



BUNDESGESELLSCHAFT
FÜR ENDLAGERUNG

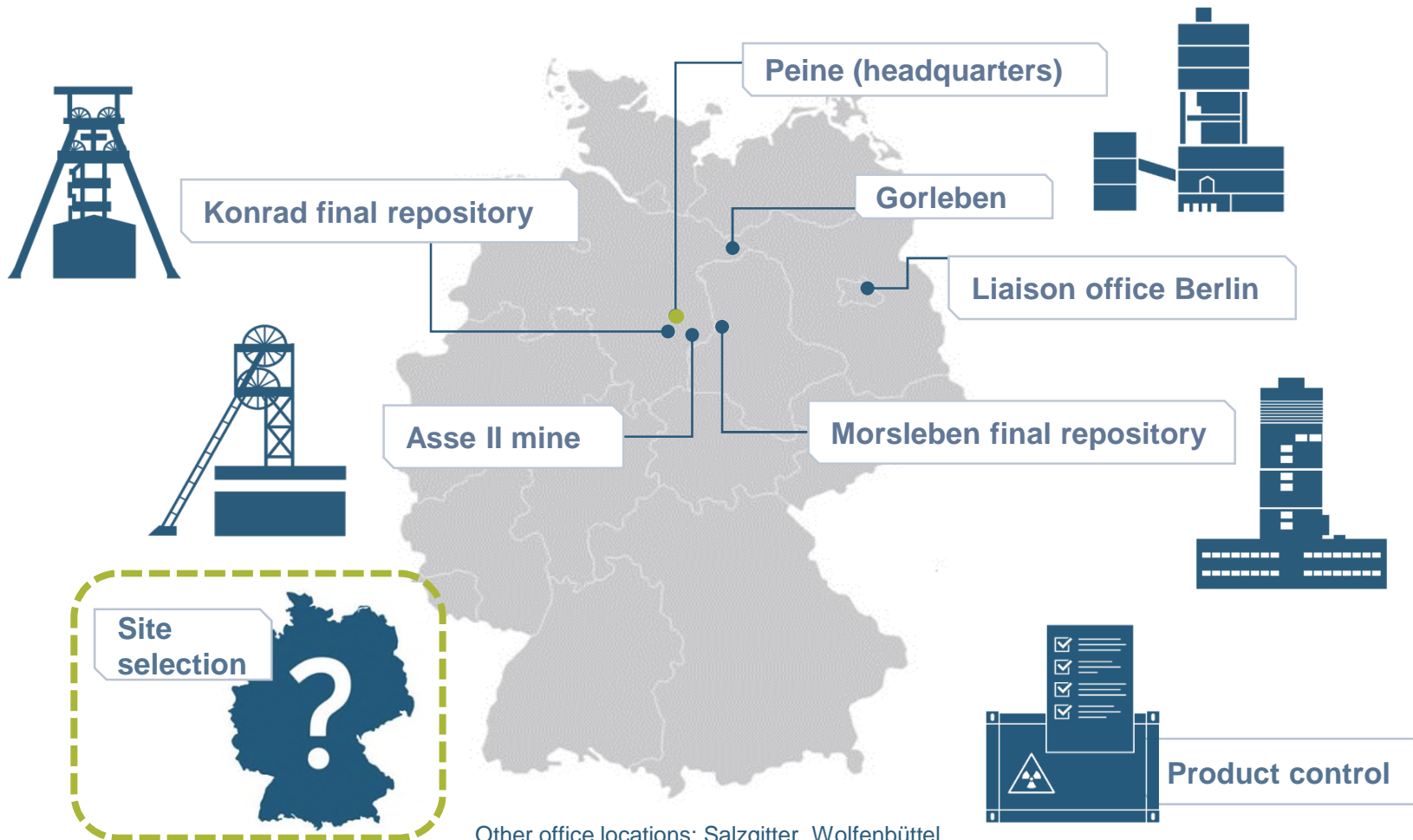
URS FINAL MEETING

Overview of the Site Selection Procedure

MERLE BJORGE

06.02.2025, Potsdam

SITE SELECTION DIVISION (STA)



