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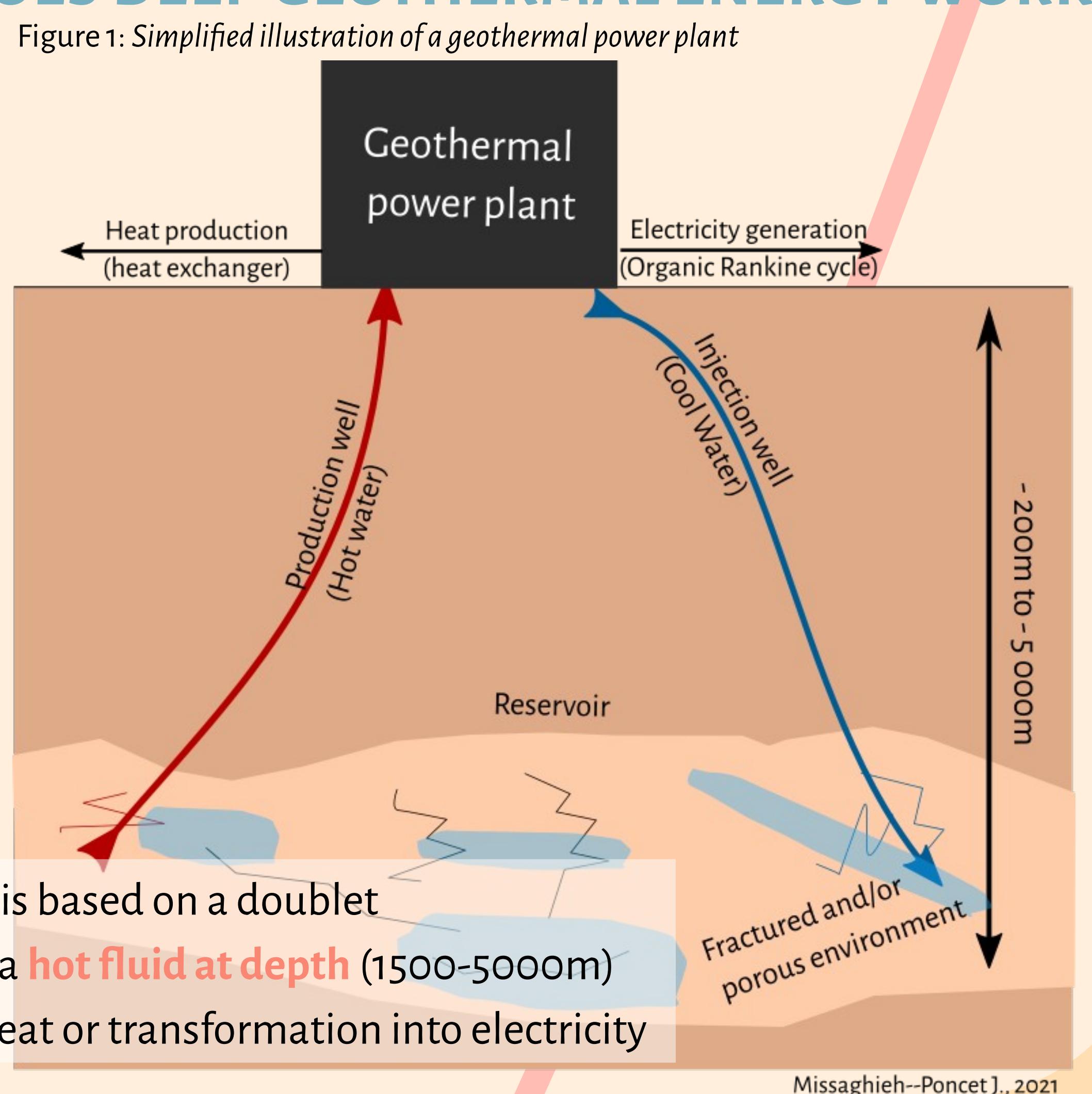
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① INTRODUCTION

- **Energy transition.** Geothermal energy presented as unlimited, "green" and no intermittency energy.
- The technology has been **developed in sedimentary basins** (i.e. Paris Basin).
- But needs to adapt to **new geological environments**.
- We are interested in the **difficulties of deploying geothermal energy outside of favourable environments**

② How DOES DEEP GEOTHERMAL ENERGY WORK?



