

**INESCTEC**  
TECHNOLOGY & SCIENCE  
| ASSOCIATE LABORATORY

COORDINATED BY  
**INESCPORTO**  
PORTUGAL



# FROM KNOWLEDGE GENERATION TO SCIENCE-BASED INNOVATION

**Research and Technological Development**

**Technology Transfer and Valorisation**

**Advanced Training**

**Consulting**

**Pre-incubation of Technology-based Companies**

# Our Mission



**GOALS:**

Internationally competitive R&D

+

An effective interface between the academic world and society



**RESULTS:**

Better science in Portugal

&

A more competitive business fabric

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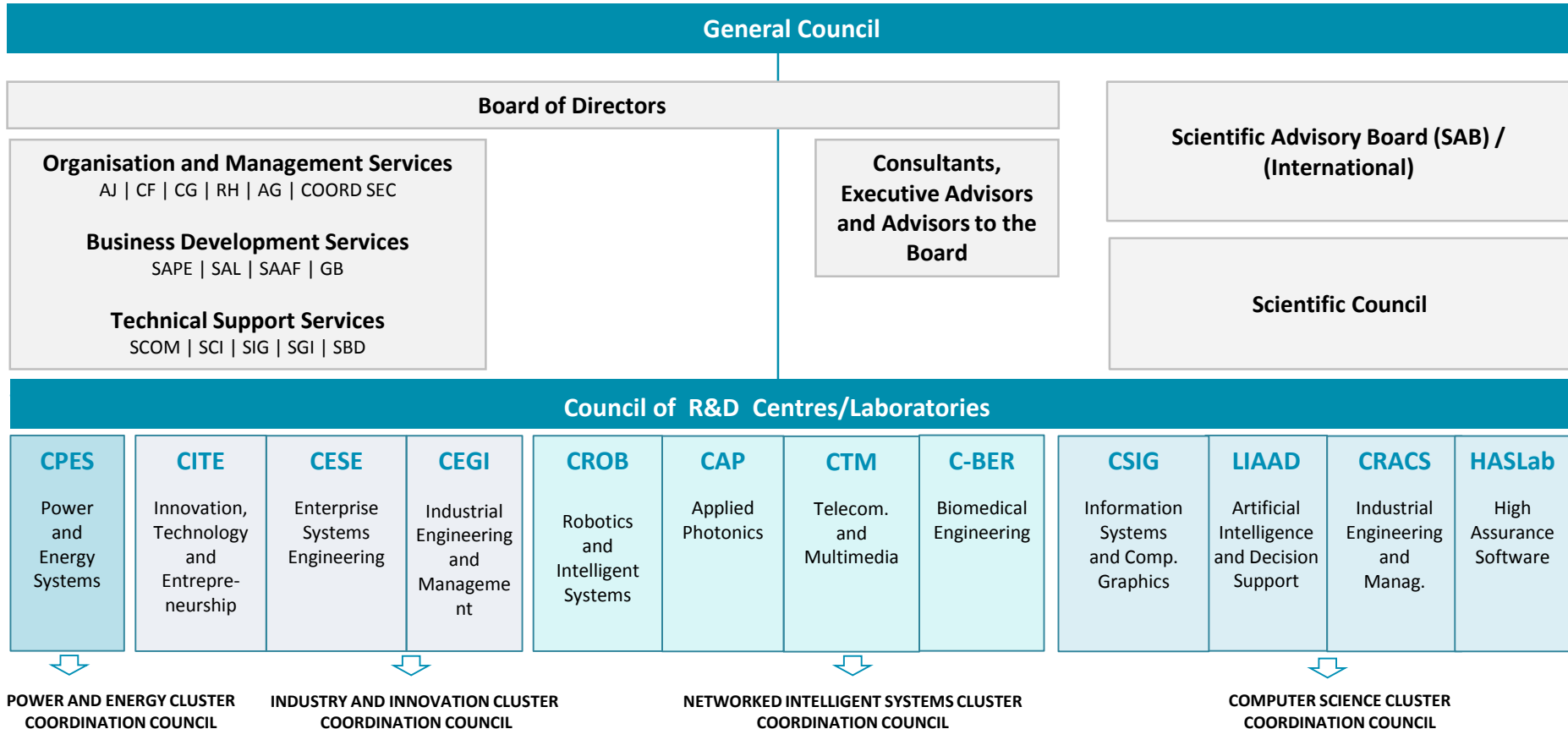
# Institutional



**INESCTEC**

TECNOLOGIA E CIÊNCIA  
LABORATÓRIO ASSOCIADO

COORDENADO POR  
INESCPORTO



**ASSOCIATE UNIT**

**CISTER**  
Real-Time and Embedded Computing Systems

# The Scientific Advisory Board of INESC TEC



### PRESIDENT

José Carlos Príncipe  
University of Florida  
USA



### CESE

Volker Stich  
Aachen University of  
Technology  
Germany



### CSIG, HASLAB, CRACS

José Luíz Fiadeiro  
University of Leicester  
UK



### CTM

John O'Reilly  
Cranfield University  
UK



### CTM

Leonardo Chiariglione  
CEDEO  
Italy



### CPES

Tomaz Gómez  
Universidad Pontificia Comillas  
Spain



### CAP

Faramarz Farahi  
University of North Carolina  
at Charlotte  
USA



### CROB

Peter Corke  
University of Melbourne  
Australia



### CITE

Steven P. Nichols  
University of Texas at Austin  
USA



### CSIG, HASLAB E CRACS

José A. B. Fortes  
University of Florida  
USA



### LIAAD

Maarten van Someren  
Universiteit van Amsterdam  
The Netherlands



### CEGI

James C. Spohrer  
IBM University Programs  
World-Wide (IBM UP)  
USA



### C-BER

Max Viergever  
University Medical Center Utrecht  
The Netherlands

### ASSOCIATE UNIT INESC TEC



### CISTER

Daniel Mossé  
University of Pittsburg  
USA



## INESC TEC Coordinated by INESC Porto

- Private non-profit association
- Public Interest Institution since 2001
- Associate Laboratory statute awarded in 2002 by the Portuguese Ministry of Science
- Awarded the level of Excellent by an international evaluation board of the Ministry of Science

