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ISC
Institute of
Smart Cities

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OVERVIEW

- Mission
- Faculty/staff
- Scientific & tecnological productivity, last 5 years
- R+D projects & grants, last 5 years
- Companies generated, last 5 years
- R+D areas
- Vision
- Organization chart

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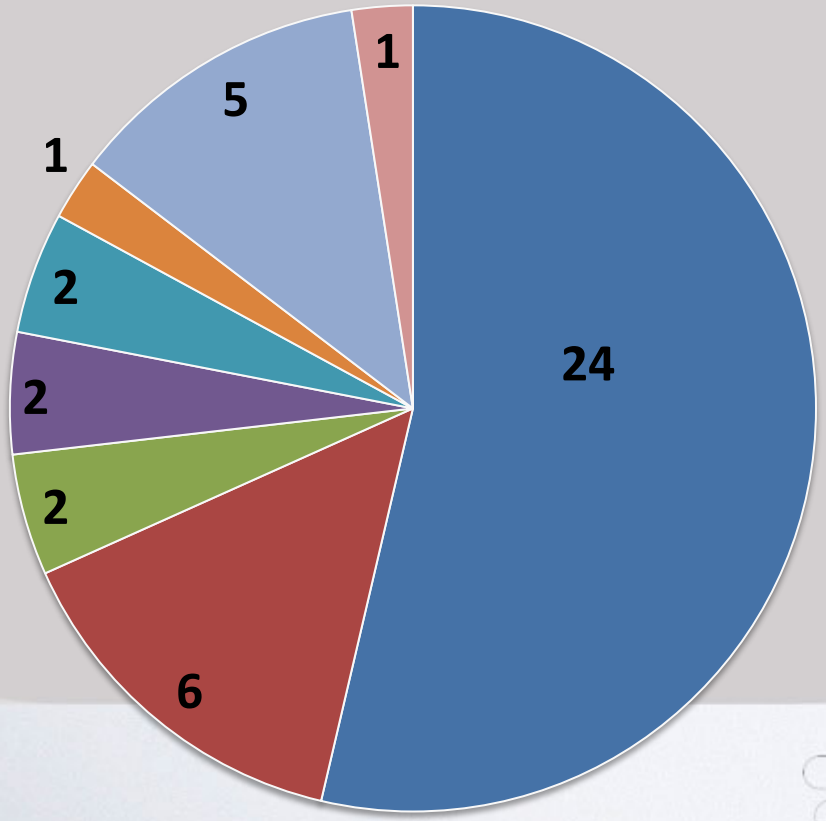
MISSION

- Virtual institute promoted by the Public University of Navarre.
- Mission: design, analysis, implementation and optimization of Smart environments (Smart Home, Smart City, Smart Region, etc.)
- Multidisciplinary team able to develop large-scale projects in these fields.
- Open and collaborative initiative.

