

Higher Education in Portugal



U. PORTO

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workshop: "Structural Changes in the Context of the Adjustment Programme".
Lisbon 19-21 January 2012.

Lisboa, 20 Janeiro 2012

1. Late massification of HE

- The last 50 years
- Private HE
- Universities and Polytechnics & CETs
- Science and knowledge transfer

2. Finance: direct subsidies and student support

3. Quality system

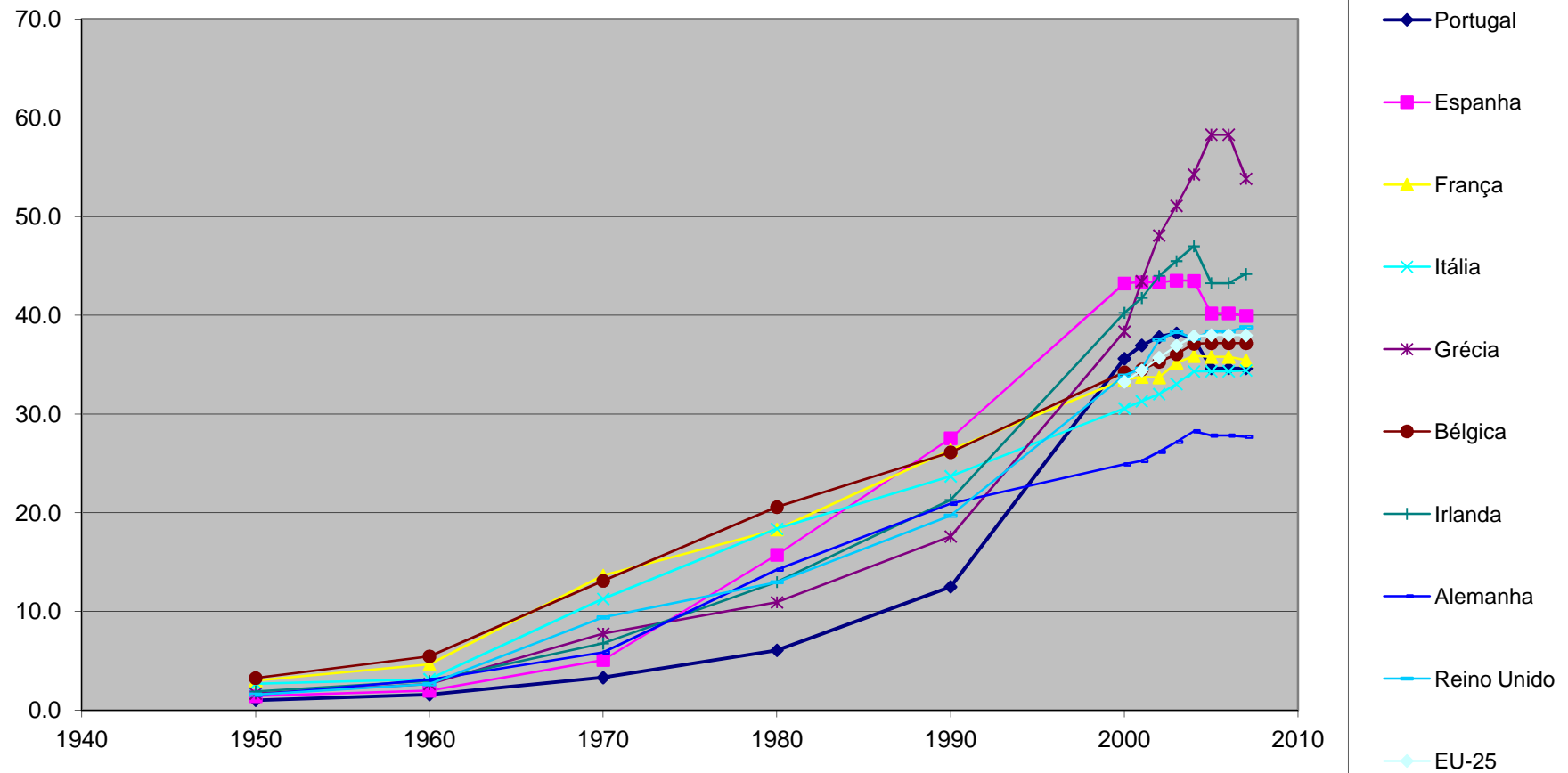
4. Consolidation strategies

- Differentiaion
- Quality
- Public finance
- Knowledge transfer

1. Late massification of HE

- The last 50 years

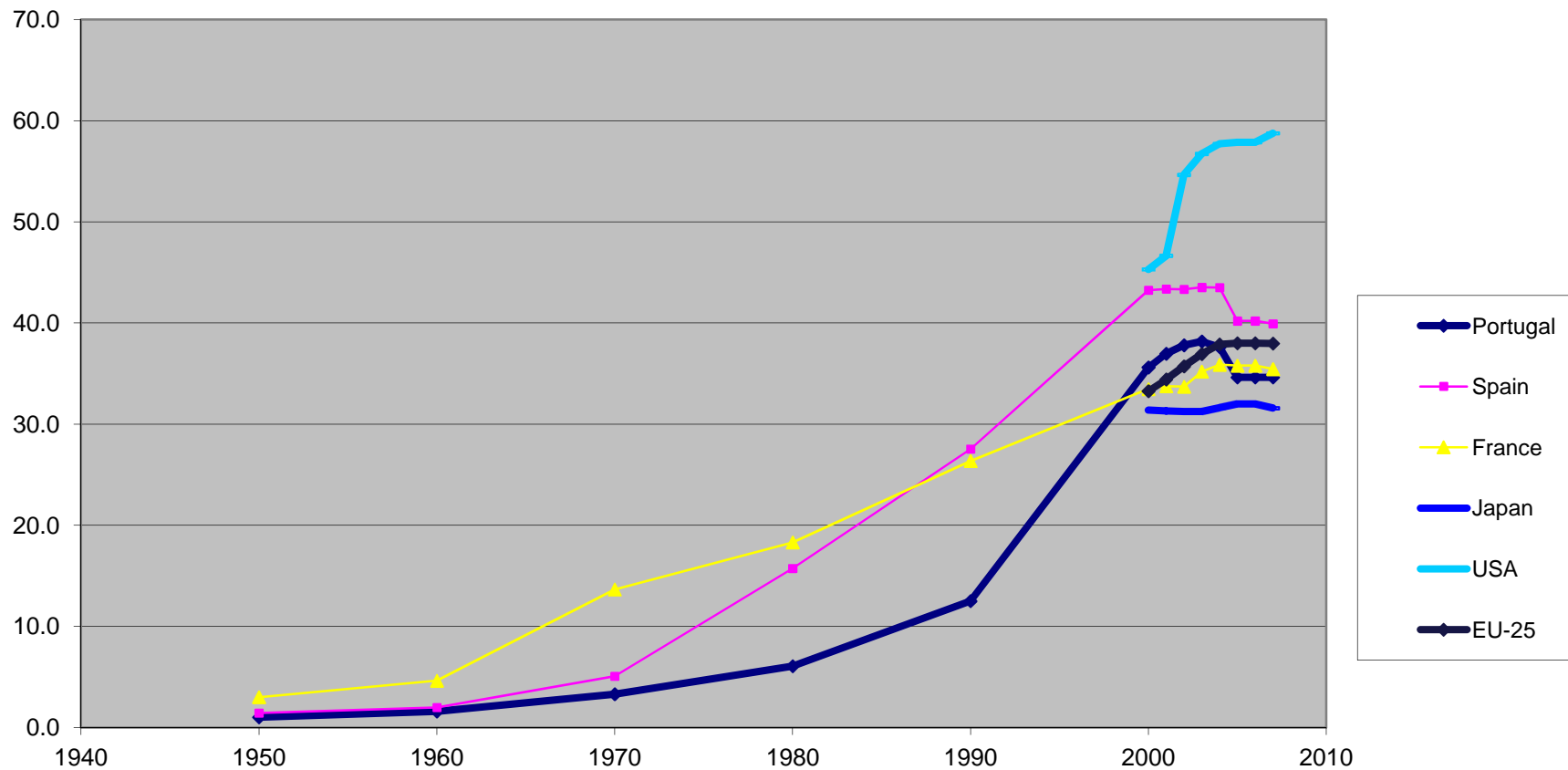
