

WP24 INSURANCE

Interoperable EU-framework to harmonize the assessment of climate-driven changes in nuclear waste disposal site performance

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13/10/2026



Co-funded by the European Union under Grant Agreement n° 101166718

FROM STST CLIMATE TO R&D INSURANCE

StSt CLIMATE identified gaps

Conversion of climate
information into
parameters and process
quantification

Extreme and cascading effects

Non-uniform approaches
in scenario development

R&D INSURANCE objectives

EU-wide collaboration across
climate zones

Harmonize available
approaches

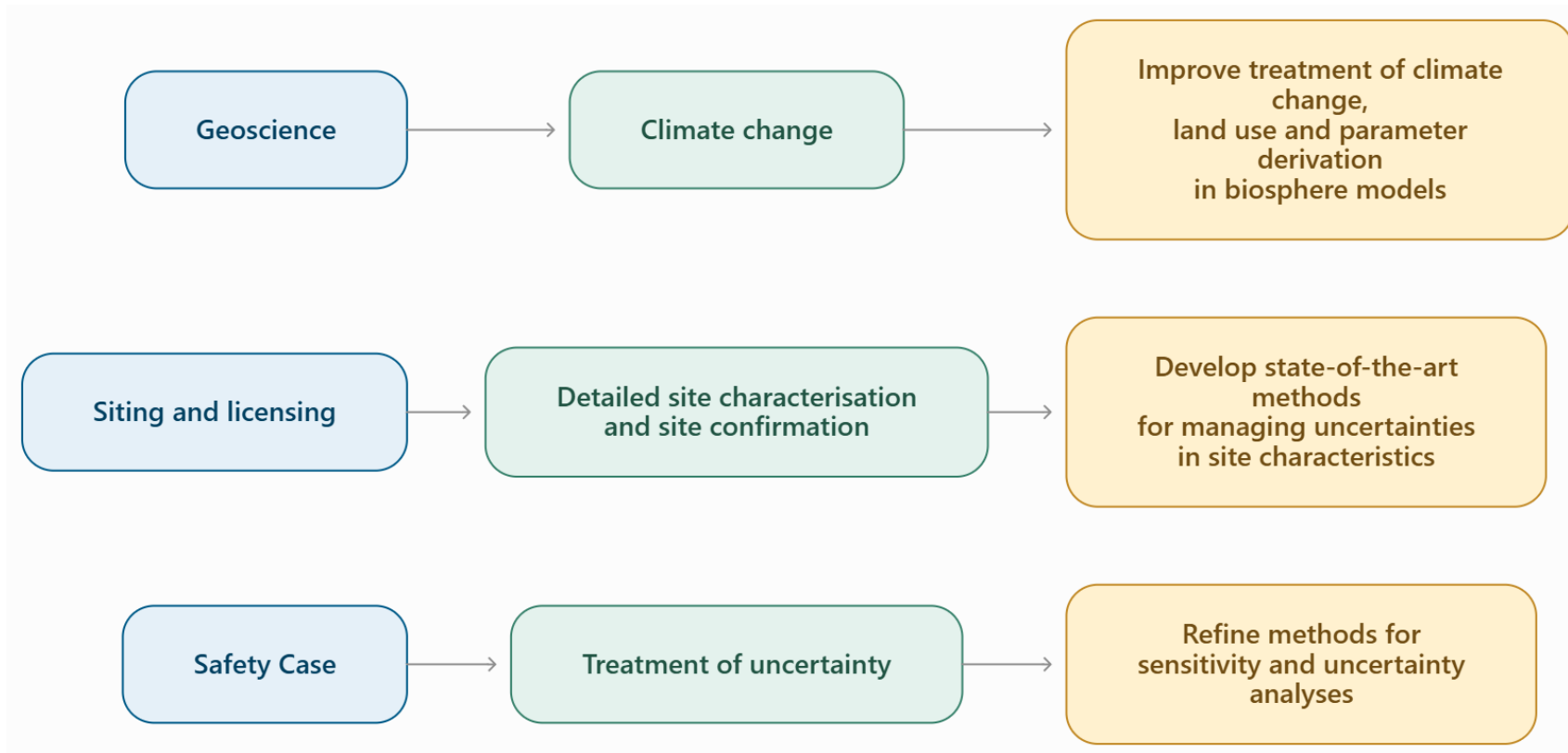
Quantify climate-driven
impacts on relevant processes

Enable consistent, improved
(site) performance assessment

INSURANCE

Interoperable EU-framework to harmonize
the assessment of climate-driven changes
in nuclear waste disposal site performance