Short profile: STA

Head of Division: Dr. Lisa Seidel

Approx. 150 employees

5 departments:

- Project Planning (VM)
- Site Investigation (ST)
- Safety Assessments (SU)
- Site Exploration (EK)
- Final Repository Planning (EP)

2 executive departments:

- Quality Assurance (QS)
- Committee Relations (GB)

SITE SELECTION PROCEDURE

Specific requirements in Germany

- Find most-suitable site (not just any suitable site)
- Three host rocks
- 1 million years
- Heterogeneous data availability, lack of digitalization
- Transparency, traceability, and involvement of the public
- Many different stakeholders



Crystalline rock



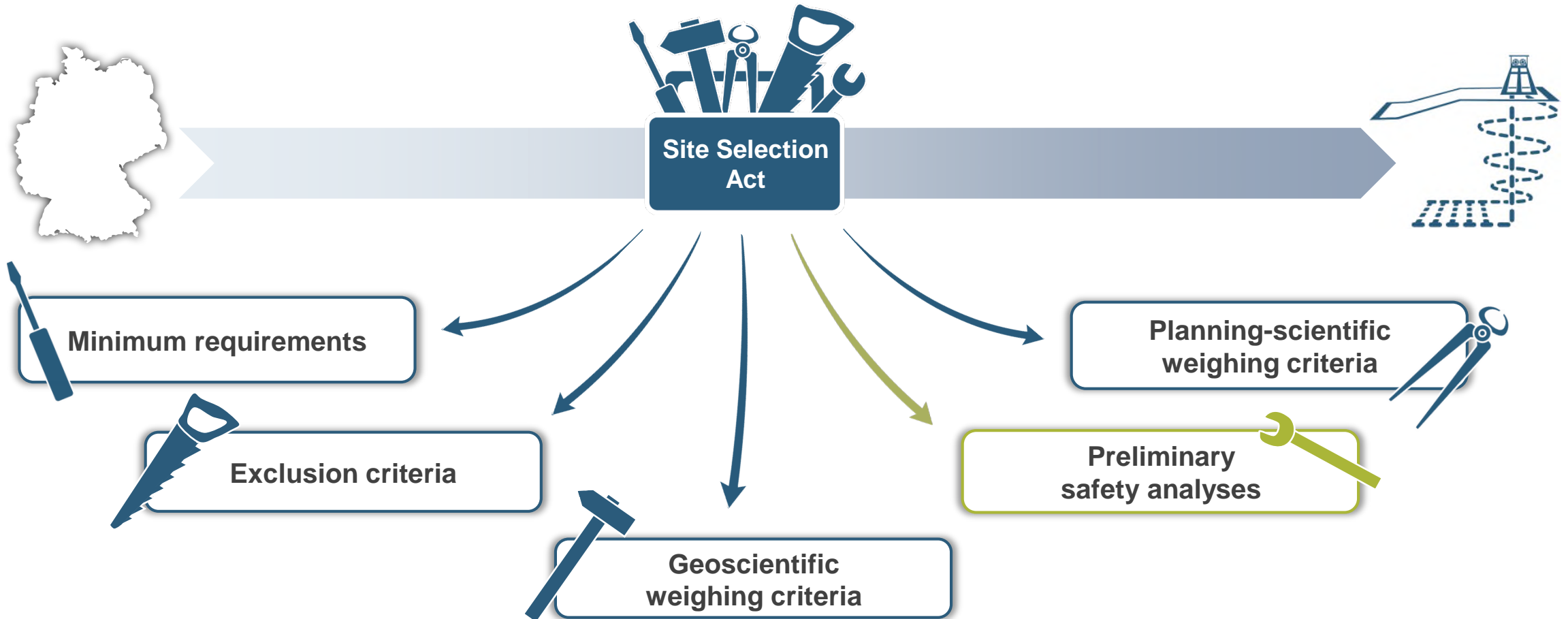
Rock salt



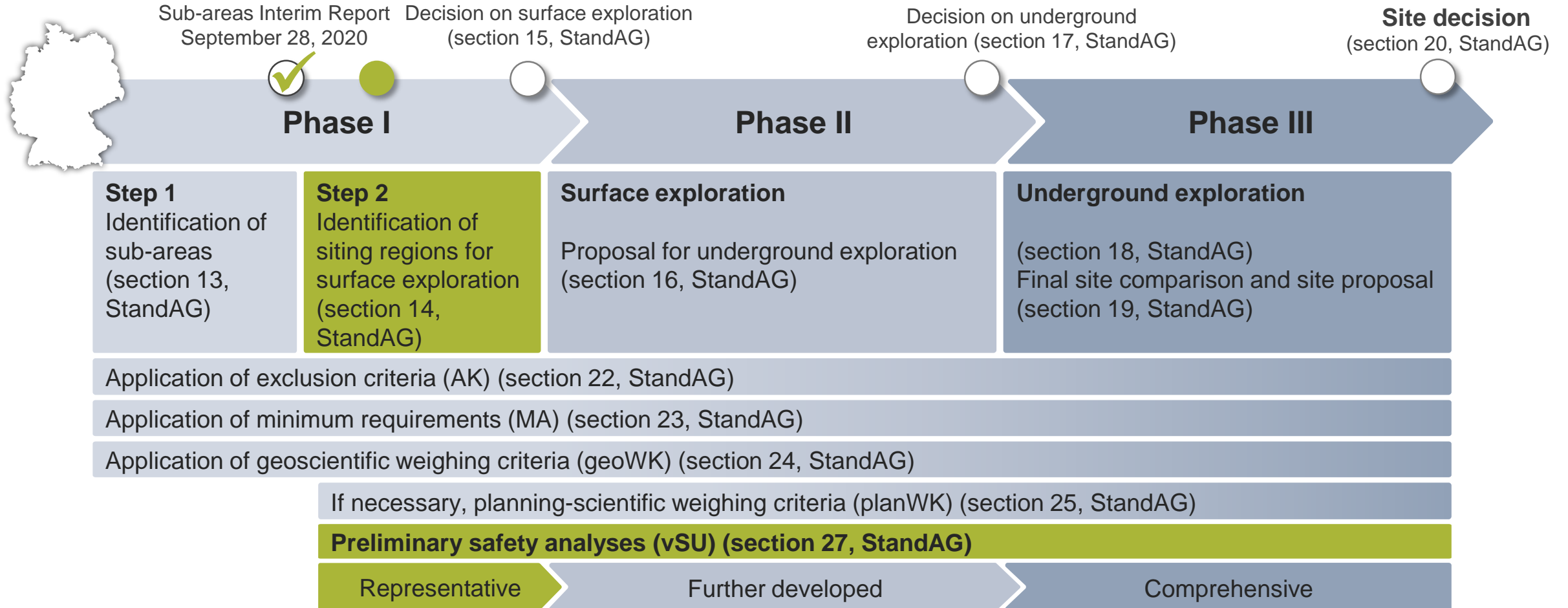
Claystone

SITE SELECTION PROCEDURE