FACULTY & STAFF

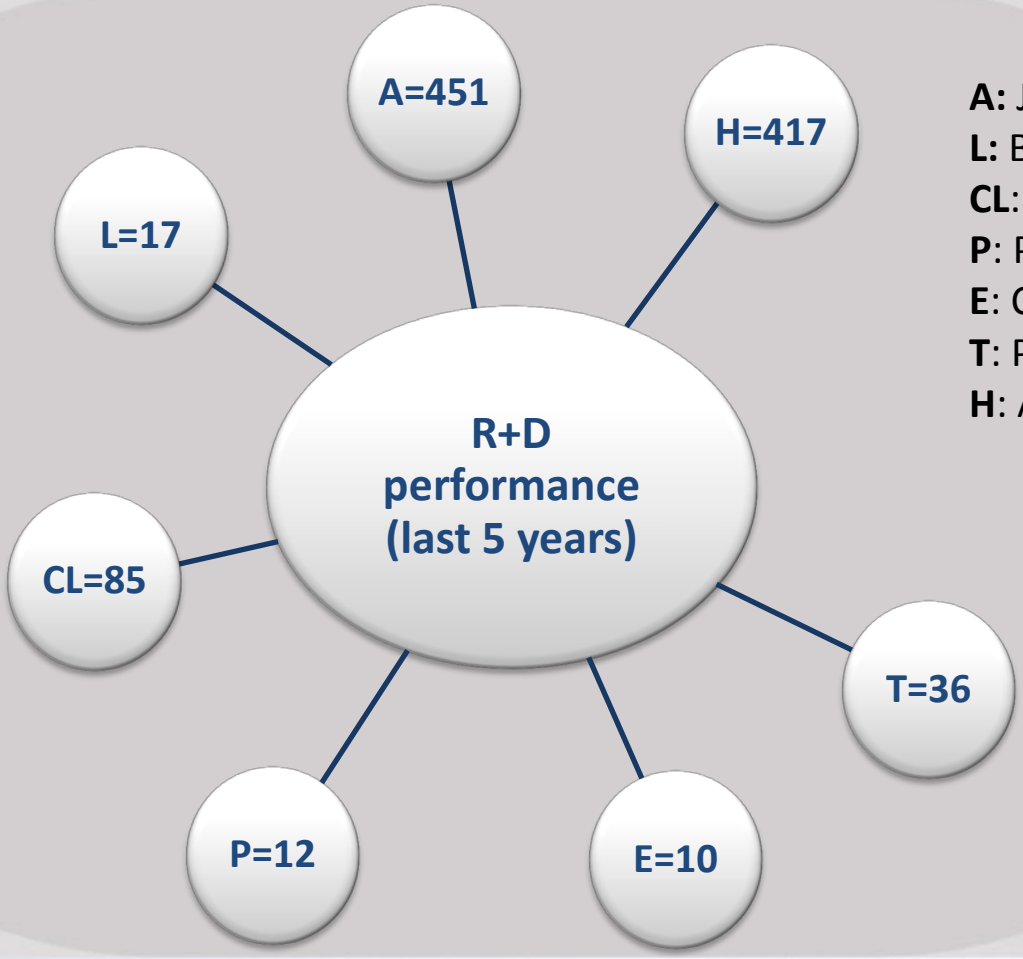
88 senior researchers. Including PhD & PostDoc students, >100 researchers



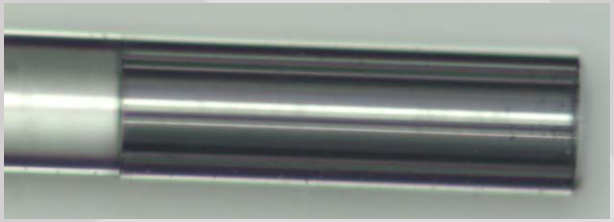
Number of senior researchers by Department

- Electrical and Electronic Engineering
- Automatics and Computing
- Statistics and Operational Research
- Agricultural Projects and Engineering
- Public Law
- Mechanical, Energy and Materials Engineering
- Mathematics and Computer Engineering
- Sociology

SCIENTIFIC & TECNOLOGICAL PRODUCTIVITY, LAST 5 YEARS



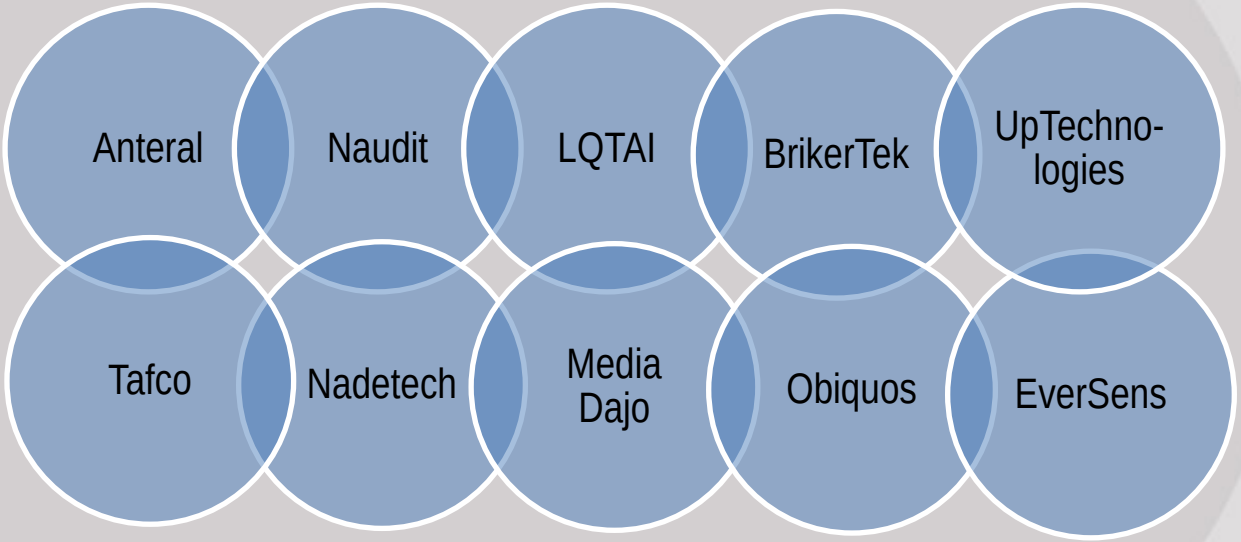
A: Journal papers
L: Books
CL: Book chapters
P: Patents
E: Companies created (spin-offs)
T: PhD theses
H: Aggregated h index