### MAIN FIGURES

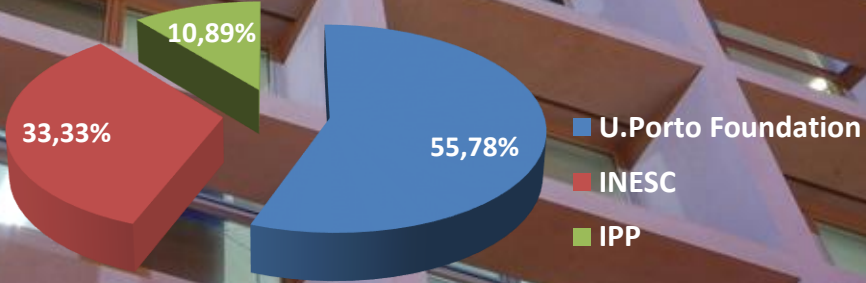
Partnership-based resources = 1.515 M€

Turnover = 11.8 M€

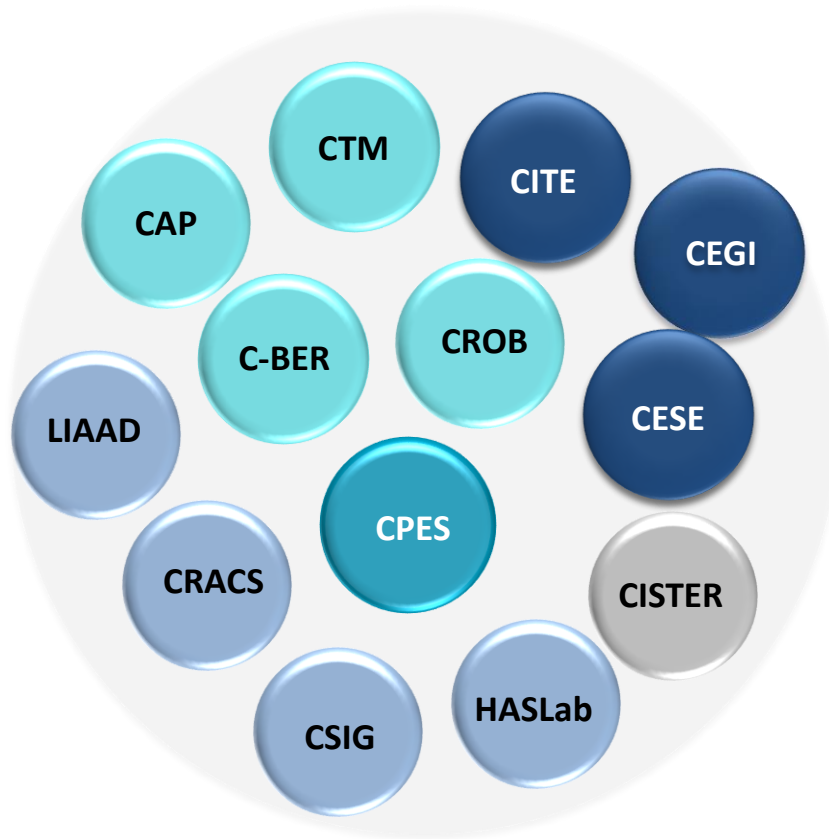
R&D Centres = 12 + 1

Collaborators = 800

- R&D = 600
- PhD = 300
- Integrated PhDs = 250
- Support Services = 57



## INESC TEC (INESC TECHNOLOGY & SCIENCE) – coordinated by INESC Porto



**CPES** – Centre for Power and Energy Systems

**CITE** – Centre for Innovation, Technology and Entrepreneurship

**CESE** – Centre for Enterprise Systems Engineering

**CEGI** – Centre for Industrial Engineering and Management

**CAP** – Centre for Applied Photonics

**CTM** – Centre for Telecommunications and Multimedia

**C-BER** – Centre for Biomedical Engineering Research

**CROB** – Centre for Robotics and Intelligent Systems

**CSIG** – Centre for Information Systems and Computer Graphics

**LIAAD** – Laboratory of Artificial Intelligence and Decision Support

**CRACS** – Centre for Research in Advanced Computing Systems

**HASLab** – High-Assurance Software Laboratory

### ASSOCIATE UNIT

**CISTER** - Research Centre in Real-Time and Embedded Computing Systems

# Our Associates: our Strength



inesc



INSTITUTO  
POLITÉCNICO DO PORTO



FEUP FACULDADE DE ENGENHARIA  
UNIVERSIDADE DO PORTO



FC FACULDADE DE CIÊNCIAS  
UNIVERSIDADE DO PORTO



FEP FACULDADE DE ECONOMIA  
UNIVERSIDADE DO PORTO

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INESCTEC  
TECHNOLOGY & SCIENCE  
ASSOCIATE LABORATORY

and Privileged Partners:



Universidade do Minho



# Timeline

1980		<b>INESC formed in Lisbon</b>
1985		<b>INESC Norte in Porto</b>
1996 - 1998 Dec. 1998		<b>INESC in Norte, progressive autonomy</b>
		<b>Creation of INESC Porto</b>
2002		<b>INESC Porto – Associate Laboratory</b>

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TECHNOLOGY & SCIENCE  
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# Timeline

2007



INESC Porto takes on new dimensions in fundamental R&D areas



New model of growth: network



2011



INESC TEC Associate Laboratory

2013

C-BER

New Centre

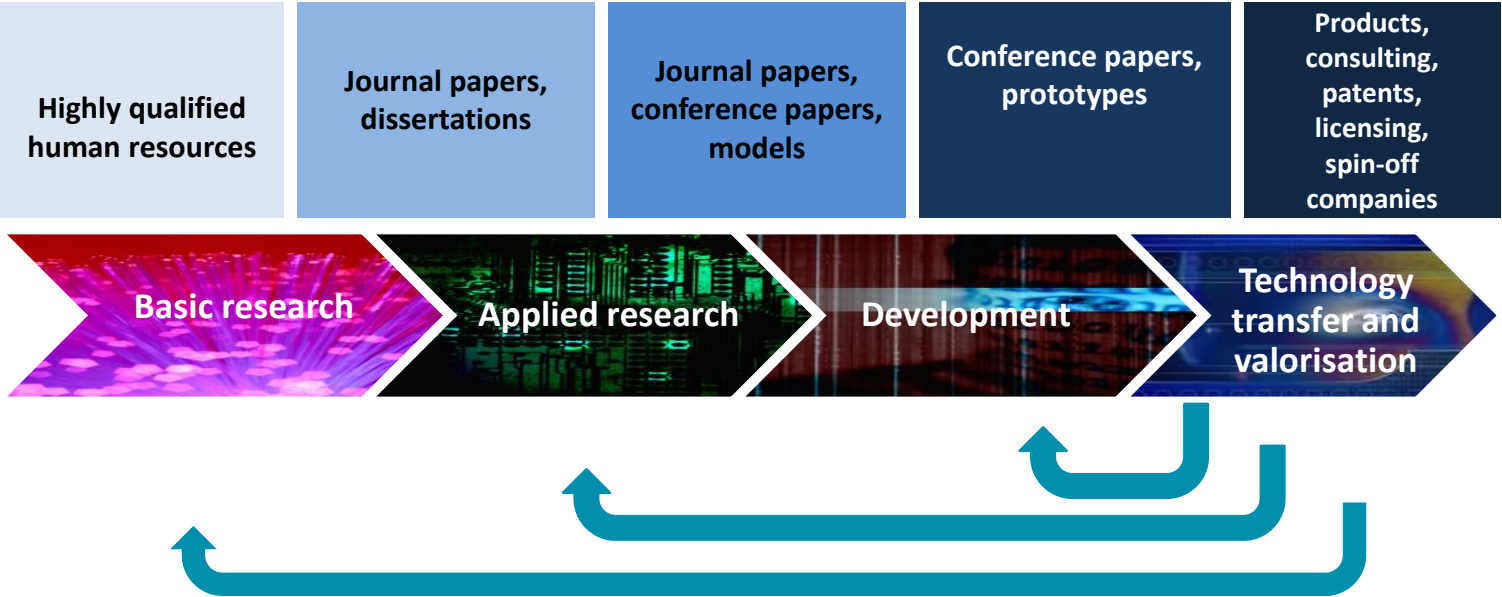
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# Profile of activities in the value chain

The metaphor of the production chain of knowledge-value:  
**we make it a reality**



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# Sources of funding (Number of Projects)

Sources of Funding	Year					
	2008	2009	2010	2011	2012	2013
National Programmes	49	44	83	106	95	102
European Union Programmes	20	19	20	28	30	39
R&D Services and Consulting	70	78	90	102	109	108
Other Sources of Funding			10	7	10	6
Other External Sources	6	9	3	4	7	8
Internal		1	3	8	8	6
<b>Total</b>	<b>145</b>	<b>151</b>	<b>209</b>	<b>255</b>	<b>259</b>	<b>269</b>



# Competitive Research funded by the Portuguese Foundation for Science and Technology

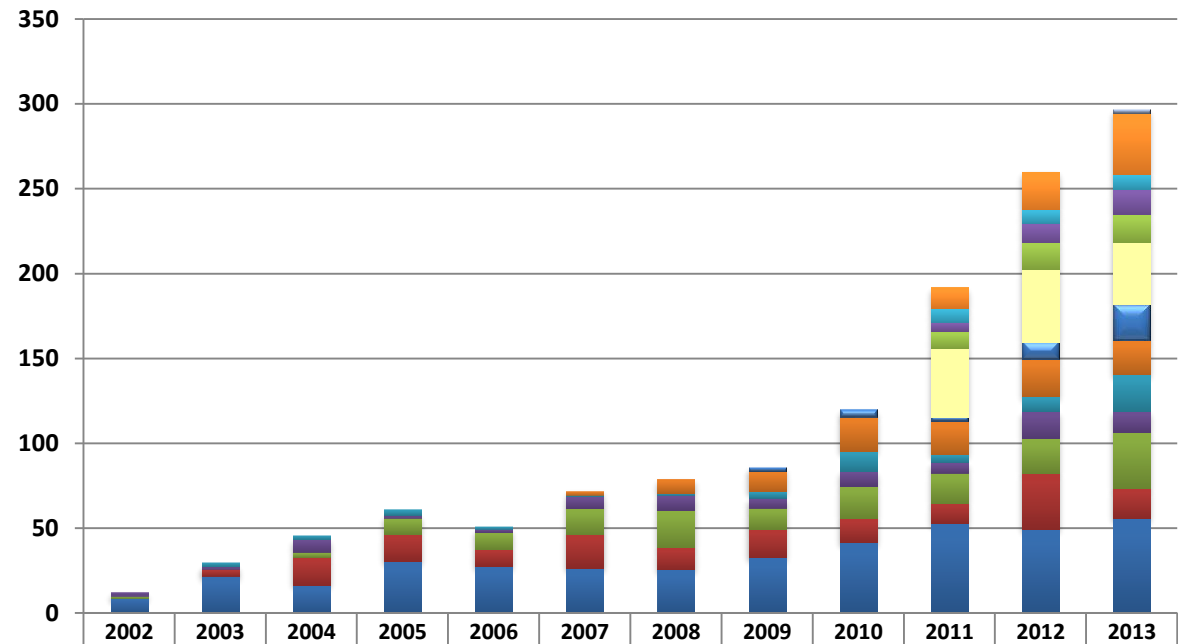
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	Total
No. of Proj.	8	12	21	27	22	27	26	30	50	60	61	65	409

Research funded by the Ministry of Science is fundamental not only to provide advanced training to human resources, but also to create knowledge.

There are other national sources of funding (QREN/NSRF) which support the development of projects and INESC TEC is also an active agent in these programmes.



