Associated Partner linked to a beneficiary Legal Name: Technical University of Catalonia	
General description and link to the concerned beneficiary	The Technical University of Catalonia (UPC) is the largest engineering university in Catalonia (Spain). Besides a wide spectrum of engineering studies, it also offers programs in other related disciplines such as mathematics and architecture. It includes a number of technical schools and several top-ranked research centres (https://www.upc.edu/en). UPC is a university aiming at achieving the highest degree of engineering/technical excellence and has bilateral agreements with several top-ranked European universities. UPC is a member of the Top Industrial Managers for Europe network, which allows for student exchanges between leading European engineering schools. It is also a member of several university federations, including the Conference of European Schools for Advanced Engineering Education and Research (CESAER) and UNITECH.
Key Persons and Expertise	Prof. Sebastià Olivella, Professor at the Civil and Environmental School. He is the head of the Geotechnical Engineering and Geo-Sciences Doctoral Program. He is the main developer of the finite element code CODE_BRIGHT (https://deca.upc.edu/en/projects/code_bright)
Key Research Facilities, Infrastructure and Equipment	Specialized research laboratories, specialized hardware and software, advanced TIC facilities (including high-performance computing clusters), libraries, etc.
Previous and Current Involvement in Research and Training Programmes	The professors and researchers associated with the Doctoral Program in Civil Engineering have been involved in numerous projects of the European Union research framework programmes.
Relevant Publications/datasets/ softwares/ Innovation Products/ other achievements	1. Vilarrasa, V., Bolster, D., Olivella, S., & Carrera, J. (2010). Coupled hydromechanical modeling of CO2 sequestration in deep saline aquifers. *International Journal of Greenhouse Gas Control*, *4*(6), 910-919. 2. Vilarrasa, V., Silva, O., Carrera, J., & Olivella, S. (2013). Liquid CO2 injection for geological storage in deep saline aquifers. *International Journal of Greenhouse Gas Control*, *14*, 84-96. 3. Olivella, S., Gens, A., Carrera, J., & Alonso, E. E. (1996). Numerical formulation for a simulator (CODE_BRIGHT) for the coupled analysis of saline media. *Engineering Computations*, 13(7): 87-112.