

# A rede de Educação Superior



**U.P.** PORTO

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Porto (Eng.), 13 Abril 2012

## Education and jobs

## Room at the bottom

The latest shock-horror figures about underemployed graduates are more depressing for non-graduates

ONE person out of every three who graduated from university in the past six years is in a job requiring only the skills of a school-leaver, up from one in four a decade ago. A 21-year-old graduate is about as likely to be unemployed in the year he leaves full-time education as a 16-year-old school-leaver with only GCSEs. The official figures make depressing reading for young people hoping that the better job higher education is meant to assure them will pay back the sums they have borrowed for college. This is not all a consequence of the recession.

As the chart shows, the proportion of newish graduates in lower-skilled jobs

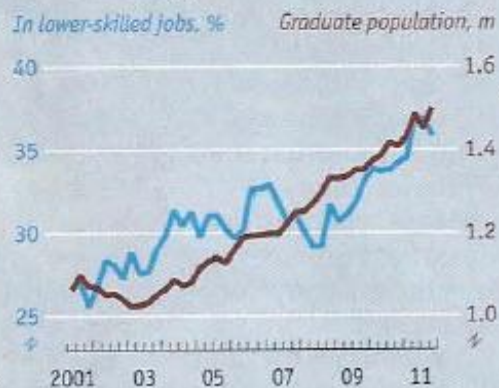
was rising even before economic growth reversed in 2008; the downturn just steepened the slope. The laws of supply and demand are one reason. The number of recent graduates rose by almost half between 2001 and 2011; it is not surprising that some moved downmarket to find work. And though higher-skilled jobs have grown faster than lower-skilled ones over time, burger-flipping and the like are more available at the moment. Such jobs turn over frequently and are heavily advertised in job centres.

But if the outlook for graduates is dim, it is far worse for their less-educated counterparts. Though about a quarter of both new graduates and GCSE-holders are unemployed for a while when they leave full-time study, in two years less than 9% of graduates are still looking for work, compared with almost 27% of school-leavers. Overall, graduates earn more too.

The push to send more young people to university does, in most cases, improve their chances. But it also increases the pressure on those left behind. Graduates, no less than migrants and older people working on, are taking jobs that less-skilled young Brits might once have had, notes Jim Hillage of the Institute for Employment Studies. It is an unintended consequence, but an important one.

## Reality check

Recent university graduates\*



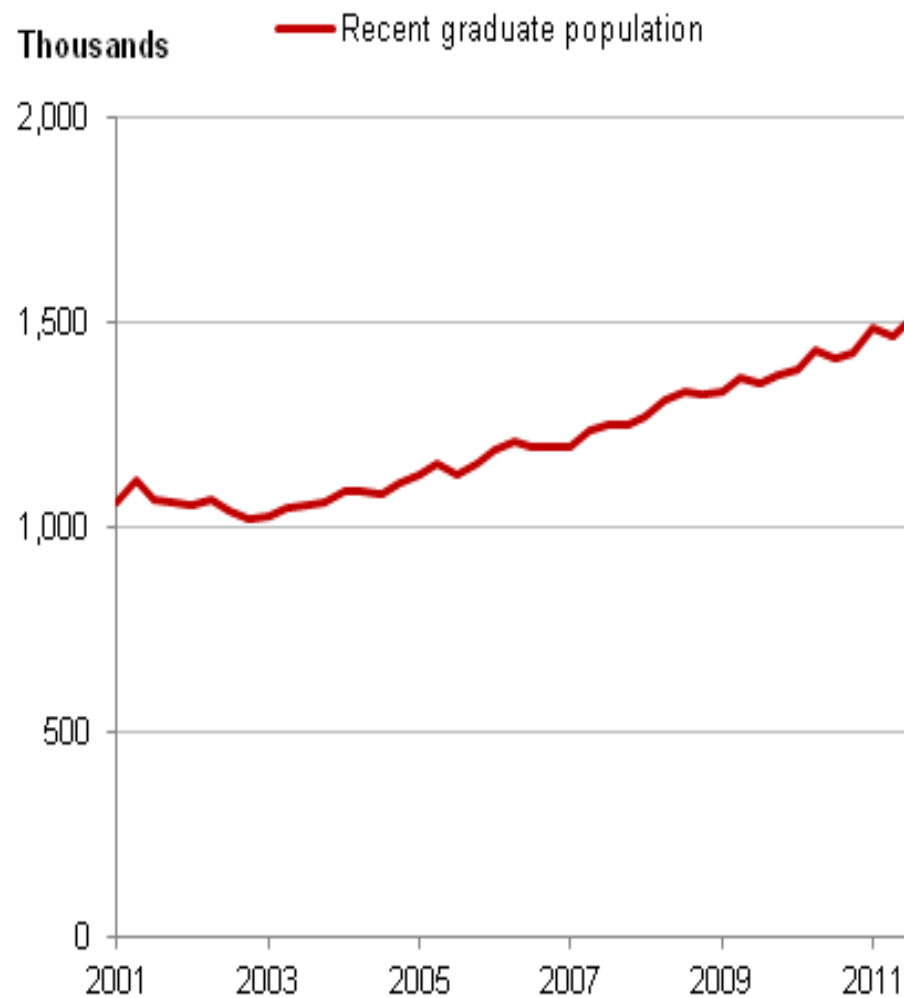
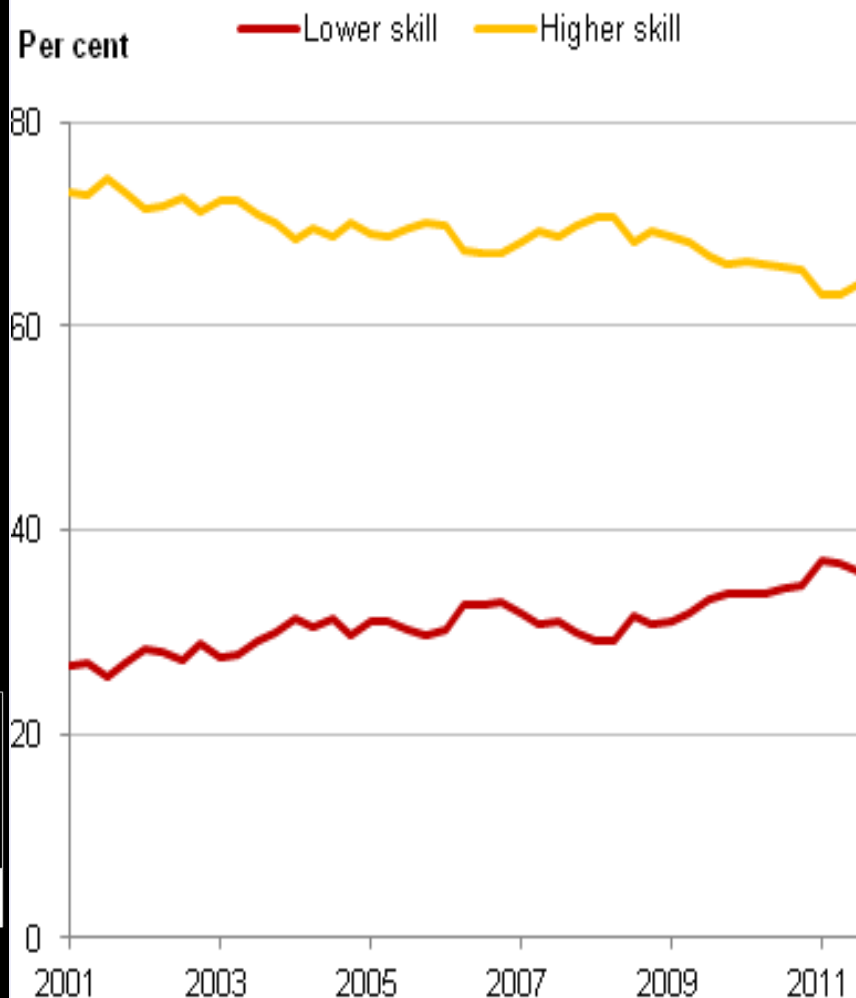
Source: ONS

