



ENERGY CAMPUS CAMPUS OF INTERNATIONAL EXCELLENCE



UNIVERSITAT POLITÈCNICA
DE CATALUNYA
BARCELONATECH

Campus d'Excel·lència Internacional

**Jornades d'intercanvi d'experiències FP
26 d'Abril de 2017**

CAMPUS OF INTERNATIONAL EXCELLENCE (CEI)

- The CEI Program is part of the University Strategy 2015 (MECD) to modernize the Spanish university

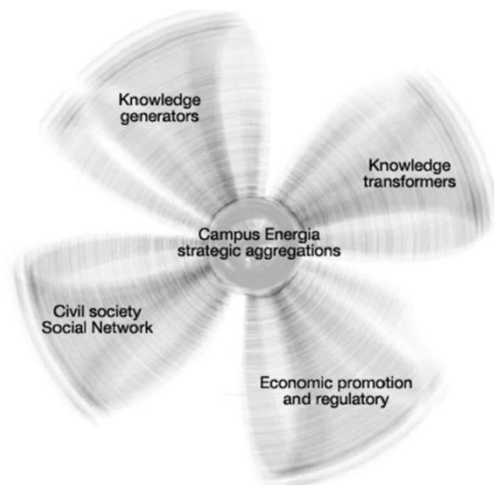
It aims to support **strategic aggregations** between universities and other institutions located in the campus to create "knowledge ecosystems"

to promote employment, social cohesion and territorial economic development

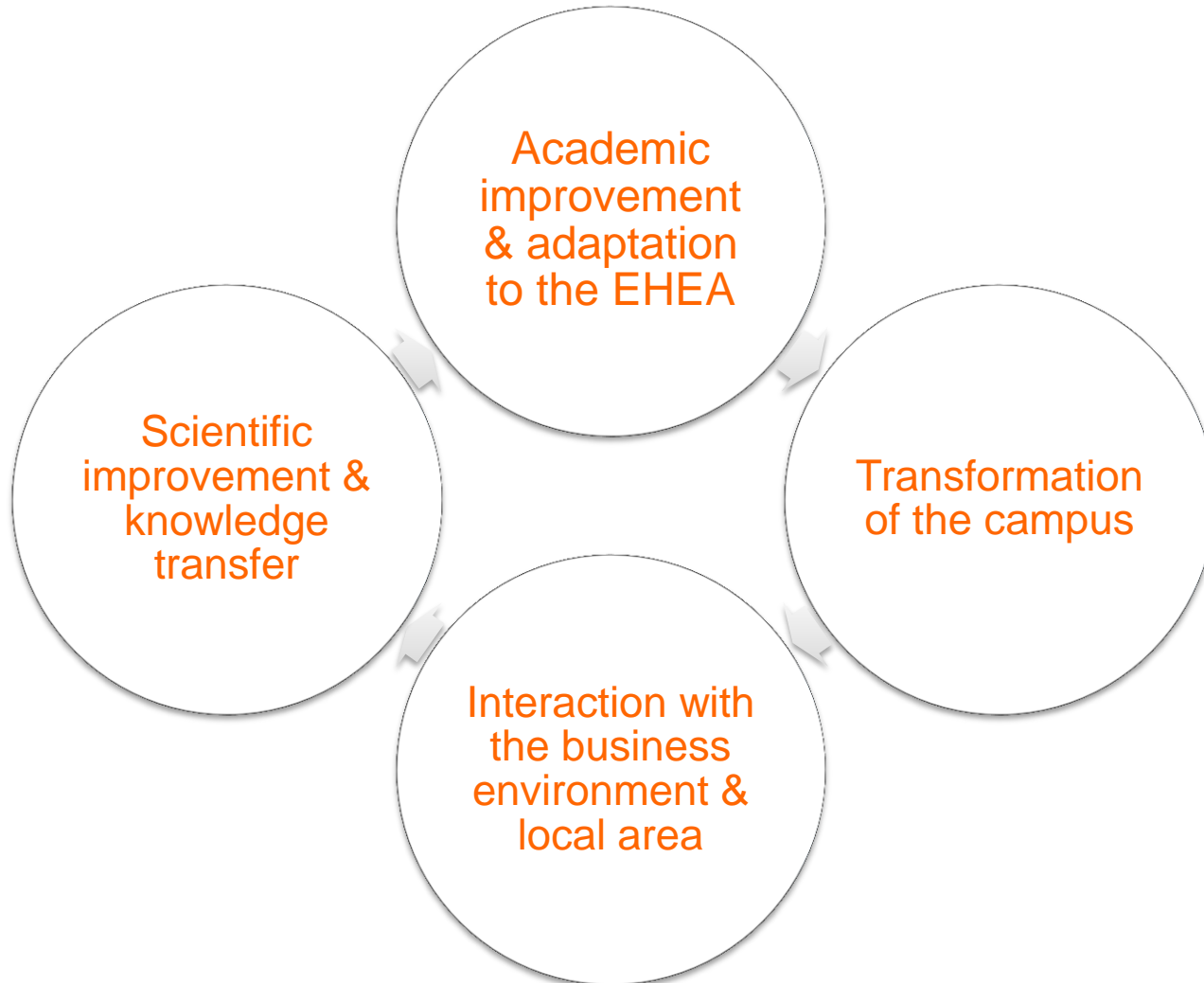
- New concept focused on universities and their interaction with research centers, science parks, technology centers, productive environment & other agents
- The UPC is currently involved in 2 CEI projects: BKC (territorial, in collaboration with the UB) and **Energy Campus** (thematic)

