UCL Université catholique de Louvain

Wallonie

N.ERGHY

N.ERGHY membership application

Wallonia alliance for Research in Energy (WaRE)

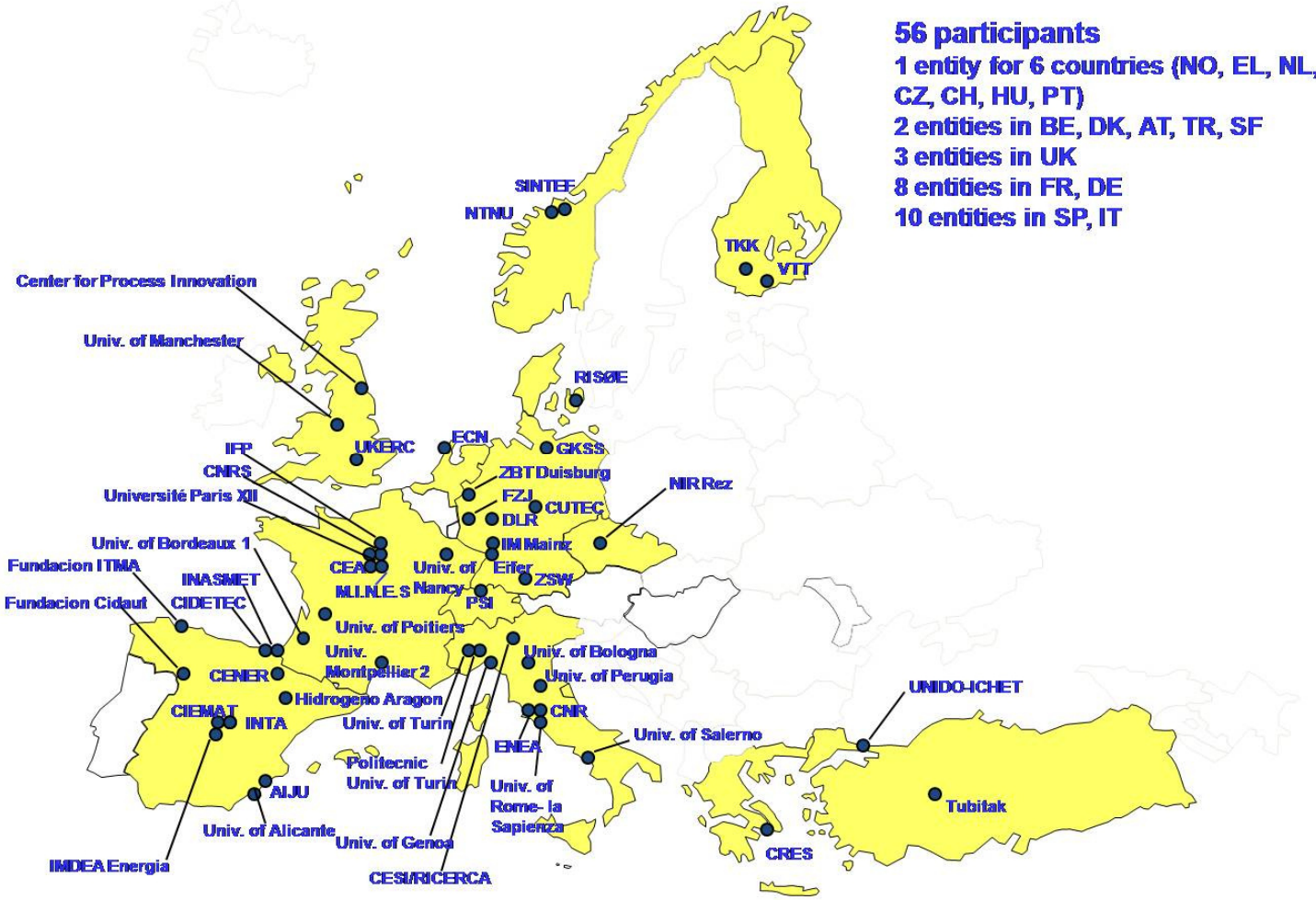
Prof. Joris Proost
Université catholique de Louvain (UCL)

