



The CIGEO project in France

(CIGEO: Industrial Center for Geological Disposal)

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Chairman, ANDRA

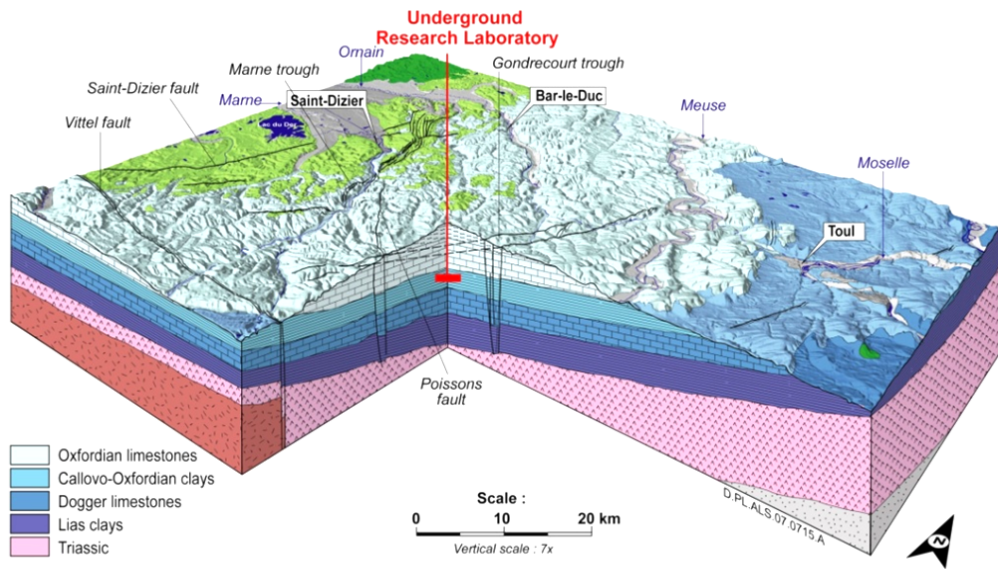
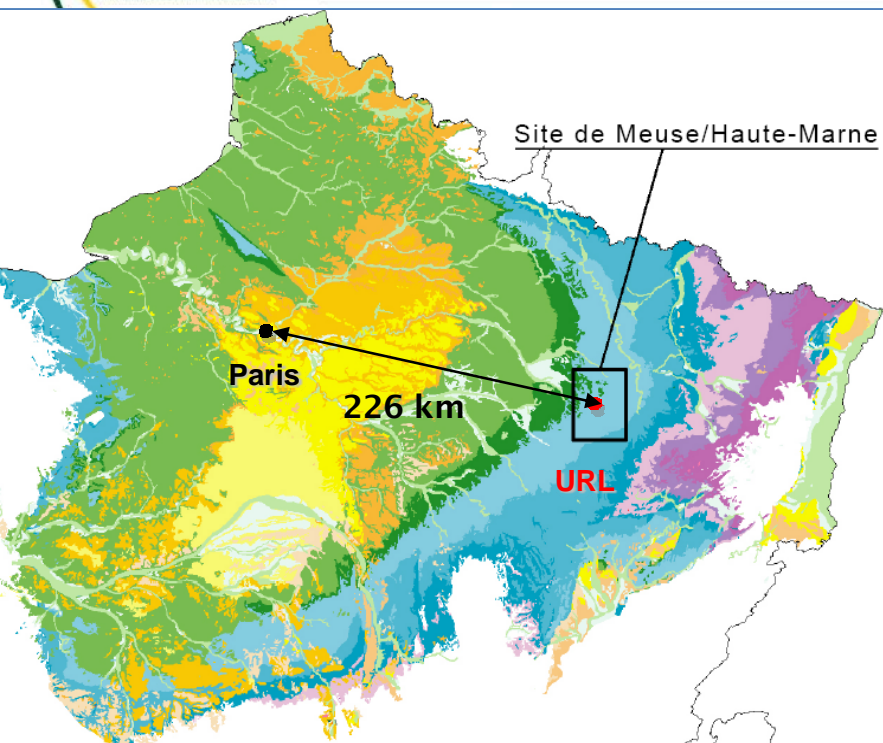
FRANCE