Growth of HE enrollment in Europe, per 1000 hab



1. Late massification of HE

- The last 50 years

Higher education enrollment, per 1000 hab.



1. Late massification of HE

- The last 50 years
- **Private HE**

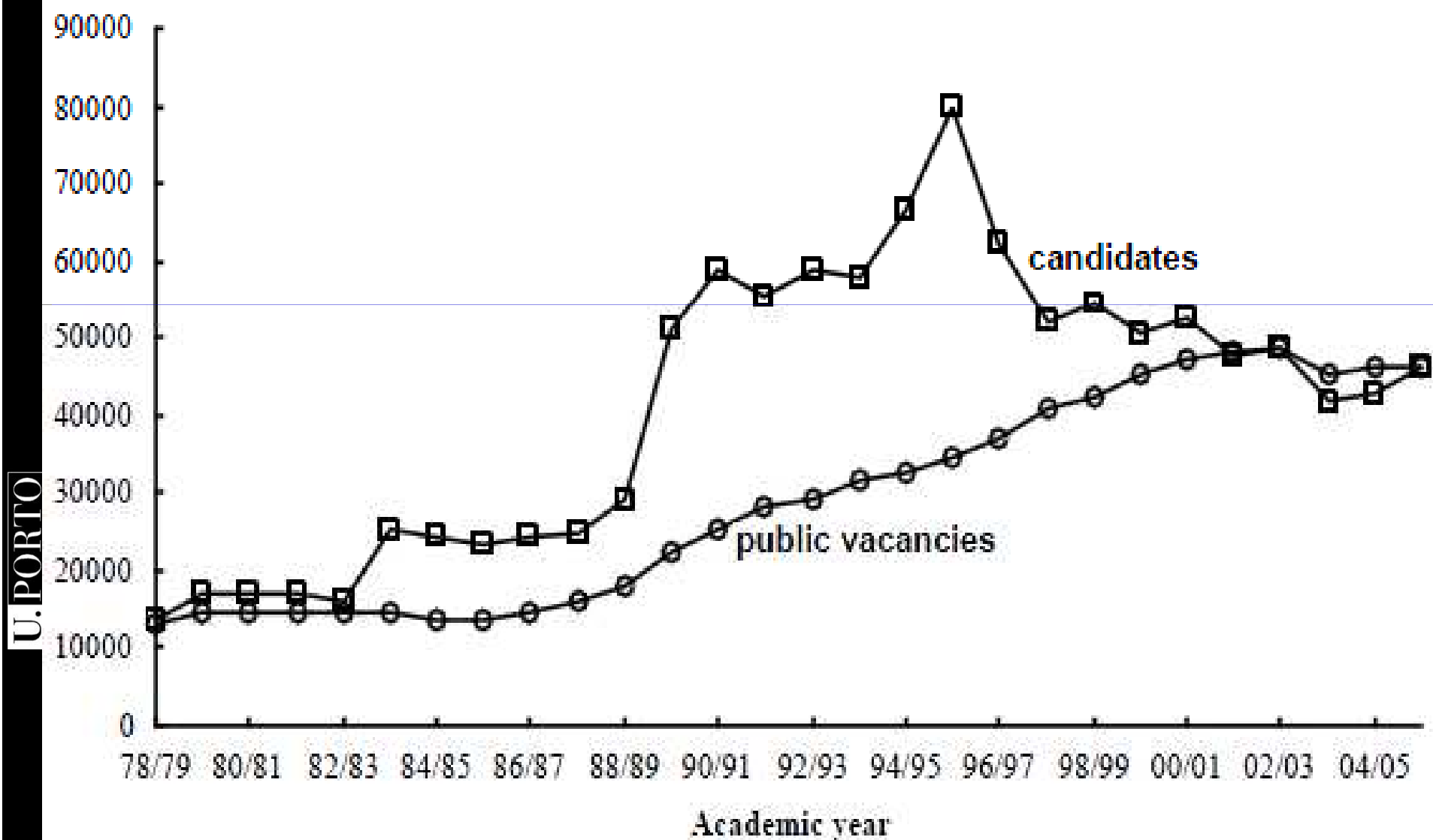
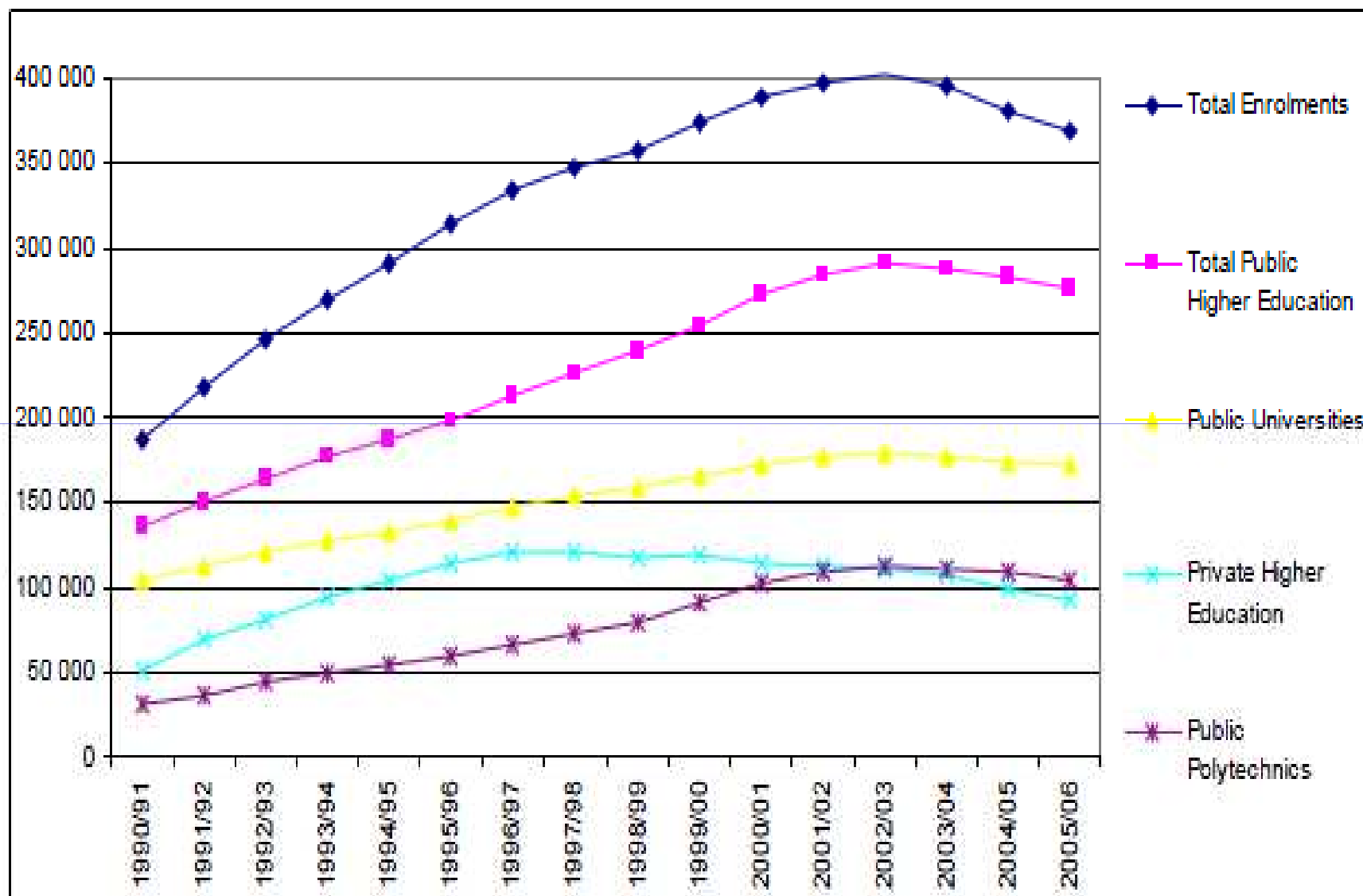