STRATEGIC RESEARCH AGENDA THEMES AND TOPICS

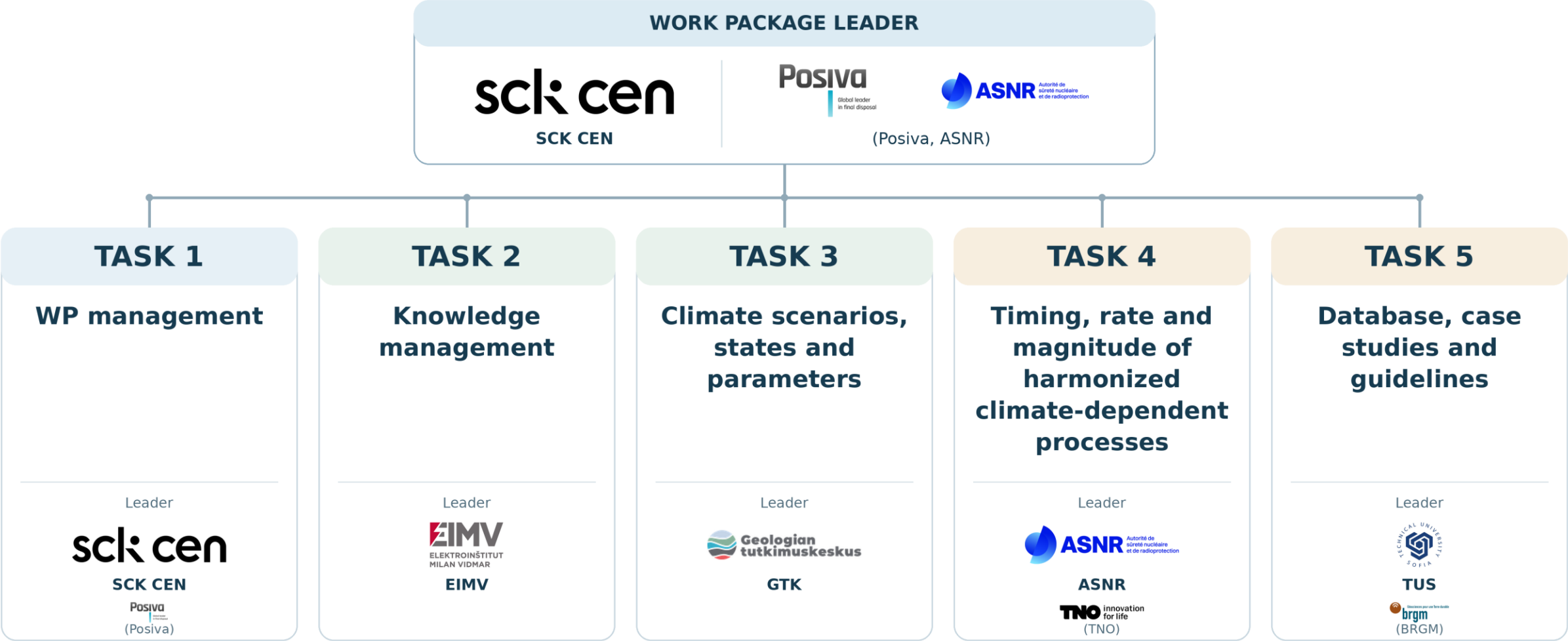


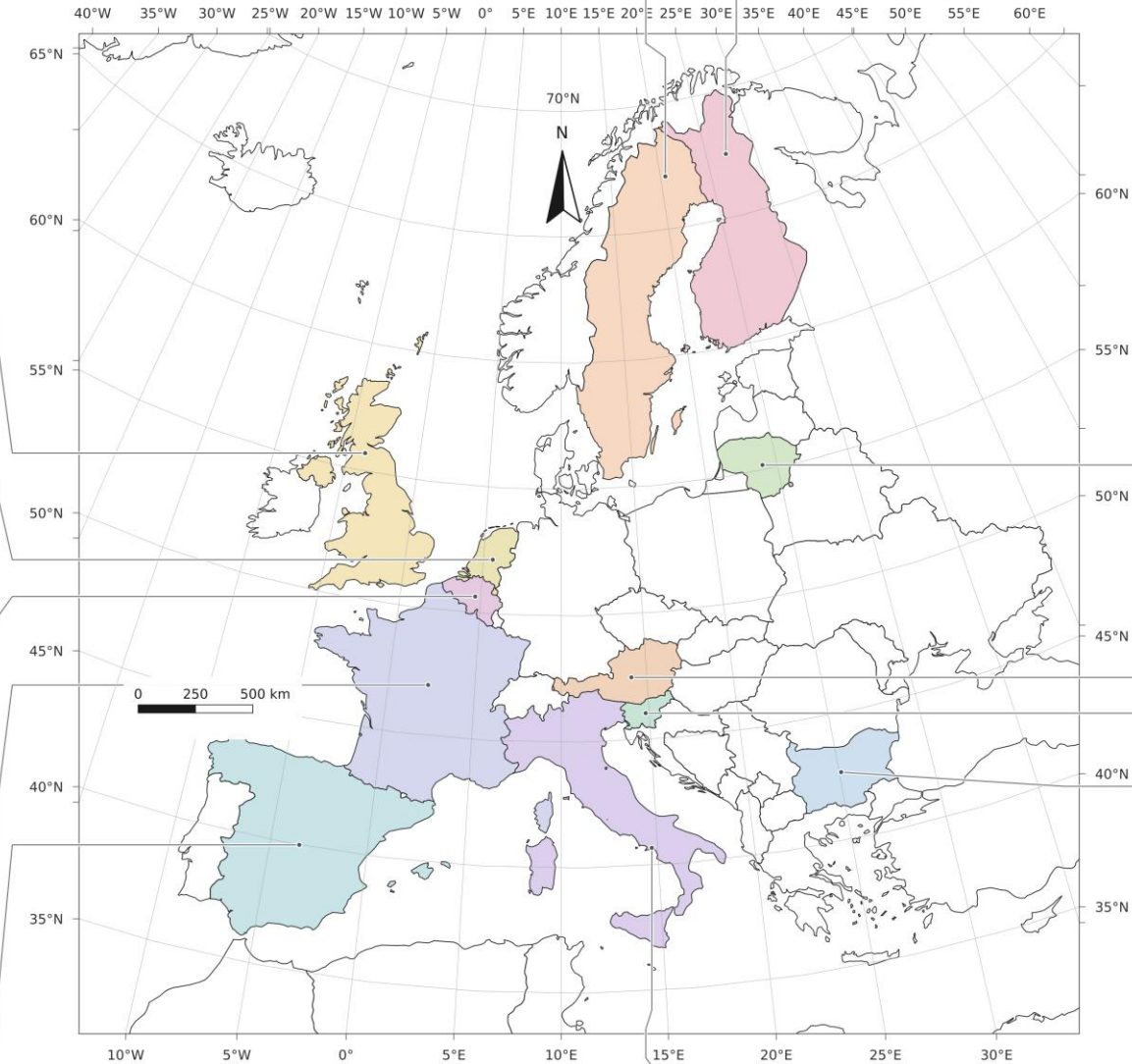
Work package organisation