Tools in the Site Selection Procedure



PHASES OF THE SITE SELECTION PROCEDURE



STEP 1, PHASE I

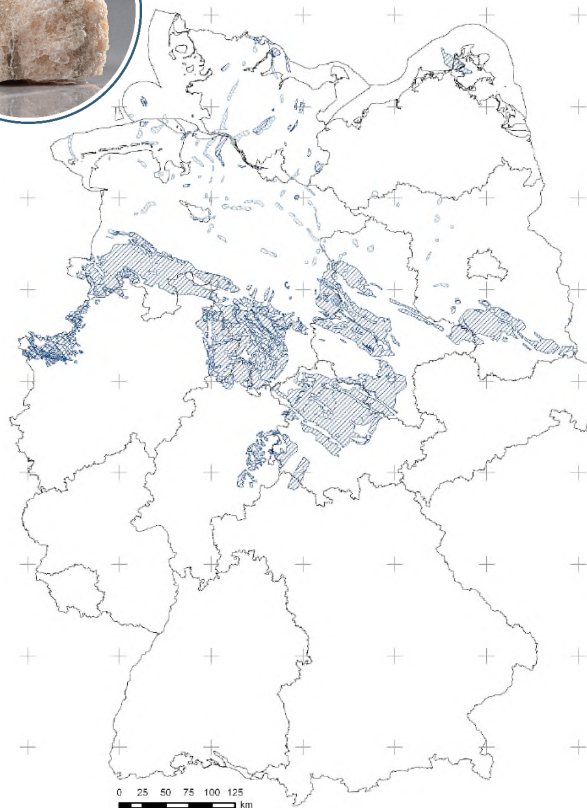
Results of Step 1, Phase I – sub-areas



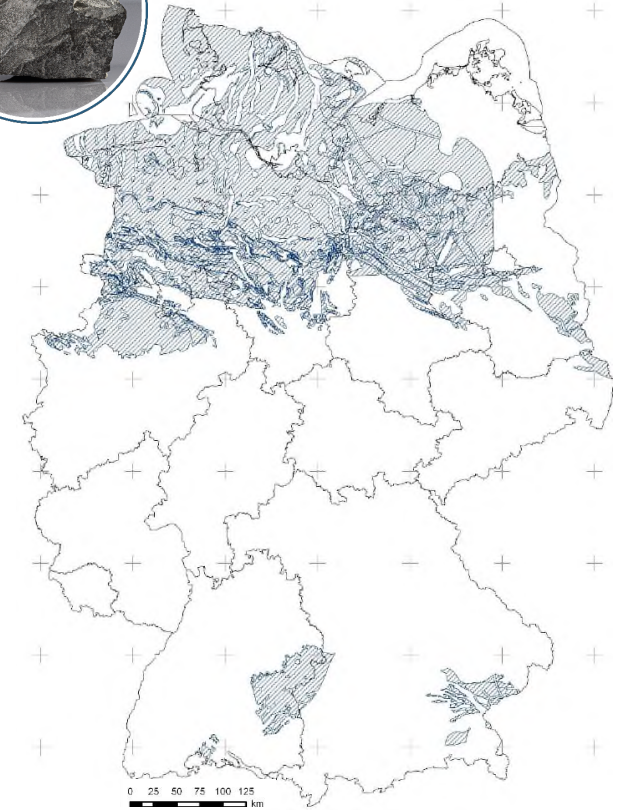
Crystalline rock
(7 sub-areas)



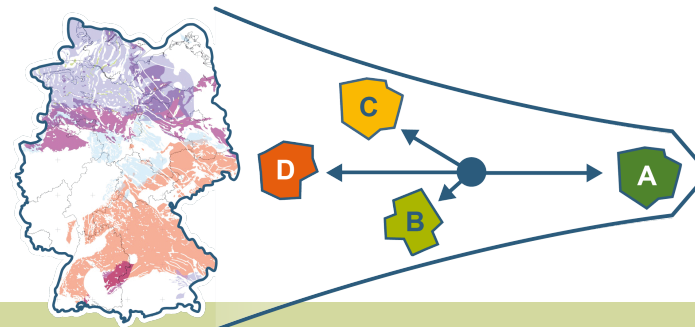
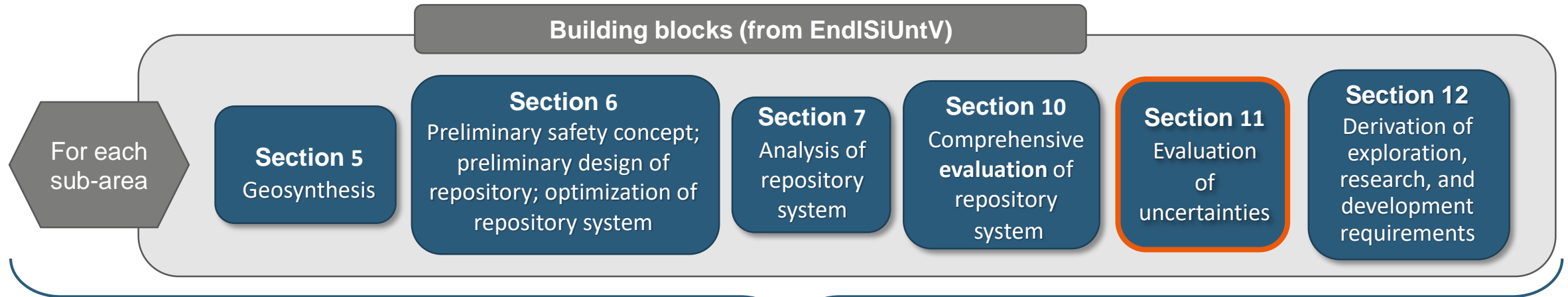
Rock salt
(74 sub-areas)