joris.proost@uclouvain.be

UCL Université catholique de Louvain

Wallonie

N.ERGHY



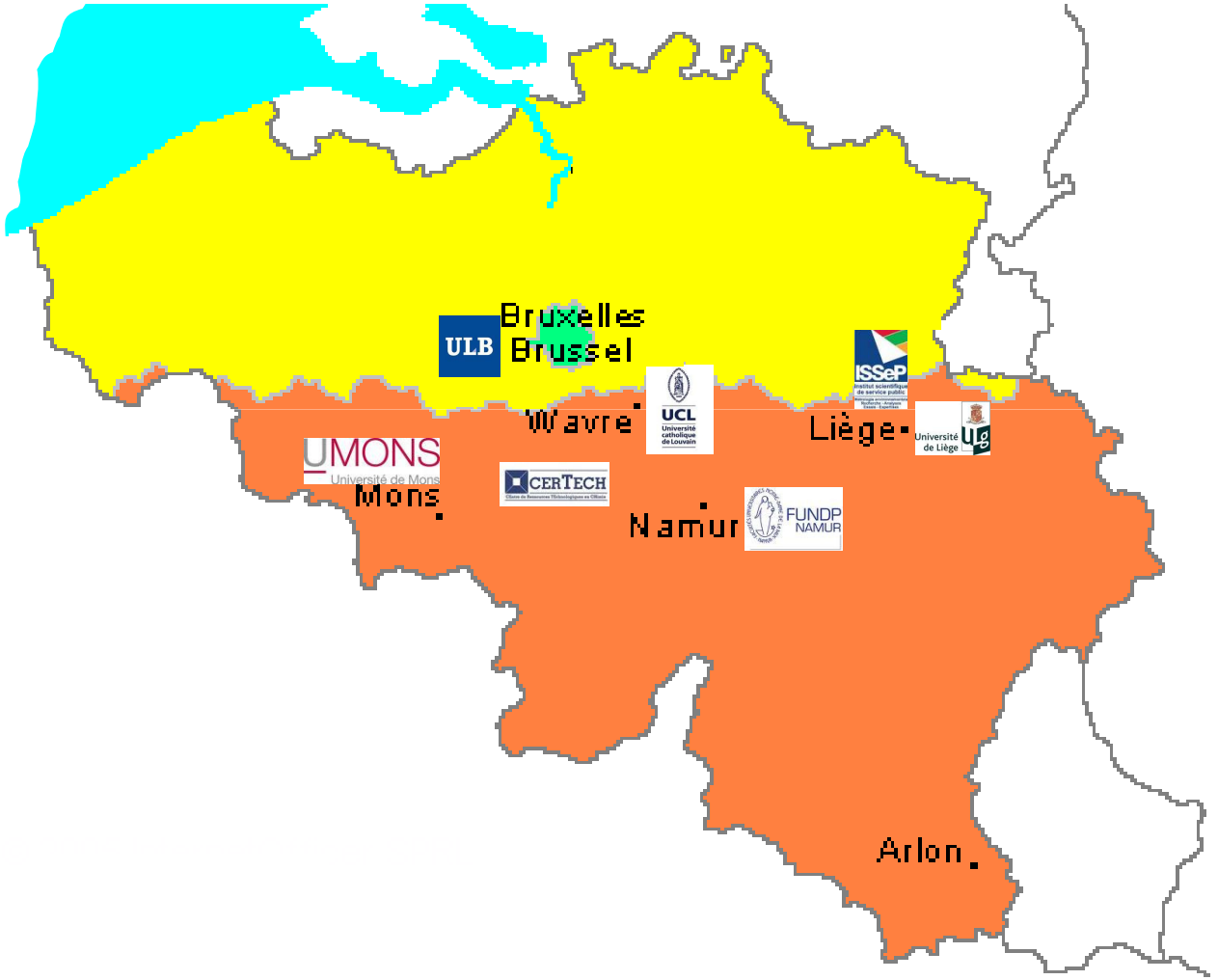
56 participants
1 entity for 6 countries (NO, EL, NL, CZ, CH, HU, PT)
2 entities in BE, DK, AT, TR, SF
3 entities in UK
8 entities in FR, DE
10 entities in SP, IT

- **Location of the signatories of the Letter of Intent**

Update : Sept 2008

Wallonia alliance for Research in Energy (WaRE)

→ Members of the Fuel Cell/Hydrogen section :



WaRE Research activities in Hydrogen and Fuel Cell Technology

	major research activities	EFT scientific[#]	EFT technical
Transport and Refuelling Infrastructure *(incl. Membrane Electrode Assemblies: materials, processing and validation)*	- design and propulsion of hydrogen-powered airplanes - testing and characterisation of labscale PEMFC, driven on H2 and NBH4 ; - fabrication of electrocatalysts (Pt, Pt-M, alternative metals), their C-based support, and full PEMFC assemblies ; - mechano-chemical durability of porous catalyst support and current collector plates ;	10	1.5
FCH-JU project proposal SP1-JTI-FCH.2011.1.5 : Next generation European MEAs for transportation applications			
Hydrogen Production & Distribution *(incl. Solid State Hydrogen Storage)*	- integrated gasification processes for H_2 production on a semi-industrial scale ; - design of H_2 tanks for aviation and space applications ; - photoelectrochemical H_2 production ; - in-situ monitoring of the hydriding behaviour of (nanocrystalline) metals for hydrogen storage and purification : kinetics, thermodynamics, micro-mechanics	5.5	2
FCH-JU project proposal SP1-JTI-FCH.2011.2.3 : Biomass-to-hydrogen (BTH) thermal conversion process			
FCH-JU project proposal SP1-JTI-FCH.2011.2.4 : Novel H2 storage materials for stationary and portable applications			
Stationary Applications	- hydrogen combustion for small- and micro-sized gas turbines	2	1
Early Markets	- implementation of hydrogen-based gas turbines and PEMFC for propulsion of mini-drones	1	
TOTAL manpower (EFT)		**18.5[#]**	**4.5**

 # EFT for permanent academic staff (professors, group leaders etc.) are NOT included

UCL Université catholique de Louvain

Wallonie

Update May 2011 ?!

N.ERGHY