



Lesson 13 bis

### The effect of migration in the sending countries The human capital

Alessandra Venturini The Economics of Migration









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  - Second level
    - Third level
      - Fourth level
        - » Fifth level







- Population is an asset for development
- Always?
- When?
- Relationship between population and resources:
- Capital, land
- GOVERNANCE

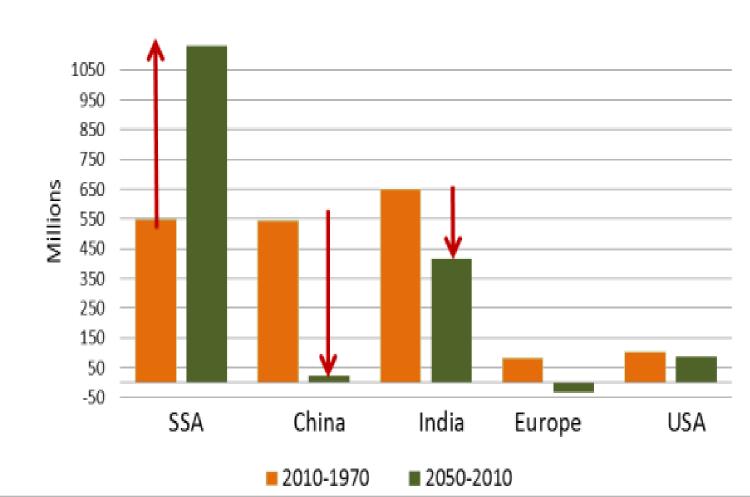




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- The debate on brain drain is complex
- Short run
- Long run









# 1.Stylized facts on Skilled migration

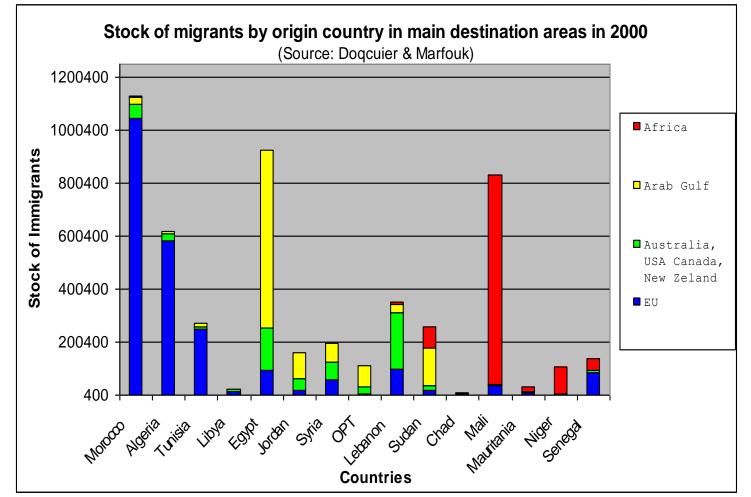
- Few OECD countries gain, most OECD countries lose HS individuals
- Only US,CA an AUS are net gainers Inflows of HS >outflows of HS
- The EU countries loosers (Exceptions BE, LX, SWI, NOR)





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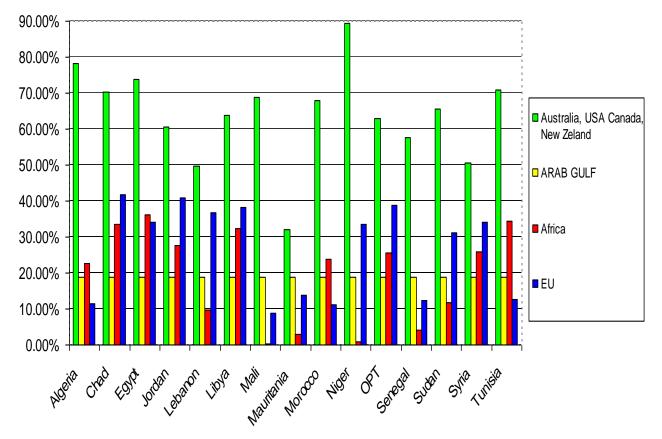


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Share of highly skilled migrants by country of origin to main destination areas in 2000 (Source: Docquier & Marfook)









Immigrants are even more concentrated at the top of skill distribution



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#### Figure 2

Share of Foreign born employment by schooling group, 2000

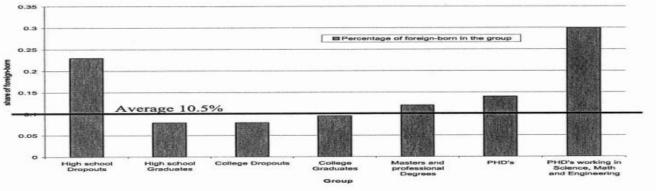


Figure 3

0.35 0.3 0.25 share of total native emplo US-born in the group as share of US-born 0.2 employed 0.15 0.1 0.05 0 PHD's working in Science, Math and High school Dropouts High school College Dropouts College Graduates Masters and PHD's professional Degrees Graduates Engineering Group

Distribution of US-born employed by schooling group, 2000







Why HS Migrants are mainly going to USA, Canada, Australia and New Zealand?

- Legislation Migration policy-point system
- Economic structure of destination countries-HS jobs available
- Wage premium-
- USA High wage 5 times low wage
- France and Netherland 2.9, Demark and Switzerland 2.7
- Belgium and Sweden 2.4
- Education system
- Language

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# Both destination and sending countries are in search of skills for similar reasons







### Brain drain and brain gain

The link between migration and growth in sending countries is however quite complex.