# Papers published in international journals

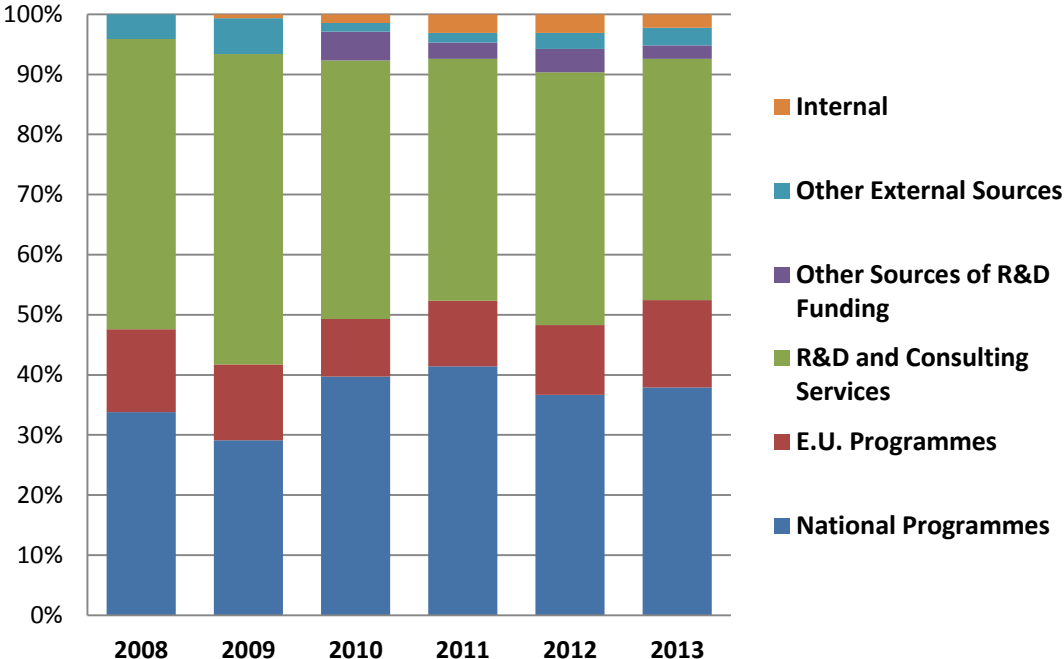


	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
■ BRAIN - Biomedical Research And Innovation												2
■ CEGI - Industrial Engineering and Management										12	22	36
■ CISTER - Real-Time and Embedded Computing Systems										8	8	9
■ HASLab - High Assurance Software										6	11	15
■ CRACS - Advanced Computing Systems										10	16	16
■ LIAAD - Artificial Intelligence and Decision Support										40	43	37
■ CROB - Robotics and Intelligent Systems								2	4	3	10	21
■ CITE - Innovation, Technology and Entrepreneurship						2	8	12	20	19	22	20
■ CSIG - Information Systems and Computer Systems	0	2	2	3	1	1	1	4	12	5	9	22
■ CESE - Enterprise Systems Engineering	2	2	8	2	2	7	9	6	9	6	16	12
■ CTM - Telecommunications and Multimedia	1	0	3	9	10	15	22	12	19	18	20	33
■ CPES - Power and Energy Systems	0	4	16	16	10	20	13	17	14	12	33	18
■ CAP - Applied Photonics	9	22	17	31	28	27	26	33	42	53	50	56

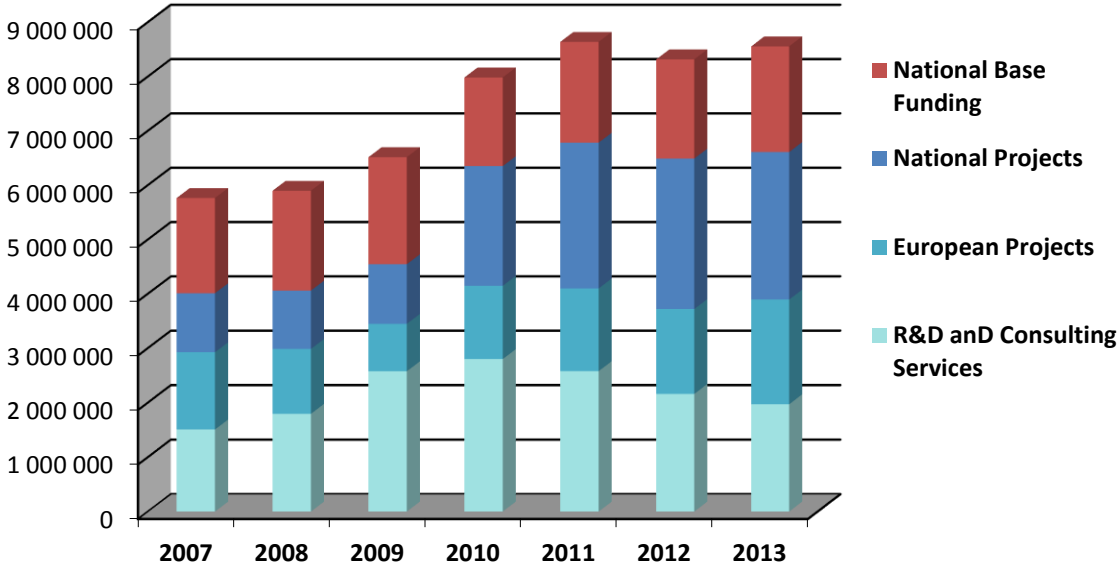


# Sources of Funding

## NO. PROJECTS



## INCOME FROM PROJECTS



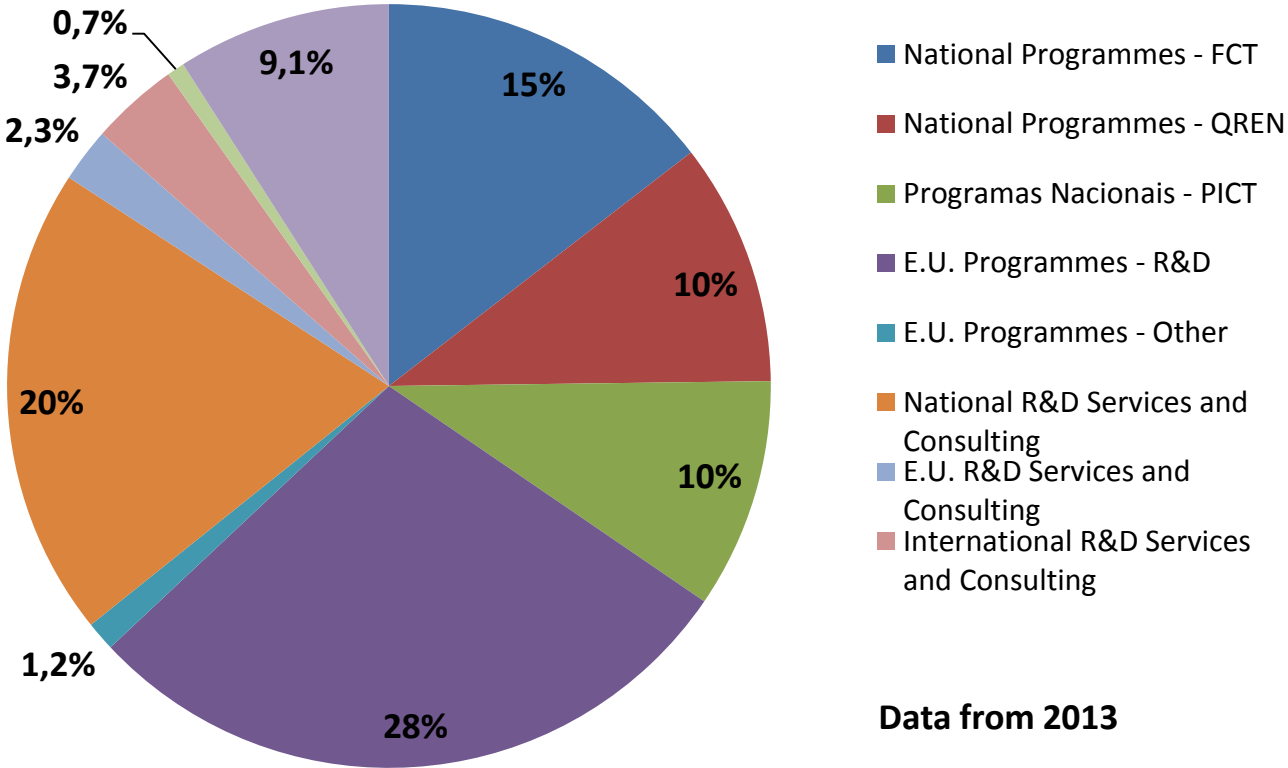
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# Sources of Funding: diversity is key