\*Within past six years

# No Reino Unido:

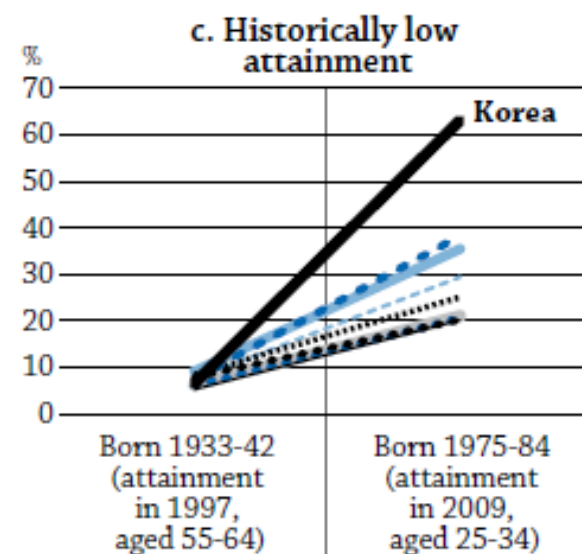
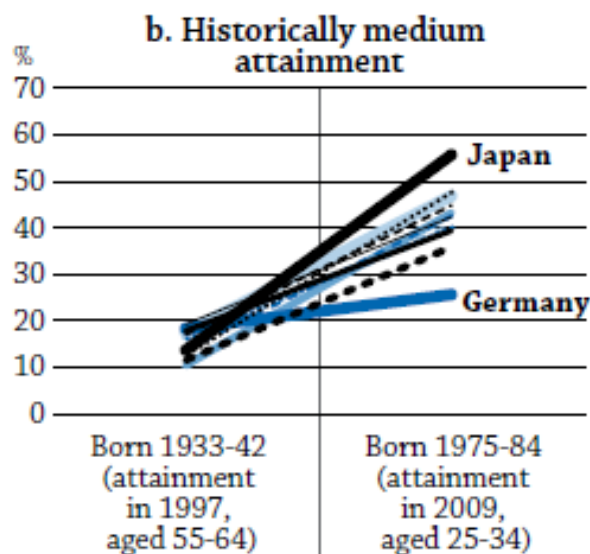
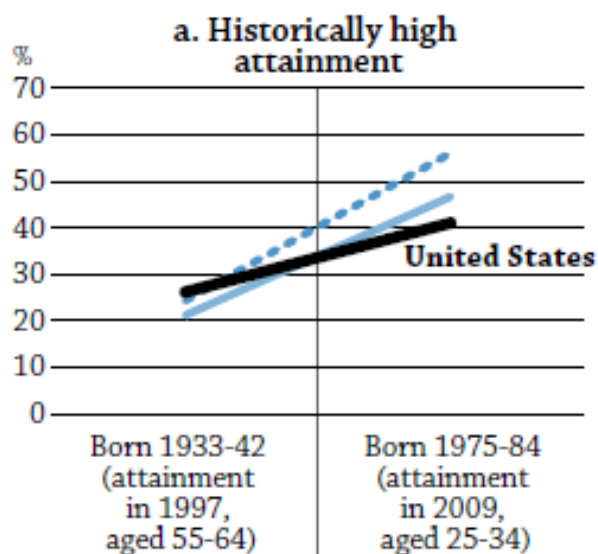
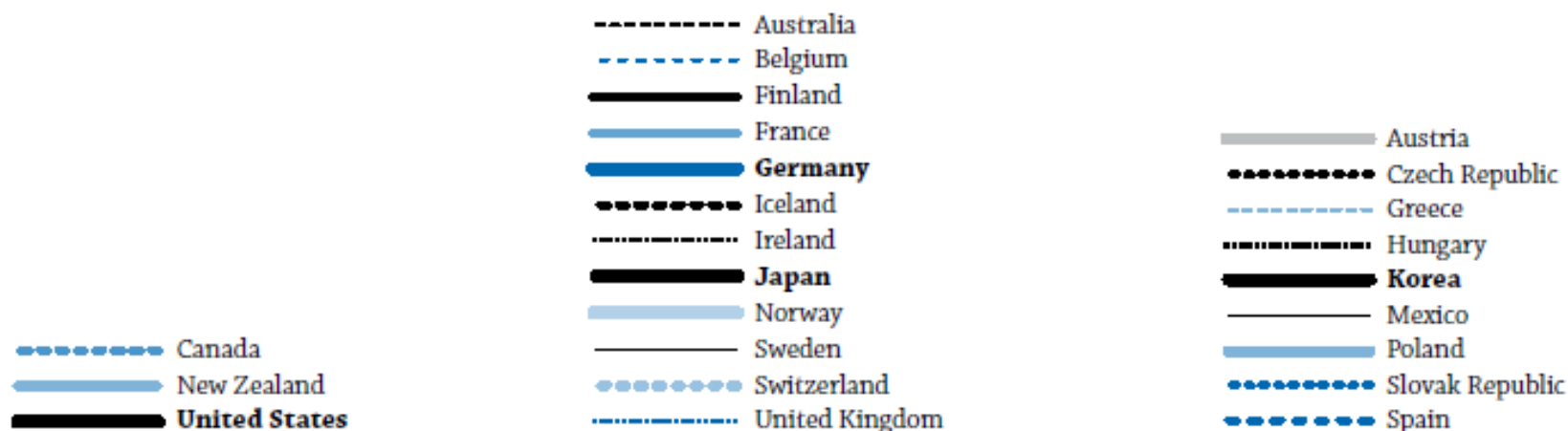
## Recent graduates by skill level of occupation (per cent), Q2 2001 - Q4 2011, UK