R+D PROJECTS & GRANTS, LAST 5 YEARS

Public funding	No. projects	128
	Amount	13.209.282 €
Private funding	No. contracts	215
	Amount	6.015.221 €
TOTAL	**Number**	**343**
	Amount	**19.224.504 €**

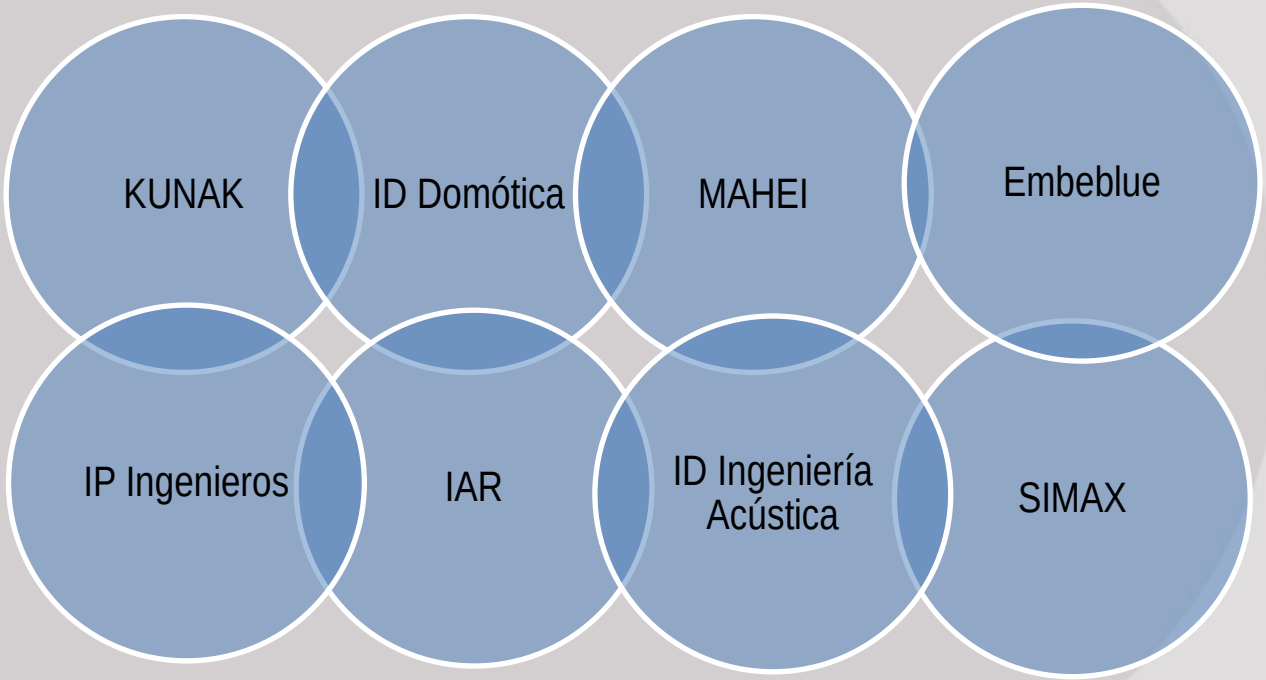
COMPANIES GENERATED, LAST 5 YEARS



Spin
-
offs

OTHER CLOSE COMPANIES

Satellite companies



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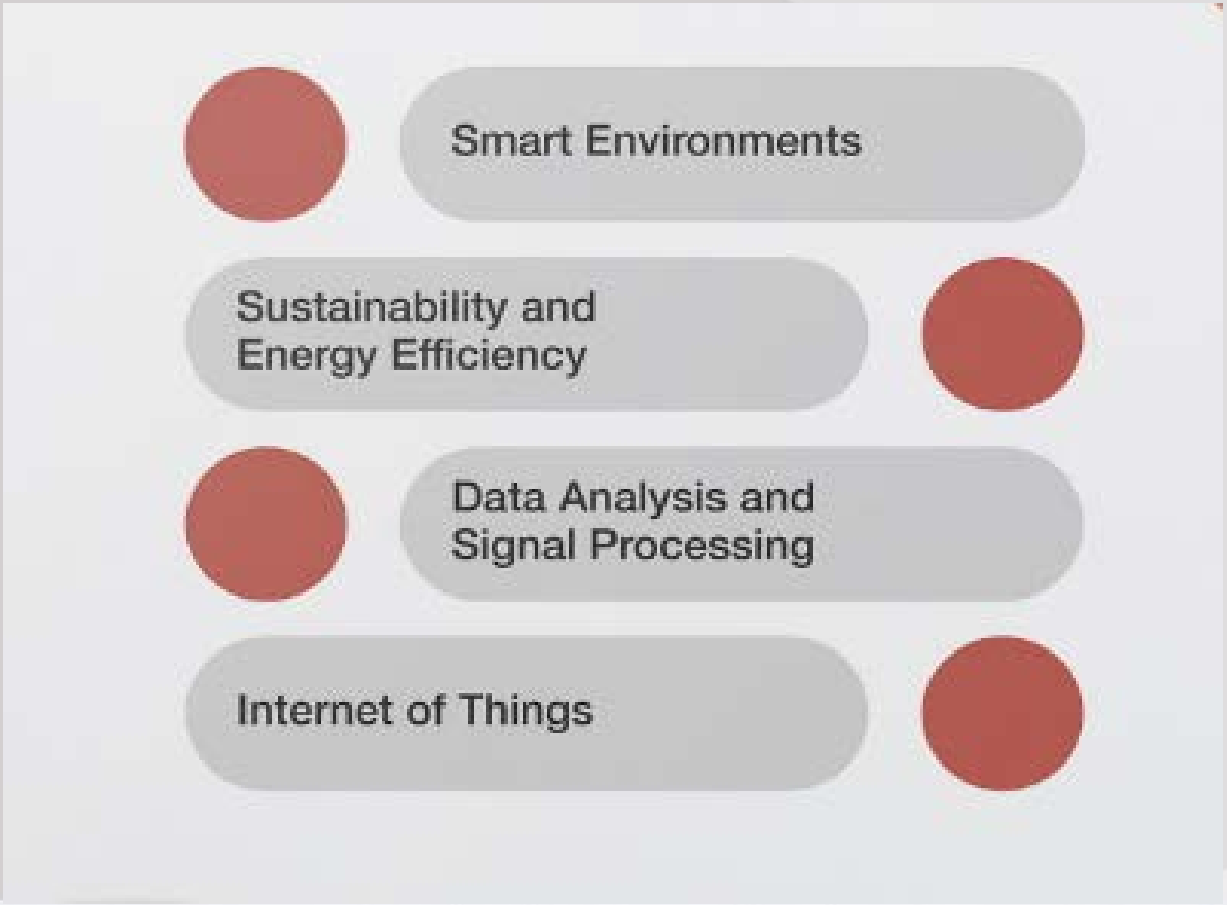
AREAS OF INTEREST



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R+D AREAS

A. Sensors
A.1 Optical fibers
A.2 Electronic sensor interfaces
A.3 Wireless sensors
A.4 WSNs
B. ICT
B.1 Terahertz Technologies
B.2 Antennas and Microwaves
B.3 Communication Electronics
B.4 Network Analysis
C. Renewable Energies and Environment
C.1 Renewable Energies and Smart Grids
C.2 Power Electronics
C.3 Environmental Sustainability
C.4 Energy Efficiency

