



# PANACEA



Predicting and monitoring the long-term behavior of CO<sub>2</sub> injected in deep geological formations

**Roadmap to PANACEA findings**  
**Jacob Bensabat, project coordinator**

**Brainstorming Day**  
**Bureau Veritas**  
**Paris, December 19, 2014**



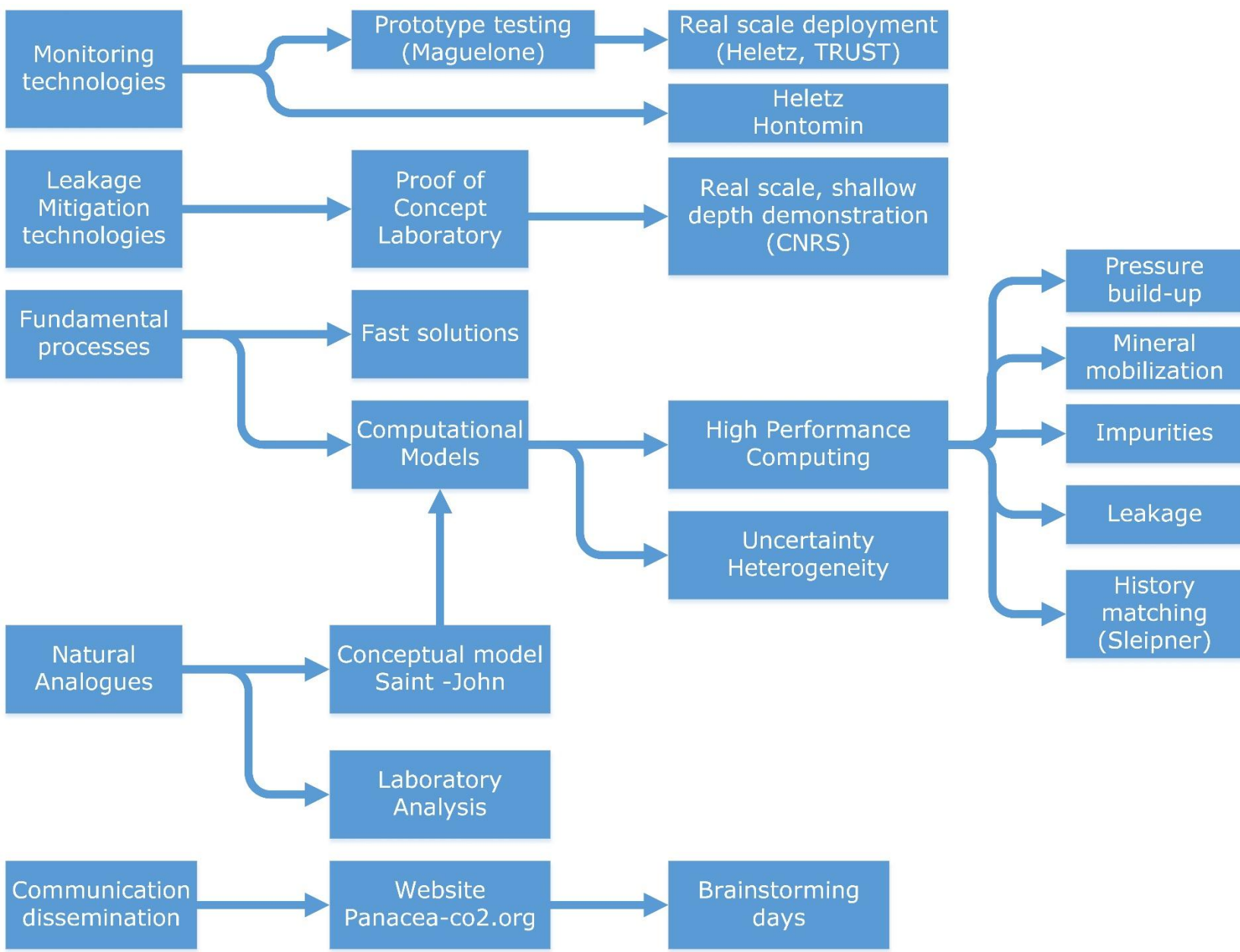
## Essentials of PANACEA

- Extensive modeling in aspects relevant to the long term fate of the stored CO<sub>2</sub> (trapping, leakage, pressure, chemical interactions etc.).
- Extensive data analysis and interpretation around two new sites (Heletz and Hontomin), analogues and large scale injection sites (Sleipner).
- Prototyping of novel monitoring technologies to be deployed in the field (shallow and deep).





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## The project site

- [www.panacea-co2.org](http://www.panacea-co2.org)



09h15-09h45	Global status of CCS. Neil Wildgust (GCCSI), Vivian Scott (SCCS), Ciara O'Connor (UKCCSRC).
09h45-10h30	Session 1: <b>Review of public acceptance</b> challenges and current regulations – Delphine Franco (BV). Moderator Delphine Franco.
10h30-11h00	Coffee break
11h00-11h45	Session 2: <b>Processes occurring in the reservoir.</b> Herbert Huppert (UCAM) Henri Power (UNOTT). Moderator – Herbert Huppert.
11h45-12h30	Session 3: Pressure - build-up and impacts. Auli Niemi (UU) Herbert Huppert (UCAM). Moderator – Auli Niemi.
12h30-14h00	Lunch
14h00-14h45	Session 4: <b>Leakage</b> – magnitude, impacts and mitigation. Jacob Bensabat (EWRE), Philippe Gouze (CNRS) and Herbert Huppert (UCAM). Moderator – Philippe Gouze.
14h45-15h30	Session 5: <b>Prediction</b> – Natural analogues and contemporary storage. Bamshad Nazarian (STATOIL), C. Mc. Dermott (UEDIN) and Martin Sauter (UGOE). Moderator Martin Sauter.
15h30-16h00	Coffee break
16h00-16h45	Session 6: <b>Uncertainties &amp; Monitoring.</b> Henry Power (UNOTT), Auli Niemi (UU), Philippe Pezard (CNRS), Felipe Aguirre (PHIMECA). Moderator - Henry Power.
16h45-17h30	Session 7: <b>Ultimate CO<sub>2</sub></b> – main findings. Nicolas Maurand (IFPEN), Helen Taylor (BGS), Felipe Aguirre (PHIMECA). Moderator Nicolas Maurand.
17h30-18h00	Wrap-up. Moderator Chin-Fu Tsang (LBNL and UU).



## Objectives of the BSD

- Present shortly and concisely the subject
- Enhance discussion
- Exchange knowledge and information