




**BIN@ THE ROAD TO SHEFFIELD 2014**

**Sebastião Feyo de Azevedo, Rector**

**Carlos Oliveira, Pedro Coelho, H2020 Office, Faculty of Engineering**

**Sheffield, 10 November 2014**



## **Outline**

**University of Porto**

**UPTEC – the Park of Science and Technology**

**BIN@ a remarkable project and series of events**

**A note about Engineering Alumni working abroad**

**Cooperation Sheffield – Porto, now and for the future**

## University of Porto



The University of Porto is **one of the most prestigious Portuguese Higher Education and Research Institutions**, classified as one of the **100-150 best Universities in Europe**.

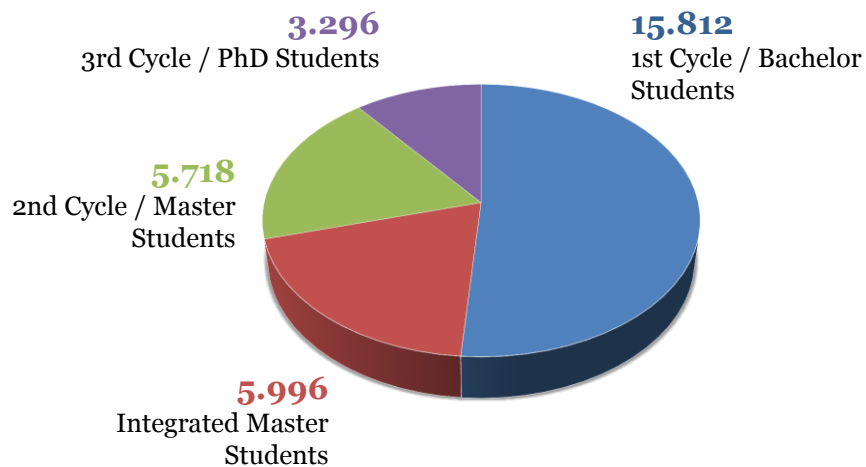
With origins dating back to the XVIII century, the University of Porto is **one of the oldest** universities of the European Union.

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### Second largest Portuguese University:

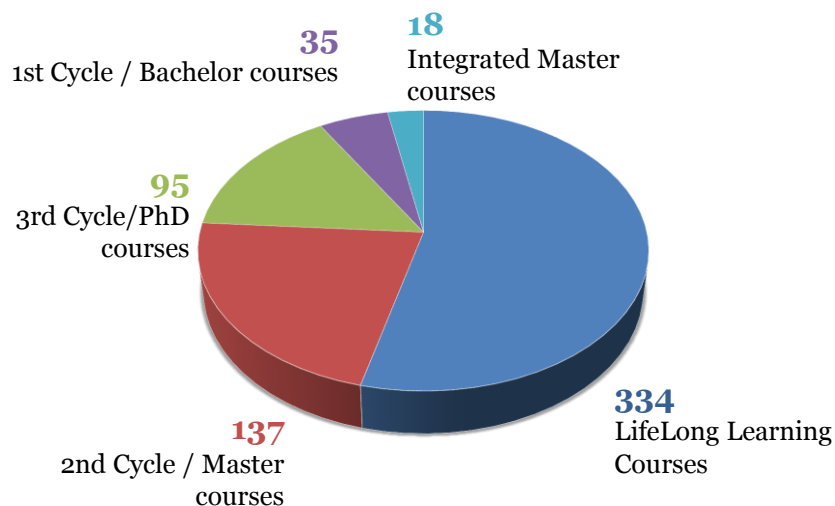
**30.822 students** (2013), 13% of which are international



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## 619 training programmes (2013)