## SOURCES OF INCOME (%)

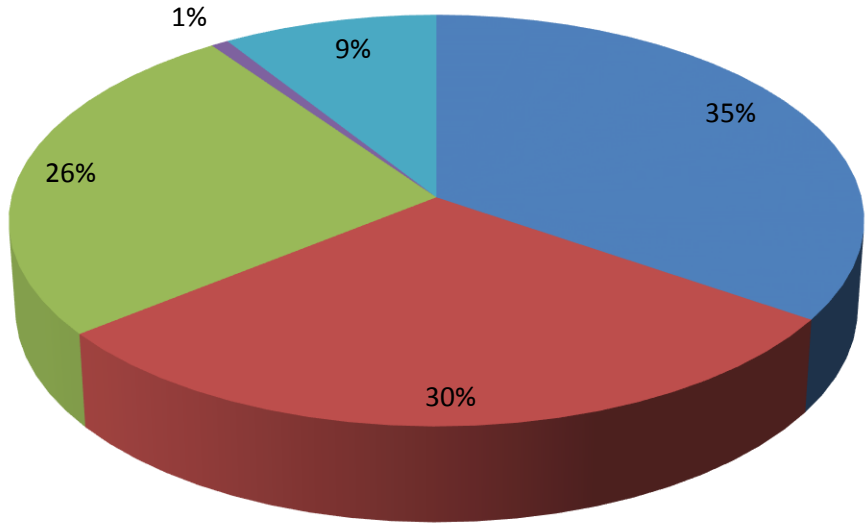


**R&D Services and Consulting secure 36% of funding**

**International activities represent 26% of funding**



# Sources of Funding: diversity is key



- National Programmes
- European Union Programmes
- R&D and Consulting Services
- Other Sources of R&D Funding
- Other External Sources

Data from 2013

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# The research units and the production chain of knowledge

Basic research

Applied research

Development

Technology transfer and valorisation

## CREATIVE KNOWLEDGE

Applied Photonics

Telecommunications and Multimedia

Power and Energy Systems

Robotics and Intelligent Systems

Enterprise Systems Engineering

Information Systems and Computer Graphics

Innovation, Technology and Entrepreneurship

Industrial Engineering and Management

Biomedical Engineering

Real Time Embedded Computing Systems

High Assurance Software

Artificial Intelligence and Data Analysis

Advanced Computing Systems

INNOVATION AND VALUE

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# High-level R&D contracts



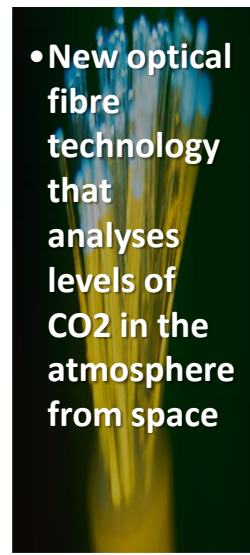
BBC



- New concepts for digital TV



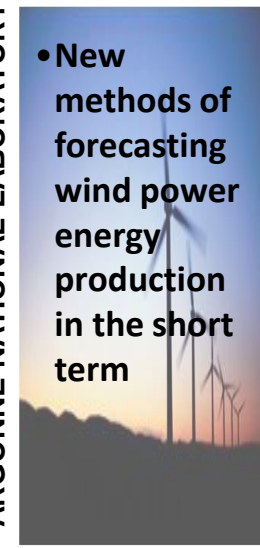
ESA



- New optical fibre technology that analyses levels of CO2 in the atmosphere from space



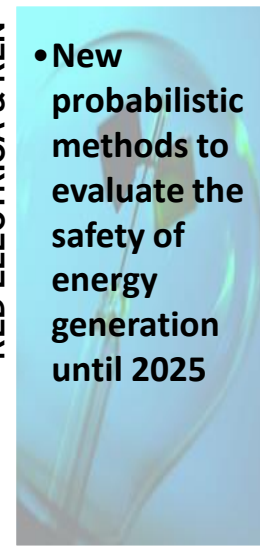
ARGONNE NATIONAL LABORATORY



- New methods of forecasting wind power energy production in the short term



RED ELÉCTRICA & REN



- New probabilistic methods to evaluate the safety of energy generation until 2025



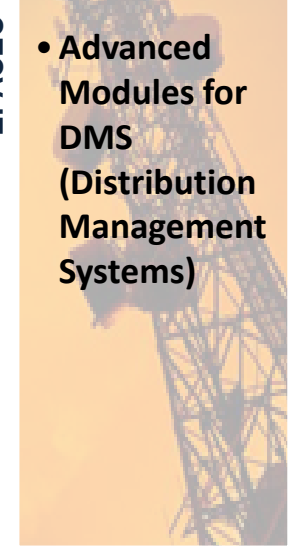
PORTUGAL TELECOM



- New systems/ services for broadcasting and multicasting



EFACEC



- Advanced Modules for DMS (Distribution Management Systems)

# Socially relevant Research : 2 Examples

## 1<sup>ST</sup> EXAMPLE: smart grids

### ACTION

- 4 European projects, 3 FCT projects
- Various national development and consulting contracts with significant financial support from industry
- An important project for industry (INOVGRID)

### RESULT

**A consortium led by the largest energy operator in Portugal (EDP) along with 4 partners from industry and INESC TEC as the only R&D institution involved in defining the technical specifications**

**A solution and nationally competitive technologies that can be exported**

**A pilot project for a Smart City: Évora – 33,000 consumers using Smart Grid technology**



# Socially relevant Research : 2 Examples

## 2<sup>ND</sup> EXAMPLE: the footwear industry

### ACTION

- 5 European projects, 14 national projects with significant financial support from industry
- Demonstration and training programmes

### RESULT

**Guaranteeing competitiveness in the Portuguese footwear industry**

**Many companies can benefit from INESC TEC's technology**

**Transforming the Equipment Manufacturing Industry: exporting to Italy, USA, China and Brazil**



# Infrastructure

<b>INESC TEC</b>  12 R&D Centres + 1 Associate Unit 6 poles   Porto, Braga and Vila Real	○ CPES	○ CITE	○ CESE	○ CEGI	○ CROB
	○ CAP	○ CTM	○ C-BER	○ CSIG	○ LIAAD
	○ CRACS	○ HASLASB	○ CISTER		

## INESC TEC:

In four university *campi*:

### University of Porto

- FEUP (Engineering)
- FCUP (Science)
- FEP (Economics)

**University of Trás-os-Montes and Alto Douro**  
Engineering

### Polytechnic Institute of Porto

- ISEP (Engineering)

**University of Minho**  
Engineering

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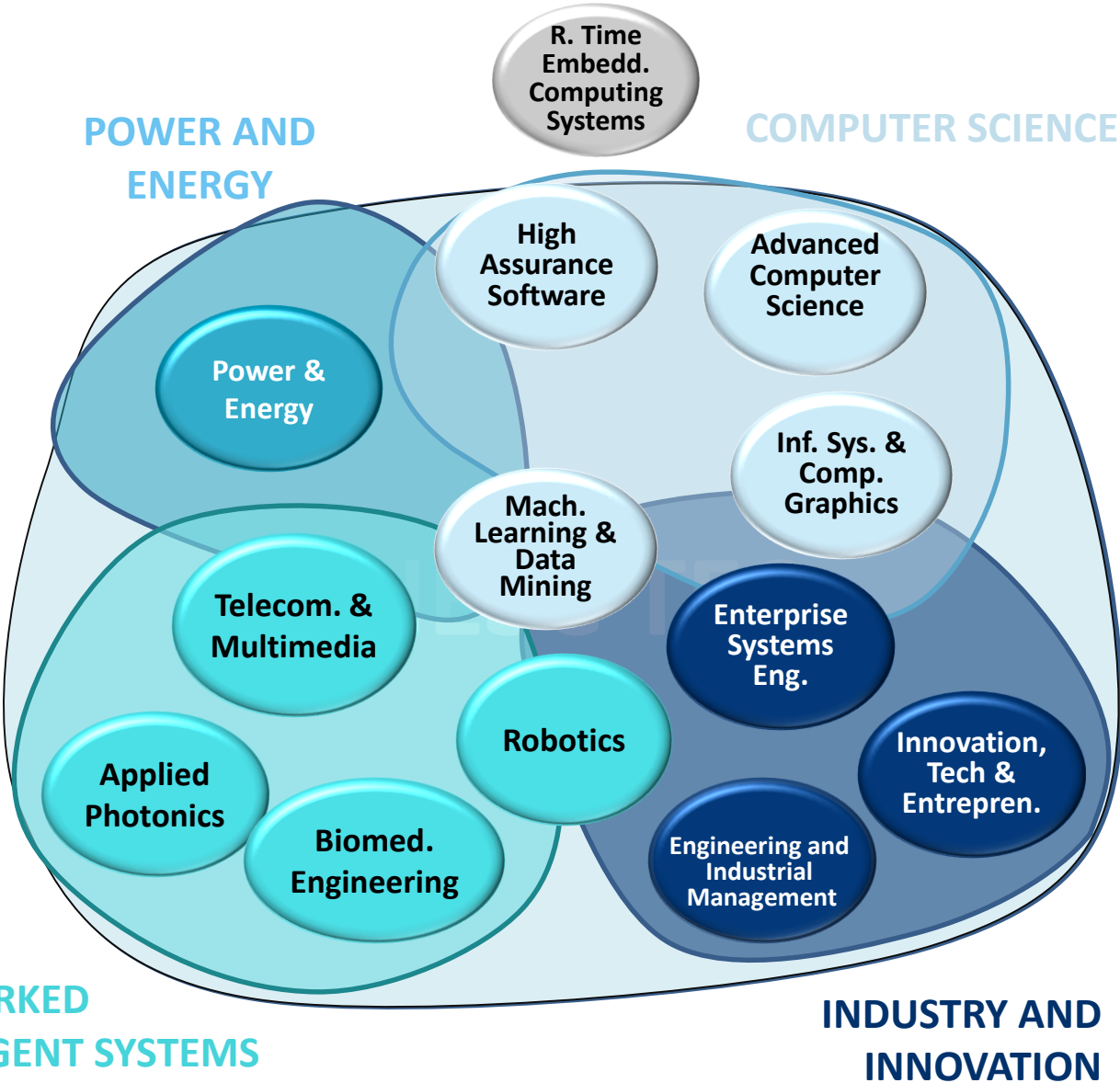
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# INESC TEC: A compact puzzle