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- **A first law for 15 years research on High Level waste**
 - 1991 to 2006, geological repository and alternative solutions
- **A new Planning Act passed in 2006 for RW Management**
 - All types of radioactive waste are considered through
 - A National Inventory
 - A Management Plan for Radioactive Materials and Waste (PNGMDR)
- **Both laws define**
 - Clear objectives and schedules
 - Assessment system: CNE, ASN, OPECST
 - Information, transparency, reporting requirements
 - Funding schemes for the Agency
 - Polluter-pays principle: contracts or tax system
 - Subsidies for Public Missions

The Callovo-Oxfordian argillite at the MHM site (Bure)



Age: 155 million year
 Depth at the site: ~500 m
 Thickness at the site: ~130 m

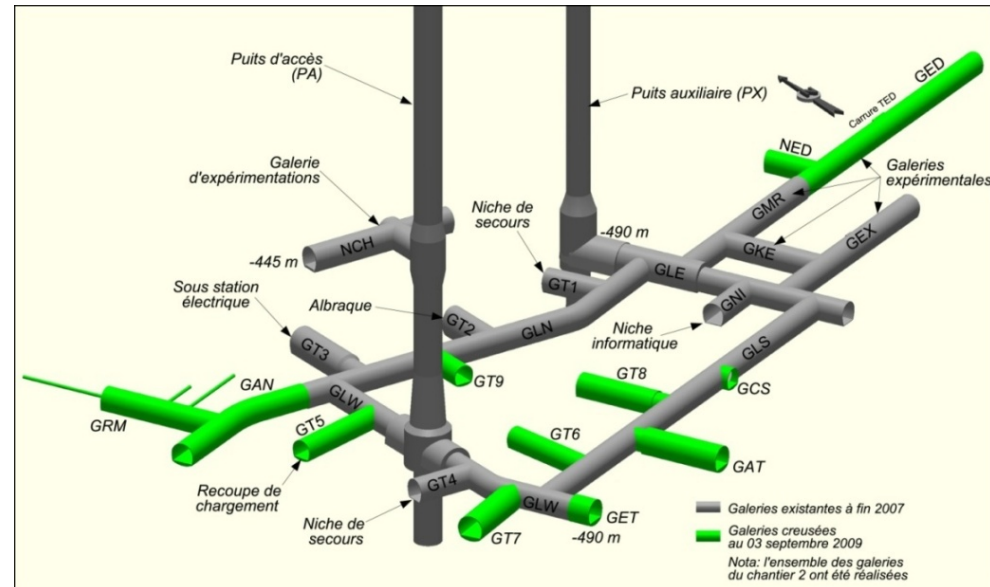
Mineralogy: ~ 45% clay + carbonates and silicates
 Poor water content: < 15%
 No free water, no water flow
 Diffusive transfer only

Demonstration of the favourable properties of the Callovo-Oxfordian layer of the Meuse & Haute Marne Districts for a HLLL waste geological repository