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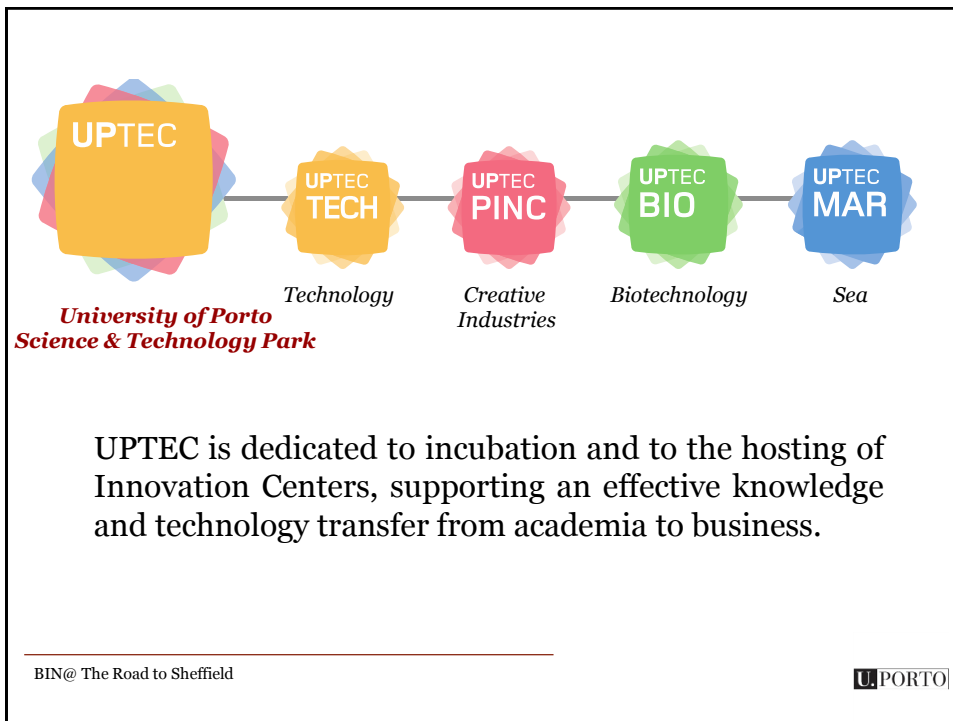
## The largest producer of Science in Portugal



**2.974** Papers indexed in the ISI Web of Science in 2012  
**23%** of the papers produced in Portugal  
**13%** Average annual growth rate since 2007

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### **UP and UPTEC** **Largest innovation centre in Portugal**




**307** National and international patents (up to 2013)  
**250** New spin-off e start-up enterprises  
**1.400+** Scientific and technological jobs created




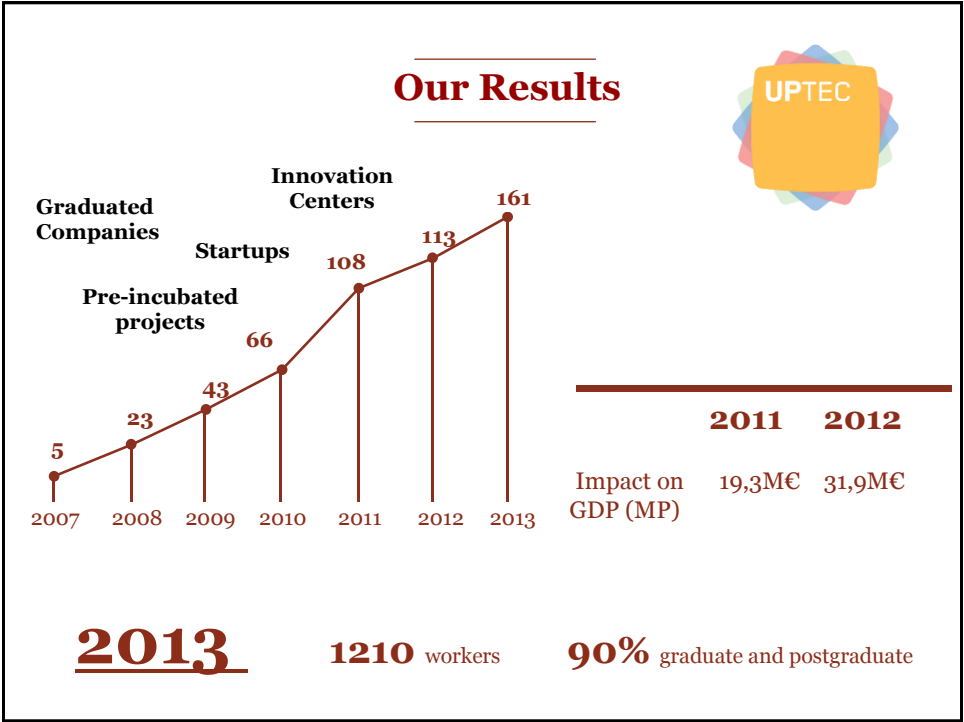



**Award Winner**



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BUSINESS & INNOVATION NETWORK

