

STRATEGIC STUDY OPTI

Technical insights and lessons learned



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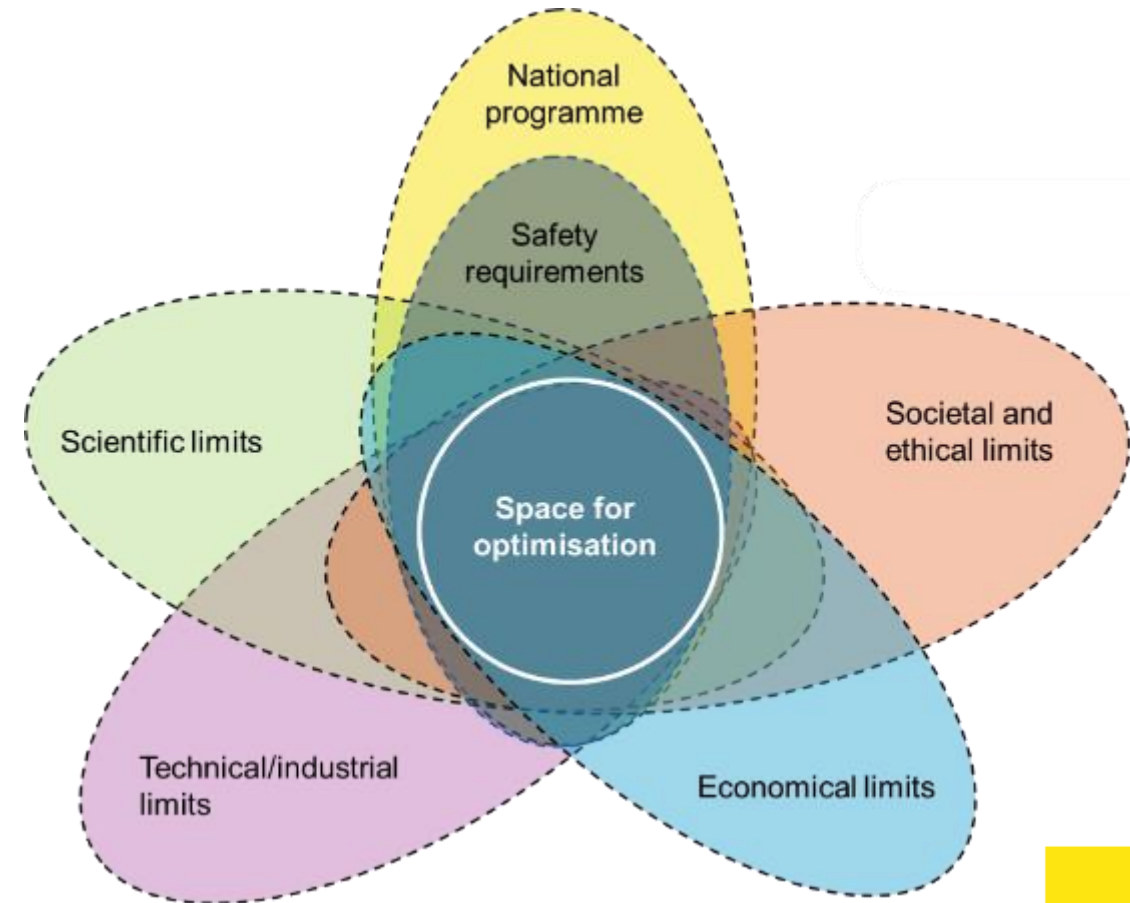


HLW REPOSITORY OPTIMISATION INCLUDING CLOSURE

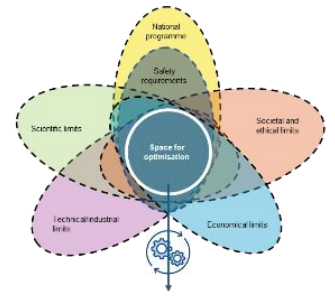
- Optimisation is a continuous and iterative process throughout the entire repository lifecycle
- The objective is to achieve the highest practicable level of protection and safety
- Optimisation takes place within prevailing circumstances, including regulatory, technical, geological, economic and societal constraints
- The overlap creates the space for optimisation
- Repository optimisation requires balancing multiple and potentially competing objectives through transparent decision-making
- Interactions between repository components necessitate a holistic, system-level approach supported by multi-criteria assessment

