The need for cooperation in a Competitive Global World

The European effort in Higher Education, Research and the Third Mission – The Bologna Process

The Commitment of the University of Porto with international cooperation

Cultural Evolution – adapting Institutions to the times

A Video promoting ERASMUS + Worldwide
# COOPERATION IN TODAY’S GLOBAL WORLD

## FACTS

- Technical and scientific developments of the XX Century
  - particularly in Health Area, ICT and Transports
  - together with political changes in Europe that took place in the last 20 years of the XX century
- The decrease of knowledge half-time
- The increase of expectancy of life
- Economy driven by market rules
- New demands of Societies

## CONSEQUENCES

- The World has shrunk - The need to increase the dialogue of Civilizations – vital for peace and development in the World
- Live longer years, work longer years, the obsolescence of knowledge - **back to school in lifelong learning**
- The need to give an answer to the demands of Society and of Millennials in particular - **Adapt the educational paradigm**
- The threats and opportunites of education without boundaries and without walls
- Research carried out in multidisciplinary environments
  - Recognize the need for new joint research models of cooperation with stakeholders
(i) The need to promote mobility of students and staff

(ii) The major requirement of TRUST for the model to be successful

(iii) Building the EHEA – European Higher Education Area – with recognition of qualifications

(iv) Building the ERA – European Research Area, to improve European competitiveness in the World

**THE BOLONA PROCESS – A POLITICAL ISSUE**

**BUILD THE EUROPEAN AREA OF KNOWLEDGE**

**STILL UNDER CONSTRUCTION... TILL 2020... AND BEYOND...**

- European Area of Knowledge
  - European Area of Education
  - European Area of R&D&I
  - European Higher Education Area
  - European Area of Lifelong Learning

2014, ... ?
Horizon 2020

In 2010

In 2020...?
DIMENSIONS OF THE BOLOGNA PROCESS

(i) The structure – the legal building
(ii) The substance of education – the academic dimension
(iii) The research dimension
(iv) The Third Mission – innovation, bringing added value of knowledge into the economy, the social dimension
(v) Cooperation with Third Countries – the attractiveness of the European Space – ERASMUS PLUS programmes in their different action lines

THE EUROPEAN HIGHER EDUCATION AREA
THE STRUCTURE - ACTION LINES AND INSTRUMENTS FOR ACTION

- Degree Structure –
  - Based on recognised QUALIFICATIONS FRAMEWORKS
- A System to measure work and OUTCOMES
  - The ECTS credit and accumulation system, reviewed in 2015
- A way of documenting qualifications
  - The DIPLOMA SUPPLEMENT
- A System to guarantee transparency, reviewed in 2015
  - Building accepted QUALITY ASSURANCE procedures
- A System for recognition of qualifications
  - OVERCOMING DIFFICULTIES posed by the diversity of ‘recognition cultures’
COOPERATION AND COMPETITION – COOPETION – WORLDWIDE

(i) A felt need of collaboration all over the World – Knowledge and Human Values have no boundaries
(ii) More and more intercontinental networks
(iii) More and more financing mechanisms
(iv) Serious obstacles still hinder progress – corporative and ‘nationalist’ views and policies; slow adapting of national legislations, namely concerning transportability of social benefits

THE OLDEST WESTERN COUNTRY OF THE EUROPEAN CONTINENT...
AND THE OLDEST IN STABILITY OF BOUNDARIES

PORTO – PORTUGAL
UNIVERSITY OF PORTO
GENERAL OVERVIEW

U.PORO, TODAY

Education & Research
Third Mission
Quality
International Cooperation
Social Dimension
Culture
Sports
Commitment to Society
The Polytechnic Academy - the teaching of engineering in Portugal started in this building, in 1837.