CONNECT | SHARE | GROW  
*businessandinnovation.net*



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**BIN@™**  
BUSINESS & INNOVATION NETWORK

**Annual Events – 2010**





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**Annual Events – 2011**



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**Annual Events – 2012**



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## Annual Events – 2013



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## Memorandum of Understanding

promote and support the development of the BIN@, including **hosting** and **participating** at annual events

promote and increase **entrepreneurial skills** and **corporate experience** of students and university personnel with industry partners

give assistance in **business development** of spin-off and start-up ventures and support to **international fund raising** for common projects

increase awareness of **commercial opportunities** and ease **access to larger markets**

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## Memorandum of Understanding

provide and give assistance in **“soft landing” zones** for spin-off and start-up ventures and other industry partners belonging to the innovation ecosystems of each institution

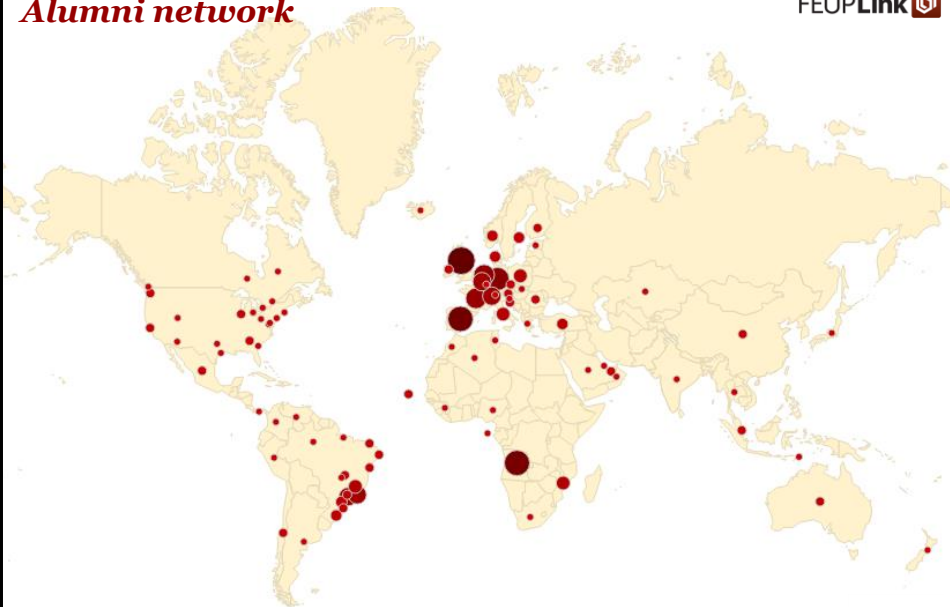
promote and increase **international collaboration on R&D** among the researchers of these institutions

raise awareness of the academic programmes and research expertise in each institution and promote **opportunities for exchange** of staff and students

promote and support visits by authorised officials from each institution in order to develop the **strategic partnership** and to expand areas of cooperation

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## Alumni network



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*Alumni network*

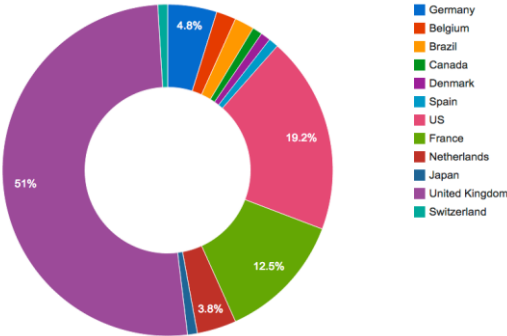


*Alumni reunion, London 2013*  
More than 250 FEUP alumni engineers work in the United Kingdom

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PhD award by country



26% of the 393 FEUP's Faculty studied abroad.  
Most of them in the United Kingdom.

