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
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.

Second largest Portuguese University:

30,822 students (2013), 13% of which are international

3,296
3rd Cycle / PhD Students

15,812
1st Cycle / Bachelor Students

5,718
2nd Cycle / Master Students

5,996
Integrated Master Students
619 training programmes (2013)

- 1st Cycle / Bachelor courses: 35
- 2nd Cycle / Master courses: 137
- 3rd Cycle/PhD courses: 95
- Integrated Master courses: 18
- LifeLong Learning Courses: 334

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

The largest producer of Science in Portugal

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UPTEC is dedicated to incubation and to the hosting of Innovation Centers, supporting an effective knowledge and technology transfer from academia to business.

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

RegioStars 2013

UPTEC

Our Results

Graduated Companies
Startups
Pre-incubated projects
Innovation Centers

2007 2008 2009 2010 2011 2012 2013

2011 2012

Impact on GDP (MP) 19.3M€ 31.9M€

2013 1210 workers 90% graduate and postgraduate
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Annual Events – 2010

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Annual Events – 2011

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Annual Events – 2012

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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**
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

26% of the 393 FEUP’s Faculty studied abroad. Most of them in the United Kingdom.
Invited professor from 1997 to 2005, he had a key role in the development of Information Sciences at U.Porto.

Prof. James Brownjohn
UoSheffield (2005-2013)

Prof. Elsa Caetano
U.Porto

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

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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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

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

The iGEM student team from UoS Sheffield made an outreach session in Porto, 2014
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Rafael da Silva Floro

TOP 10 MID-SIZED EUROPEAN CITIES

<table>
<thead>
<tr>
<th>RANK</th>
<th>CITY</th>
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<tbody>
<tr>
<td>1</td>
<td>Edinburgh</td>
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<td>Lyon</td>
<td>France</td>
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<td>3</td>
<td>Liverpool</td>
<td>UK</td>
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<td>Antwerp</td>
<td>Belgium</td>
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<td>Newcastle upon Tyne</td>
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<td>6</td>
<td>Coventry</td>
<td>UK</td>
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<tr>
<td>7</td>
<td>Sheffield</td>
<td>UK</td>
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<td>8</td>
<td>Porto</td>
<td>Portugal</td>
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<td>9</td>
<td>Bilbao</td>
<td>Spain</td>
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<tr>
<td>10</td>
<td>Zurich</td>
<td>Switzerland</td>
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OVERALL

FDI STRATEGY

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<td>Doncaster</td>
<td>UK</td>
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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!

Proposals Already Submitted

<table>
<thead>
<tr>
<th>PILAR</th>
<th>CALL</th>
<th>Acronym - Title</th>
<th>PARTNERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Marie Curie ITN</td>
<td>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 – NOT APPROVED</td>
<td></td>
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<tr>
<td>I</td>
<td>FET OPEN RIA</td>
<td>Group Tutoring Agents</td>
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<tr>
<td>III</td>
<td>Mobility for Growth</td>
<td>INSPIRE - INnovative Stations serving Passenger Interests for Railway Expansion – 2nd PHASE</td>
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<tr>
<td>III</td>
<td>Personalising Health and Care</td>
<td>MAMAMIA – Mathematical Methods and Analysis for Medical Images</td>
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<td>TEXTELI - Hybrid TEXtile structures for TEndons/Ligaments repair</td>
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Proposals under discussion – Part I

<table>
<thead>
<tr>
<th>PILLAR</th>
<th>CALL</th>
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<tr>
<td>I</td>
<td>Marie Curie ITN-ETN</td>
<td>Design for Health</td>
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<td>I</td>
<td>Marie Curie ITN-ETN</td>
<td>Smart materials for Aeronautics</td>
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<td>II</td>
<td>Fast Track to Innovation</td>
<td>Multispecies biofilms</td>
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<td>III</td>
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<td>NZEB – Nearly Zero Energy Buildings</td>
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Proposals under discussion – Part II

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<td>Smart Cities and Communities</td>
<td>Lighthouse Projects</td>
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<td>III</td>
<td>Green Vehicles</td>
<td>MOPEA- Modular Power Electronic Architectures for Electrical Vehicles</td>
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<tr>
<td>III</td>
<td>Mobility for Growth</td>
<td>Air Park – smart parking solution</td>
<td></td>
</tr>
<tr>
<td>III</td>
<td>Personalising Health and Care</td>
<td>Biomaterials for Dentistry</td>
<td></td>
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