19
partners
including 1 affiliated partner

2.3 M€
budget

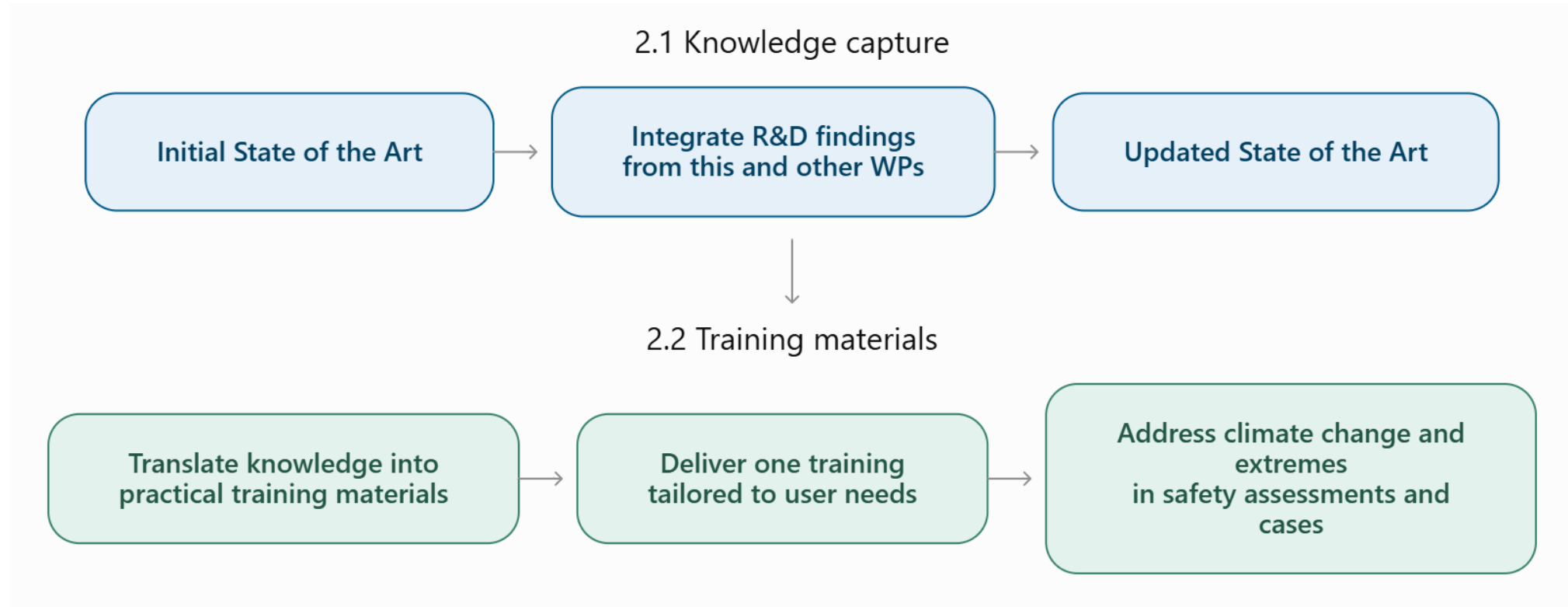
216.5 PM
person-months
≈ 6 FTE for 3 years