 feasible from a technical standpoint

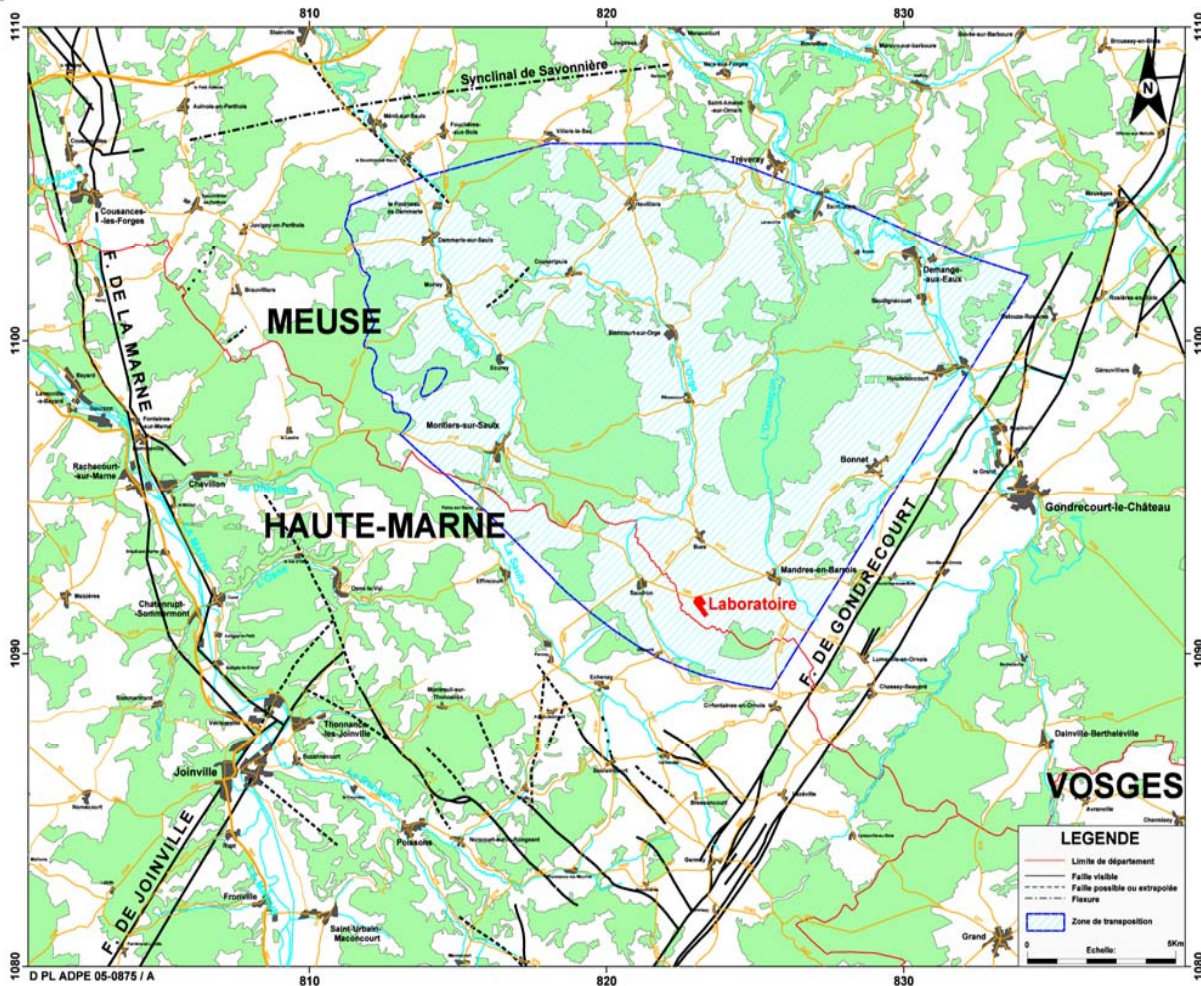
 demonstrable from a scientific standpoint

 safe (its safety may be demonstrated)



Delineation of the Transposition Zone (TZ)

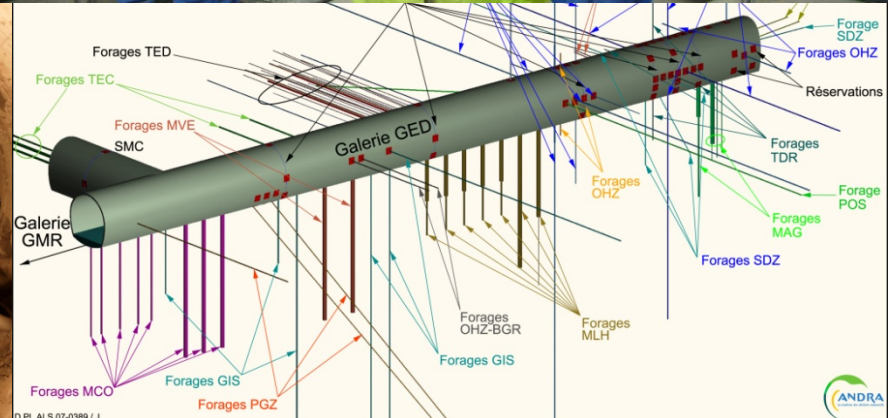
250-km²



- Properties considered as equivalent to those observed in the URL
- Characteristics suitable for the implementation of the repository