③ CONCEPTUAL FRAMEWORK

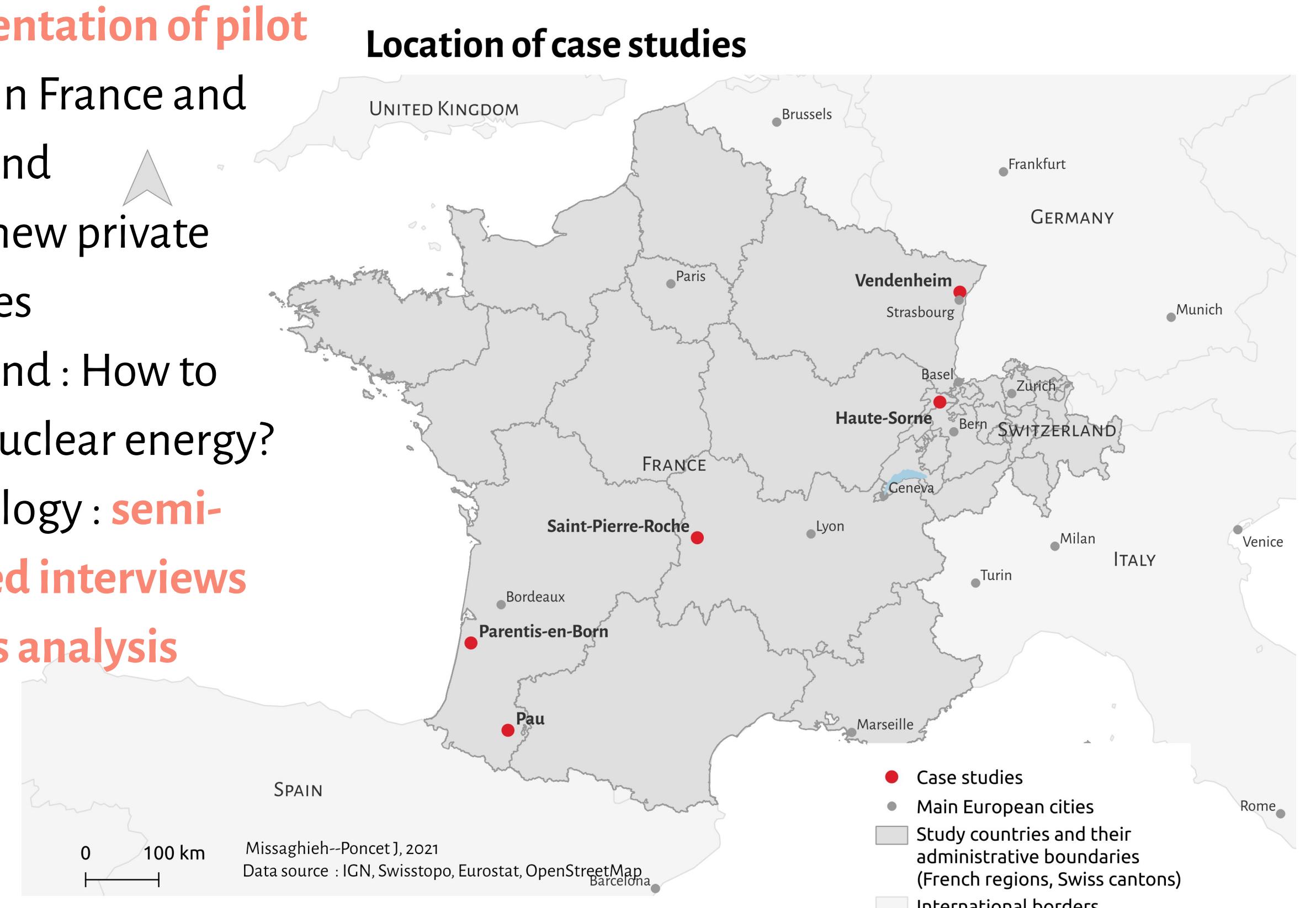
→ The **subsoil is becoming politicized** (Arnauld De Sartre, Chailleux 2021).

→ **Verticalization territories:** Greater awareness of the subsoil's existence and the necessity to 'secure' against seismic risk (Bobbette, Donovan 2019).

→ **Sociology of translation** (Callon 1986): help to understand the debates between different actors.