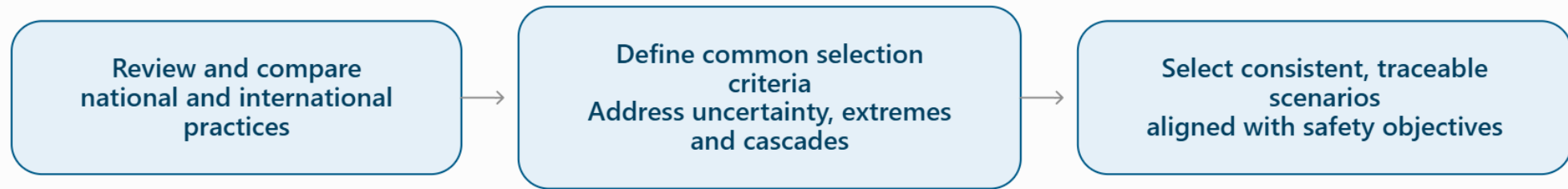
Date

TASK 2: KNOWLEDGE MANAGEMENT

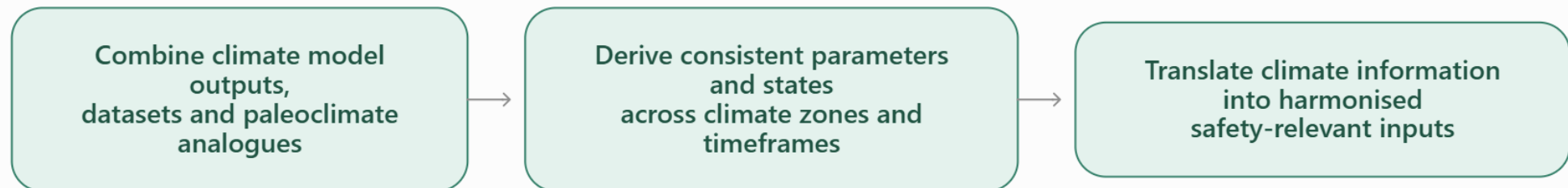


TASK 3: DERIVATION OF CLIMATE SCENARIOS, CLIMATE STATES AND CLIMATE PARAMETERS

3.1 Harmonisation of climate scenario selection

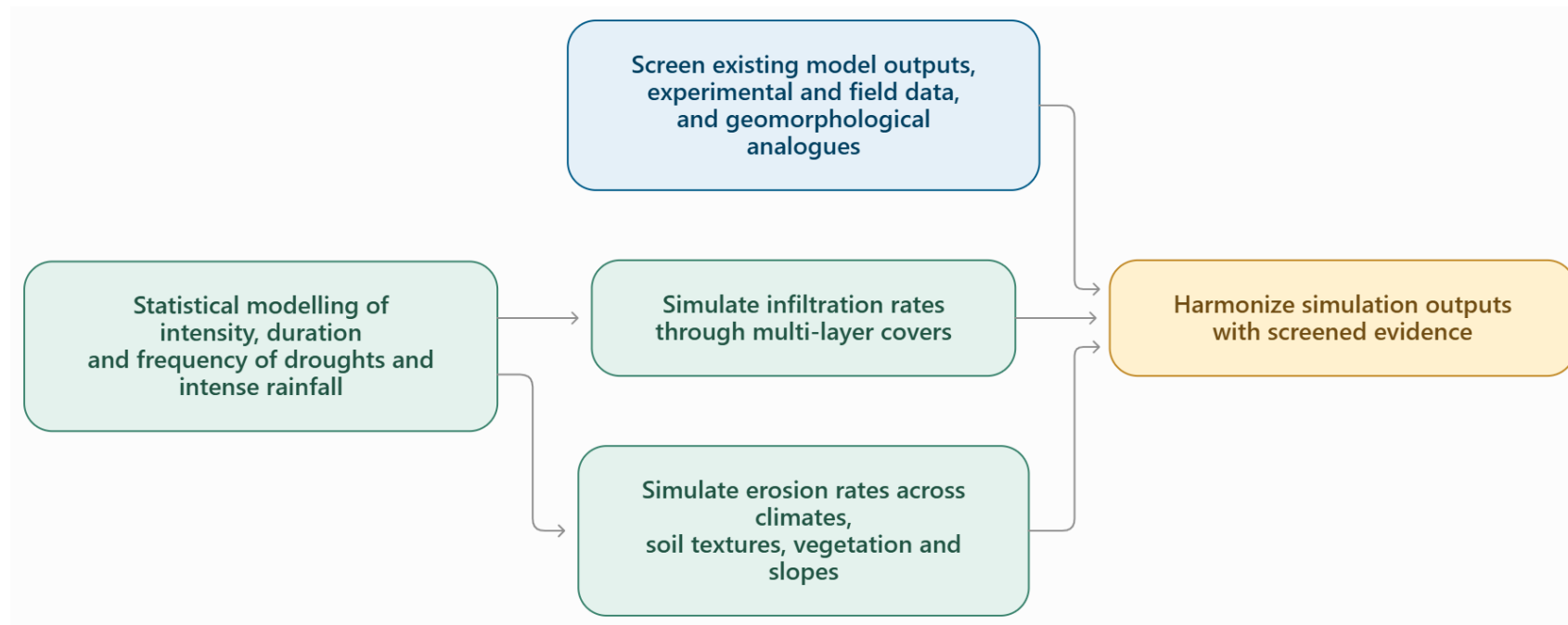