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## Cooperation Sheffield - Porto



Tom Wilson  
Professor Emeritus, UoSheffield



The University  
Of Sheffield.  
Information School.



Invited professor from 1997 to 2005, he had a key role in the development of Information Sciences at U.Porto.

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## Cooperation Sheffield - Porto



Prof. James Brownjohn  
UoSheffield (2005-2013)



Prof. Elsa Caetano  
U.Porto

Worked together in Ambient vibration testing of the Humber Bridge, in 2008.



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## Cooperation Sheffield - Porto



Tom Fleming, Creative Consultancy



In 2008, Tom presented the study for the creative cluster in the North region, suggesting Sheffield as a leading example, pointing the similarities between the two industrial regions.

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## Cooperation Sheffield - Porto



Paulo Santos enrolled in the Master in Innovation and Technological Entrepreneurship at U.Porto. He launched the first international UPTEC startup, soft landed in Sheffield in 2009. Kinematix has raised more than 5M\$ and opened in Boston.

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## Cooperation Sheffield - Porto



Rita Maldonado Branco  
PhD student in Design  
U.Porto



Communication design for alzheimer's disease  
2nd joint prize for Best Paper Award at the European Design4Health  
Conference 2013, held at Sheffield Hallam University

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## Cooperation Sheffield - Porto



Prof. Phillip C. Wright  
Head of Chemical and  
Biological Engineering,  
UoSheffield



The iGEM student Team from UoSheffield  
made an outreach session in Porto, 2014



Synthetic Biology  
based on standard parts

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Rafael da Silva Floro  
FCPorto, 2011-2013, Sheffield Wednesday, 2013-2015

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TOP 10 MID-SIZED EUROPEAN CITIES



OVERALL

RANK	CITY	COUNTRY
1	Edinburgh	UK
2	Lyon	France
3	Liverpool	UK
4	Antwerp	Belgium
5	Newcastle upon Tyne	UK
6	Coventry	UK
7	Sheffield	UK
8	Porto	Portugal
9	Bilbao	Spain
10	Zurich	Switzerland

FDI  
STRATEGY

RANK	CITY	COUNTRY
1	Edinburgh	UK
2	Liverpool	UK
3	Lyon	France
4	Sheffield	UK
5	Porto	Portugal
6	Newcastle upon Tyne	UK
7	Bilbao	Spain
8	Antwerp	Belgium
9	Ostrava	Czech Republic
10	Doncaster	UK

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# Cooperation Sheffield - Porto













## Fake Tawny Port Wine, from California

... maybe some day there will be a real one,  
grown in the Douro Valley by Sheffield's people  
and traded from Porto to the United Kingdom !

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## Proposals Already Submitted

PILLAR	CALL	Acronym - Title	PARTNERS
I	Marie Curie ITN	BOSS-PRO - Multidisciplinary Training of Engineers for the design of robust and Benefit-Oriented Structural health monitoring Systems and damage PROgnosis tools for the maintenance of civil infrastructure – <b>NOT APPROVED</b>	 
I	FET OPEN RIA	Group Tutoring Agents	 
III	Mobility for Growth	INSPIRE - INnovative Stations serving Passenger Interests for Railway Expansion – <b>2<sup>nd</sup> PHASE</b>	 
III	Personalising Health and Care	MAMAMIA – MAtheMatical Methods and Analysis for Medical ImAges	 
III	Personalising Health and Care	TEXTELI - Hybrid TEXtile structures for TEndons/Ligaments repair	 

















Proposals under discussion – Part I

PILLAR	CALL	Project focus	PARTNERS
I	Marie Curie ITN-ETN	Design for Health	 
I	Marie Curie ITN-ETN	Smart materials for Aeronautics	 
II	Fast Track to Innovation	Multispecies biofilms	  
III	Energy Efficiency	NZEB – Nearly Zero Energy Buildings	 



Proposals under discussion – Part II

PILLAR	CALL	Project focus	PARTNERS
III	Smart Cities and Communities	Lighthouse Projects	     
III	Green Vehicles	MOPEA- Modular Power Electronic Architectures for Electrical Vehicles	 
III	Mobility for Growth	Air Park – smart parking solution	 
III	Personalising Health and Care	Biomaterials for Dentistry	 



2 – 4 November, 2015



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