



Status of the CIGEO project in France

(CIGEO: Geological Repository Project)

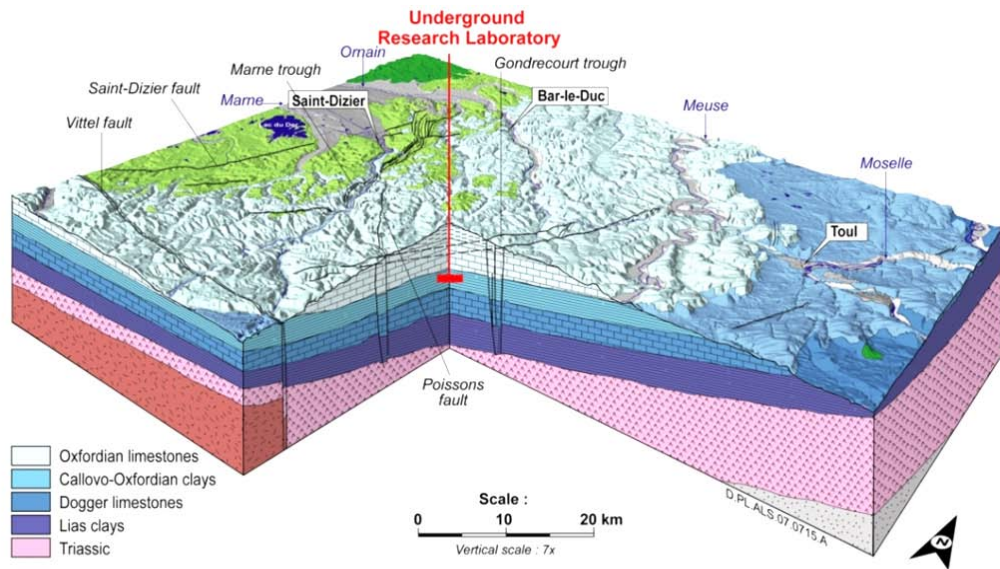
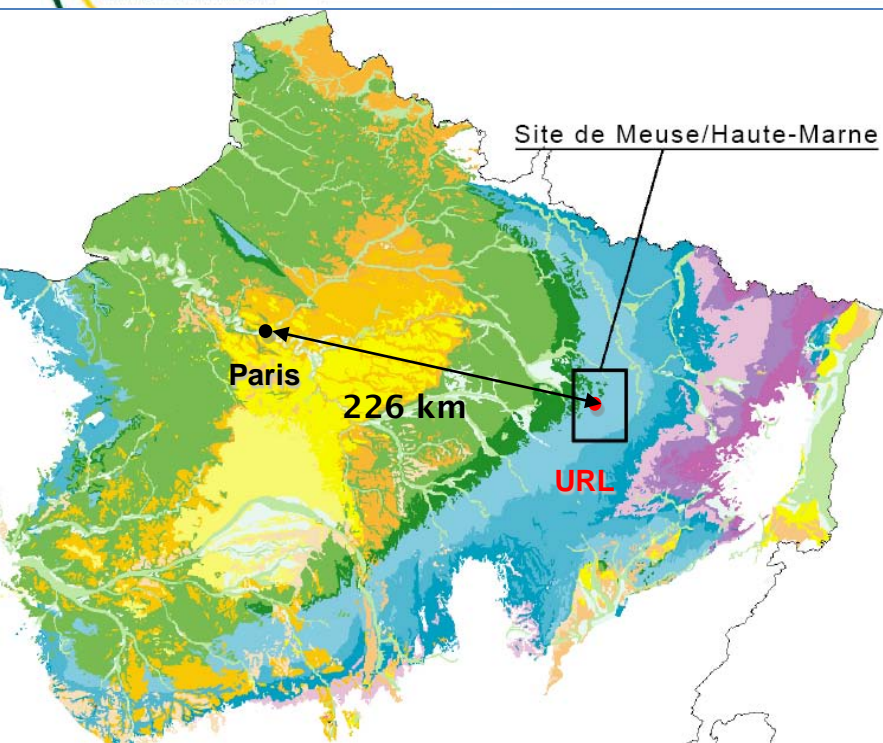
Dr Gérald Ouzounian

Director, International Division

ANDRA

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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

