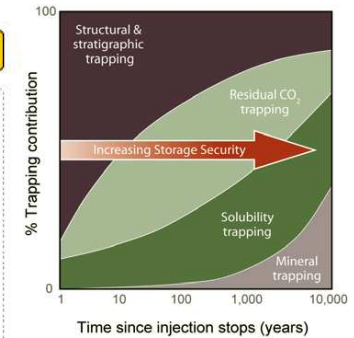
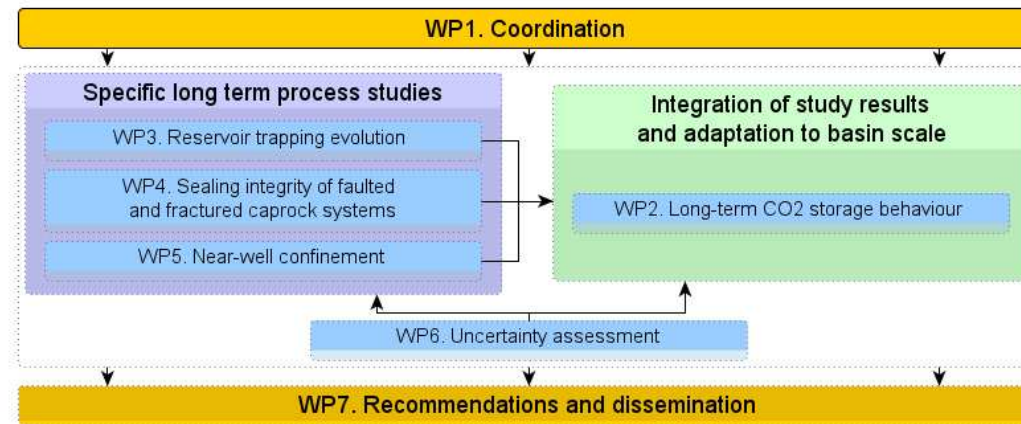


ULTimateCO2 “Understanding the Long Term fate of geologically stored CO₂”

FP7 European Project

Call *FP7-ENERGY-2011-1* AREA ENERGY.5.2: CO2
STORAGE

Work Plan



> Laboratory, field and modelling studies of:

- trapping mechanisms in the reservoir (structural, dissolution, residual and mineral [SDRM])
- fluid-rock interactions and effects on mechanical integrity of the caprock
- leakage associated with mechanical and chemical damage in the well vicinity

> Integration of the results

- into assessing the overall long-term behaviour of storage sites at basin scale in terms of efficiency and security

> Predictions more robust by

- addressing the **uncertainty** associated with numerical modelling at all stages

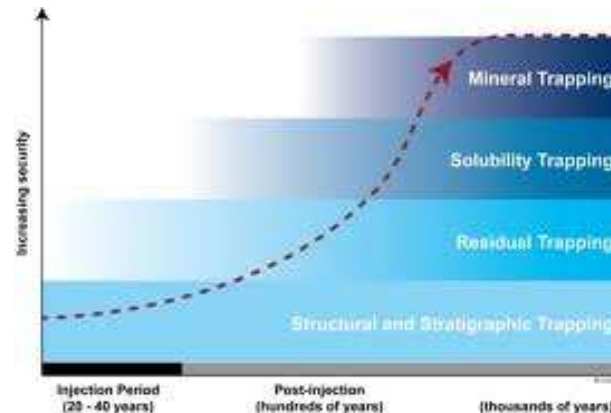
> Realistic contexts and scales through the close collaboration with at least two demonstration sites

- EPR Hatfield demonstration site in the UK operated by National Grid (offshore sandstone aquifer);
- NER300 Oest Lorraine candidate in France operated by ArcelorMittal GeoLorraine (onshore sandstone aquifer);

Objectives

- > **Develop guidelines** for operators and regulators to enable a robust demonstration of the assessment of long-term storage site performance:
 - by drawing on the lessons learned within the project,
 - by relevant research internationally
 - through dialogue with targeted stakeholders