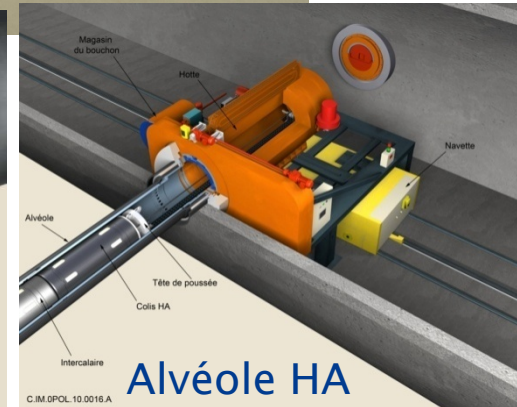
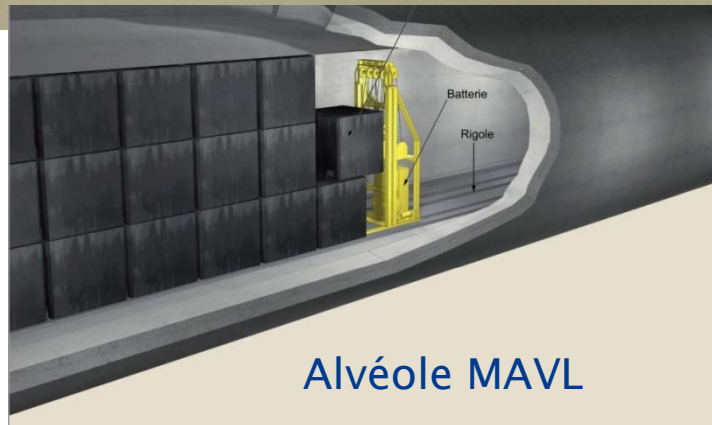
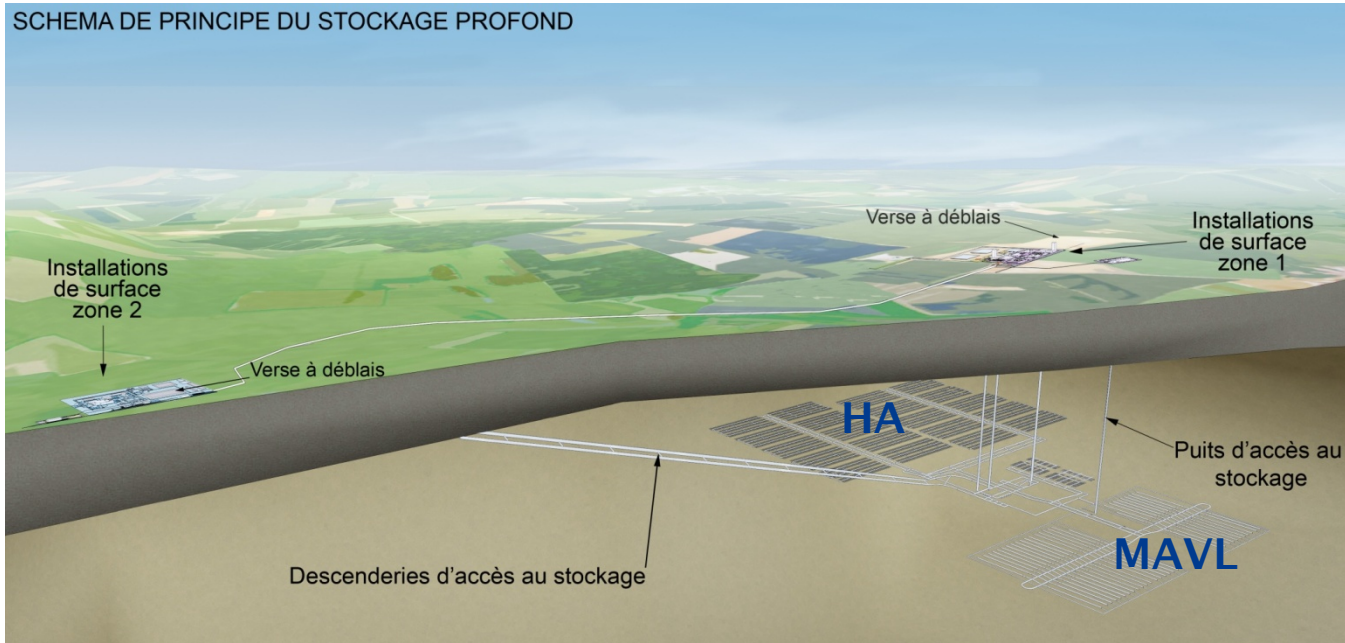