- 600 Researchers
- 300 PhD holders
    - 250 Integrated PhD

A compact and coherent continuum



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# Geographic Location



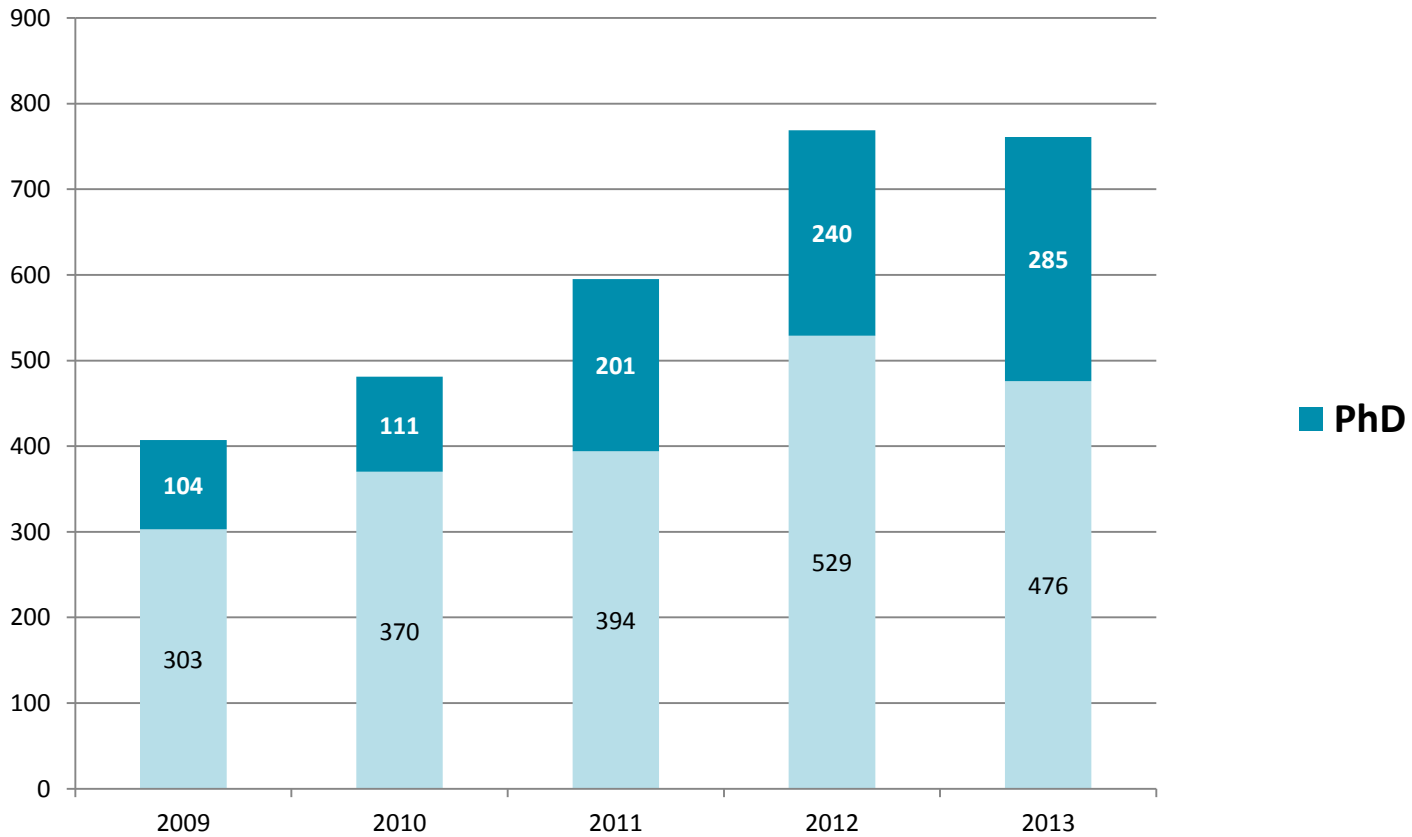
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# Scientific capacity

## HUMAN RESOURCES



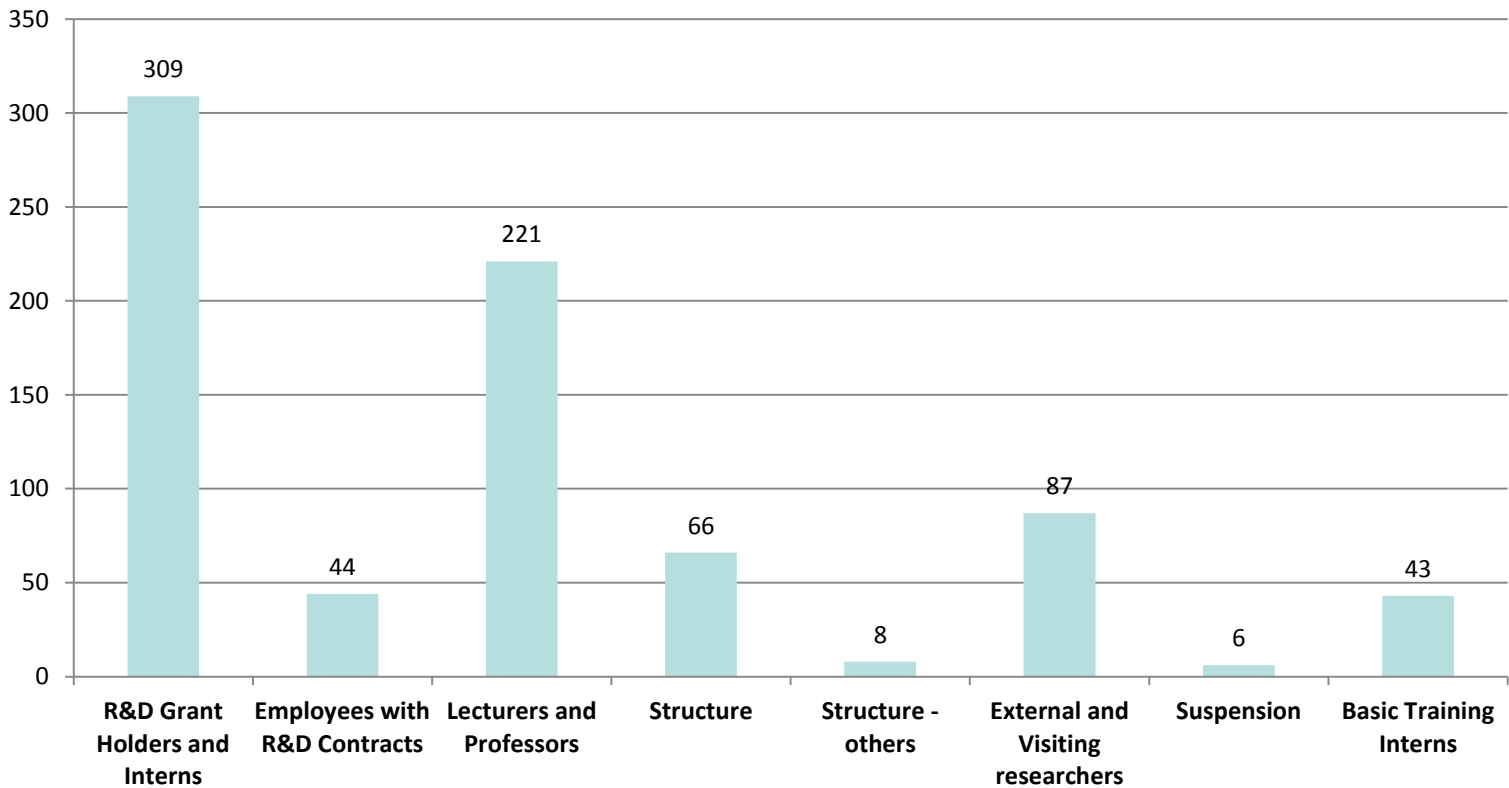
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# Human Resources: Type of Link