AN ANCIENT COMPREHENSIVE UNIVERSITY IN A HISTORICAL ANCIENT CITY

U.PORTO CONSTITUTIVE ENTITIES /ASSOCIATED ENTITIES

14 Faculties (with integrated research units)
13 Interface Institutes, of which U.Porto is the main partner
1 Associated Business School - association between the University and 33 major companies
49 R&D Units, with more than 3000 researchers, working both

- in the Faculties
- Or
- in Interface Institutes

**BOLOGNA STRUCTURE**

- 3rd Cycle – PhD
  - 180/240 ECTS
- 2nd Cycle – Master
  - 120 ECTS
- 1st Cycle – Bachelor
  - 180/240 ECTS
- 1st + 2nd Cycle
  - Integrated Master
  - 300/360 ECTS
**The Second Largest Portuguese University**

**An University of Mid Size European Dimension**

32,236 students in 2016-2017

Of which, c. 14% International

<table>
<thead>
<tr>
<th>Type of students</th>
<th>National</th>
<th>International</th>
<th>SubTotals</th>
<th>Number of Countries</th>
</tr>
</thead>
<tbody>
<tr>
<td>In a Degree Programme</td>
<td>27,815</td>
<td>1,903</td>
<td>29,718</td>
<td>103</td>
</tr>
<tr>
<td>In Mobility</td>
<td>2,518</td>
<td>2,518</td>
<td></td>
<td>100</td>
</tr>
<tr>
<td>TOTALS</td>
<td>4,421</td>
<td>32,236</td>
<td>131</td>
<td></td>
</tr>
</tbody>
</table>

**Professional Human Resources and Budget**

- **2,291** Teaching staff and researchers (Dec. 31st 2016)
- **1,749** Full Time Equivalent (FTE)
- **87%** Teaching staff and researchers (FTE) with PhD
- **1,572** Technical and Administrative staff
- **270 M€** Annual consolidated budget
639 TRAINING PROGRAMMES (2016/17)

- 34 1st Cycle programmes / Bachelor
- 117 2nd Cycle programmes / Master
- 94 3rd Cycle programmes / PhD
- 376 Continuous Education
- 18 Integrated Master programmes

7,719 GRADUATES, 401 International (2015/16)

- 450 3rd Cycle / PhD
- 1,742 2nd Cycle / Master
- 3,706 1st Cycle / Bachelor
- 1,821 Integrated Master
UNIVERSITY OF PORTO
INTERNATIONAL COOPERATION


- Very simply – active networking and participation worldwide
- Adapting internal structures - programmes

Number of active protocols with international institutions

2,235, of which:

819 Agreements with different topologies – Eg. bilateral, multilateral, joint degrees, etc)

1,416 Erasmus+ agreements - including intra and extra European Union
More than 20 Networks And Associations, viz.-

- ASEA-UNINET - ASEAN European Academic University Network
- AULP - Associação das Universidades de Língua Portuguesa
- EAIE - European Association for International Education
- EAIR - European Higher Education Society
- EDEN - European Distance Learning and E-Learning Network
- EUA - European University Association
- EUCEN - European University Continuing Education Network
- EURAS - Eurasian Universities Union
- FORGES - Fórum da Gestão do ES nos Países e Regiões de Língua Portuguesa
- GTordesillas - Grupo Tordesillas de Universidades
- IAU - International Association of Universities
- Santander Group - Grupo Santander de Universidades

International Financing Sources (2016-2017)

1. Programme Erasmus+
   KA1 - Credit Mobility
   KA1 - ICM
   KA1 - Joint Master
   KA2 - Capacity Building - HE
   KA2 - Knowledge Alliances
   KA2 - Strategic Partnerships
   KA2 - Sector Skill Alliances
   KA3 - Forward Looking Cooperation
   KA3 - Social Inclusion
   Jean Monnet

2. FPA - Migrant background
3. Intra-Africa
4. Eras – Electronic Residency Application Service
5. Erasmus Mundus Ação 2
6. Programme Santander
7. Programme Fulbright
8. Government or Institutional Programmes (ex. Grants from China, Russia; Capacity Programmes for East Timor, etc.)
### THE U.PORTO IN THE ERASMUS MUNDUS PROGRAMME (ACTION 2) - 2009-2014