UK, seasonally adjusted



Source: Labour Force Survey - Office for National Statistics

## Progress in attainment of tertiary education over half a century, by country

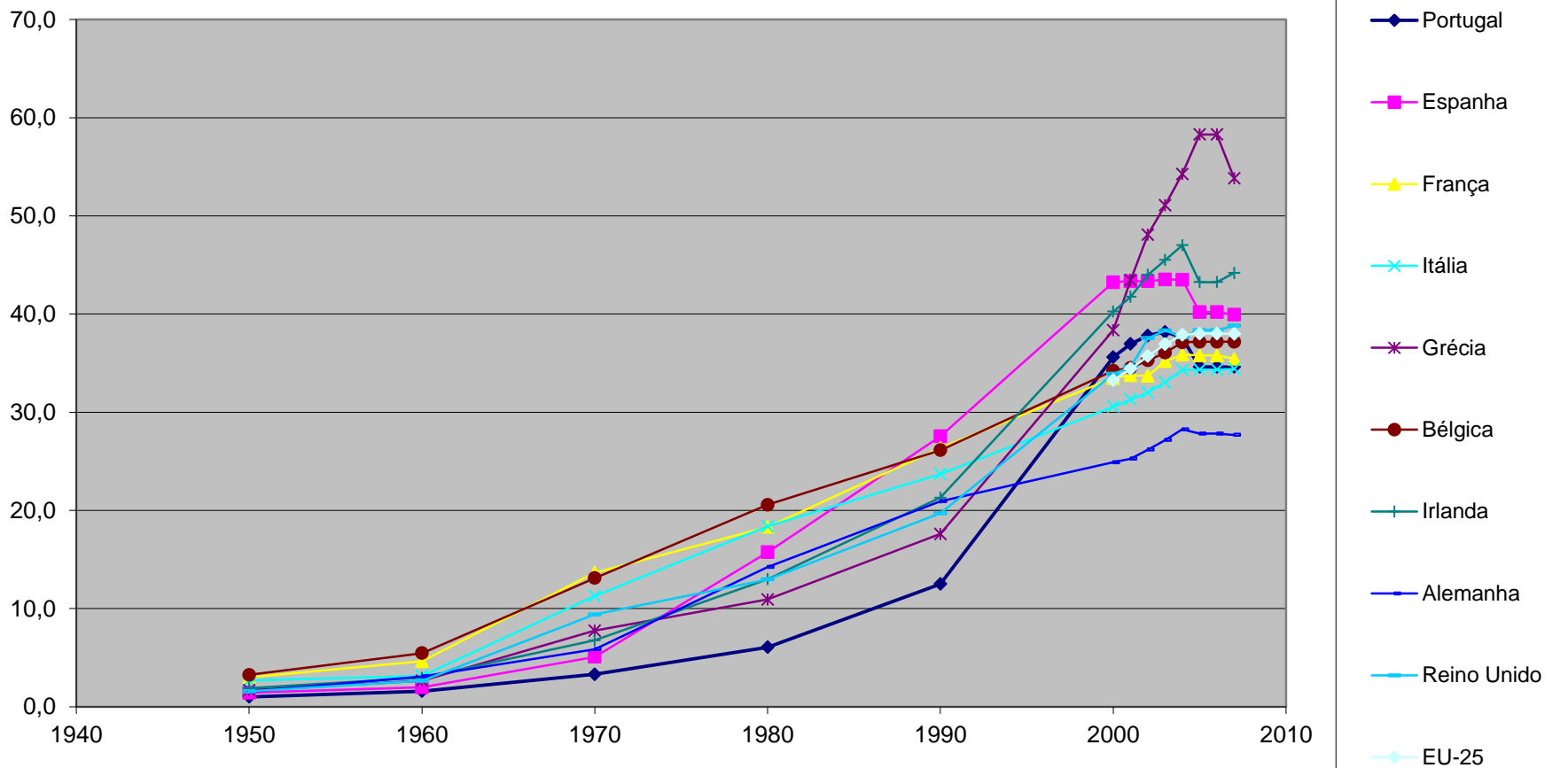


Source: OECD. See Annex 3 for notes ([www.oecd.org/edu/eag2011](http://www.oecd.org/edu/eag2011)).