Figure 1.1 – Evolution of the overall number of students (graduate and post-graduate) enrolled in higher education in Portugal, 1990/91 – 2005/06



1. Late massification of HE

- The last 50 years
- Private HE
- **Universities and Polytechnics & CETs**

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
Total, public	293 828	(14 354)	5 244	63 915
Universities, private	60 174	(4 184)	773	13 888
Polytechnic, private	29 625	(680)	197	5 830
Total, private	89 799	(4 869)	970	19 718
Grand Total	383 627	(19 425)	6 214	83 633

Cohort ca. 110 000

Current supply/demand (public)

2011 Entry (public)

Population	Region	OpeningsT	1 ^a optiT	Open/pop	1 ^a opt/Pop
3 743 333	Norte	15 420	16 226	82%	102%
2 378 485	Centro	15 145	9 002	127%	89%
2 835 387	Lisboa	16 225	16 578	114%	137%
751 231	Alentejo	3 570	1 385	94%	43%
435 833	Algarve	1 852	981	84%	53%
247 483	Madeira	605	721	49%	68%
245 592	Açores	683	481	55%	46%
10 637 344	Total	53 500	45 374	100%	100%

Cohort

(15-24years 1 145 770)

Openings (public)

Placed

Placed (and not placed in 2010)

Entry in Polytechnics by other channels

110 000

53 500

46 187

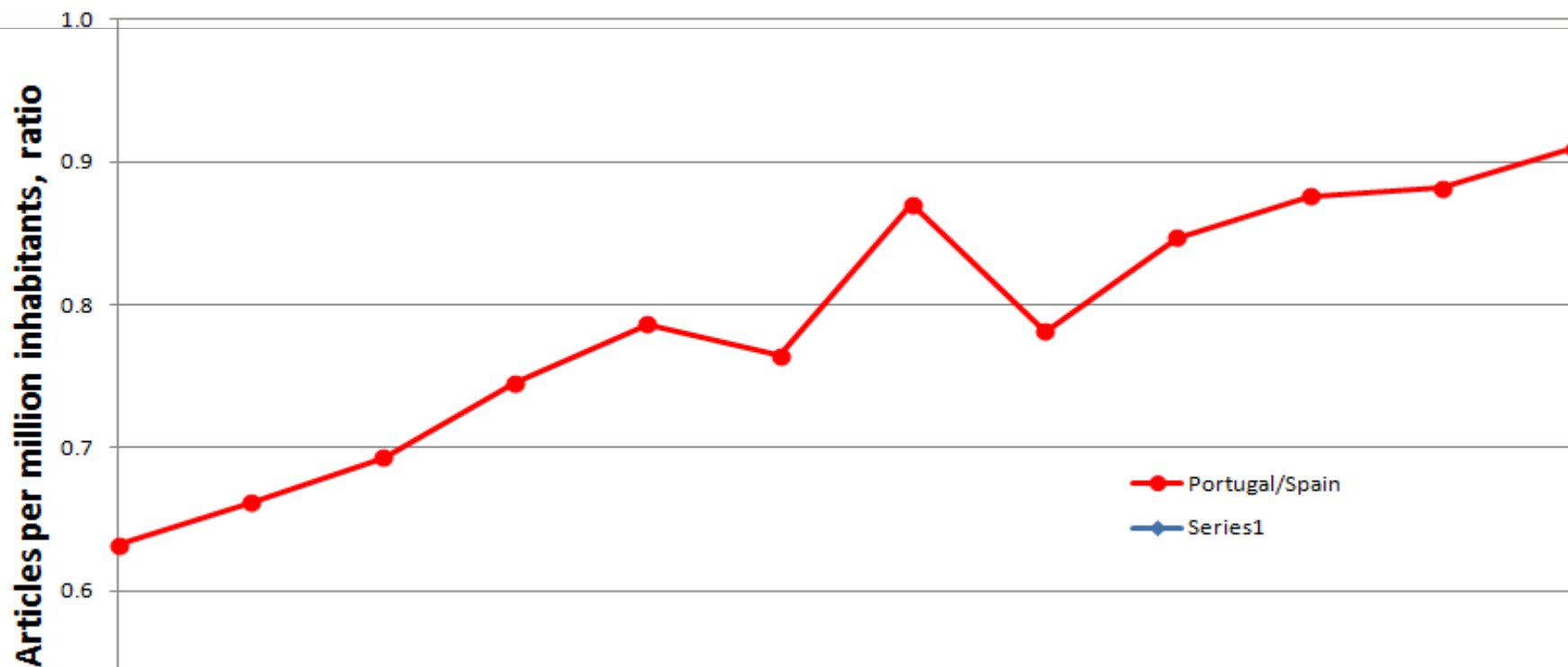
42 716

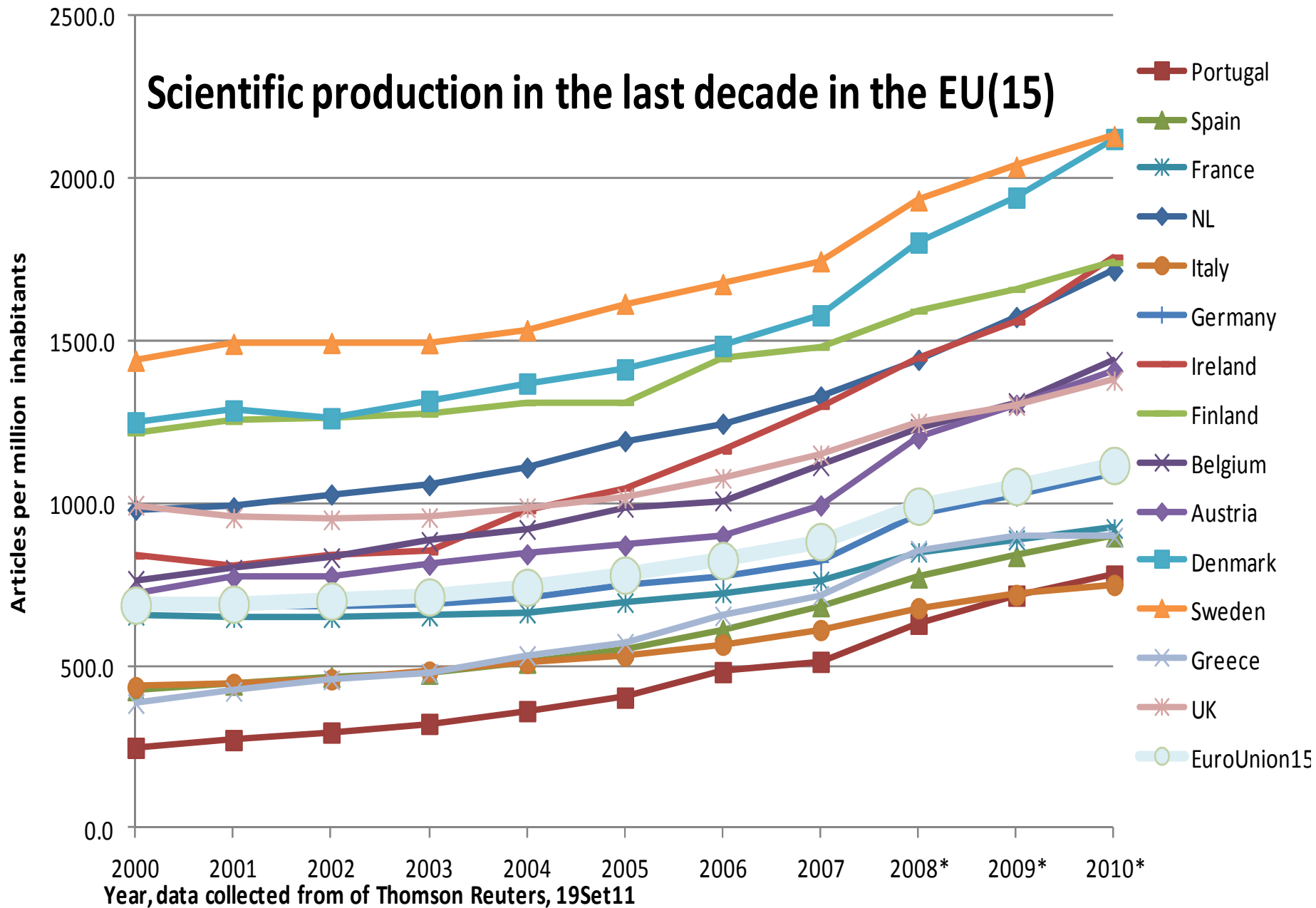
7 854

1. Late massification of HE

- The last 50 years
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- Universities and Polytechnics & CETs
- **Science and knowledge transfer**