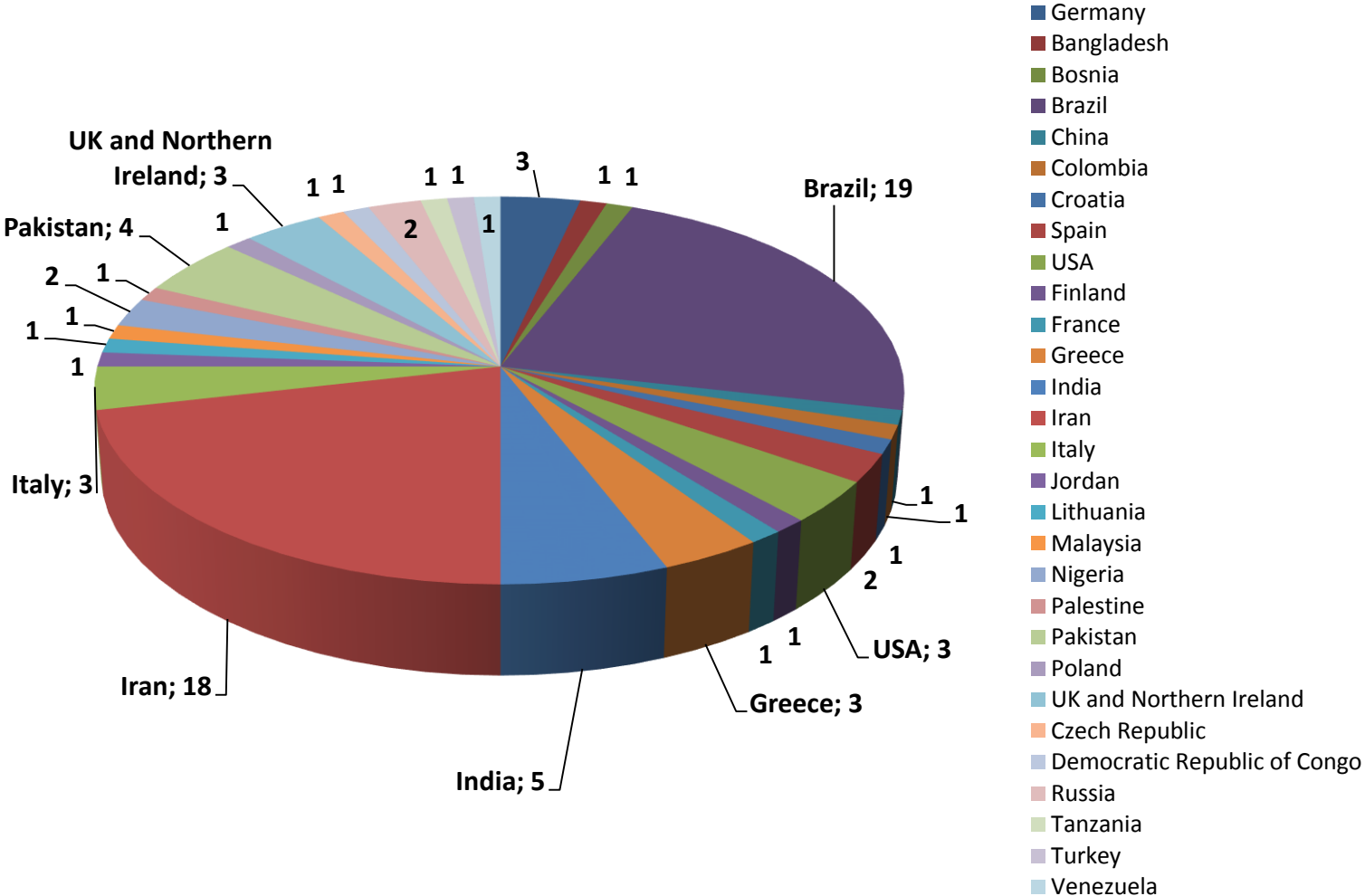


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# Human Resources: nationalities of foreign researchers

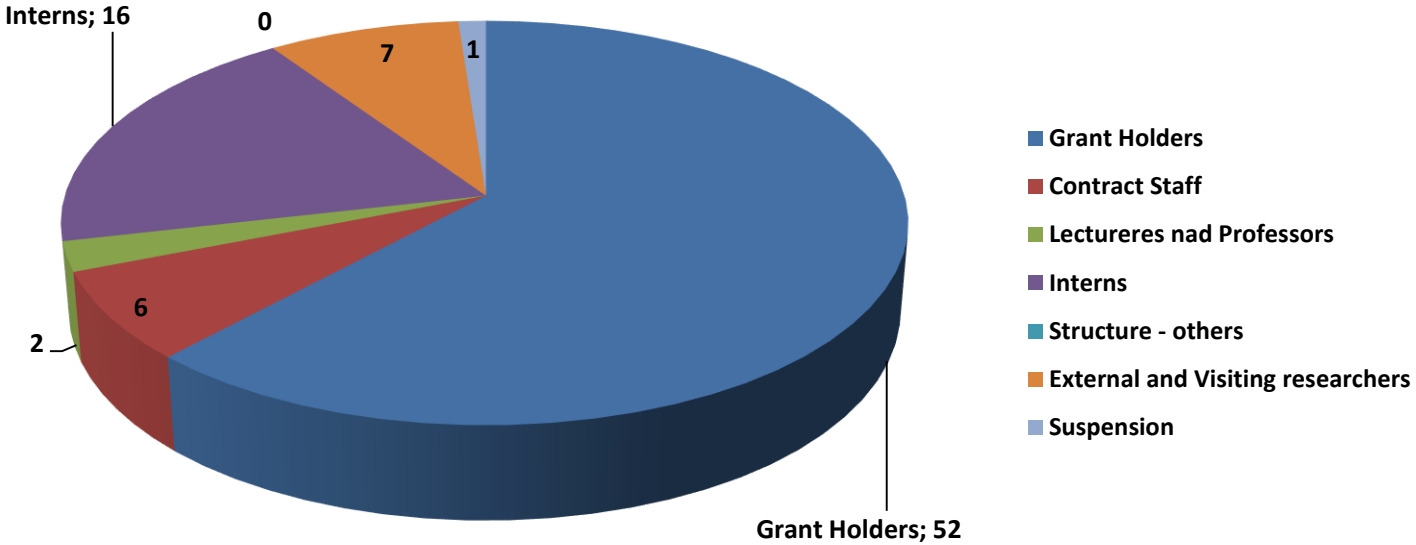


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# Foreign researchers at INESC TEC



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# International Doctoral Programmes

AVANCED TRAINING

PhD TRAINING

## International Partnerships

40% of foreign students

### MIT Portugal Massachusetts Institute of Technology

---

ENGINEERING DESIGN AND ADVANCED MANUFACTURING

---

SUSTAINABLE ENERGY SYSTEMS

---

TRANSPORTATION SYSTEMS

### UTAustin Portugal

---

DIGITAL MEDIA

---

UNIVERSITY TECHNOLOGY ENTERPRISE NETWORK

### Carnegie Mellon Portugal Information and Communication Technologies Institute

---

MAP-i COMPUTER SCIENCE

---

MAP tele TELECOMMUNICATIONS

UNIVERSITY OF AVEIRO

UNIVERSITY OF MINHO

UNIVERSITY OF PORTO

### FEUP Faculty of Engineering of the University of Porto

---

PD EEC ELECTRICAL AND COMPUTER ENGINEERING

---

PD EIG INDUSTRIAL ENGINEERING AND MANAGEMENT

---

MIETE MASTER'S IN INNOVATION AND TECHNOLOGICAL ENTREPRENEURSHIP

---

(FEUP/FEP FACULTY OF ECONOMICS OF THE UNIVERSITY OF PORTO)

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TECHNOLOGY & SCIENCE  
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## MISSION

Promote the **scientific and technological development of Brazil as well as international cooperation** in areas such as **information technology, energy, communications and related sciences**. This will be achieved by implementing multidisciplinary and consortium projects similar to projects conducted within the European Union's Framework Programmes.

Nongovernmental Science and Technology Institution, which aims at **coordinating a network of cooperation in research, development and technology transfer in Brazil**, together with public Brazilian universities and INESC TEC.

Passion for **Knowledge**

Respect for the identities

**Knowledge → Social well-being**

**Responsible Science**

Solidarity among partners



**PAST ACTIVITY**

- \_\_\_\_\_ R&D CONTRACTS CELPA, FLAGSHIP
- \_\_\_\_\_ ADVANCED CONSULTING ONS, PROMON FOR ANEEL
- \_\_\_\_\_ PH.D. HOLDERS, GRANT HOLDERS AND POST-DOCS AT INESC TEC
- \_\_\_\_\_ EUROPEAN PROJECTS WITH A BRAZILIAN PARTNER
- \_\_\_\_\_ SPIN-OFF PARTNERSHIPS: FIBERSENSING WITH GÁVEA SENSORS

**ONGOING ACTIVITIES AND NEGOTIATIONS**

**R&D CONTRACTS**

- \_\_\_\_\_ POWER
- \_\_\_\_\_ ROBOTICS
- \_\_\_\_\_ OPTICAL SENSORS
- \_\_\_\_\_ INSTRUMENTATION
- \_\_\_\_\_ ASSET MANAGEMENT
- \_\_\_\_\_ TELECOMMUNICATIONS