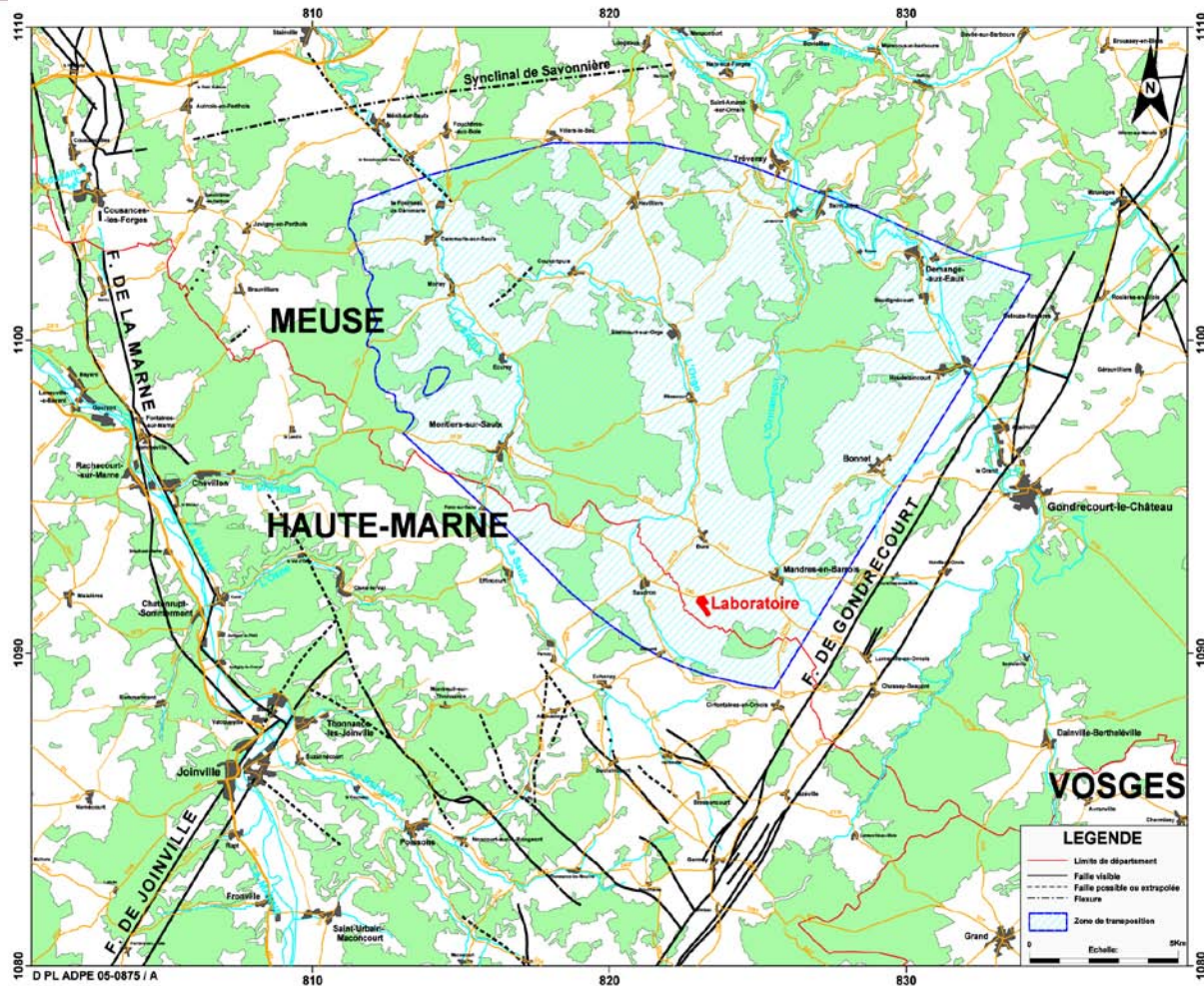
Mineralogy: ~ 45% clay + carbonates and silicates
 Poor water content: < 15%
 No free water, no water flow
 Diffusive transfer only



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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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Additional investigations in the Transposition Zone