StatLink <http://dx.doi.org/10.1787/888932479002>

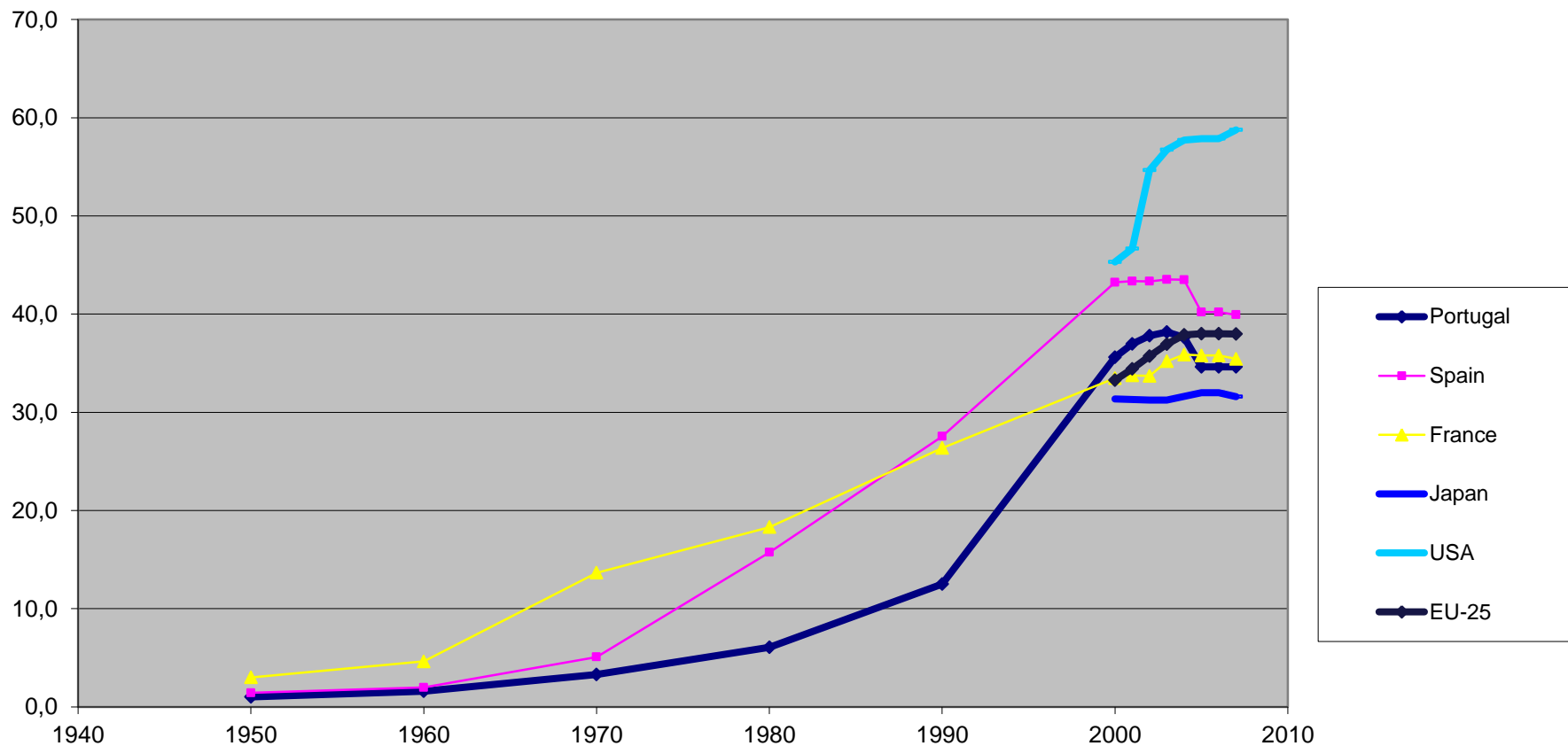
# Massificação tardia em Portugal

Growth of HE enrollment in Europe, per 1000 hab



# Massificação tardia em Portugal

Higher education enrollment, per 1000 hab.





# Educação superior em Portugal

| 2009/10               | Enrollment     | (of which non-nationals) | CET          | Entry 2010    |
|-----------------------|----------------|--------------------------|--------------|---------------|
| Universities, public  | 183 806        | (11 482)                 | 438          | 35 236        |
| Polytechnic, public   | 110 022        | (2 872)                  | 4 806        | 28 679        |
| <b>Total, public</b>  | <b>293 828</b> | <b>(14 354)</b>          | <b>5 244</b> | <b>63 915</b> |
| Universities, private | 60 174         | (4 184)                  | 773          | 13 888        |
| Polytechnic, private  | 29 625         | (680)                    | 197          | 5 830         |
| <b>Total, private</b> | <b>89 799</b>  | <b>(4 869)</b>           | <b>970</b>   | <b>19 718</b> |
| <b>Grand Total</b>    | <b>383 627</b> | <b>(19 425)</b>          | <b>6 214</b> | <b>83 633</b> |

*Cohort ca. 110 000*

# Portugal

| 2009/10 | Stud(L+M)      | Grad.BA       | Grad.MA       | yr/Lic |
|---------|----------------|---------------|---------------|--------|
| Univ    | 232 586        | 35 883        | 19 544        | 6.5    |
| Polit.  | 139 870        | 24 541        |               | 5.7    |
|         | <b>372 456</b> | <b>60 424</b> | <b>19 544</b> |        |

yr/Lic+Ms

4.2

# Espanha 2008

Conv PT: 4.6

| 2008        | Stud(pres.)    | Grad.BA       | Grad.MA | yr/grado |
|-------------|----------------|---------------|---------|----------|
| Ciclo Largo | 99 622         |               | 17 736  | 7.8      |
| Ciclo corto | 129 092        | 14 862        |         | 6.7      |
|             | <b>228 714</b> | <b>32 598</b> |         |          |

UNED: 128 601 + 6 405

UOC: 46 612

.....

# Dinamarca 2009

Conv PT: 0.556

| 2009/10   | Students       | Grad.BA       | Grad.MA | yr/Lic+Ms  |
|-----------|----------------|---------------|---------|------------|
| Bac+Long  | 212 081        | 48 754        | 24 637  | 4.4        |
| Med+Short | 158 820        | 36 844        |         | 4.3        |
|           | <b>370 901</b> | <b>85 597</b> |         | <b>4.3</b> |

<http://www.dst.dk/pukora/epub/upload/16218/03edu.pdf>

# Holanda:

Conv PT: 1.68

| 2009/10 | Students       | Grad.BA       | Grad.MA | yr/Lic+Ms |
|---------|----------------|---------------|---------|-----------|
| Univ    | 138 761        | 15 476        | 17 262  | 4.2       |
| hbo     | 240 046        | 36 905        |         | 6.5       |
|         | <b>378 807</b> | <b>54 167</b> |         |           |

<http://www.cbs.nl/nr/rdonlyres/d4d0493e-8a94-4509-a011-b10add8e7614/0/2011a3pub.pdf>

# USA 2010

Conv PT: 31.3

|      | Students       | Grad. BA | Grad. MA | GradRate at 1.5time |
|------|----------------|----------|----------|---------------------|
| 4-yr | 332 201        |          |          | 55%                 |
| 2-yr | 250 735        |          |          | 33%                 |
|      | <b>582 936</b> |          |          |                     |

<http://www.dst.dk/pukora/epub/upload/16218/03edu.pdf>

# Alemanha 2011

PT: 8.19

Inscr. Grad

|               |                |
|---------------|----------------|
| Universidades | 191 440        |
| Hochschulen   | 98 797         |
| <b>Total</b>  | <b>290 236</b> |