**INESC BRAZIL NETWORK**

**PROJECT PRESENTED TO CNPq**

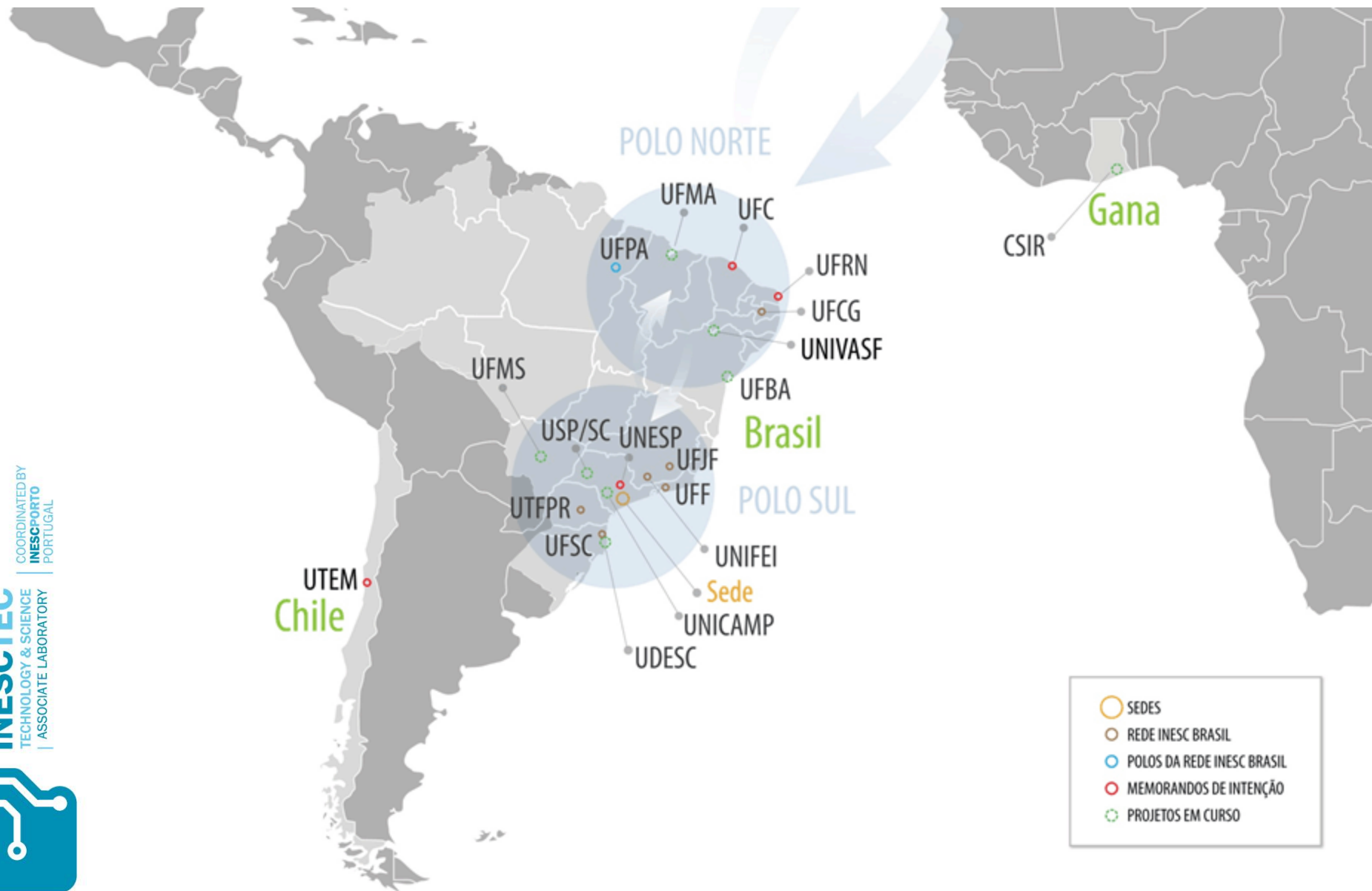
**INESC PORTO**

- \_\_\_\_\_ **UFC** FEDERAL UNIVERSITY OF CEARÁ
- \_\_\_\_\_ **UFPA** FEDERAL UNIVERSITY OF PARÁ
- \_\_\_\_\_ **UFPE** FEDERAL UNIVERSITY OF PERNAMBUCO
- \_\_\_\_\_ **UFRJ/COPPE** FEDERAL UNIVERSITY OF RIO DE JANEIRO
- \_\_\_\_\_ **UFRN** FEDERAL UNIVERSITY OF RIO GRANDE DO NORTE
- \_\_\_\_\_ **UFSC** FEDERAL UNIVERSITY OF SANTA CATARINA
- \_\_\_\_\_ **UNICAMP** STATE UNIVERSITY OF CAMPINAS
- \_\_\_\_\_ **UNIFEI** FEDERAL UNIVERSITY OF ITAJUBÁ
- \_\_\_\_\_ **USP/SÃO CARLOS** UNIVERSITY OF SÃO PAULO/SÃO CARLOS CAMPUS

**THE NETWORK IS MANAGED  
BY INESC P&D BRASIL, SÃO PAULO**

**MISSION:** Contribute to the **scientific and technological development of Brazil** and promote international cooperation in engineering, information technology, communications and related sciences.





# INESC TEC: R&D Centres and Laboratories



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### Areas of Activity

- Power Systems planning and operation, Load modelling, Reliability
- Dynamic security analysis, Integration of embedded generation
- Isolated systems
- Control of wind generators and wind power forecasting
- Smart Grids, Micro-generation and Micro-grids
- Active distribution networks
- Regulation and Electricity market
- Multi-criteria Decision Aid, Fuzzy Sets and Computational Intelligence applied to power systems

### Areas of Activity

- Innovation Management
- Entrepreneurship, Business
  - Development, Incubation
- R&D in Innovation Management and Technology-Based Entrepreneurship
- Launching of spin-off companies



### Areas of Activity

- Enterprise Cooperation Networks
- Information Management & Knowledge in Collaborative Networks
- Operations Management and production planning
- Advanced automation and logistic systems
- Optimisation of cutting and packing



### Areas of Activity

#### Engineering, Management and Social Sciences

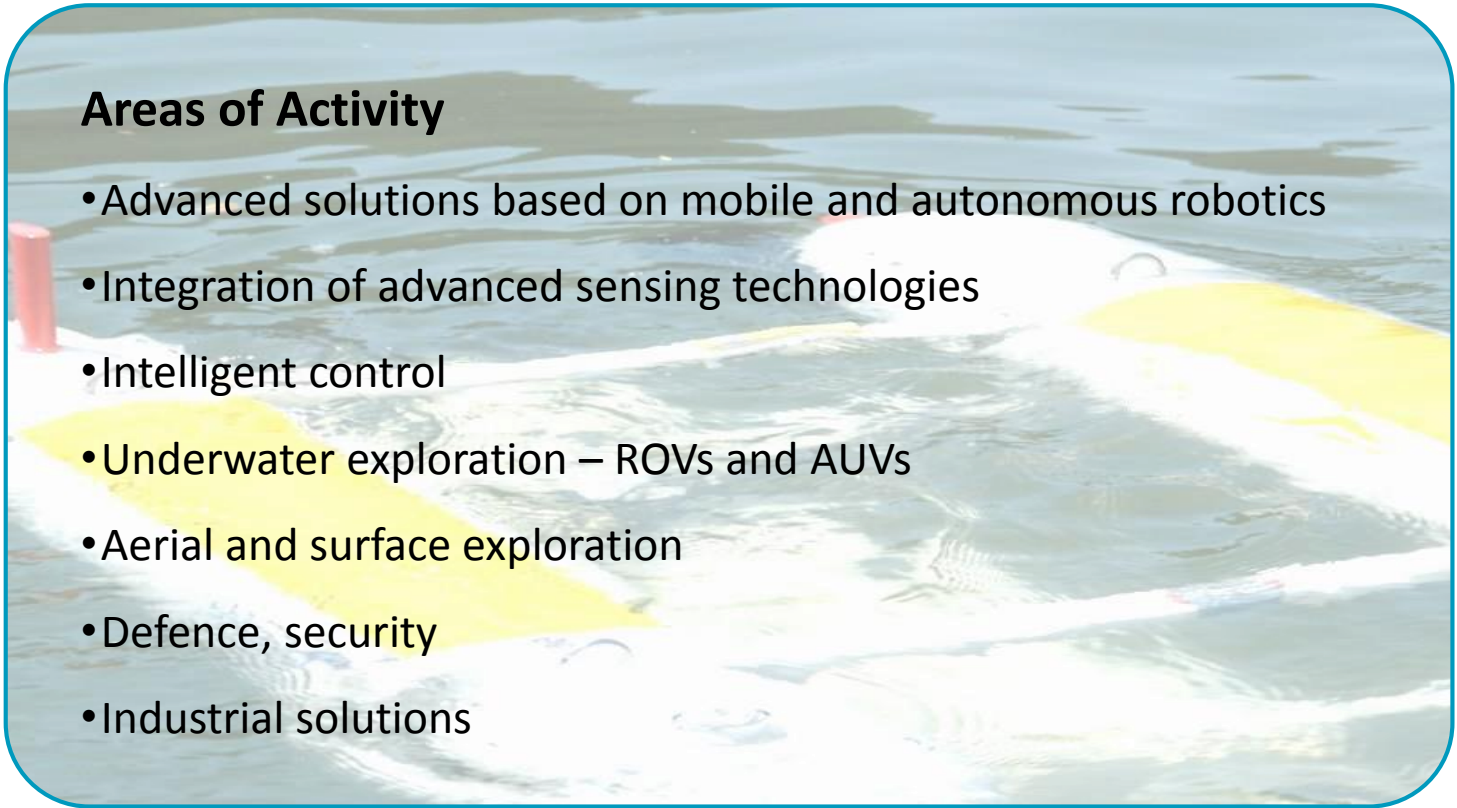
- Identification of processes, techniques and indicators of efficient institutions.