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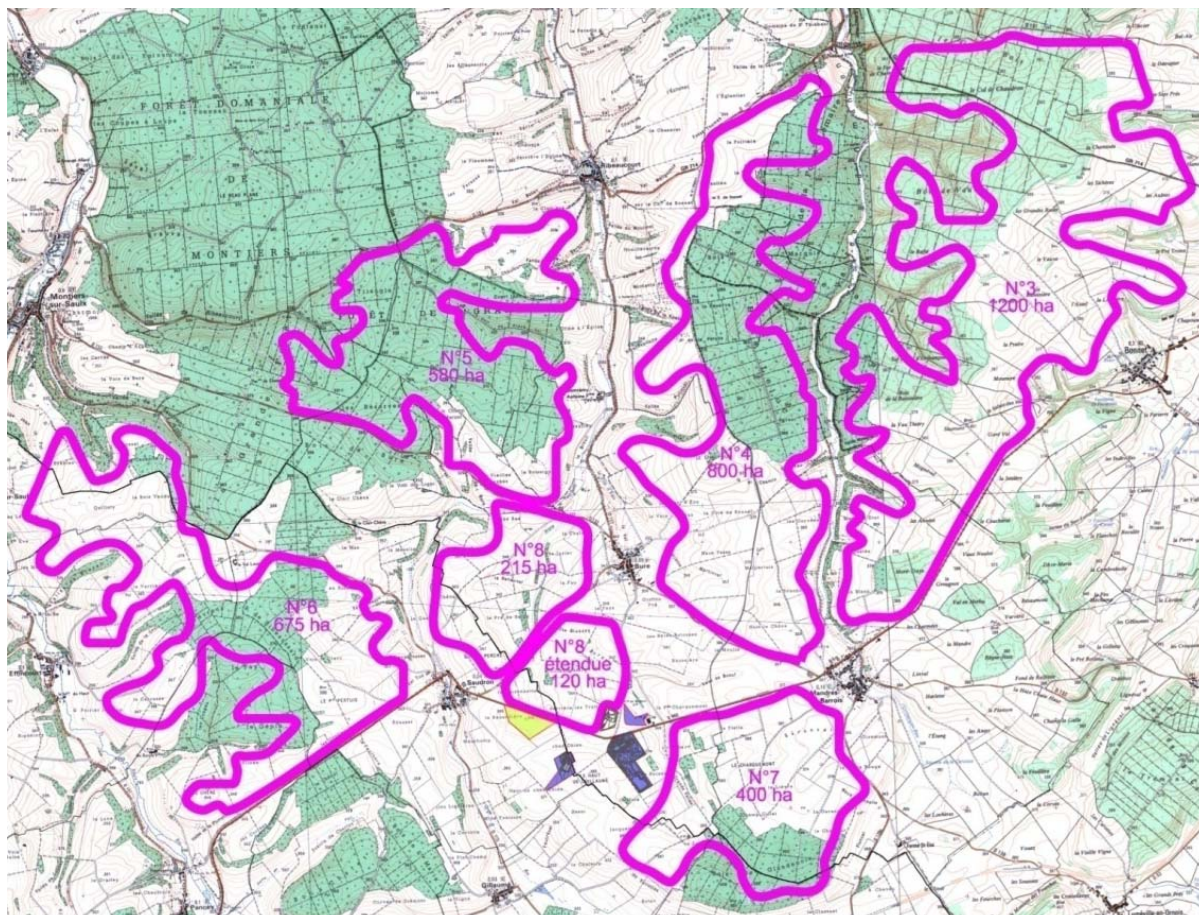
New set of experiments in the Underground Laboratory