New boreholes cored at the Callovo-Oxfordian



New boreholes for improved description of the local hydrogeology



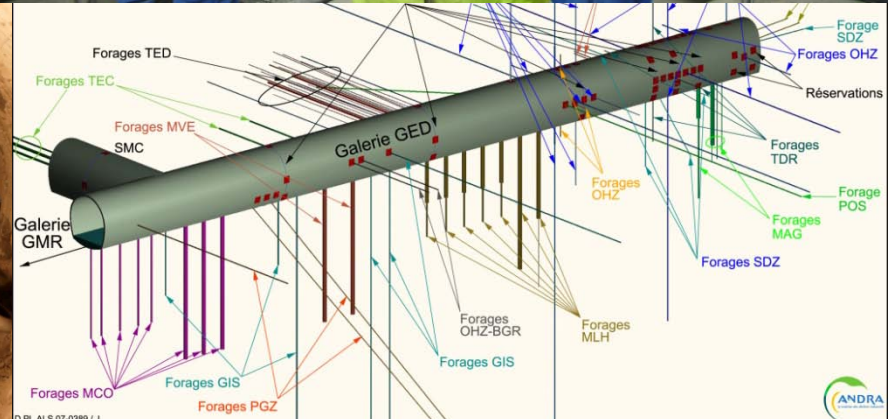
Borehole at the Triassic sandstone for confirming the absence of geothermal resources, and additional scientific studies



