



This Project has received funding from the European Union's European Atomic Energy Community's (Euratom) FP7 under grant agreement n°269905, the LUCOEX project.

LUCOEX

Evaluation of how the LUCOEX results can be utilized by less-advanced programs

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Objective

- ▶ Investigate if and in which way results from the LUCOEX project can be utilized by countries in EU with less-advanced radioactive waste management programs, with respect to high-level waste and spent fuel.

Method

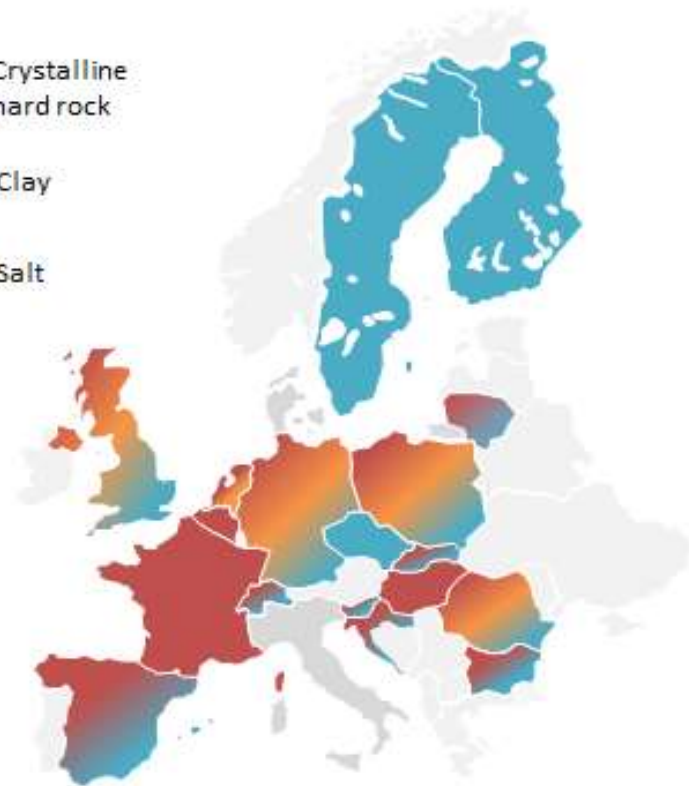
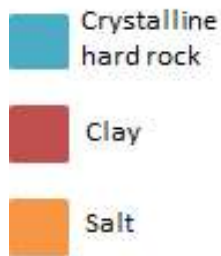
- ▶ Information processing and interviews. International contacts have been made through e-mail to gather information about radioactive waste management in European countries.

Background

- ▶ High-level waste and spent fuel
- ▶ Geological disposal
- ▶ LUCOEX project
- ▶ Two concepts in hard crystalline rock and two concepts in clay