D. Big Data
D.1 Artificial Intelligence
D.2 Data Mining
D.3 Multiprotocol Platforms
D.4 Computer Systems
E. Enabling Technologies
E.1 Transport
E.2 Accesibility
E.3 e-government
E.4 e-services
E.5 Digital Signal Processing

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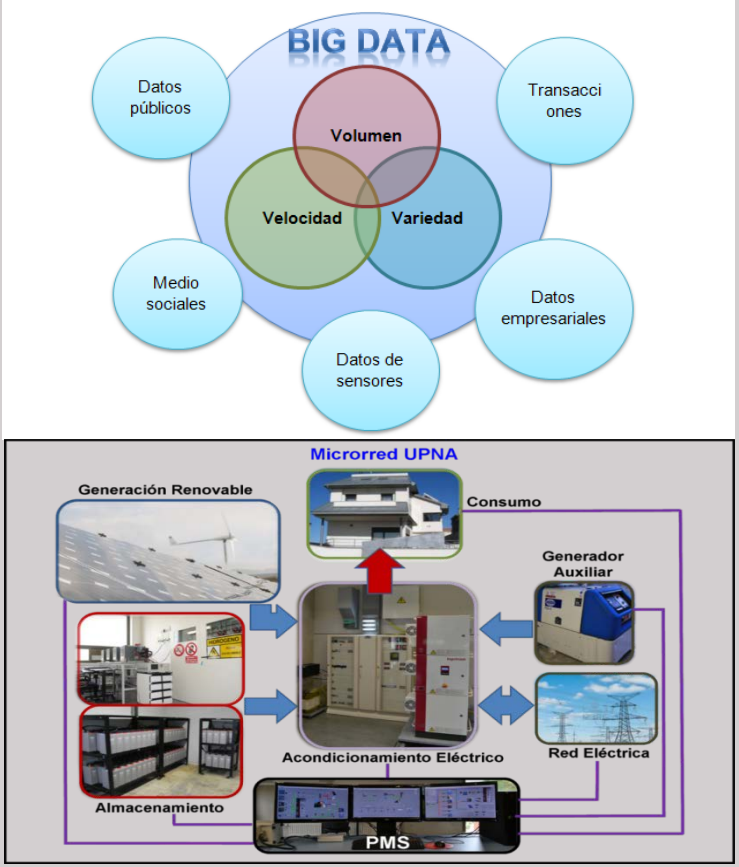
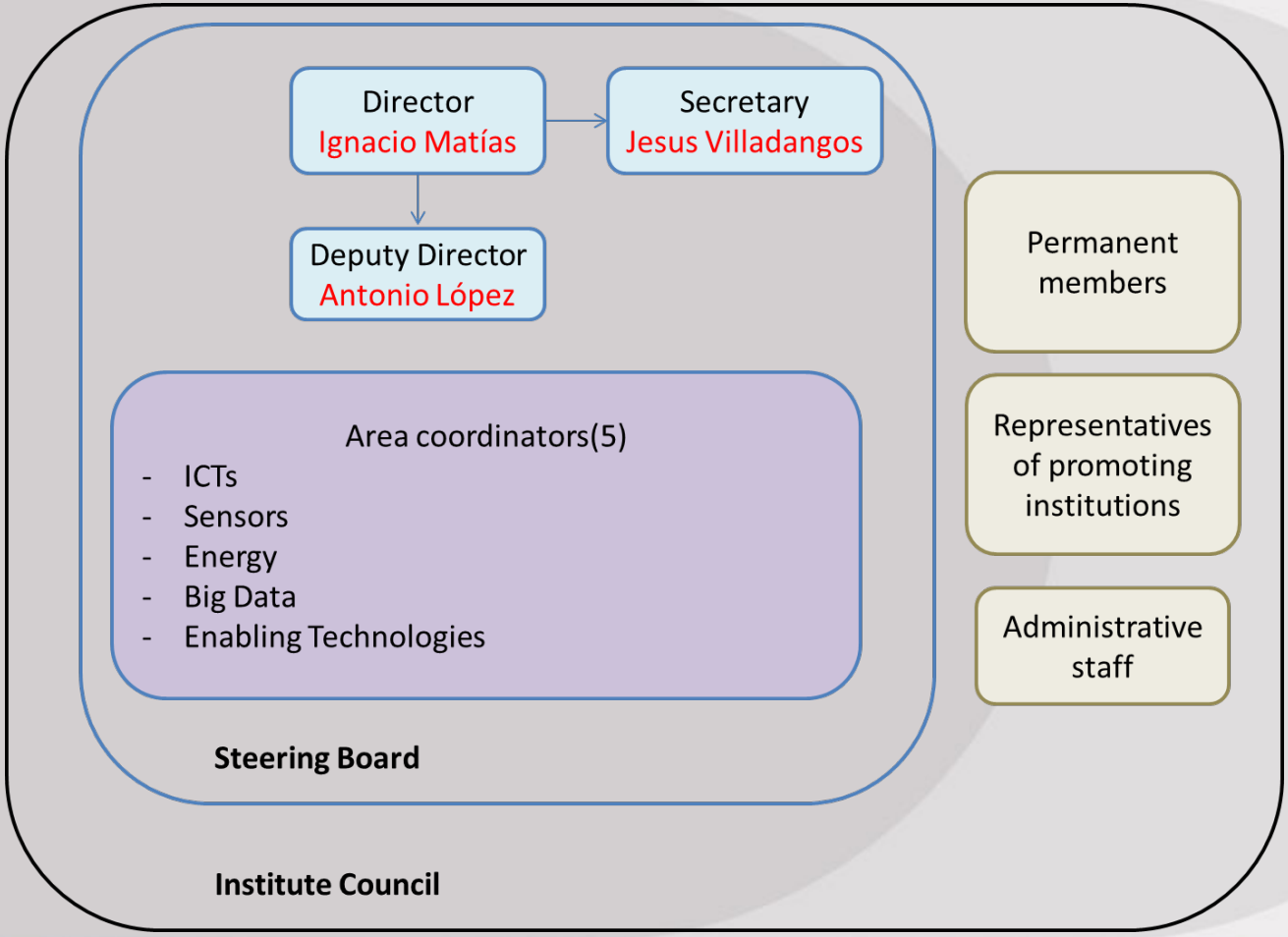
VISION