# A educação superior em grandes números: a realidade portuguesa

|              | Estudantes Inscritos |               |               |              |              | Diplomados    |               |              |              |              | Inscritos      | Diplomado     | Inscritos      | Diplomado     |
|--------------|----------------------|---------------|---------------|--------------|--------------|---------------|---------------|--------------|--------------|--------------|----------------|---------------|----------------|---------------|
|              | Lic+MI               | Mestr 2º      | Doutor        | CET          | Outros       | Lic(+MI)      | Mestr         | Doutor       | CET          | Outros       | Total ES       | Total ES      | Total 3º       | Total 3º      |
| Pub-U        | 142 793              | 30 876        | 16 826        |              | 2 469        | 25 416        | 14 596        | 1 339        | 103          | 2 139        | 192 964        | 43 490        | 192 964        | 43 593        |
| Pub-P        | 100 372              | 12 905        |               | 6 054        | 1 545        | 17 583        | 1 057         |              | 1 971        | 1 029        | 114 822        | 19 669        | 120 876        | 21 640        |
| Priv-U       | 51 129               | 7 788         | 1 467         |              | 66           | 9 997         | 3 349         | 74           | 495          | 53           | 60 450         | 13 473        | 60 450         | 13 968        |
| Priv-P       | 23 094               | 3 499         |               | 1 123        | 1 245        | 6 922         | 290           |              | 79           | 973          | 27 838         | 8 185         | 28 961         | 8 264         |
| Militar-U    |                      |               |               |              |              | 470           | 252           |              |              |              |                | 722           |                | 722           |
| Militar P    |                      |               |               |              |              | 36            |               |              |              | 63           |                | 99            |                | 99            |
| Púb-U        | 142 793              | 30 876        | 16 826        |              | 2 469        | 25 886        | 14 848        | 1 339        | 103          | 2 139        | 192 964        | 44 212        | 192 964        | 44 315        |
| Púb - P      | 100 372              | 12 905        |               | 6 054        | 1 545        | 17 619        | 1 057         |              | 1 971        | 1 092        | 114 822        | 19 768        | 120 876        | 21 739        |
| Público      | 243 165              | 43 781        | 16 826        | 6 054        | 4 014        | 43 505        | 15 905        | 1 339        | 2 074        | 3 231        | 307 786        | 63 980        | 313 840        | 66 054        |
| Privado      | 74 223               | 11 287        | 1 467         | 1 123        | 1 311        | 16 919        | 3 639         | 74           | 574          | 1 026        | 88 288         | 21 658        | 89 411         | 22 232        |
| Universitá   | 193 922              | 38 664        | 18 293        |              | 2 535        | 35 883        | 18 197        | 1 413        | 598          | 2 192        | 253 414        | 57 685        | 253 414        | 58 283        |
| Politécnico  | 123 466              | 16 404        |               | 7 177        | 2 790        | 24 541        | 1 347         |              | 2 050        | 2 065        | 142 660        | 27 953        | 149 837        | 30 003        |
| <b>Total</b> | <b>317 388</b>       | <b>55 068</b> | <b>18 293</b> | <b>7 177</b> | <b>5 325</b> | <b>60 424</b> | <b>19 544</b> | <b>1 413</b> | <b>2 648</b> | <b>4 257</b> | <b>396 074</b> | <b>85 638</b> | <b>403 251</b> | <b>88 286</b> |

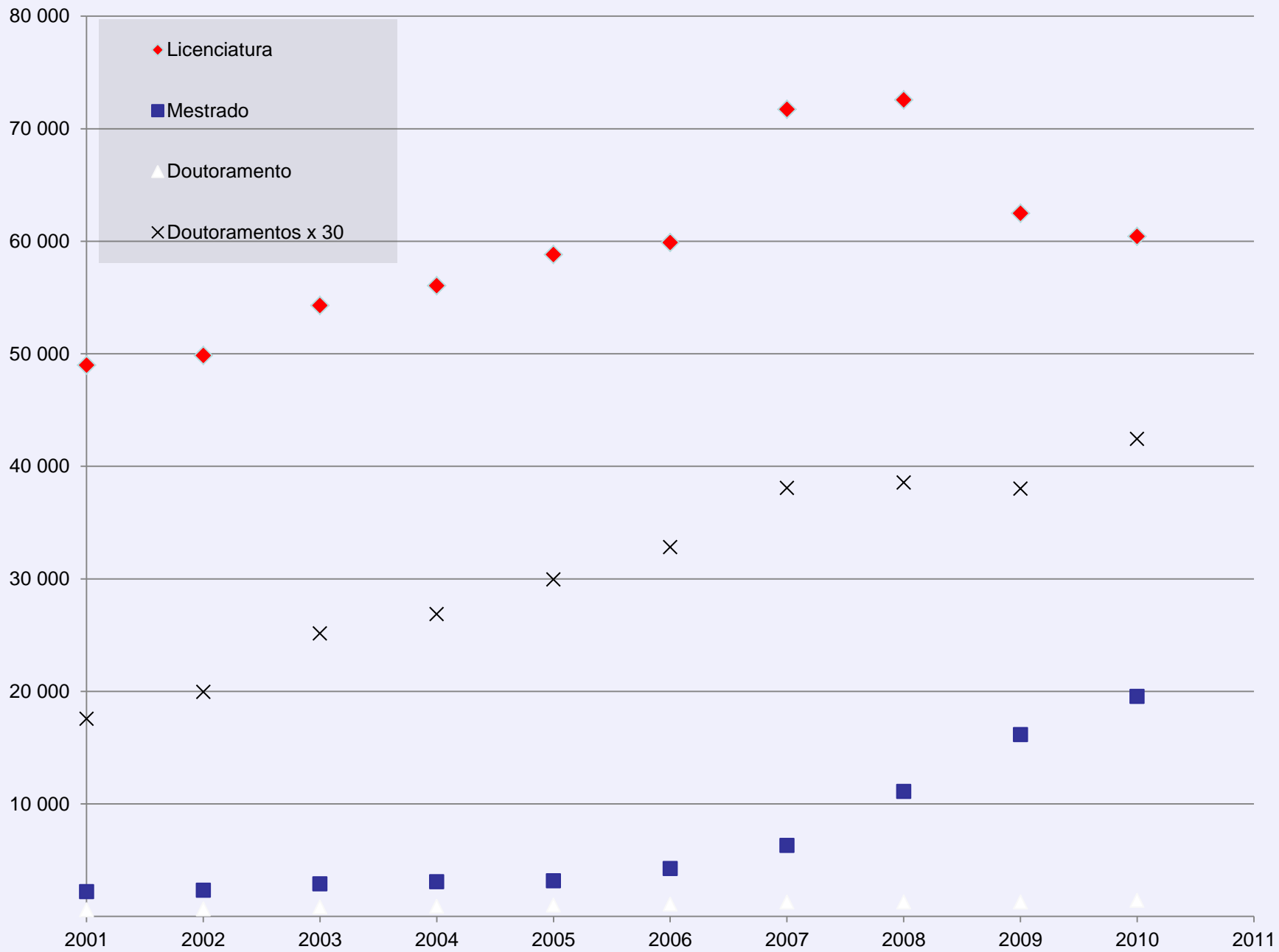
| tipo          | Vagas 1.ª Fase | Matric. 1.ª fase | Matric. 2.ª fase | Matric. 3.ª fase | Total  | Cand. 1.ª Opçã coloc/vag | 1ª opç/vag |
|---------------|----------------|------------------|------------------|------------------|--------|--------------------------|------------|
| Universitário | 28 743         | 22 048           | 4 996            | 981              | 28 025 | 31 409                   | 98%        |
| Politécnico   | 24 757         | 12 807           | 4 549            | 806              | 18 162 | 15 227                   | 73%        |