Scientific production, Portugal vs. Spain





Public direct funding to institutions

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

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

1. Late massification of HE
2. **Funding:** direct subsidies and student support

Public direct funding to institutions

2000: M€1.463 €5,958 per student
in 2010 euro incl. Gov. retirem. plan

2012: M€840. €3,584 per student

2012: M€747. €3,188 per student

Corrected for salary cuts in 2012

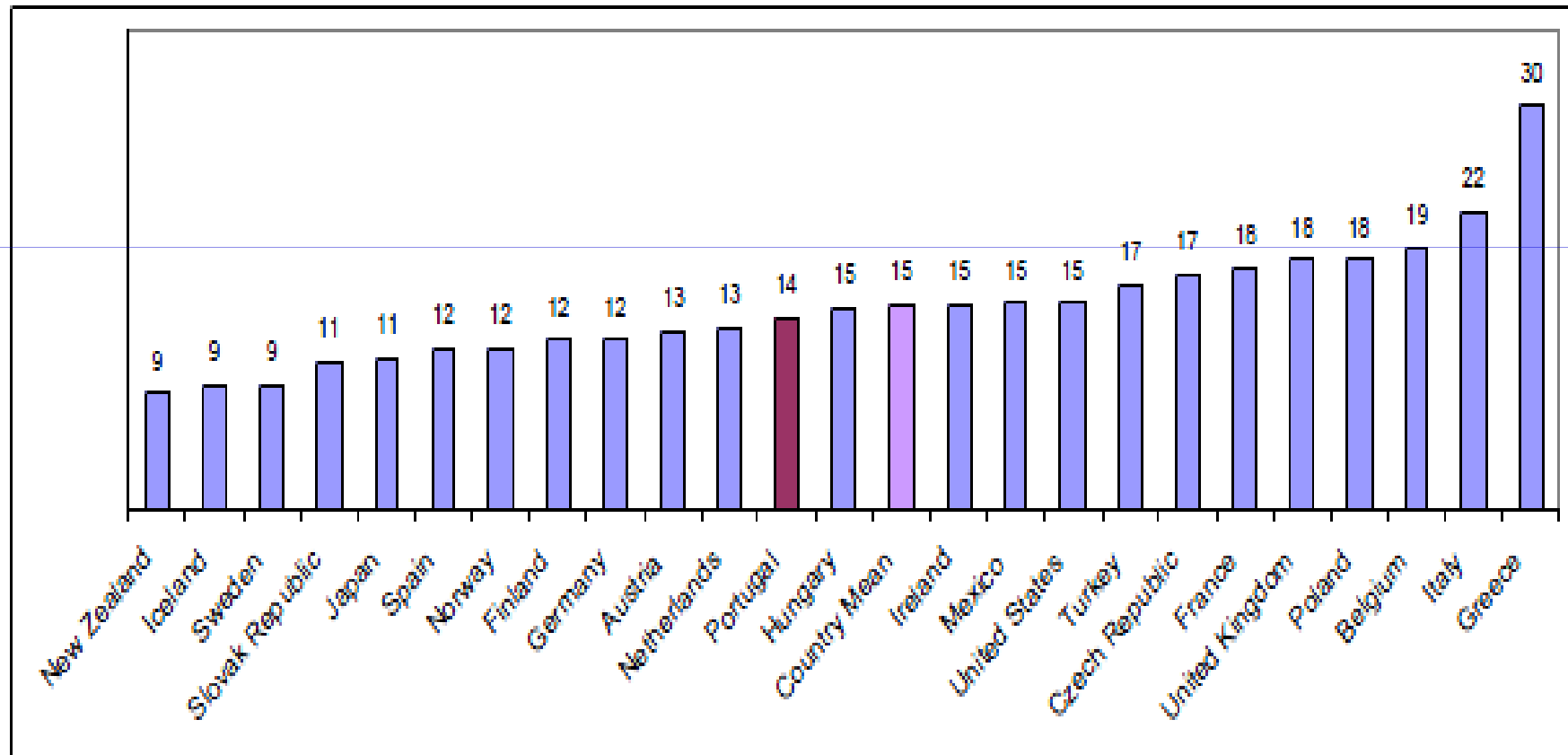
Change : -40%

Including student fees: €1000:	€4188	Change:	-30%
(24% of the total cost)		Salary cuts:	16%
		Other cuts & savings	14%

1. Late massification of HE

2. Funding: direct subsidies and student support

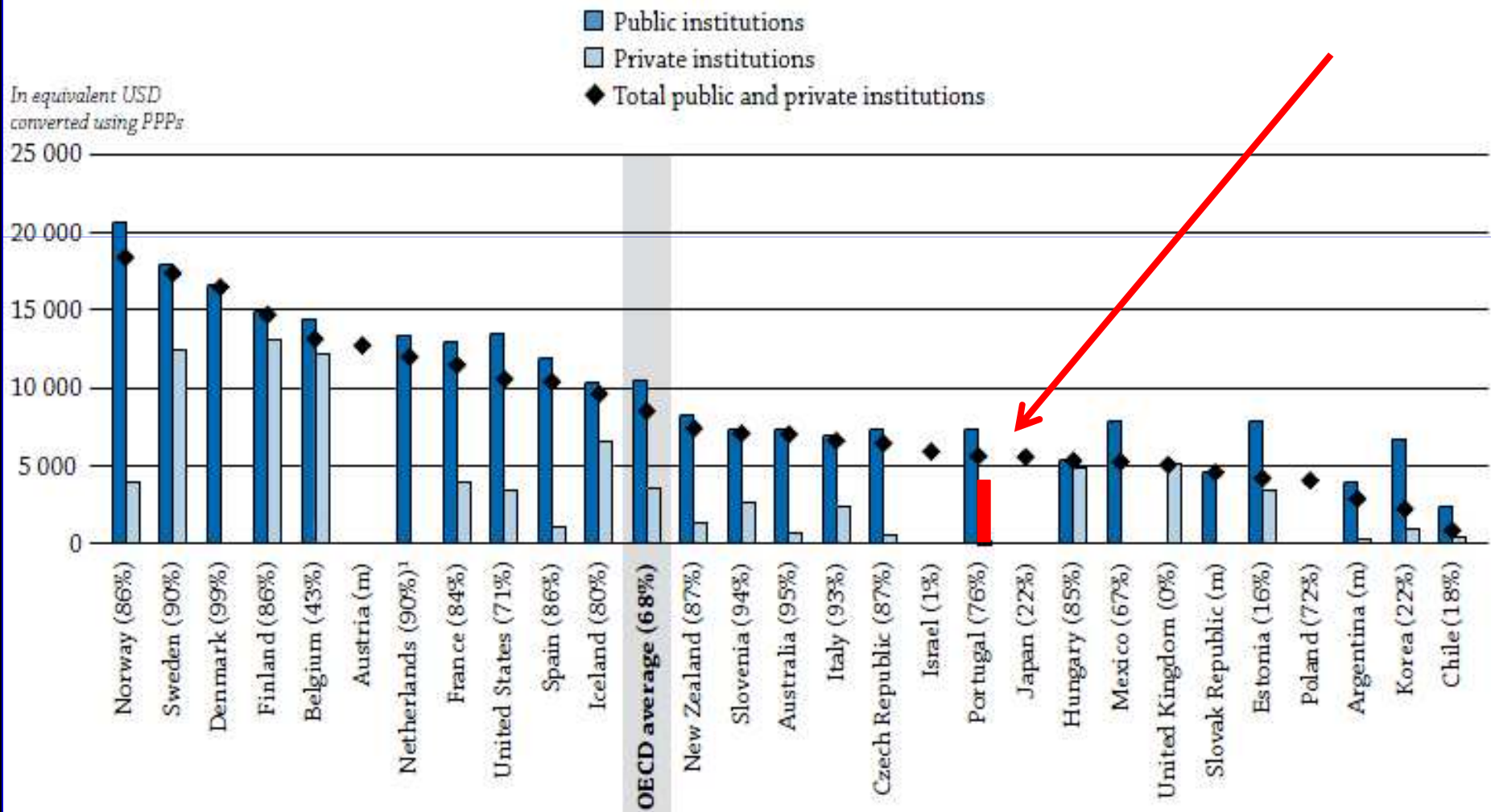
Figure 1.13 – Ratio of students to teaching staff in higher education in OECD (2003)