<table>
<thead>
<tr>
<th>9 Coordinations</th>
<th>142</th>
<th>Continents</th>
</tr>
</thead>
<tbody>
<tr>
<td>39 Partnerships</td>
<td>792</td>
<td>Countries</td>
</tr>
<tr>
<td></td>
<td>7.612</td>
<td>Institutions involved</td>
</tr>
<tr>
<td></td>
<td>151</td>
<td>Mobility flows</td>
</tr>
<tr>
<td></td>
<td>36</td>
<td>Million euros in total</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Million euros managed by U.Porto</td>
</tr>
</tbody>
</table>

### U.PORTO IN THE ERASMUS+ 2017 PROGRAMME

<table>
<thead>
<tr>
<th>5 COORDINATIONS</th>
<th>90</th>
<th>Continents</th>
</tr>
</thead>
<tbody>
<tr>
<td>18 PARTNERSHIPS</td>
<td>&gt; 822</td>
<td>Countries</td>
</tr>
<tr>
<td></td>
<td>&gt; 1500</td>
<td>Institutions Involved</td>
</tr>
<tr>
<td></td>
<td>&gt; 12 M €</td>
<td>Awarded Scholarships (220 for non EU countries)</td>
</tr>
<tr>
<td></td>
<td>&gt; 5,5 M €</td>
<td>Millions of Euros managed by U.Porto</td>
</tr>
</tbody>
</table>
**4,421 INTERNATIONAL STUDENTS (2016/17) (14% TOTAL)**

- 270 Integrated Master
- 649 2nd Cycle / Master Students
- 777 3rd Cycle/PhD Students
- 207 1st Cycle / Bachelor Students
- 2,518 Students in Mobility Programmes

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**ACTIVE PROTOCOLS/AGREEMENTS WITH BRASIL (2016-2017)**

<table>
<thead>
<tr>
<th>Agreements with Brasil</th>
<th>281</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program Agreements</td>
<td>27</td>
</tr>
<tr>
<td>Double Degree Agreements</td>
<td>1</td>
</tr>
<tr>
<td>Bilateral Cooperation</td>
<td>237</td>
</tr>
<tr>
<td>Multilateral Cooperation</td>
<td>2</td>
</tr>
<tr>
<td>Joint Phds</td>
<td>14</td>
</tr>
</tbody>
</table>

Number of Brasilien Students in 2016-2017

- **In Degree Programmes – 980:**
  - Master – 375
  - Integrated Master – 106
  - Licence – 95
  - PhD - 404

- **In Mobility Programmes (6 to 12 months) – 931**
COUNTRIES OF ORIGIN (2016/17)

4,421 students from 131 Countries

MOBILITY INCOMING Students (2016/17)

2,518 Students from 100 Countries
OVERVIEW, 2,518 U.Porto INCOMING STUDENTS (2016/17)

1º Brazil
2º Spain
3º Italy
4º Germany
5º Poland

OVERVIEW, 2,518 U.Porto INCOMING STUDENTS (2016/17)

1º Brazil
2º Spain
3º Italy
4º Germany
5º Poland

Faculty of Arts
Faculty of Engineering
Institute of Biomedical Sciences Abel Salazar
Faculty of Sciences

943
1575

2016 - INNOVATION IN INTERNATIONALISATION

Institutional Award for Innovation in Internationalisation

Prize awarded by the Executive Committee of the European Association for International Education (EAIE) in 2016
(Liverpool, United Kingdom)
The European Research Area Model and Financing - I

(i) A concept of Research in networks or consortia or collaborative laboratories with private and/or public institutions or companies

(ii) Using mainly financing from National Programmes and the European Framework Funding Programme - Horizon 2020 - to promote these policies

(iii) Serious obstacles to networking – where are located the investments in buildings and heavy equipment?