# A educação superior em grandes números: a realidade portuguesa

|              | Estudantes Inscritos |               |               |              |              | Diplomados    |               |              |              |              | Inscritos      | Diplomado     | Inscritos      | Diplomado     |
|--------------|----------------------|---------------|---------------|--------------|--------------|---------------|---------------|--------------|--------------|--------------|----------------|---------------|----------------|---------------|
|              | Lic+MI               | Mestr 2ºd     | Doutor        | CET          | Outros       | Lic(+MI)      | Mestr         | Doutor       | CET          | Outros       | Total ES       | Total ES      | Total 3º       | Total 3º      |
| Pub-U        | 142 793              | 30 876        | 16 826        |              | 2 469        | 25 416        | 14 596        | 1 339        | 103          | 2 139        | <b>192 964</b> | <b>43 490</b> | 192 964        | 43 593        |
| Pub-P        | 100 372              | 12 905        |               | 6 054        | 1 545        | 17 583        | 1 057         |              | 1 971        | 1 029        | <b>114 822</b> | <b>19 669</b> | 120 876        | 21 640        |
| Priv-U       | 51 129               | 7 788         | 1 467         |              | 66           | 9 997         | 3 349         | 74           | 495          | 53           | <b>60 450</b>  | <b>13 473</b> | 60 450         | 13 968        |
| Priv-P       | 23 094               | 3 499         |               | 1 123        | 1 245        | 6 922         | 290           |              | 79           | 973          | <b>27 838</b>  | <b>8 185</b>  | 28 961         | 8 264         |
| Militar-U    |                      |               |               |              |              | 470           | 252           |              |              |              |                | <b>722</b>    |                | 722           |
| Militar P    |                      |               |               |              |              | 36            |               |              |              | 63           |                | <b>99</b>     |                | 99            |
| Púb-U        | 142 793              | 30 876        | 16 826        |              | 2 469        | 25 886        | 14 848        | 1 339        | 103          | 2 139        | 192 964        | 44 212        | 192 964        | 44 315        |
| Púb - P      | 100 372              | 12 905        |               | 6 054        | 1 545        | 17 619        | 1 057         |              | 1 971        | 1 092        | 114 822        | 19 768        | 120 876        | 21 739        |
| Público      | 243 165              | 43 781        | 16 826        | 6 054        | 4 014        | 43 505        | 15 905        | 1 339        | 2 074        | 3 231        | 307 786        | 63 980        | 313 840        | 66 054        |
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|                       | 2009/10 | Enrollment     | (of which non-nationals) | CET          | Entry 2010    |
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| Polytechnic, private  |         | 29 625         | (680)                    | 197          | 5 830         |
| <b>Total, private</b> |         | <b>89 799</b>  | <b>(4 869)</b>           | <b>970</b>   | <b>19 718</b> |
| <b>Grand Total</b>    |         | <b>383 627</b> | <b>(19 425)</b>          | <b>6 214</b> | <b>83 633</b> |

| tipo          | Vagas 1.ª Fase | Matric. 1.ª fase | Matric. 2.ª fase | Matric. 3.ª fase | Total  | Cand. 1.ª Opção coloc/vag | 1ªopç/vag |
|---------------|----------------|------------------|------------------|------------------|--------|---------------------------|-----------|
| Universitário | 28 743         | 22 048           | 4 996            | 981              | 28 025 | 31 409                    | 98%       |
| Politécnico   | 24 757         | 12 807           | 4 549            | 806              | 18 162 | 15 227                    | 73%       |



# A educação superior por região: Acesso 2011

| NUT II   | Norte  | Centro | LVT    | Alentejo | Algarve | Madeira | Açores | In     | Ganho % | Ganho  |
|----------|--------|--------|--------|----------|---------|---------|--------|--------|---------|--------|
| Norte    | 12 422 | 928    | 83     | 18       | 35      | 159     | 83     | 13 728 | -4%     | -8 660 |
| Centro   | 2 411  | 9 321  | 667    | 186      | 145     | 228     | 136    | 13 094 | 2%      | 2 345  |
| LVT      | 505    | 1 979  | 11 222 | 600      | 475     | 312     | 185    | 15 278 | 10%     | 14 505 |
| Alentejo | 62     | 278    | 273    | 870      | 129     | 34      | 13     | 1 659  | -2%     | - 620  |
| Algarve  | 41     | 92     | 108    | 107      | 914     | 22      | 10     | 1 294  | -9%     | -2 040 |
| Madeira  | 3      | 3      | 9      | 1        | 1       | 559     | 2      | 578    | -26%    | -4 500 |
| Açores   | 16     | 24     | 15     | 1        | 3       | 14      | 483    | 556    | -9%     | -1 780 |
| Out      | 15 460 | 12 625 | 12 377 | 1 783    | 1 702   | 1 328   | 912    | 46 187 |         |        |

# A educação superior por região: Acesso 2011

| NUT II                | Norte   | Centro | LVT     | Alentejo | Algarve | Madeira | Açores | Total  |
|-----------------------|---------|--------|---------|----------|---------|---------|--------|--------|
| <b>Matriculados U</b> | 8 161   | 6 023  | 11 322  | 932      | 551     | 559     | 477    | 28 025 |
| <b>Matriculados P</b> | 5 567   | 6 981  | 3 956   | 817      | 743     | 19      | 79     | 18 162 |
| <b>1ª opção U</b>     | 11 182  | 5 496  | 12 614  | 680      | 348     | 675     | 414    | 31 409 |
| <b>1ª opção P</b>     | 5 044   | 4 967  | 3 964   | 506      | 633     | 46      | 67     | 15 227 |
| <b>Ganho U</b>        | - 3 021 | 527    | - 1 292 | 252      | 203     | - 116   | 63     | -3 384 |
| <b>Ganho P</b>        | 523     | 2 014  | - 8     | 311      | 110     | - 27    | 12     | 2 935  |
| <b>Ganho U+P</b>      | - 2 498 | 2 541  | - 1 300 | 563      | 313     | - 143   | 75     | - 449  |