Detailed 2D seismic survey

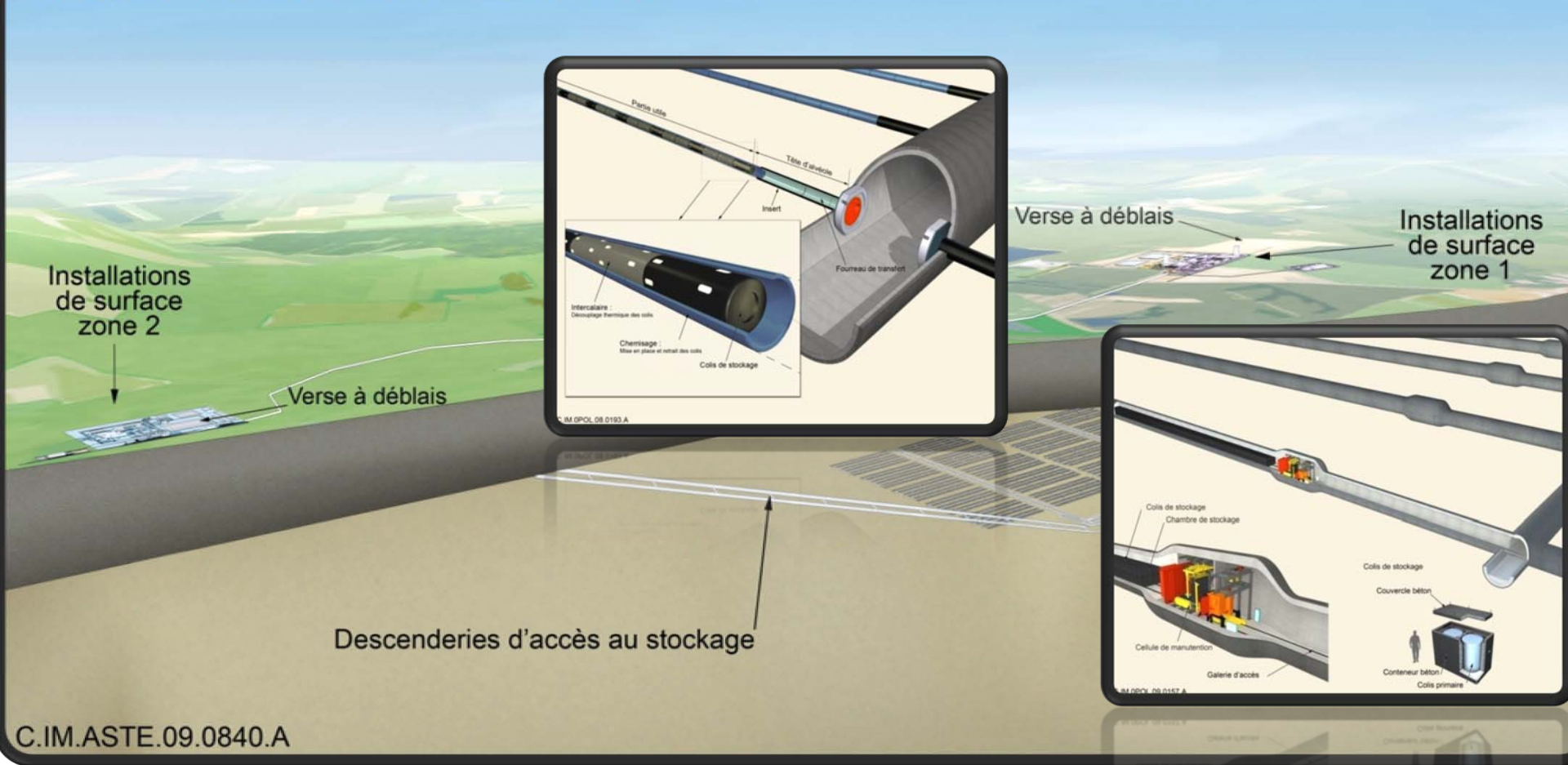


New set of underground experiments in the MHM laboratory



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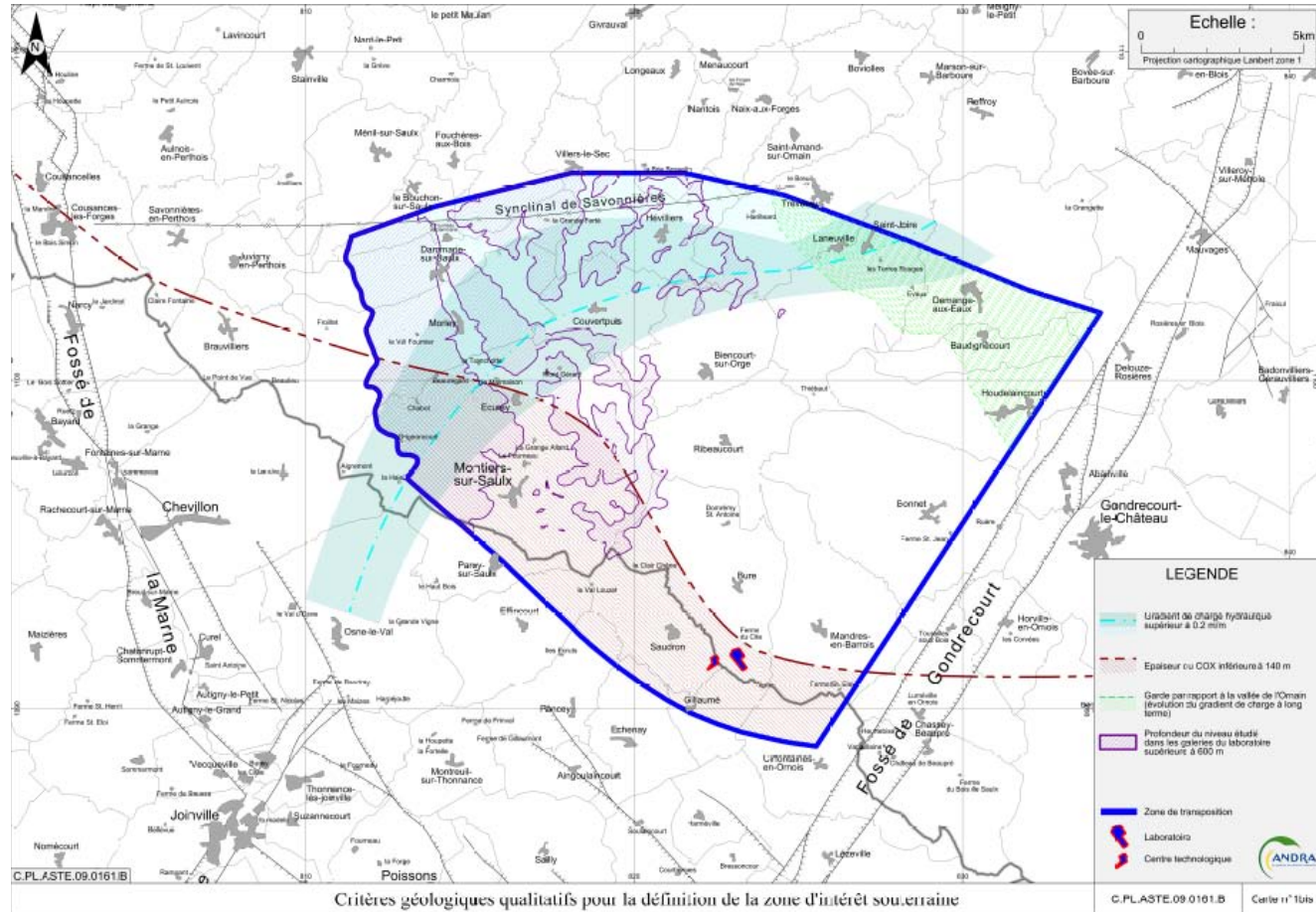
C.IM.ASTE.09.0840.A

From the scientific standpoint

ANDRA Depth

ANDRA Thickness

ANDRA Hydrogeology
(present and future)



