

# Geologic Carbon Storage



## PROJECT DETAILS

**Funding Programme:**  
 7th Framework Programme  
 (FP7)  
**Sub-Programme:**  
 People  
**Funding Scheme:**  
 Small or medium-scale focused  
 research project  
**Project Reference:**  
 317235;  
 UE-13-ITN-CO2-REACT-31723  
 5  
**Project Duration:**  
 48 Months (From 2013-03-01  
 to 2017-02-28)  
**Total Project Value:**  
 € 3.900.802  
**EU Grant-Aid:**  
 € 3.900.802  
**Funding to UniOvi:**  
 € 232.181'62

**Website:**  
[http://cordis.europa.eu/  
 projects/rcn/105343\\_en.html](http://cordis.europa.eu/projects/rcn/105343_en.html)

## PROJECT DESCRIPTION

The CO2-REACT ITN has been created to address twin objectives: (1) to provide urgently needed training in CO2 storage preparing candidates for critical roles in the coming years and (2) to significantly advance our understanding of the fate and consequences of CO2 injection into the subsurface during carbon storage efforts. The CO2-REACT ITN addresses these objectives through a balanced combination of 6 academic and six industrial teams. The academic partners have been selected for their unique and diverse expertise in the reactivity of carbonate phases at scales ranging from the atomic to the field scale. The six industry partners were selected to represent a spectrum of the largest stakeholders in CO2 storage. By formally joining these teams, we are creating a training/research platform that is unique in the world in its ability to understand the fate and consequences of CO2 injected into subsurface reservoirs using an impressive array of experimental and modeling techniques.

CO2-REACT aims to train 13 ESRs and 1 ER, through an integrated and coherent set of research and training activities that will significantly improve our understanding of the consequences of injecting CO2 into the subsurface. We chose this technical focus because: (1) new knowledge is essential for solving a critical societal problem, (2) the problem is interdisciplinary, requiring input from chemistry, geology, physics, chemistry, hydrology and engineering, (3) producing solutions that industry can implement will promote tight academia-industry collaboration, a true plus for the trainees and (4) by focusing on a single theme, close interaction and collaboration among the CO2-REACT teams is fostered. An additional societal objective of CO2-REACT is help to raise public awareness to the needs, challenges and safety issues in subsurface CO2 storage through public outreach efforts.

## UNIOVI TEAM

Manuel Prieto Rubio <sup>1</sup>  
[mprieto@uniovi.es](mailto:mprieto@uniovi.es)  
María Ángeles Fernández González <sup>1</sup>  
[mafernandez@uniovi.es](mailto:mafernandez@uniovi.es)  
Amalia Jiménez Bautista <sup>1</sup>  
[amjimenez@uniovi.es](mailto:amjimenez@uniovi.es)  
Pedro Domingo Álvarez Lloret <sup>1</sup>  
[pedroalvarez@uniovi.es](mailto:pedroalvarez@uniovi.es)

<sup>1</sup> Department of Geology

## PROJECT PARTNERS

Project Coordinator  
Centre National de la Recherche  
Scientifique, France

United Kingdom  
University of Leeds  
Spain

Universidad de Oviedo  
AMPHOS 21 Consulting S.L.

Italy  
West Systems SRL  
France

Lafarge Centre de Recherche SAS  
Denmark

Københavns Universitet  
Maerks Olie OG Gas AS

Germany  
Westfaelische Wilhelms-Universitaet  
Muenster

Iceland  
Orkuveita Reykjavikur SF  
Haskoli Islands