

TRANSITION ÉNERGÉTIQUE ET NUMÉRIQUE POUR LES BÂTIMENTS

Interreg
POCTEFA

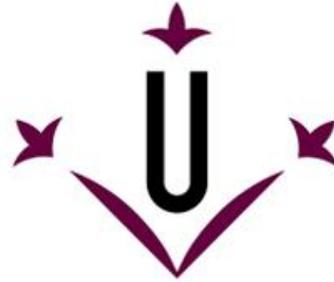
CCI PIRINEUSMED
CENTRE DE COOPÉRATION INTERMUNICIPALE
PÉRIPHÉRIQUE MEDITERRANÉENNE



15h15 > 16h15 : TABLE
RONDE 2
Adaptation au
changement climatique :
bâtiments intelligents et
producteurs d'énergie

CCI Lérída : **Luisa F. CABEZA**, Professeur Universitaire,
Responsable du Groupe de Recherche GREA, Directeur
du Centre de Recherche INSPIRES

PP N° 14



Universitat de Lleida

GREiA Research Group

Jornada B2B: Transició energètica i digital per a edificis
Les Voiles Rouges - Canet de Rosselló



Dra. Luisa F. Cabeza

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Research Group on Energy and Artificial Intelligence

Energy Engineering

Evaluation and study of the thermal energy storage

Energy optimization of buildings and industrial processes

Sustainable Construction

Green Infrastructure

Structures

Sustainable materials

LCA of construction materials



High temperature pilot plant

Artificial Intelligence

Resolution of computationally difficult problems

Definition of knowledge representation languages that allow the most adequate solution for combinational problems

Design, implementation and evaluation of highly efficient algorithms to find solutions to problems that are modelled with those languages

Design of smart control algorithms for thermal/electrical energy systems

The GREiA team:

- 9 Professors / Assist. Prof.
- 1 Project manager
- 5 Postdoctoral Researchers
- 12 Graduate Students
- 3 Undergraduate Students
- 1 Laboratory Technicians
- 2 Visiting researchers



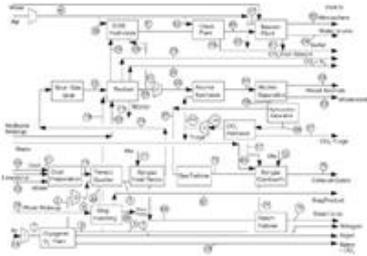
TOTAL: about 30 people

GREiA R&D vision

R&D

Pilot plant or real test

Commercial project



TRL1

TRL2

TRL3

TRL4

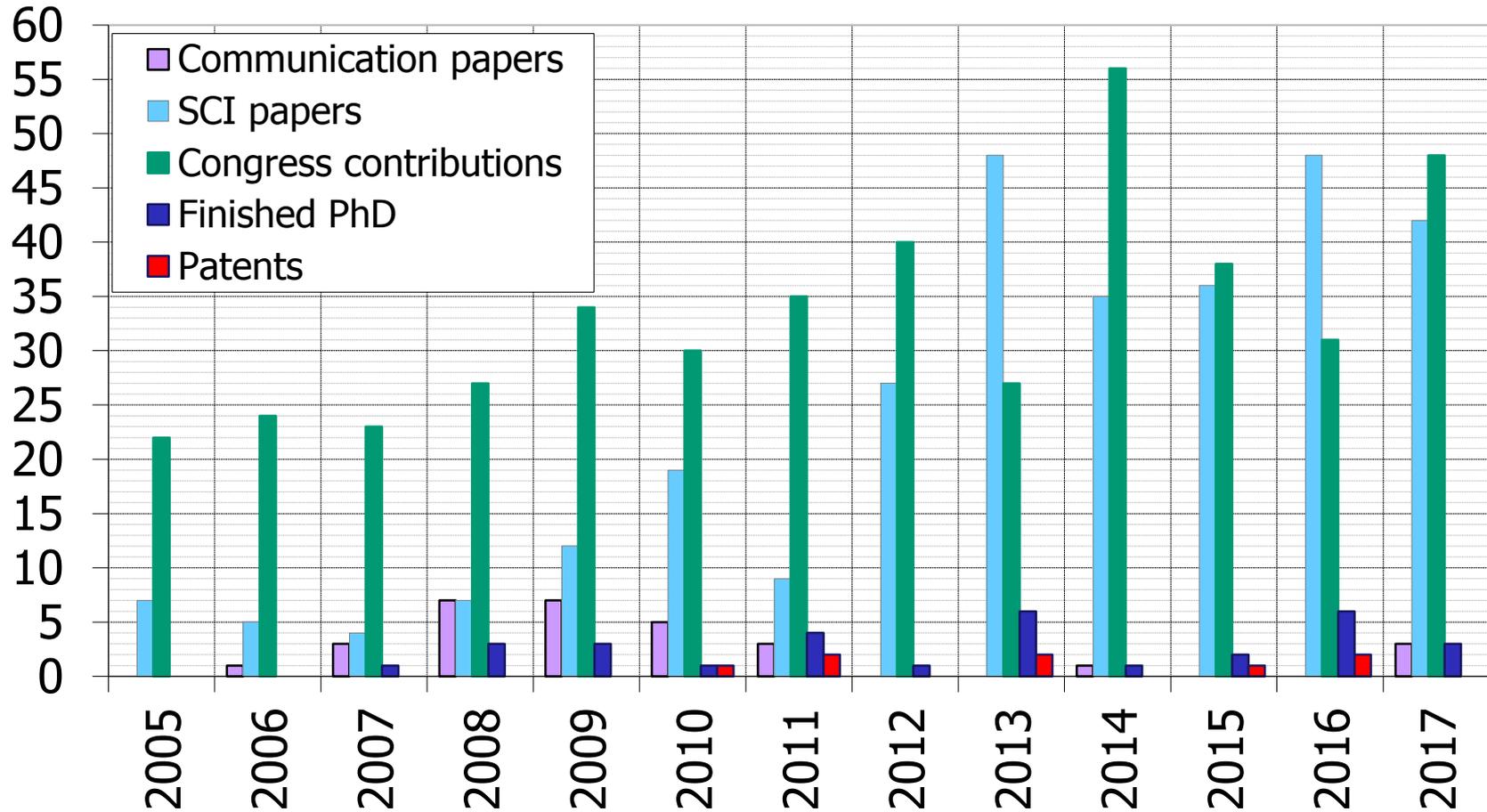
TRL5

TRL6

TRL7

TRL8

TRL9



Networking

Catalonia Government consolidated Research Group



TECNIO network of Generalitat de Catalunya



Reference network of advanced materials for energy (XaRMAE)



Campus IBERUS



Spanish Thematic Network of Thermal Energy Storage



European Technology Platform on Renewable Heating & Cooling



International Energy Agency Energy Conservation through Energy Storage (ECES-IEA)



European Association SPIRE



Research Centre for Sustainable Technologies (INSPIRES)



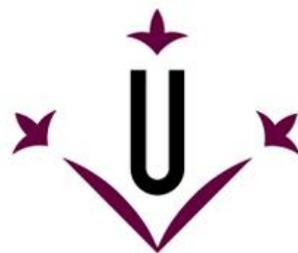
Lleida Biotech, local bioproducts industries cluster



Industry cooperation



Thank you for your attention!



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