The strategy for this Unit focuses on problem-driven research, which requires developing appropriate solutions for each company/institution.



### Areas of Activity

- Advanced solutions based on mobile and autonomous robotics
- Integration of advanced sensing technologies
- Intelligent control
- Underwater exploration – ROVs and AUVs
- Aerial and surface exploration
- Defence, security
- Industrial solutions



### Areas of Activity

- Optoelectronics Devices and Instrumentation
- Microfabrication, Integrated Optics and Thin Films
- Interferometric Optical Imaging
- Structural Health Monitoring Systems
- Environmental Monitoring Systems



### Areas of Activity

- Multimedia Technologies and Systems
  - Media Processing
  - Multimedia Services
- Wireless and mobile networks
- Internet Architectures and Networking
- Optical and electronics technologies
  - Microwave and optical communications
  - Microelectronics

### Areas of Activity

- BioInstrumentation
- Biomedical Imaging
- NeuroEngineering





### Areas of Activity

- Computer Graphics and Virtual Environments
  - Image Synthesis and Visual Perception
  - Geospatial Systems, Virtual Environments and Serious Games
- Software Engineering
  - Software architectures for complex systems
  - Agile process engineering
  - Knowledge management in software projects
  - Software quality, testing, verification and certification
- Information Management and Systems
  - Information Systems
  - Information Retrieval
  - Digital Repositories and Preservation

### Areas of Activity

#### Machine learning

#### Decision support systems:

- Data mining
- Forecasting
- Adaptive modelling and optimisation

#### Applications:

- Marketing
- Financial services
- Process scheduling
- Health
- Text information retrieval



U.PORTO

**LIAAD**   
**INESCTEC**  
LABORATÓRIO ASSOCIADO



### Areas of Activity

- High Level Programming Languages
- Parallel and Distributed Computing
- Mobile Computing and Sensor Networks
- Information mining and Applications
- Pattern Recognition in Genomics and Proteomics
  - Analysis of Gene Expression Data
  - Understanding Cellular Pathways
  - Clinical Analysis
  - Intrusion detection systems
  - SPAM classification
- Web-based systems
  - Semantic Digital Libraries
  - E-learning Environments and Tools



### Areas of Activity

- High-assurance software
- Formal verification of real-time and user-computer interaction systems
- Safety-critical embedded systems
- Secure cryptographic schemes and protocols
- Tools for the mechanical verification of cryptographic implementations and security proofs
- Dependable distributed systems
- Large-scale dependable data management
- Elastic high-performance transactional systems



### Areas of Activity

- Wireless Sensor Networks
  - WSN Communication infrastructures
  - Real-time and reliability in COTS Technology
  - Application areas in environmental monitoring, process control
- Cyber-Physical Systems
  - Holistic view of computation and networking
  - Ubiquity and high resolution of physical perception
- Real-Time Software
  - Reliable embedded software infrastructures (OS, languages)
  - Distributed QoS-aware embedded middleware
- Multicore Systems
  - High-performance but predictable platforms
- Adaptive Real-Time Systems
  - Computation depending on energy constraints
  - Temporal Isolation and Adaption

# INESC TEC supports public policies and other public interest issues

## INESC TEC

- Advising the NSRF and the FCT on Programme regulations, eligible expenses, etc.
- Supporting the FCT in the creation of Fraunhofer Portugal
- Consulting for the Regional Coordination and Development Commissions: CCDR-N (Northern Portugal) and CCDR-LVT (Lisbon and Tejo Valley)
- Consulting for the MEI (Ministry of Economy and Innovation) in public tenders (e.g.: on Wind Energy Concessions in Portugal)
- Technical support for the creation of legislation in Madeira/Azores
- Contributing to the development of new organisational models for the University of Porto
- Participating in the Areas of Competitiveness and Technology (Health, ICT, Sea, Forest, Energy, Sustainable Manufacturing, Fashion Industries, Creative Industries)

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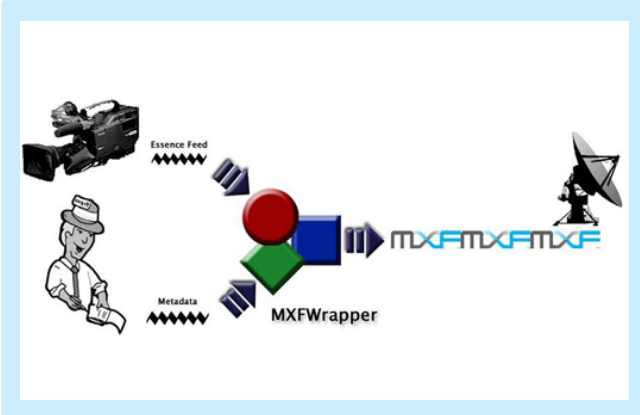




**Professional Video Systems**

2002 (MOG Solutions)  
2007 (MOG Technologies)

CTM



## FiberSensing

### Advanced Monitoring Systems

2004

CAP







## Corporate TV and Digital Signage Networks

2007

CTM/CSIG

## In-Store Virtual Shop Assistant





Electronic Medical and Sporting Devices  
2007





**AUDOLICI**  
SISTEMAS ELECTRÓNICOS  
DE ÁUDIO, LDA

**Audio Hi-Fi Systems**

2007-2011  
*(sold to company developers)*  
CTM





**Smartwatt**  
Positive Energy Solutions

**Energy Solutions**

2008-2011  
*(sold to company developers with  
400% value increase)*

**CPES**



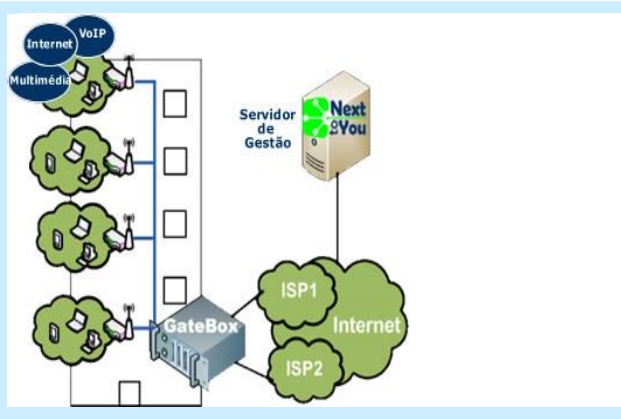
- Energy Efficiency
- Carbon Management and Sustainability
- Strategic Consultancy in Energy
- Energy Certification





## Solutions for Community and Corporate networks

2008  
CTM



- Gateway access– routers for communities
- ISP Group Negotiation
- Optimised bandwidth and cost sharing

**GateBox**  
A solution  
for your  
**home.**

**NextGate**  
For secure and  
trustworthy  
Internet access.



**processnet**  
sistemas de informação,lda

## Business Process Management

2008  
CITE

- Innovative business model:
  - Business process management
  - Collaborative platforms for accounting

- Innovative business model:
  - SaaS – Software as a Service
  - Location based systems

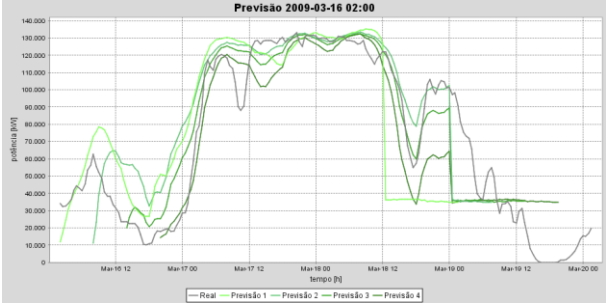




## Wind power forecasting services

2010  
CPES

- Based on a forecasting system: EPREV
- Provides short-term forecasts up to 72 hours ahead, 4 times per day, with a mean absolute error of up to 20%





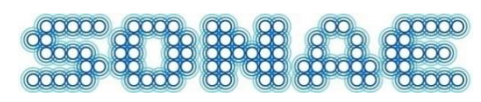
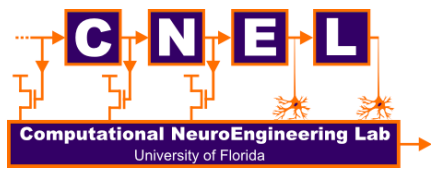
### Network of former INESC TEC employees

- Professional tracking
- Two-way communication
- Professional synergies



Around 200 former employees in 23 countries

In 2013 INESC TEC sent around 150 highly qualified individuals (20 PhD) into the market, to companies/institutions such as:





# Launching pad for young talent

## National Companies

Former Researchers in important Portuguese companies



COORDINATED BY  
**INESC-PORTO**  
PORTUGAL

**INESCTEC**  
TECHNOLOGY & SCIENCE  
ASSOCIATE LABORATORY



# Launching pad for young talent

## Global network of competence

Former Researchers in important organisations around the world