ENERGY TO EXCEL

- **Energy Campus** is aimed at leading the transformation of the energy sector with clear local impact and wide international recognition. In this campus, knowledge and technology will generate innovation for a more sustainable economy and it will become a reference in the field of governance and social responsibility.



Energy Campus is based on establishing creative links between the **4 helices** to develop new knowledge, technology, products and services.

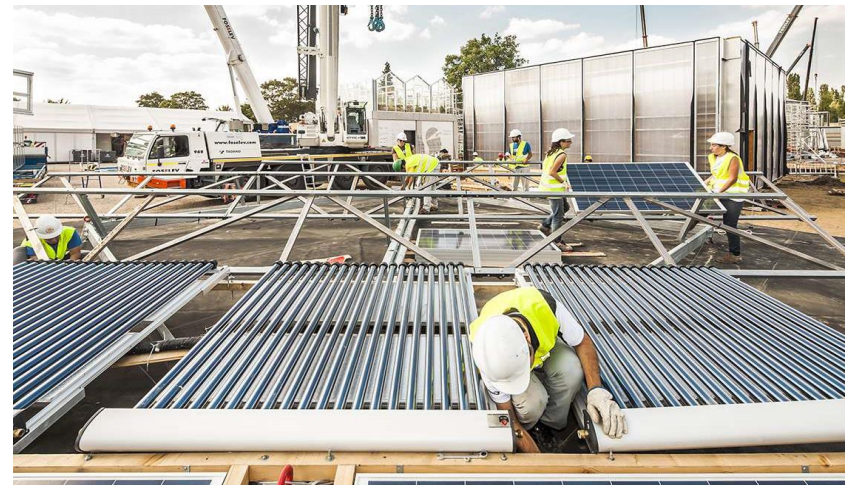


ACADEMIC IMPROVEMENT & ADAPTATION TO THE EHEA

- Consolidation of the Energy Campus postgraduate course catalogue
- Industrial PhD Program (pioneer in Catalonia / Spain)
- Initiatives to promote new learning methodologies (LbD) & student entrepreneurship (EmprènUPC & FPEmprèn)



SMC / Formula Student



Solar Decathlon

SCIENTIFIC IMPROVEMENT & KNOWLEDGE TRANSFER

- Increasing number of energy-related research projects funded by EU programs (FP7, H2020, Life+...)
- UPC is now the leading producer of innovation and development activity in Catalonia in the framework of the H2020 program (Union open data portal)
- Excellent results obtained in innovation projects funded by EIT InnoEnergy (Neptune project)



EOLOs buoy

TRANSFORMATION OF THE CAMPUS

- New Campus Diagonal-Besòs: 3 brand new buildings to host the EEBE school and research centers (e.g. IREC)
- UPC Energia 2020 Programme (sustainability)
- Summer Science Camps (workshops on renewable energy)



SSC - CCV



CDB

INTERACTION WITH BUSINESS ENVIRONMENT & LOCAL AREA

- Collaboration with the business environment (Rubí Brilla project, ESA Business Incubator, UP4 Solutions)
- Collaboration with BCN City Council to develop a new hydrogen energy storage technology (Power to gas P2G)
- Energy Observatory & Energy Transition Working Group



ESA BIC BCN

UP4





PERIOD 2015-2017

- +20 ongoing research projects funded by FP7 & H2020
- +40 innovation projects funded by InnoEnergy (EIT)
- Coordination of the InnoEnergy CC Iberia
- Member of the RIS3CAT communities in Energy and Eco Mobility
- +45 research teams working on energy-related projects
- Degree in Energy Engineering
- Erasmus Mundus: 2 Master's degrees & 3 Joint Doctorates
- InnoEnergy master's degrees
- 7 teams in Smart Moto Challenge & Formula Student
- 3 student teams in Solar Decathlon
- Research Living Labs: +10 pilot projects



THANK YOU!

Montserrat Garcia

Gabinet de Projectes Específics

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