ZIRA: more favourable geological zone for detailed investigations

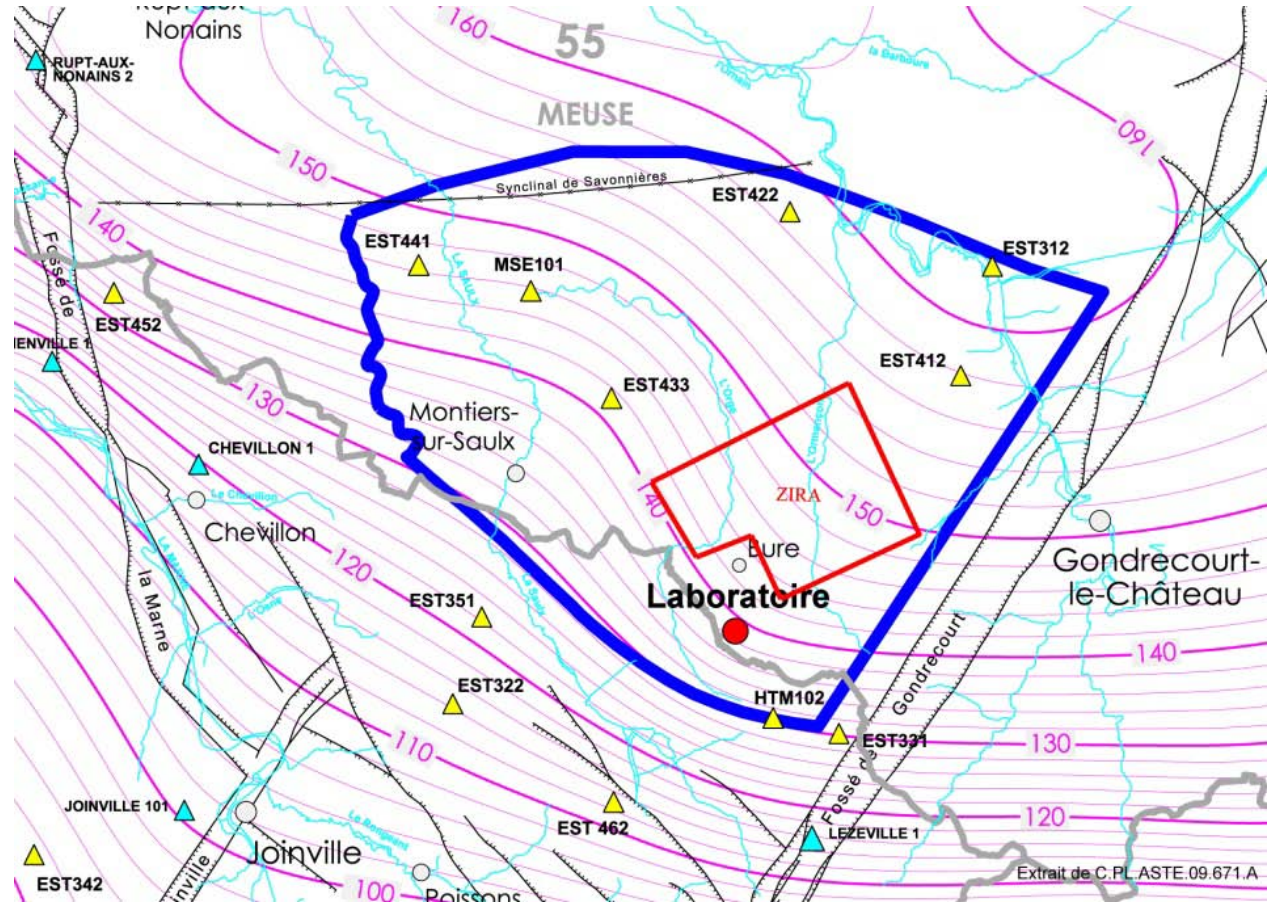
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From the local standpoint