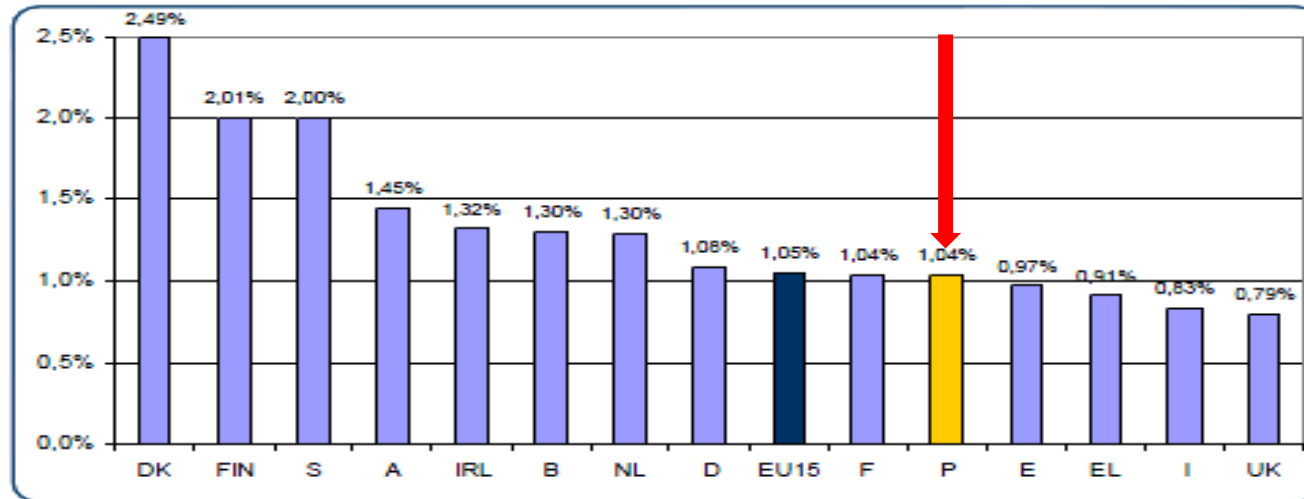
Notes: Teaching staff is based on full-time equivalents, FTEs; Norwegian and Portuguese data refer to public institutions only;

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)

