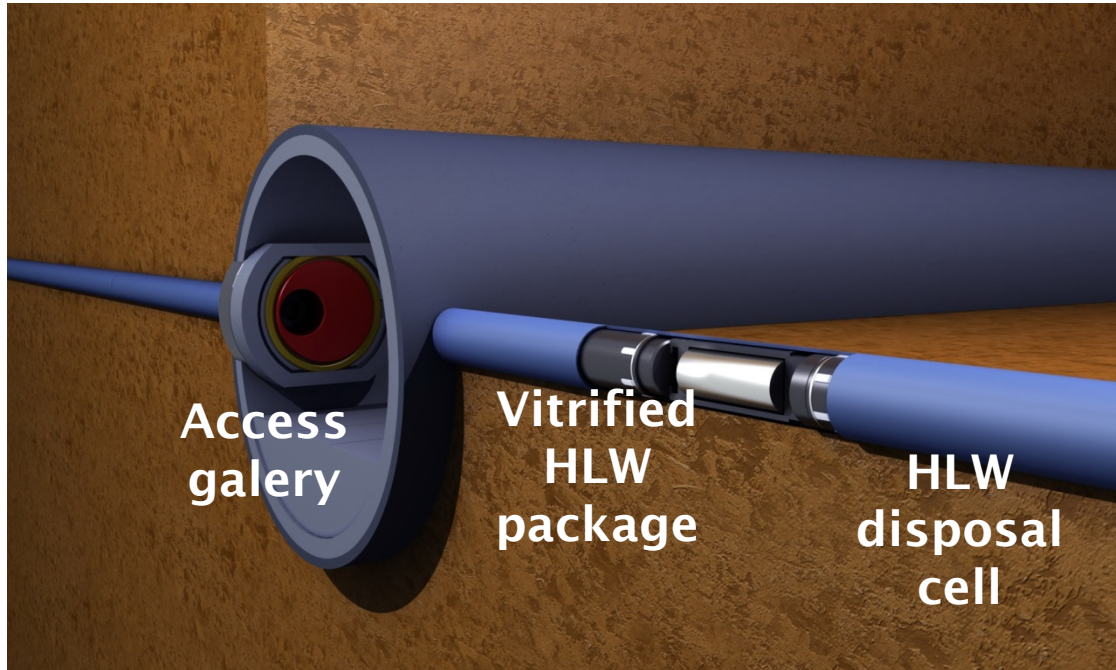
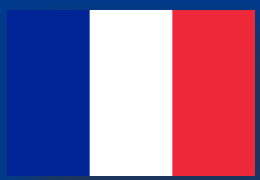
**2 surface facilities:**

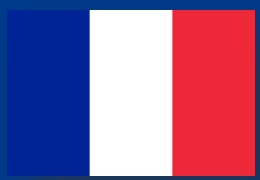
- ◆ Receiving, inspecting, and preparing packages
- ◆ Tunnelling and construction work



**Underground facility in clay (500m depth)**







- ◆◆ The Meuse and Haute-Marne districts volunteered in 1992 for a research laboratory
- ◆◆ Continuous and increasing support to the local development, based on the steps taken for the project
- ◆◆ Development plan to be discussed: it will contribute to make ready the rural territory to the needs for Cigéo



## Four major changes

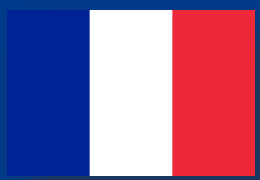
- ◆◆ More progressivity in regard to the facility start-up with an industrial pilot phase
- ◆◆ A long term visibility based on a regularly revised master plan for disposal operations
- ◆◆ More involvement of the civil society in the project
- ◆◆ Clarification of the calendar

## A proposal regarding reversibility

- ◆◆ Phased approach

## Commitments

- ◆◆ Safety first
- ◆◆ Local development with local stakeholders, taking care of their quality of life and of the environment
- ◆◆ Control costs without reducing safety



## Construction Licence Decree