3.2 Climate parameters and climate states



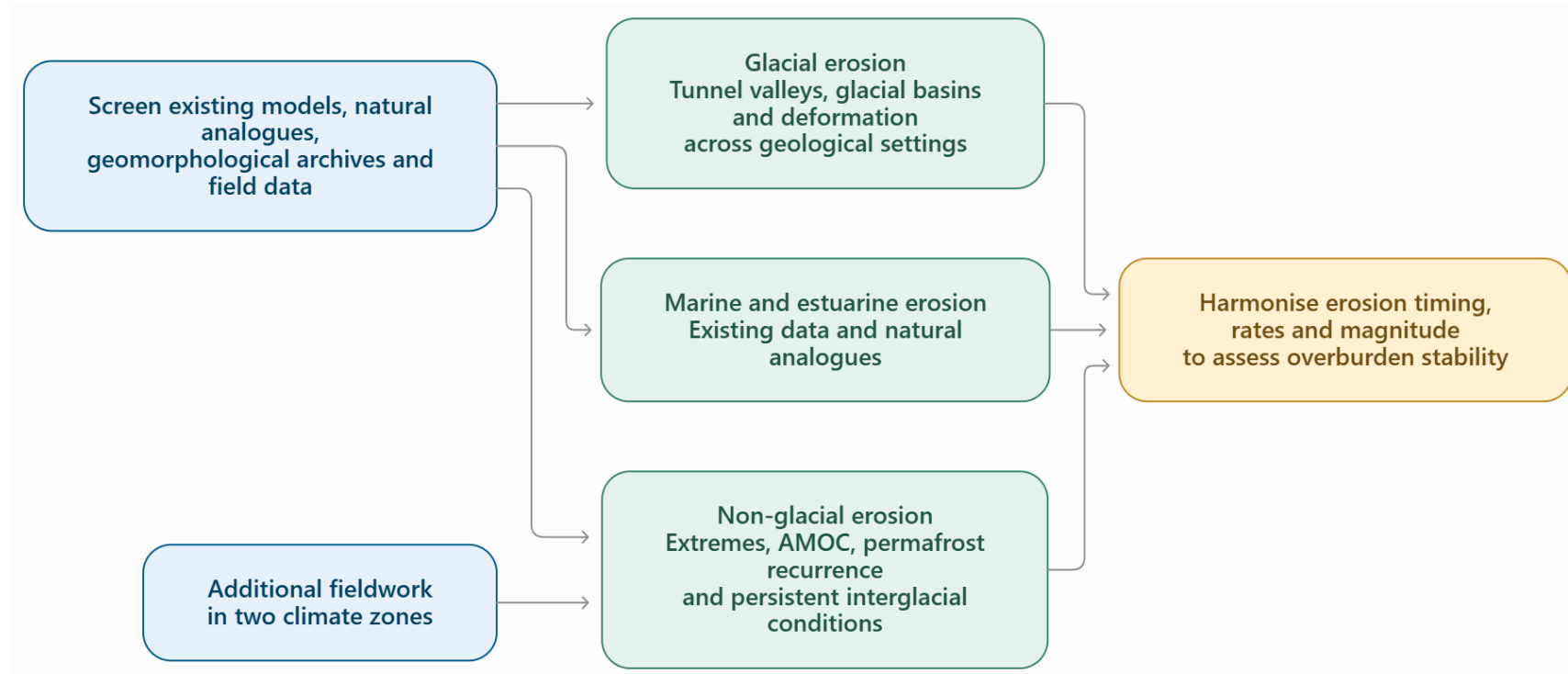
TASK 4: HARMONIZED CLIMATE-DEPENDENT PROCESSES: TIMING, RATES AND MAGNITUDE

- Subtask 4.1: Erosion of and infiltration through multi-layer covers and other engineered components of (near-)surface disposal systems under climate change