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SCHEMA DE PRINCIPE DU STOCKAGE PROFOND





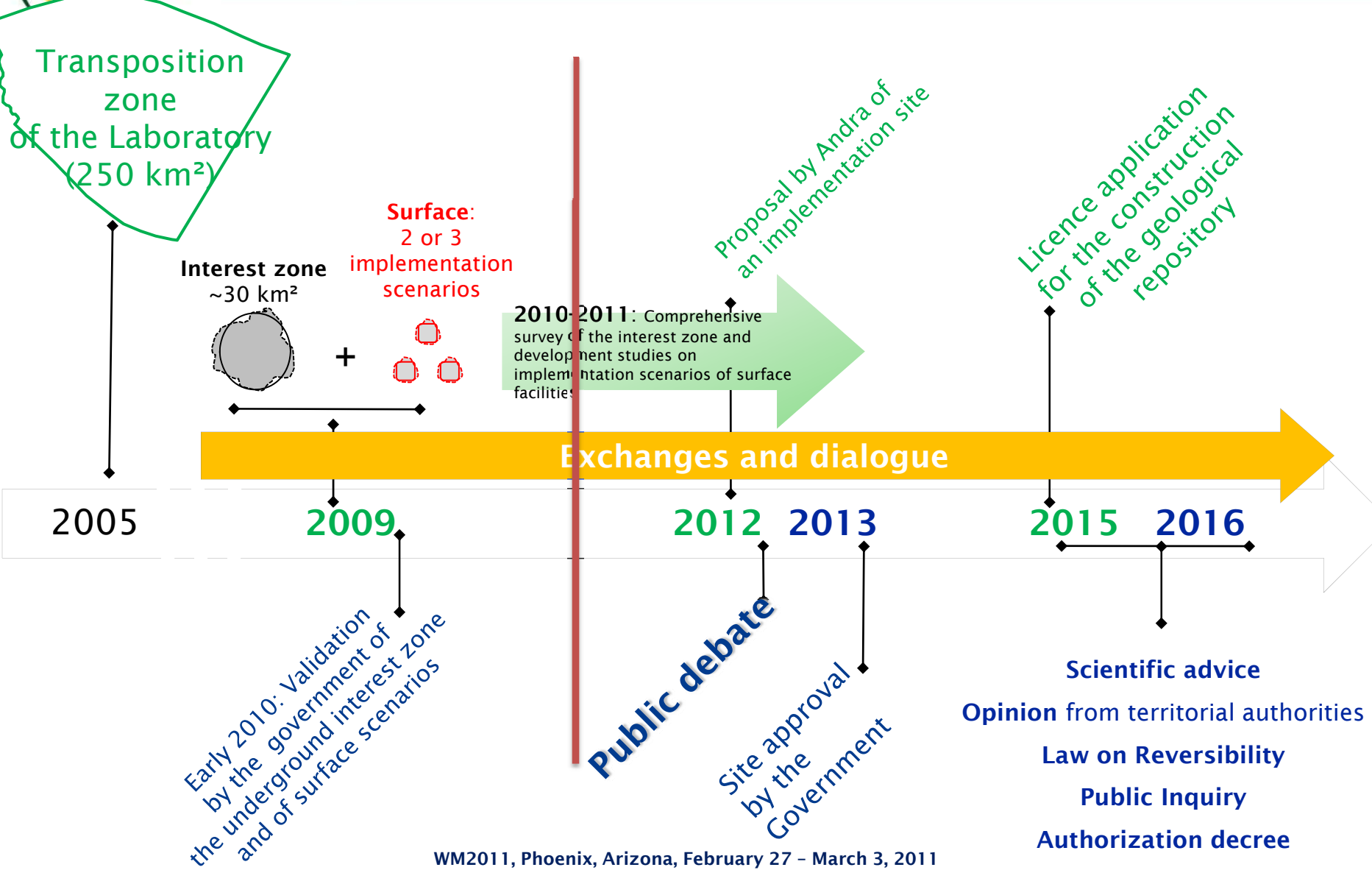
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Geological Disposal: A Project with a High Added Technological Value



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Moving forward: site-selection process



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