④ METHODOLOGY AND FIELDWORK

Figure 2: Location of case studies



⑤ CONSTRUCTION OF A VERTICAL TERRITORY

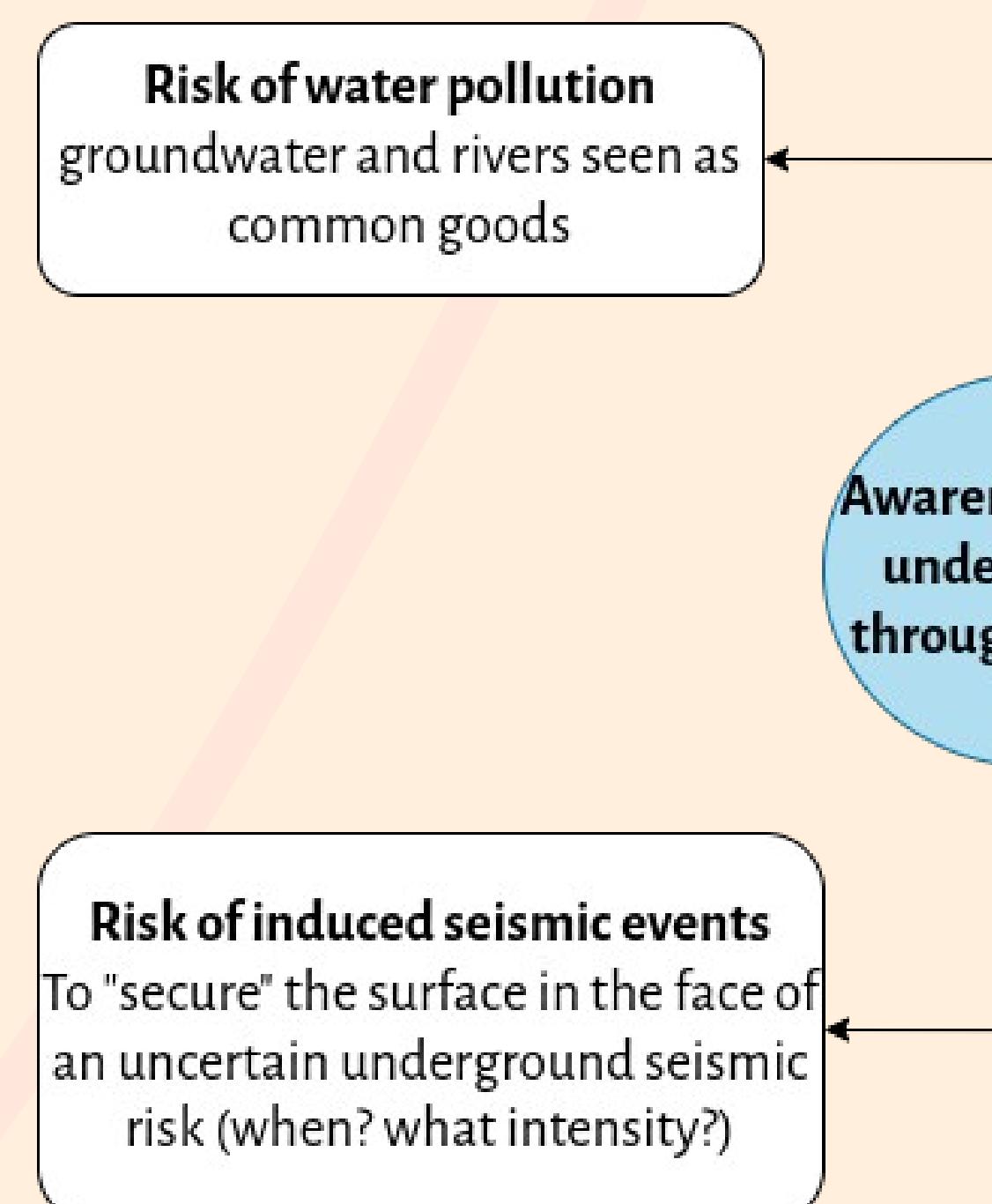


Figure 3: Main significant results

Verticalization of the territory

the politicization of the underground raises questions about energy transition policies

Incongruity between local and national scales
resulting in public debates revealing mistrust.

Technical democracy
Citizens want to understand technology better and find a better compromise between the aspirations of the energy transition and risk mitigation.

Lack of subsoil competences
In France, the state's ability to control deployment has been lost, whereas in Switzerland, the responsibility has been delegated to the local level.

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BOBBETTE, Adam et DONOVAN, Amy (éd.), 2019. *Political Geology: Active Stratigraphies and the Making of Life*. 1st ed. Cham : Springer International Publishing-Imprint: Palgrave Macmillan. ISBN 978-3-319-98189-5. 333.707
CALLON, Michel, 1986. Éléments pour une sociologie de la traduction: la domestication des coquilles saint-jacques et des marins-pêcheurs dans la baie de saint-Brieuc. *L'Année sociologique* (1940/1948-). 1986. Vol. 36, pp. 169-208.

FOR FURTHER INFORMATION

Laboratory *Transitions énergétiques et environnementales* website: <https://tree.univ-pau.fr/>
Research project *Gouvernance élargie pour les filières d'ingénierie du sous-sol* website: <https://www.gefiss.eu/>
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