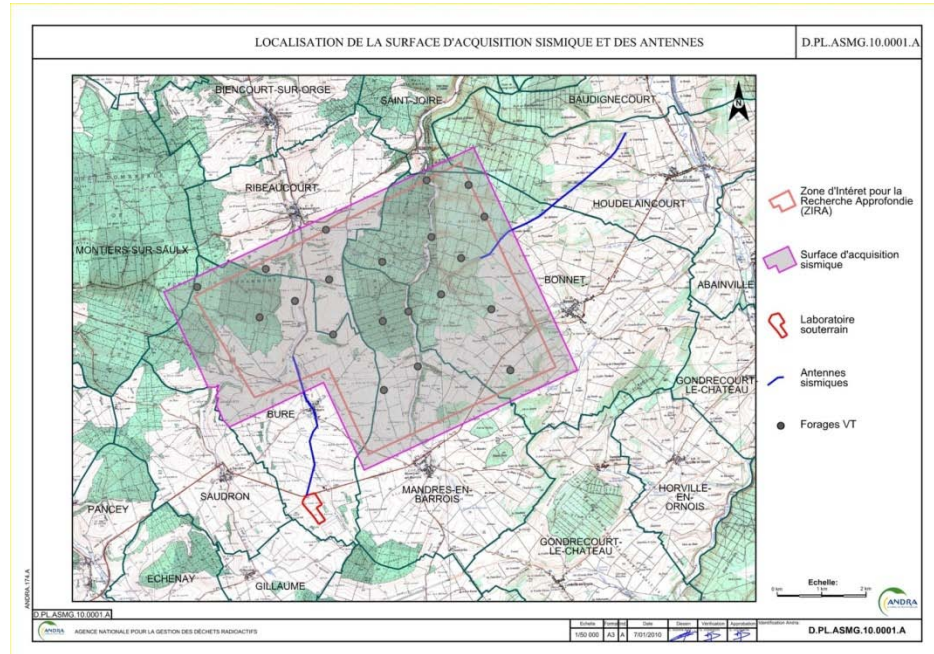
 No village on the top

 Minimum 500 m from villages

 Favour forests zones

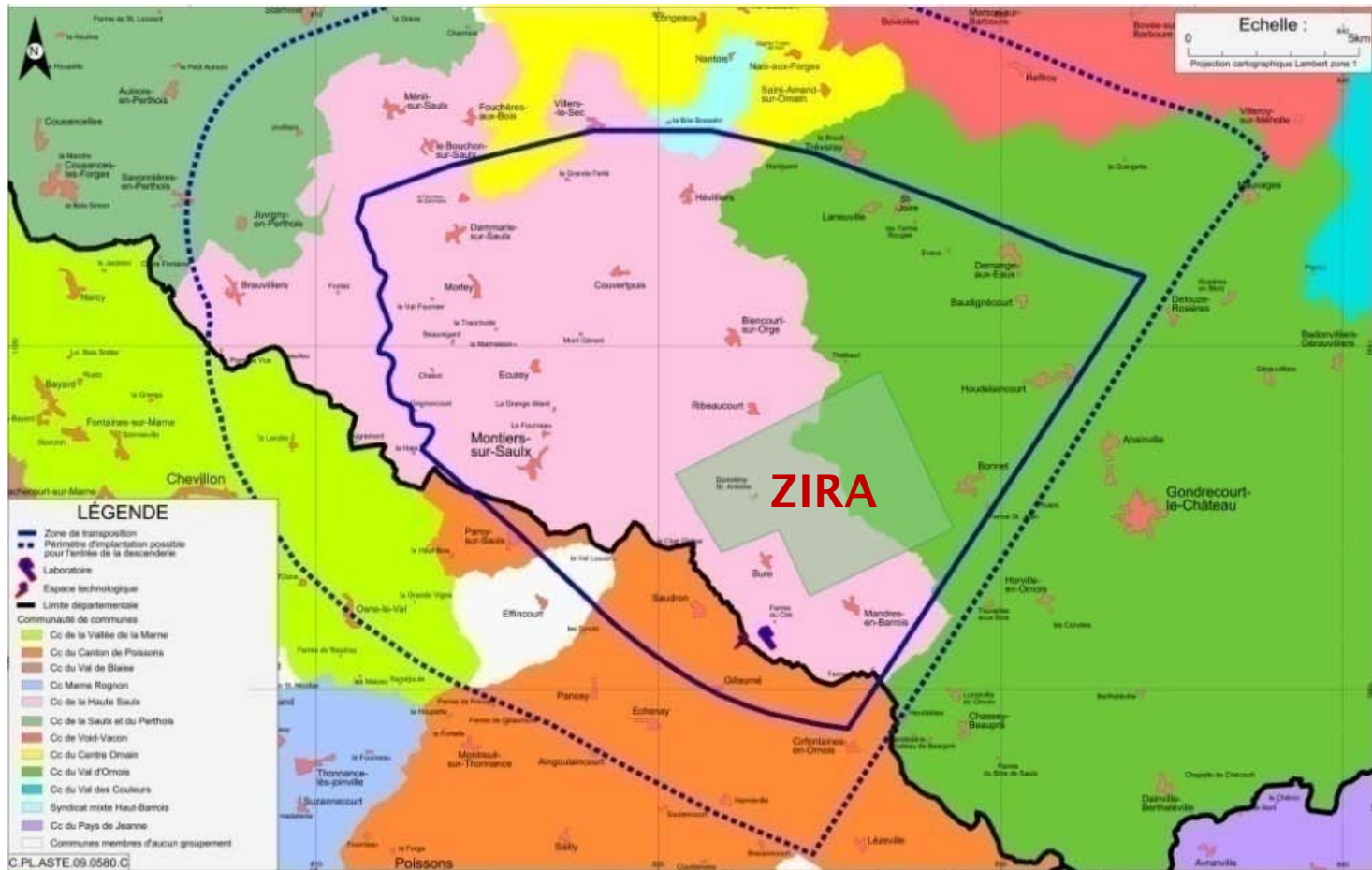


ZIRA: more favourable geological zone for detailed investigations



Detailed reconnaissance campaign within the ZIRA (37 km²) from May to July 2009

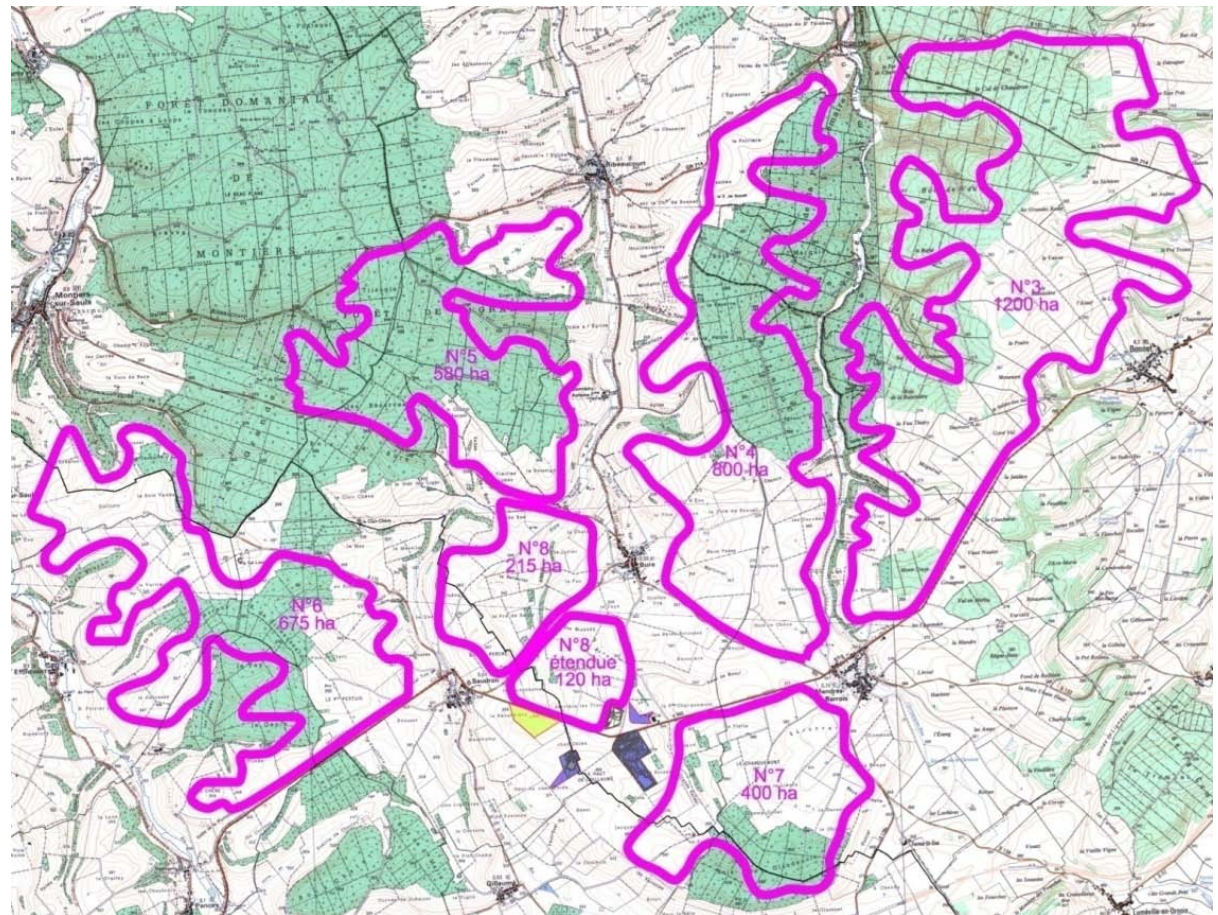
Moving to the location of surface installations (ZIIS)



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New dialogue begins with local players starting October 2010 to initiate discussions about surface facility installation scenarios

Detailed introduction to these scenarios within the context of the public debate to be held in late 2012.