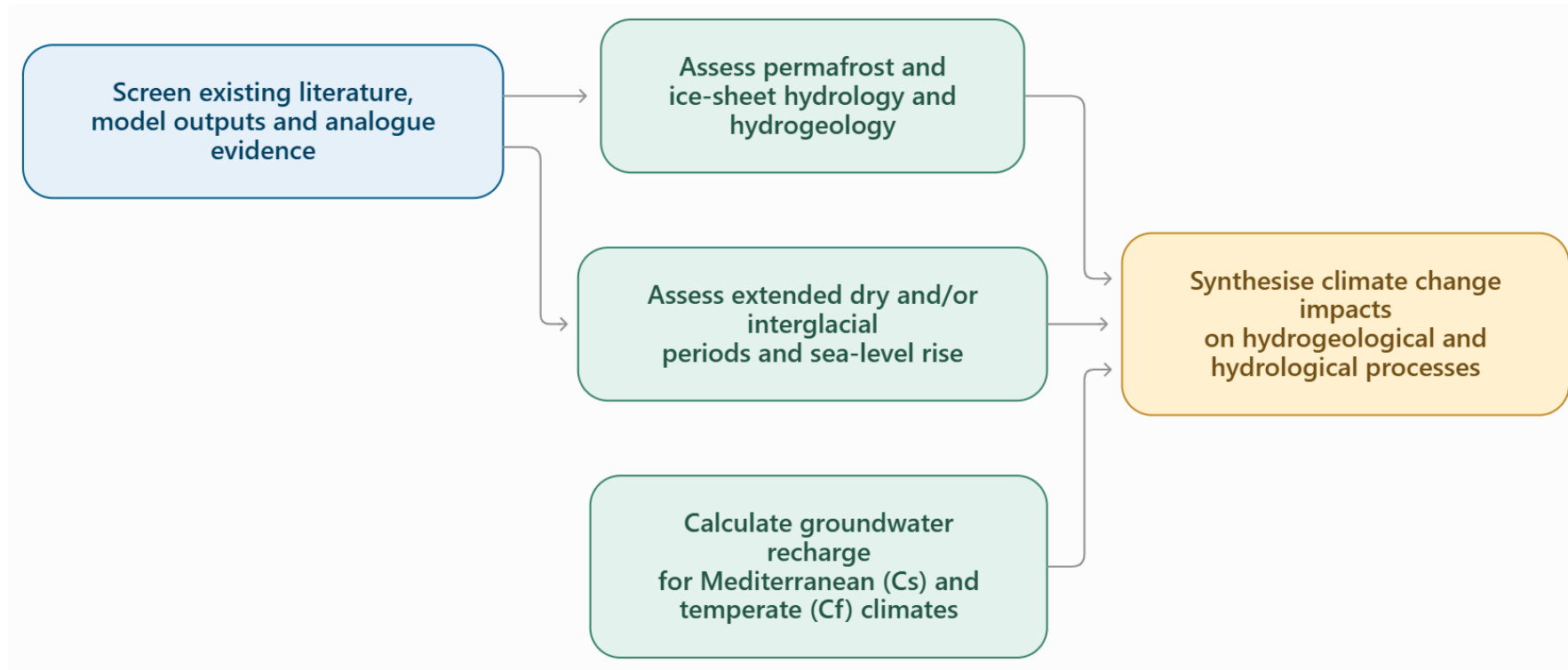
TASK 4: HARMONIZED CLIMATE-DEPENDENT PROCESSES: TIMING, RATES AND MAGNITUDE

- Subtask 4.2: Timing, rate and magnitude of landscape erosion and stability of overburdens for shallow and deep geological repositories