Claystone
(9 sub-areas)

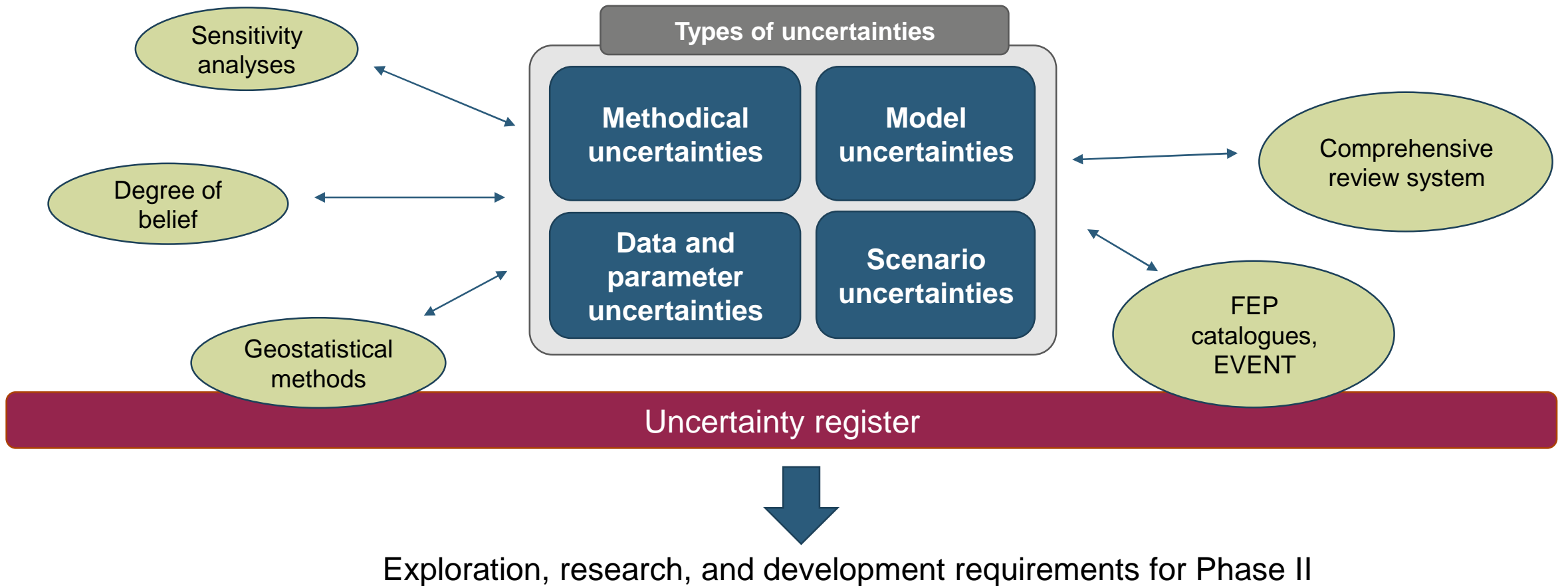


THE REPRESENTATIVE PRELIMINARY SAFETY ASSESSMENTS (rvSU)