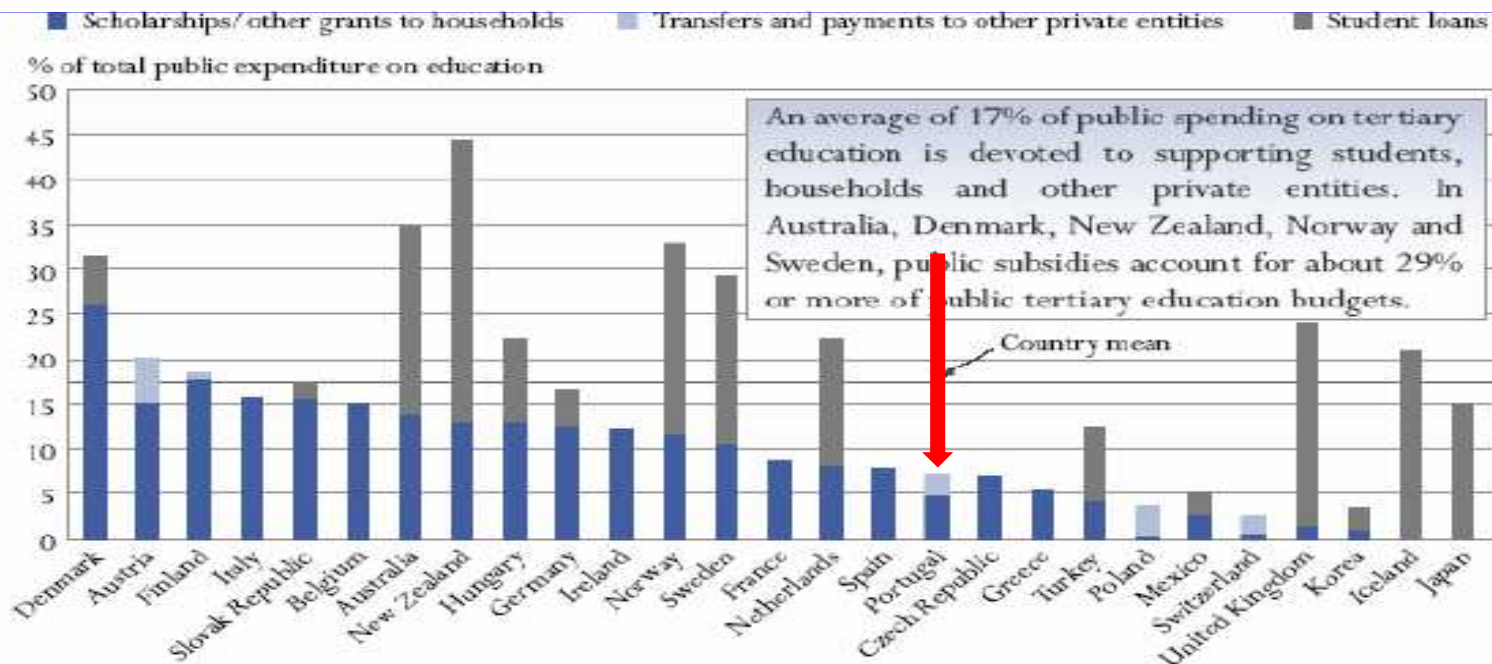


Public expenditure on higher education, as a fraction of GDP (%)



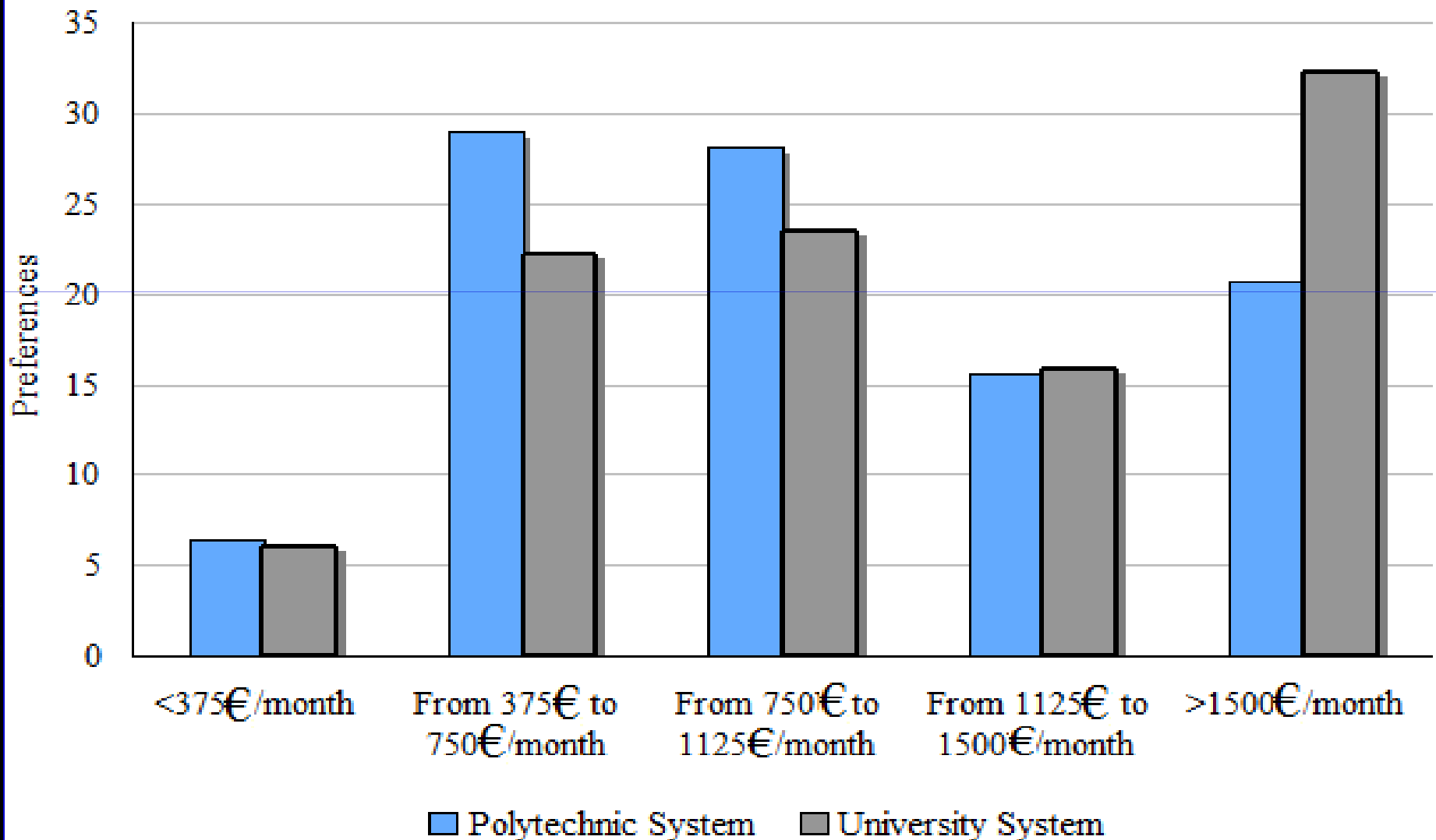
Source: "Education Across Europe 2003", Eurostat; data from last year available or 2000

Public subsidies for education in tertiary education, 2002



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)

Family income and choice of higher education sub-system.



1. Late massification of HE
2. Finance: direct subsidies and student support
3. **Quality system**

Voluntary system of institutional evaluation, before 1998

CNAVES, National council of evaluation, 1998-2005

A3ES, national agency for evaluation and accreditation
2007-

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4. Consolidation strategies

- Differentiation
- Quality
- Public finance
- Knowledge transfer

4. Consolidation strategies

- **Differentiation**
 - **Education & Training**
 - **CET** (foundation degree)
 - **HE**
 - **Polytechnics**
 - **Universities**

How to strengthen the culture of the polytechnics?

4. Consolidation strategies

- Differentiation
 - Education & Training
 - CET (foundation degree)
 - HE
 - Polytechnics
 - Universities

HE by NUT II region

Population	per million inhabitants	Univ			Poli		BA graduates		Total, Univ+Poli		Matr/1 ^o opç	BAgrad/Matr
		MatricAc	MatricAc	MatricOu	Univ	Poly	MatricA	BA graduates				
3 743 333	Norte	2180	1487	497	1561	949	3667	2510	85%	68%		
2 378 485	Centro	2532	2689	1466	1727	1759	5221	3486	123%	67%		
2 835 387	Lisboa &	3993	1602	692	2518	1050	5595	3568	94%	64%		
751 231	Alentejo	1241	1088	724	724	732	2328	1456	147%	63%		
435 833	Algarve	1264	1705	0	987	1411	2969	2398	132%	81%		
247 483	Madeira	2259	77	0	1952	150	2336	2101	80%	90%		
245 592	Açores	1942	322	0	672	419	2264	1091	116%	48%		
10 637 344	Total	2635	1707	738	1759	1130	4342	2889	99%	99%		

Balance the offer of HE (U & P) all over the country!