(iv) Using limited funding from transcontinental programmes

The European Research Area Model and Financing - II

A wide set of research funding lines:
- European Research Council
- Future and Emerging Technologies
- Marie Skłodowska-Curie actions
- Research Infrastructures, including e-Infrastructures

Eg. - Leadership in Enabling and Industrial Technologies
- Nanotechnologies, Advanced Materials, Advanced Manufacturing and Processing, and Biotechnology
- Information and Communication Technologies
- Space
- Access to risk finance
- Innovation in SMEs
The European Research Area Model and Financing - III

**Eg. – Societal Changes**

- Health, Demographic Change and Wellbeing
- Food Security, Sustainable Agriculture and Forestry, Marine, Maritime and Inland Water Research and the Bioeconomy
- Secure, Clean and Efficient Energy
- Smart, Green and Integrated Transport
- Climate Action, Environment, Resource Efficiency and Raw Materials
- Europe in a changing world - Inclusive, innovative and reflective societies
- Secure societies – Protecting freedom and security of Europe and its citizens

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**Adapting to times - an obligation of Universities**

**A vision of Commitment to Society**

- To give an answer to the demands of Society and specifically of Young People
- To develop new educational paradigms - to meet motivations and competencies of the new Generations
- To promote the Third Mission of the University
- To give an answer to the requirements of the Dialogue of Civilizations, vital for progress and peace in the World
The dimension and recognized quality level of cultural events, of sports activity, of the social dimension initiatives and particularly of active engagement with social causes HAS DIRECT RELATION TO the dimension of internationalization of a Higher Education and Research Institution.
It is the result of an ambitious project that brings together the Natural History and Scientific articles and collections of the Faculty of Sciences.
THE CLASSICAL ORCHESTRA OF THE FACULTY OF ENGINEERING

Performs on behalf of the University

UNIVERSITY OF PORTO
SPORTS
WOMAN FOOTBALL TEAM

Organizing International Events
The FISU Executive Committee nominated the 2014 World University Beach Volleyball Championship for the “Best WUC 2014” award

COMMITMENT TO SOCIETY
U.Porto Education Fair

97 Schools involved
104 School Visits
6,499 Visitors integrated in those School Visits

Nr. of Participants in Scientific, Cultural and Artistic Activities organized by U.Porto

<table>
<thead>
<tr>
<th>Year</th>
<th>Participants</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012</td>
<td>51,820</td>
</tr>
<tr>
<td>2013</td>
<td>60,856</td>
</tr>
<tr>
<td>2014</td>
<td>70,896</td>
</tr>
<tr>
<td>2015</td>
<td>39,821</td>
</tr>
<tr>
<td>2016</td>
<td>72,054</td>
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</table>
COMMITMENT TO SOCIETY - VOLUNTEERING

NR. OF PARTICIPANTS IN VOLUNTEERING PROJECTS

<table>
<thead>
<tr>
<th>Year</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>1341</td>
<td>1574</td>
<td>1773</td>
<td>1965</td>
<td>2025</td>
</tr>
</tbody>
</table>

PORTO
A HISTORICAL CITY
Porto was elected on 10th February European Best Destination 2017.

Worldwide travellers from 174 countries voted Porto in the first place for European Best Destination 2017. Porto is exceptional in more ways than one and the "Cidade Invicta" (unvanquished city) is history, architecture, culture, gastronomy, trade, encounters and discoveries.

PORTO AND GAIA: FROM THE DAYS OF THE ROMANS

Port Wine Cellars

2000 Years ago Portus Cale
PORTO, A HISTORICAL CITY

26/10/2017
PORTO, A HISTORICAL CITY

PORTO, HOUSE OF MUSIC: CASA DA MÚSICA (2005)

Arch. Rem Koolhas, Pritzker Winner, RIBA European Award 2007
CONTEMPORARY ART SERRALVES MUSEUM
ARCHITECTURE ÁLVARO SIZA, 2005

PORTO, CITY OF TRADE, WITH EXCELLENT EASY ACCESSES

ACI 2017 - best airport in Europe in the category of airports with dimensions between 5 to 15 million passengers
F.C. Porto – A World Class Team

2. European Champions League Cups
2. Intercontinental Cups
1. European SuperCup
1. European League Cup

Many Thanks for your Attention
Be sure of our full commitment to international cooperation!