PREVAILING CIRCUMSTANCES

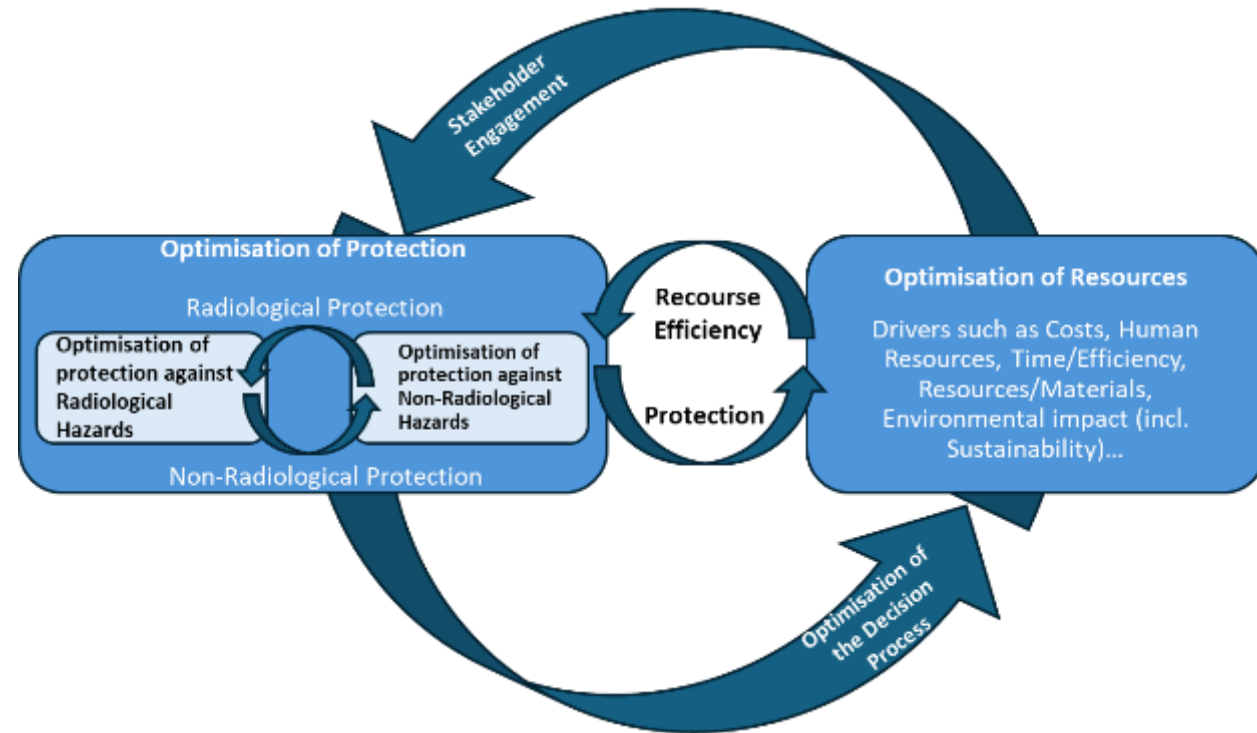
- Optimization is always aimed at achieving the best possible level of protection through a continuous iterative process, taking account of the **prevailing circumstances**
- The prevailing circumstances include, in particular, non-technical factors such as costs, societal considerations, human resources, and the national and international political context
- Each factor affecting the optimization of the GDF is associated with its own relevant circumstances
- These circumstances continue to evolve over time



OPTIMISATION PROCESS



- All prevailing circumstances constrain the space for optimisation within which the optimisation process can be carried out
- The process may relate to
 - (a) the optimisation of protective measures and resources
 - (b) the decision-making process
- The optimisation of one component of a GDF, or even of a specific property of a component, may affect other components
- Such interactions require a holistic approach to optimization
- The potential impacts of optimisation options on the overall GDF are assessed and compared iteratively using multi-criteria analyses



HLW REPOSITORY OPTIMISATION INCLUDING CLOSURE - OPTI

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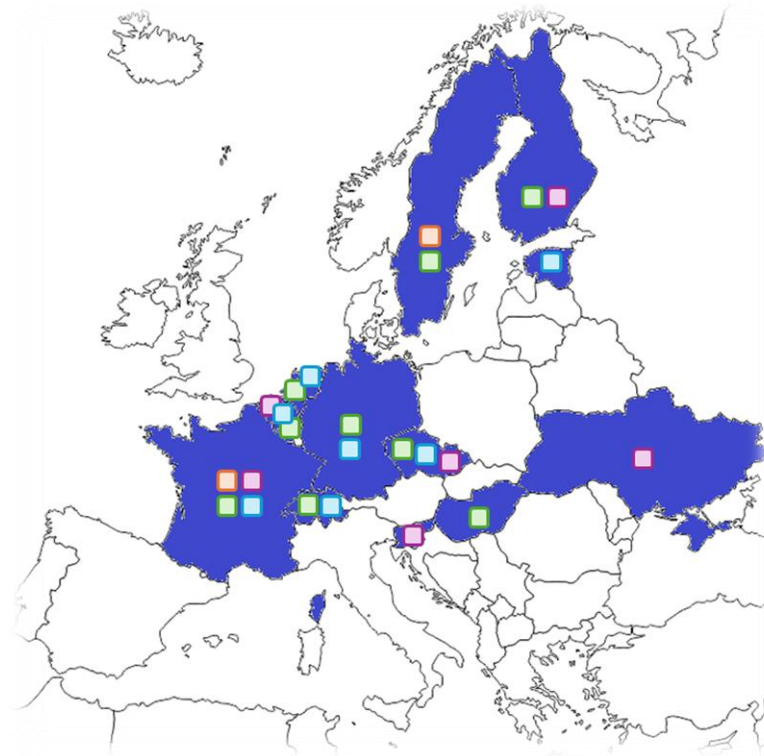
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