# Public direct funding to institutions

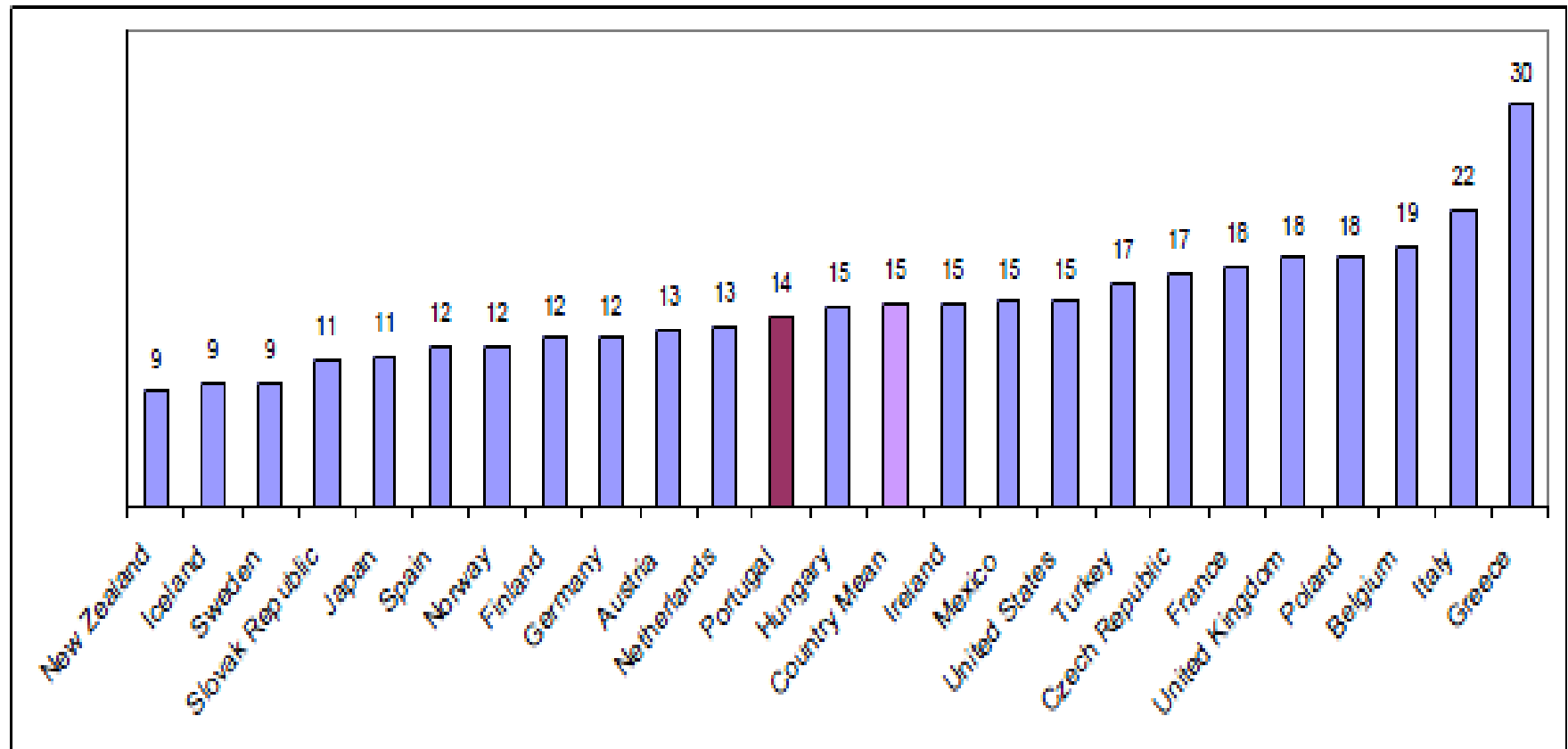
| <b>Portugal</b>     |              | <b>OE 2012</b>      | <b>Enrolment</b> | <b>€/stud</b> |
|---------------------|--------------|---------------------|------------------|---------------|
| <b>Universities</b> | <b>TOTAL</b> | <b>€577,801,164</b> | <b>153423</b>    | <b>€3,766</b> |
| <b>Polytechnics</b> | <b>TOTAL</b> | <b>€262,912,039</b> | <b>81146</b>     | <b>€3,240</b> |

| <b>Switzerland</b> |              | <b>Public Funding</b>    | <b>Enrolment</b> | <b>CHF/stud</b>   |
|--------------------|--------------|--------------------------|------------------|-------------------|
| <b>University</b>  | <b>TOTAL</b> | <b>CHF 5,067,000,000</b> | <b>110168</b>    | <b>CHF 45,993</b> |
| <b>UAS</b>         | <b>TOTAL</b> | <b>CHF 1,334,000,000</b> | <b>32534</b>     | <b>CHF 41,003</b> |

# 1. Massificação tardia

## 2. Finance: direct subsidies and student support

Figure 1.13 – Ratio of students to teaching staff in higher education in OECD (2003)

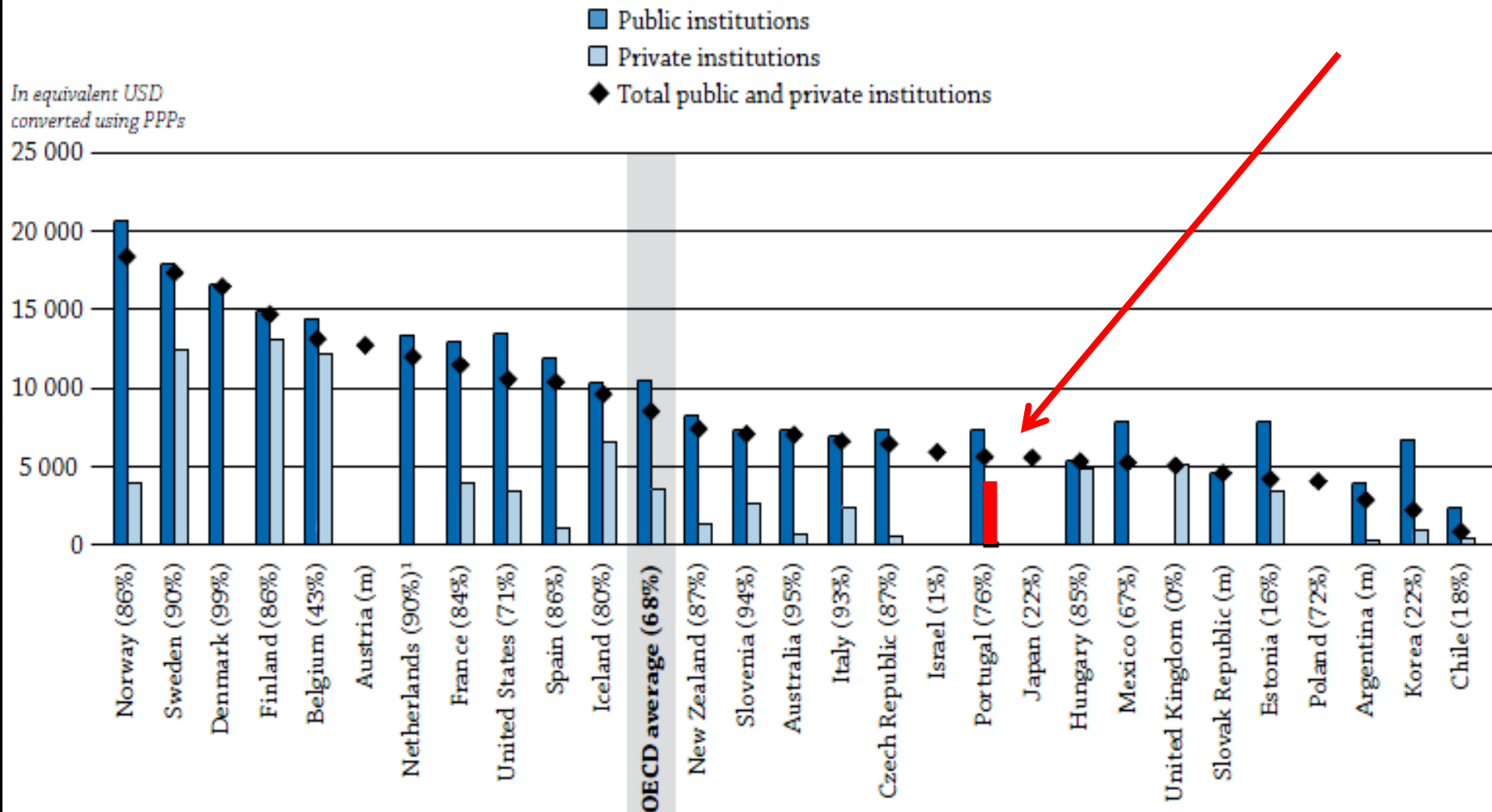


Notes: Teaching staff is based on full-time equivalents, FTEs; Norwegian and Portuguese data refer to public institutions only;