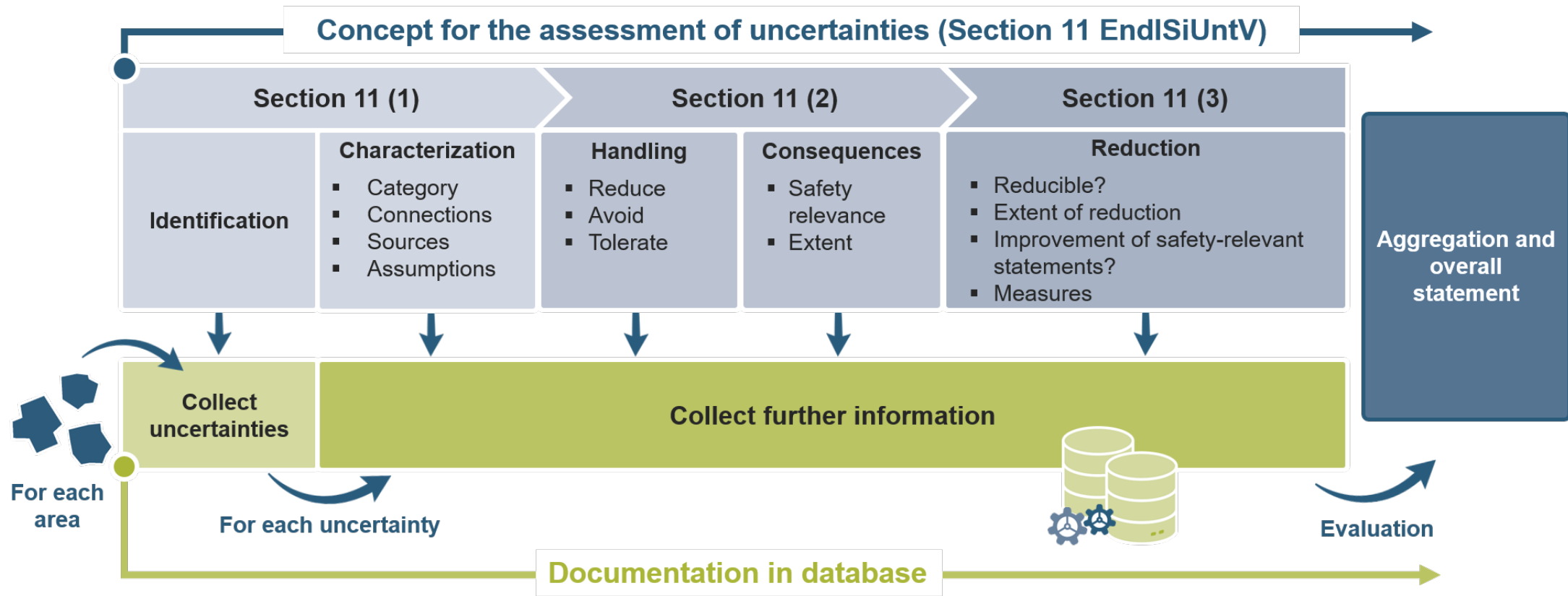


Step-by-step narrowing down of sub-areas to site regions using criteria-based approach