4. Consolidation strategies

- Differentiation
- **Quality**
 - **A3ES**
 - **Evaluation for accreditation or for excellence**
 - **Learning outcomes**

Introduce the assessment of learning outcomes?

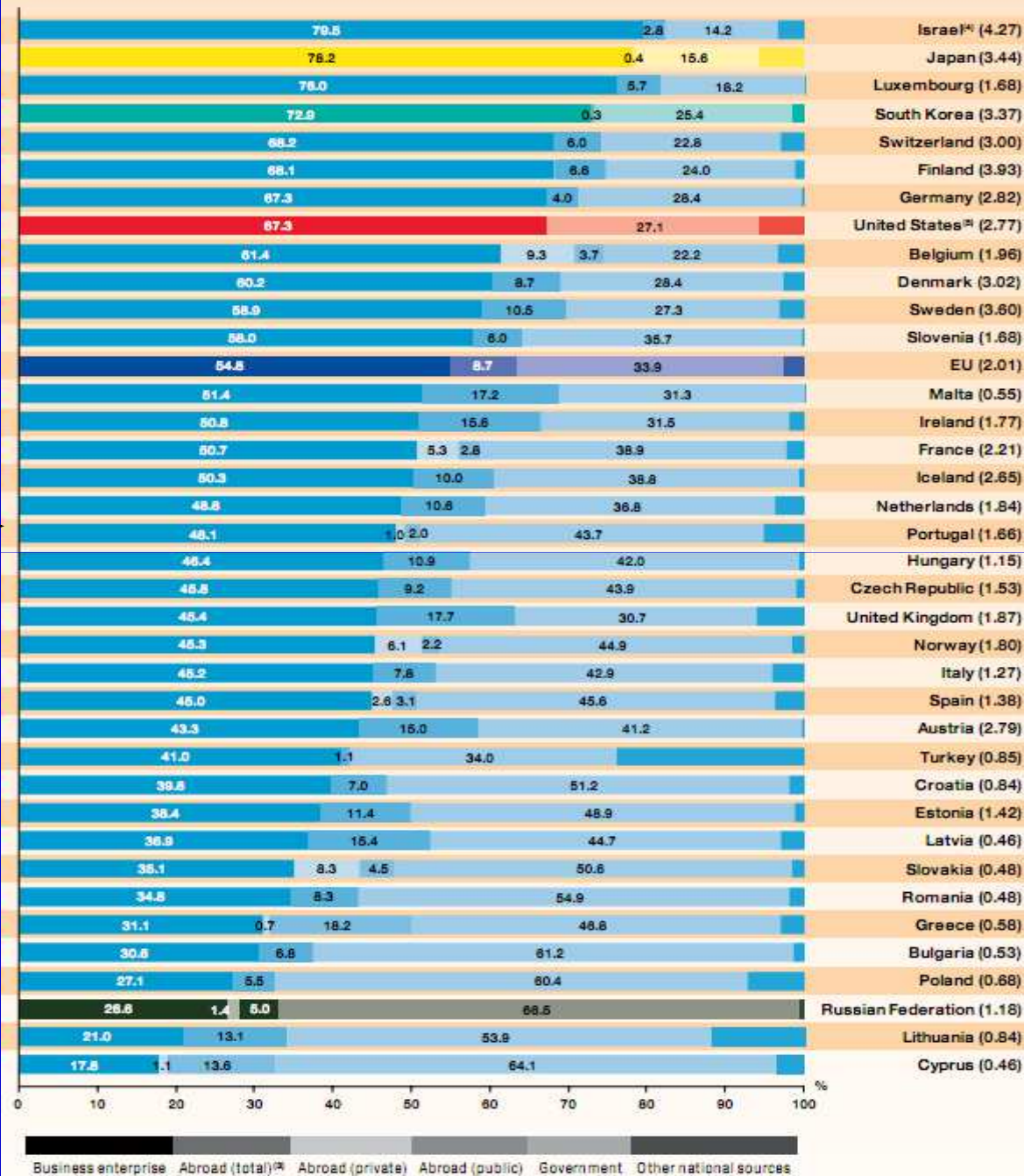
4. Consolidation strategies

- Differentiation
- Quality
- **Public finance**
 - **Fees are among the highest in Europe-**
 - **Social support may be insufficient for equity-**
 - **Loan system exists but with limited impact.**
 - **Can we sustain current level of public finance?**
 - **Reductions will translate in loss of contact time (and quality).**

4. Consolidation strategies

- Differentiation
- Quality
- Public finance
- **Knowledge transfer**
 - **Universities started late.**
 - **Results obtained in the last 8 years are encouraging.**
 - **Global evaluation of the outcomes is missing.**

R&D expenditure by main sources of funds, 2009⁽¹⁾;
in brackets R&D Intensity, 2009⁽²⁾



4. Consolidation strategies

- Differentiation
- Quality
- Public finance
- Knowledge transfer
- Universities started late
- Results obtained in the last 8 years are encouraging
- Global evaluation of the outcomes is missing
- **Joint public/companies papers per million population!**

EU	31.4	PT	4.0
ES	10.6	NL	83.7
FR	27.9	IT	17.2
DE	45.9	IE	14.0
FI	83.1	BE	49.4
AT	58.0	DK	108.7
SE	116.1		

4. Consolidation strategies

- Differentiation
- Quality
- Public finance
- Knowledge transfer

15 Public Universities

15 Public polytechnics & 5 specialized

Many private institutions, large and small

Can we speak of research universities in Portugal?
How to strengthen the culture of the polytechnics?

Teaching & research

Balance the offer of HE (U & P) in regions!

Introduce the assessment of learning outcomes?

Uncommon in Europe!

Should we select the best for teachers training?

Should public funding be programmatic?

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Obrigado!

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