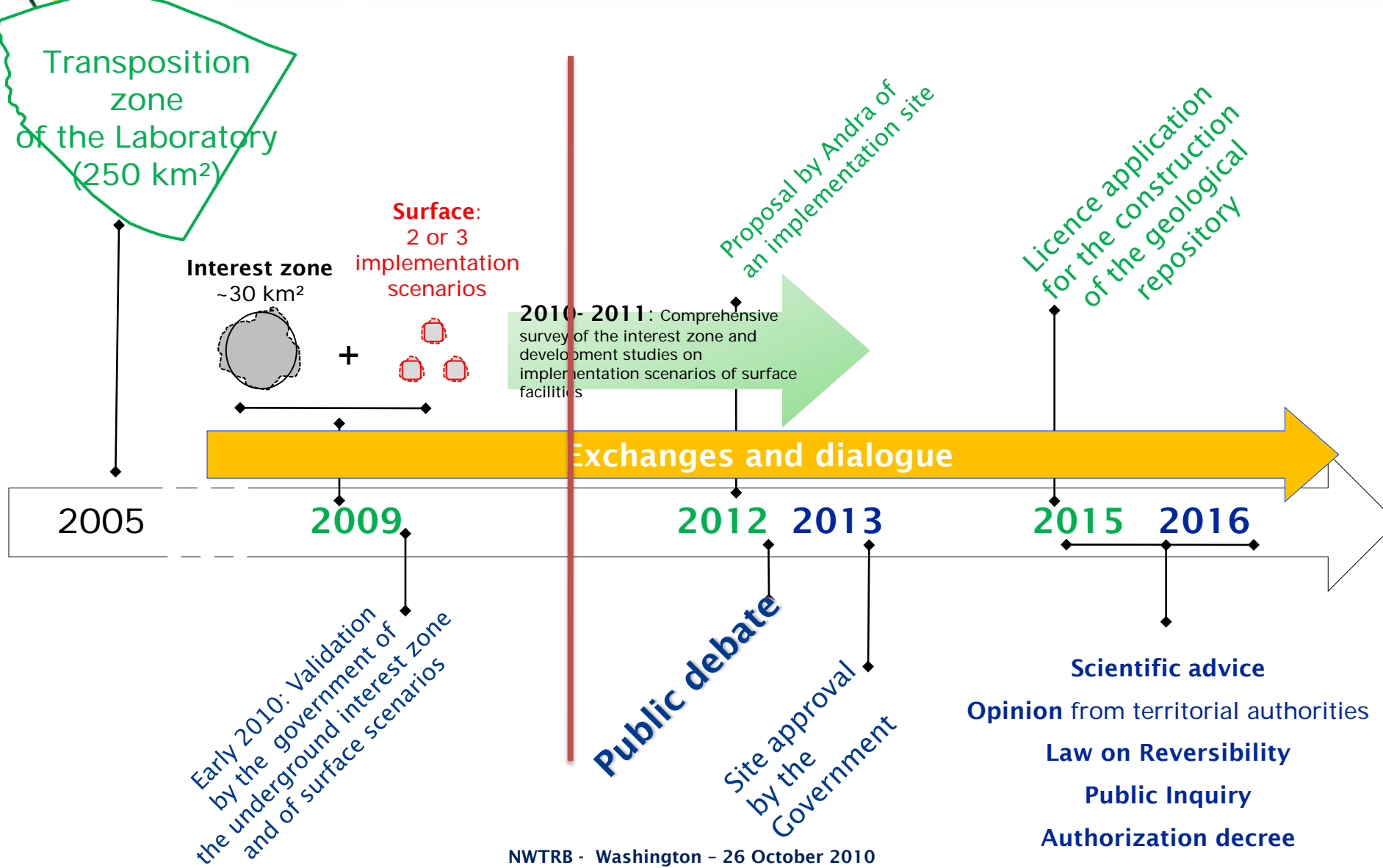


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Moving forward: site-selection process



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