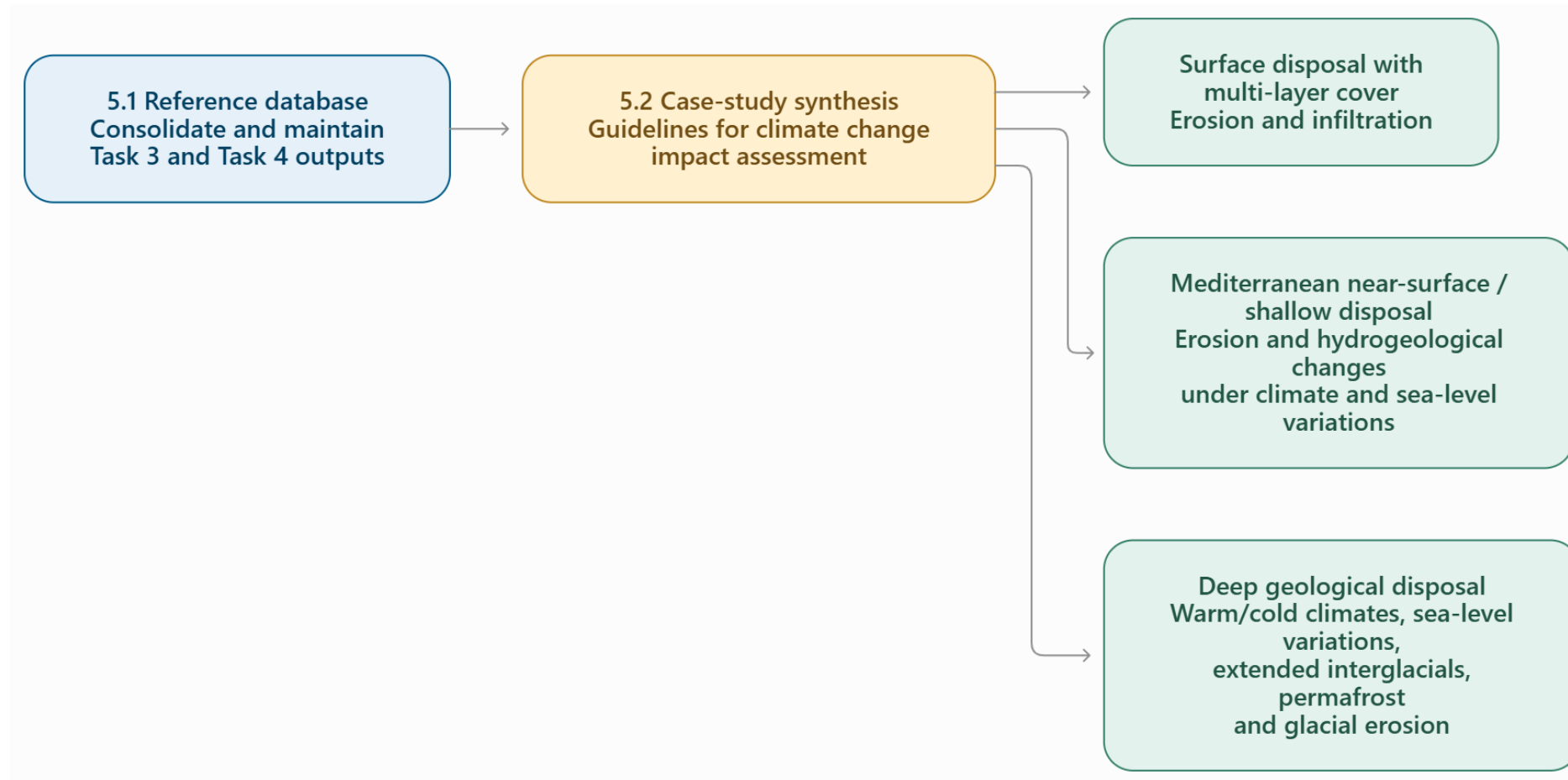


TASK 4: HARMONIZED CLIMATE-DEPENDENT PROCESSES: TIMING, RATES AND MAGNITUDE

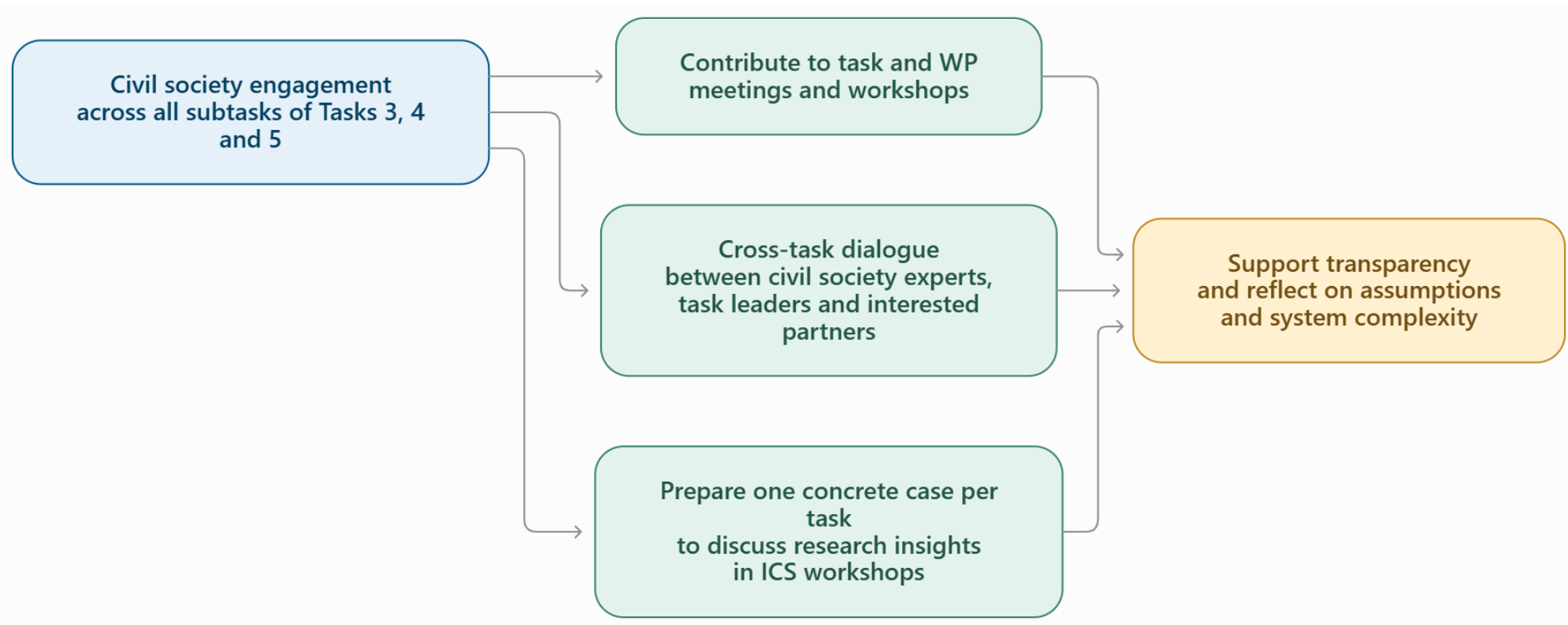
- Subtask 4.3: Climate change impact on hydrogeological and hydrological processes



TASK 5: REFERENCE DATABASE, SYNTHETIC CASE STUDIES AND GUIDELINES FOR CLIMATE CHANGE IMPACT ASSESSMENT



ROLE OF CIVIL SOCIETY



INTERACTION WITH OTHER WP'S

KM
Support database
discoverability,
dissemination and long-term
reuse

SUDOKU
Incorporate a longer-term
perspective

ECOFRAME
Develop data governance,
life-cycle management,
provenance, traceability and
interoperability

GEOSCALE
Explore shared use of
harmonised
climate scenarios and
processes

OUTCOMES