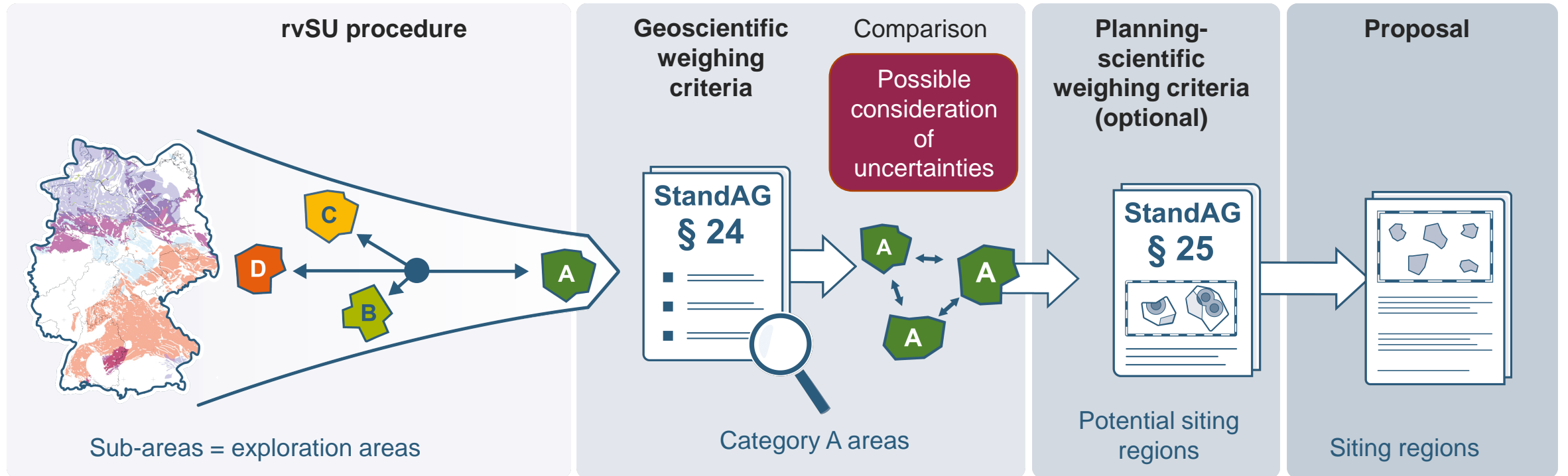
UNCERTAINTIES IN THE rvSU



UNCERTAINTY REGISTER



INFLUENCE OF UNCERTAINTIES (WORK IN PROGRESS)



Step-by-step narrowing down of sub-areas to site regions using the tools of the site selection procedure

ABBREVIATIONS

AK	<i>Ausschlusskriterien</i> - Exclusion criteria
EndlSiAnfV	<i>Endlagersicherheitsanforderungsverordnung</i> – Repository Safety Requirements Ordinance
EndlSiUntV	<i>Endlagersicherheitsuntersuchungsverordnung</i> – Repository Safety Investigation Ordinance
geoWK	<i>geowissenschaftliche Abwägungskriterien</i> – Geoscientific consideration criteria
MA	<i>Mindestanforderungen</i> - Minimum requirements
planWK	<i>planungswissenschaftliche Abwägungskriterien</i> – Planning-scientific weighing criteria
rvSU	<i>repräsentative vorläufige Sicherheitsuntersuchungen</i> – Representative preliminary safety analyses
STA	<i>Standortauswahl</i> - Site selection
StandAG	<i>Standortauswahlgesetz</i> – German Repository Site Selection Act
vSU	<i>vorläufige Sicherheitsuntersuchungen</i> – Preliminary safety analyses

LITERATURE

- Behrens, C.; Luijendijk, E.; Kreye, P.; Panitz, F.; Bjorge, M.; Gelleszun, M.; Renz, A.; Miro, S.; Rühhaak, W. (2023): TransPyREnd: a code for modelling the transport of radionuclides on geological timescales. Adv. Geosci., Bd. 58. S. 109–119. ISSN 1680-7359. DOI: <https://doi.org/10.5194/adgeo-58-109-2023>
- *EndSiAnfV* – Repository Safety Requirements Ordinance of 6 October 2020 (Federal Law Gazette Part I, p. 2094, 2103)
- *EndSiUntV* – Repository Safety Investigation Ordinance of 6 October 2020 (Federal Law Gazette Part I, p. 2094, 2103)
- *StandAG* – Repository Site Selection Act of 5 May 2017 (Federal Law Gazette Part I, p. 1074), last amended by Article 8 of the act of 22 March 2023 (Federal Law Gazette 2023 Part I, no. 88)



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Performance Assessments

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Die Newsletter der BGE