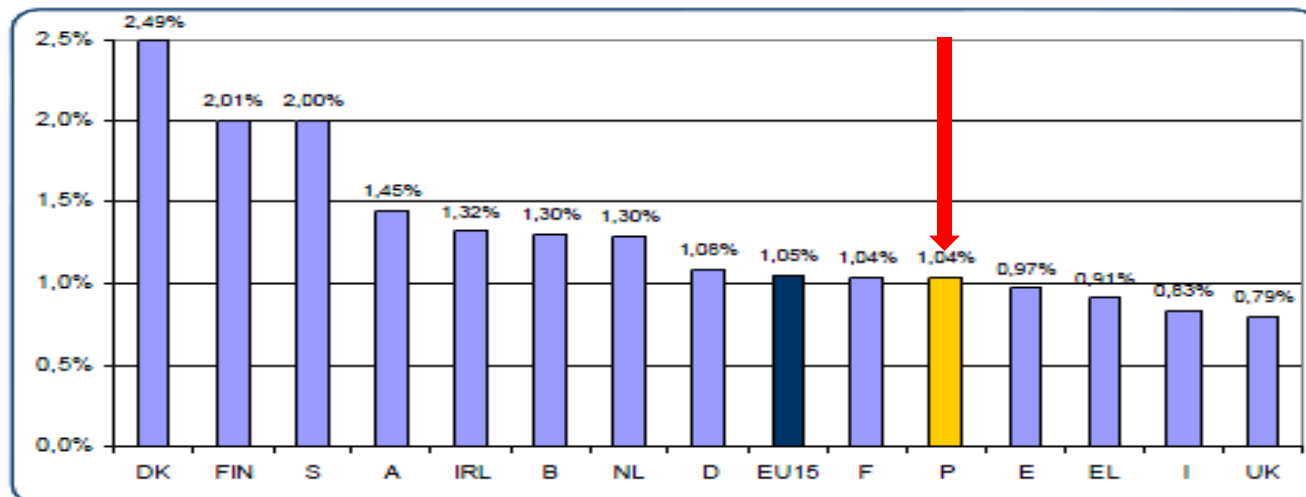
Sources: Portuguese data from DGESUP and OCES; otherwise: OECD (2005), Education at a Glance.



**Chart B3.4. Annual public expenditure on educational institutions per student in tertiary education, by type of institution (2008)**



## Public expenditure on higher education, as a fraction of GDP (%)

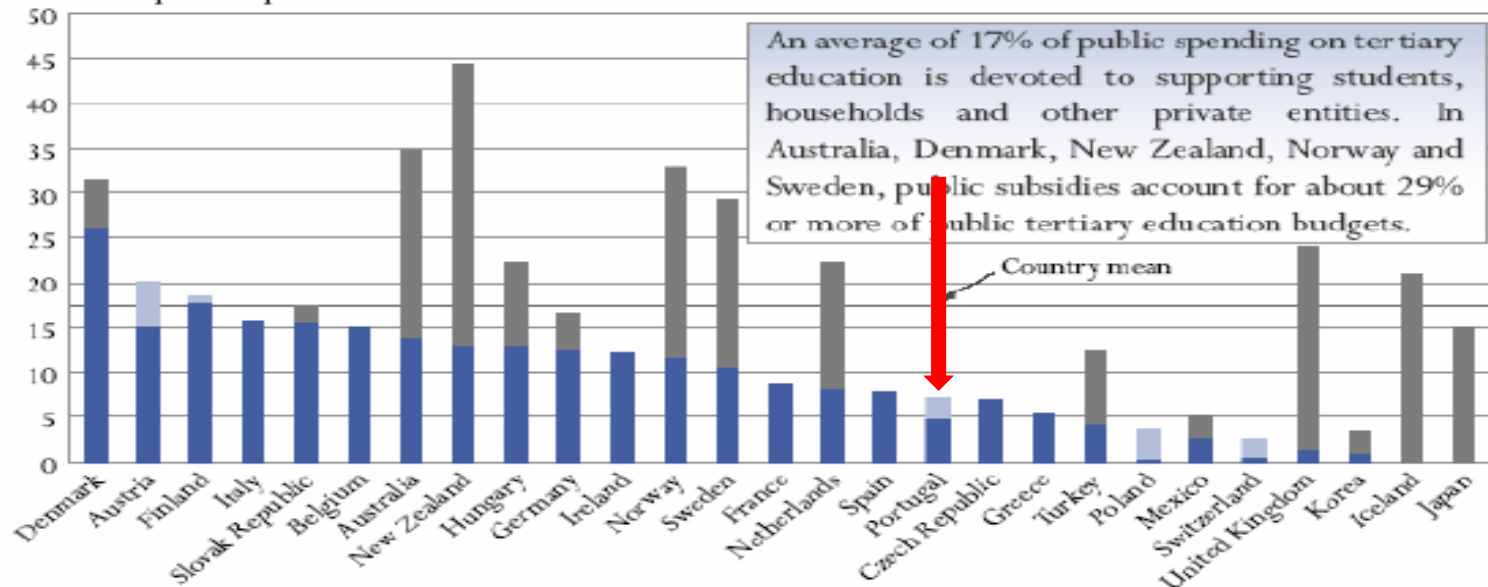


Source: "Education Across Europe 2003", Eurostat; data from last year available or 2000

## Public subsidies for education in tertiary education, 2002

■ Scholarships/other grants to households   ■ Transfers and payments to other private entities   ■ Student loans

% of total public expenditure on education



Note: The chart presents different public subsidies for education to households and other private entities as percentage of total public expenditure on education, by type of subsidy. Public subsidies to households provide finance as grants or loans, and include: i)

# A rede de Educação Superior

**Obrigado!**

**U.PORTO**

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Porto (Eng.), 13 Abril 2012