- Promoting excellence and cross-fertilization of the institute research groups, enabling cooperation in high-impact multidisciplinary projects.
- Align the objectives of the institute with priorities of regional, national and international R+D plans.
- Promoting cooperation and development of R+D networks with the science-technology-industry system stakeholders.

ORGANIZATION CHART



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R+D PROJECTS 2016

			National funding		International funding				
		Contracts	Regional	National	H2020	POCTEFA	Other(SUDOE, COST, etc)	Total International	Total Global
Accepted	ISC			6*					6
	ISC Members	19	26	10	2		1	3	58
Pendint	ISC			1		1		1	2
	ISC Members			3		1	1	2	6
Rejected	ISC				2			2	2
	ISC Members		2	2	2		3 + 2	7	9
Total		**19[1]**	**28**	**22[3]**				**15**	**84**

[1]0,5 M€
[3]1,5 M€

R+D AREAS. INNER CLASIFICATION

1 Sensors

Manuel López-Amo
Francisco J. Arregui
Ignacio R. Matías
Cándido Bariáin
Francisco Falcone
Alayn Loayssa
Jesús Corres

2 ICTs

Carlos del Río
Ramón Gonzalo
Íñigo Ederra
Txema Lopetegui
Jorge Teniente
Antonio López
María J. Erro
Mikel Izal
Eduardo Magaña

3 Renewable Energies and Environment

Luis Marroyo
J. Javier López
Pablo Sanchis
Eugenio Gubía
David Astrain
José Luis Torres
Almudena García

4 Big Data

Edurne Barrenechea
Humberto Bustince
Daniel Morató
Ana Burusco
Jesús Villadangos
Juan C. Jorge
José R. González de Mendívil
José J. Astrain

5 Enabling Technologies

Joaquín Sevilla
Rafael Cabeza
David Benito
Fermín Mallor
José Alenza
Martín Razquin
Armando Malanda
Luis Serrano
Javier Faulín
Jesús Oliva