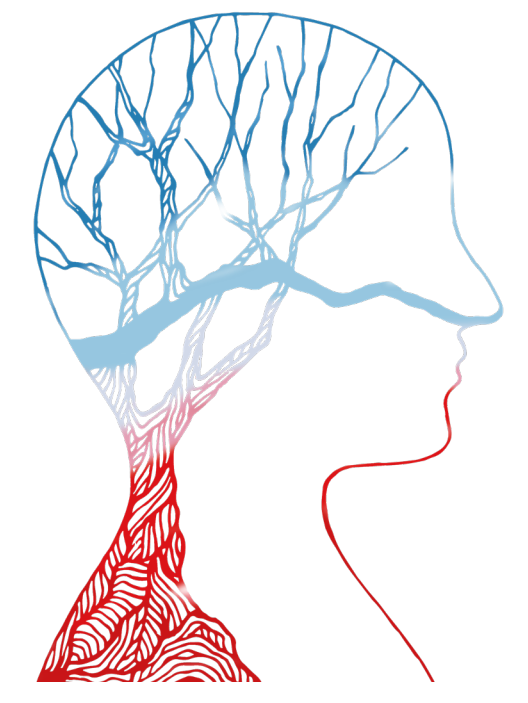


How can we permanently lock CO₂ away from the atmosphere and where can we store it?

Dr. Viola Becattini, ETH Zürich



Addressing the Challenge: Effective CO₂ Management in a Net-Zero Society

+10 MtCO ₂ to be stored permanently in 2050	Point sources between 30 - 300 ktCO ₂ /y
No near-term, large-scale underground storage solution	CO ₂ utilization and permanent storage in building materials as emerging technology
Thousands of km long supply chain for CO ₂ export to a storage hub	

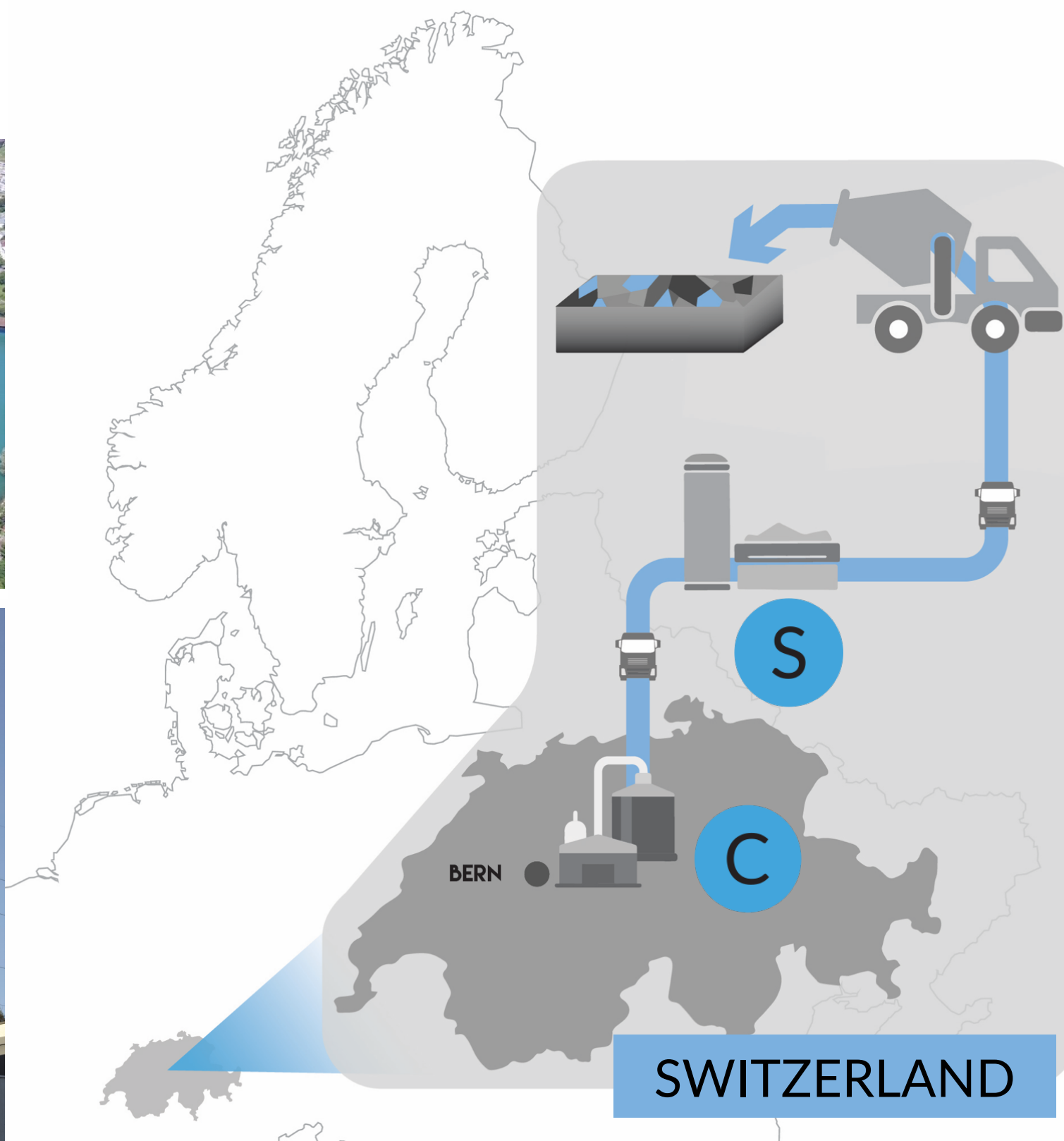


CO₂ mineralization in recycling concrete: Domestic solution

Capture and liquefaction at a waste-water treatment plant with biogas upgrader



Storage via carbonation of recycling concrete aggregates and concrete mixing water



CO₂ mineralization in the underground: International solution