Results

Suitable host rock for deep geological repository

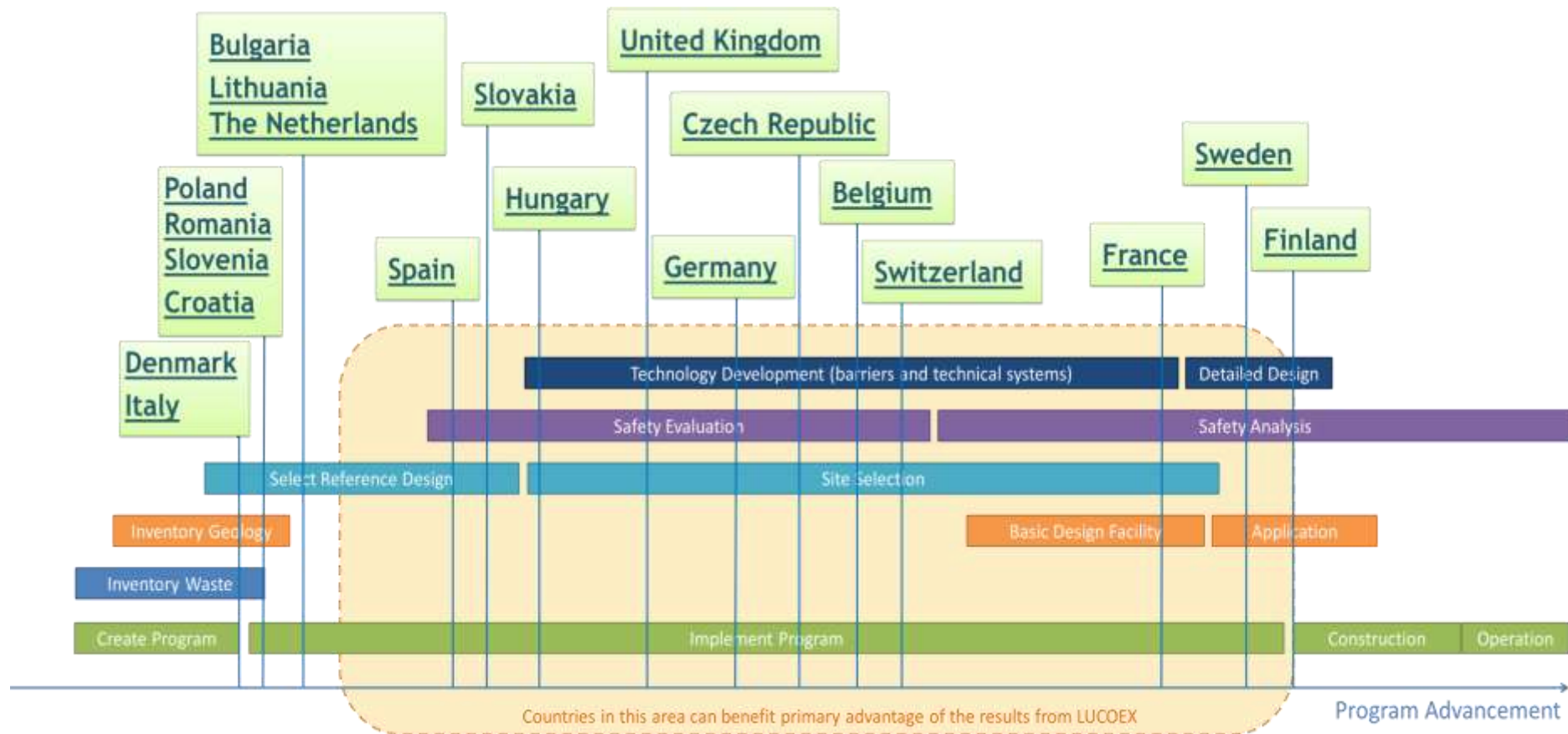


Country	Geological inventory for deep geological repository
Belgium	Clay
Bulgaria	Clay, Crystalline rock
Croatia	
Denmark	
Czech Republic	Crystalline rock
Finland	Crystalline rock
France	Clay
Germany	Clay, Crystalline rock, Salt
Hungary	Clay
Italy	
Lithuania	Clay, Crystalline rock
The Netherlands	Clay, Salt
Poland	Clay, Crystalline rock, Salt
Romania	Clay, Crystalline rock, Salt
Slovakia	Clay, Crystalline rock
Slovenia	Clay, Crystalline rock
Spain	Clay, Crystalline rock
Sweden	Crystalline rock
Switzerland	Clay, Crystalline rock
United Kingdom	Clay, Crystalline rock, Salt

Countries with planned start year for operation

Country	Year for start of operation of deep geological repository
Belgium	
Bulgaria	
Croatia	
Denmark	
Czech Republic	2065
Finland	2022
France	2025
Germany	2035
Hungary	2064
Italy	
Lithuania	
The Netherlands	
Poland	
Romania	2055
Slovakia	
Slovenia	2065
Spain	
Sweden	2029
Switzerland	2050
United Kingdom	

How far the member states have come in their repository work



Conclusion

- ▶ All of the countries have made a nuclear waste and spent fuel inventory.

- ▶ Belgium, Bulgaria, France, Germany, Hungary, Lithuania, the Netherlands, Poland, Romania, Slovakia, Slovenia, Spain, Switzerland and United Kingdom consider clay as an option for host rock.
- ▶ Bulgaria, Czech Republic, Finland, Germany, Lithuania, Poland, Romania, Slovakia, Slovenia, Spain, Switzerland and United Kingdom consider crystalline rock as an option for host rock.

- ▶ The countries that have made significant progress in their radioactive waste management programs, and therefore are in a position where results from the LUCOEX project can be utilized in a perspicuous future are Spain, Slovakia, Hungary, United Kingdom, Germany, Czech Republic and Belgium.

- ▶ Bulgaria, Lithuania, Poland, Romania, the Netherlands, Slovenia and Croatia can utilize the results from the LUCOEX project to get information of one concept to aim for in the future.

Questions?

Thank you!