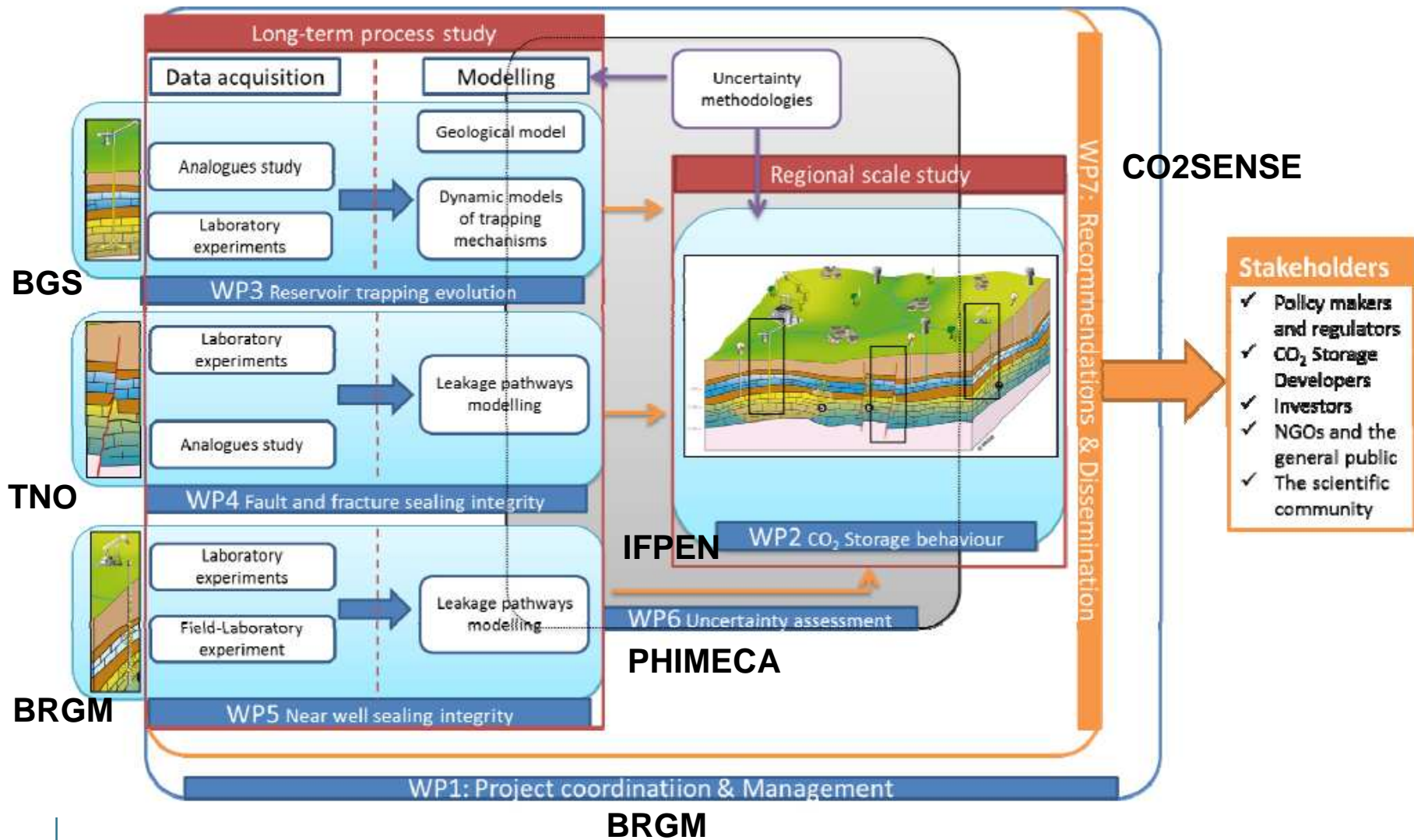
- > **Help to raise confidence with key stakeholders:**
 - Dissemination of scientific knowledge on the long-term efficiency and safety widely to a broad audience, (Operators of CO₂ storage demonstration sites the investors, regulators, policy-makers, the research community and representatives of the general public NGOs and politicians)
 - To improve public perception



Consortium

CONSORTIUM				ADVISORY BOARD			
R & D Institutes	Academia	Company	SME	Data Providers	CSLF Members	Dissemination stakeholders	National regulatory authorities
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ULTimateCO2 Project structure and WP Leaders



Link with SiteChar

- > **SiteChar**->Methodology and needs for site characterisation
- > **ULTimateCO2**->Input on Risk and uncertainty assessment
- > **SiteChar** (2011-2013) will serve as inputs for **ULTimateCO2** (2011-2015) about main issues to be solved to comply with EU directive
- > **ULTimateCO2**->Provide new insights to EC directive on long term trapping mechanism and well leakage