First, if the best will live the country, total human capital will decline (*implying a lower growth path, less foreign direct investment and remittances are not enough to compensate for it*).
Second, migrants may return home after having acquired a set of productive skills with a beneficial impact on the growth prospects of their home country.







Finally, the policy bias in host countries toward skilled flows may not necessarily penalize sending countries. As argued most recently by Stark (1999, 2001), the incentive to acquire skills may be strengthened by the prospect of being able to migrate.

Even in the presence of a brain drain, therefore, the average education level of those left behind in the home country may be higher than otherwise and this will induce a higher growth path and attract foreign investment.





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## In this "revisionist" approach to the analysis of the brain

drain, skilled migration may turn into a "brain gain" even if

no account is taken of the potentially positive effects on the

home country of remittances and return migration







### A case study on High skilled migration From the MENA and SSA and few Eastern Countries

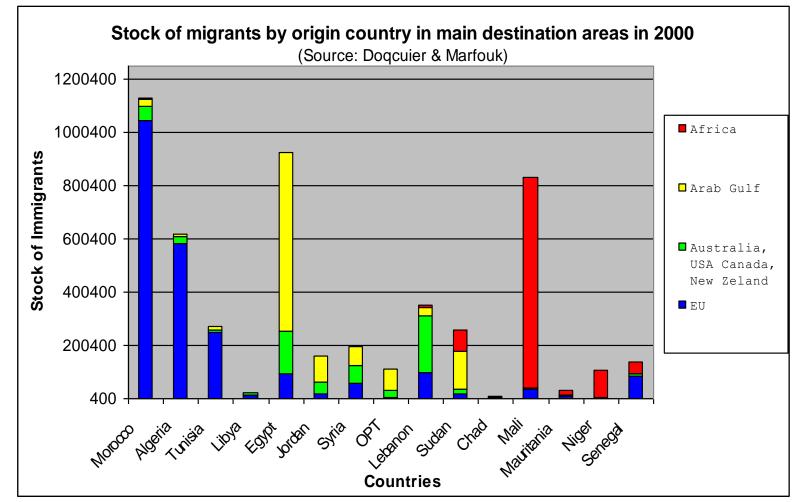
\*Destination





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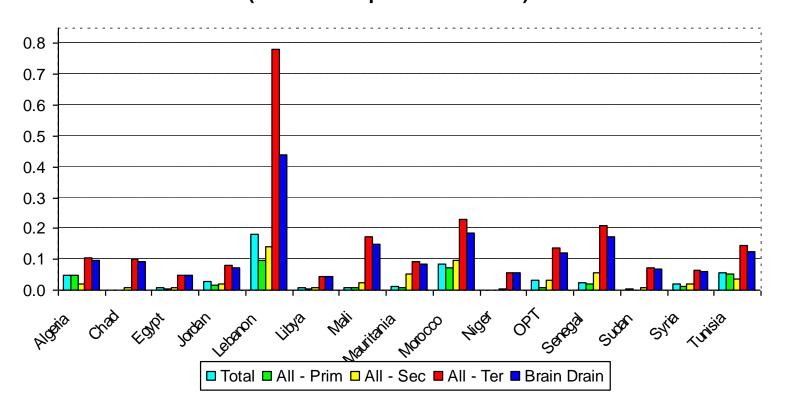
## How many?

- The number
- And the measure of Brain drain
- Share of HSM of total HS (at home and abroad)





#### Fig.4.2 Share of migrants to home labour force by skills around 2000 (Source: Dogcuier & Marfouk)



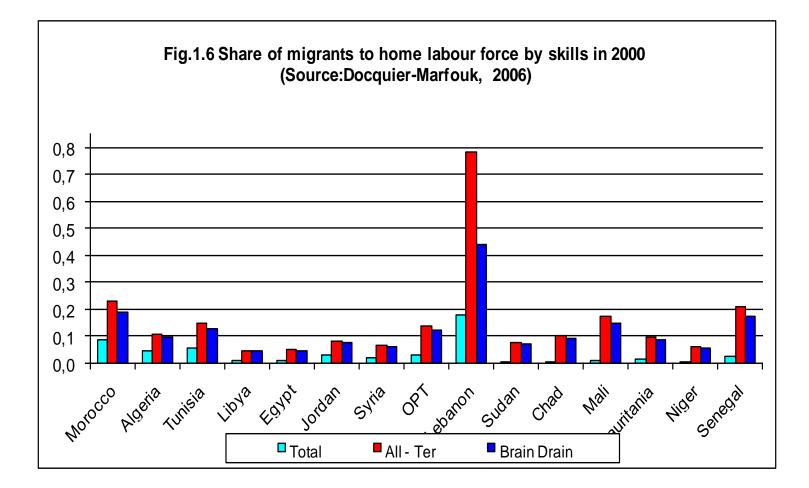


4. Brain drain

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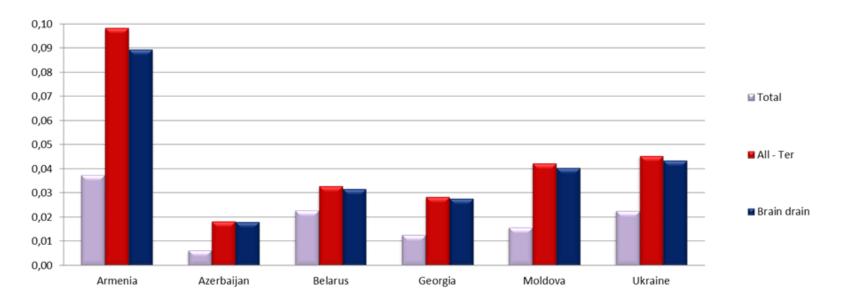


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#### Share of migrants to home labour force by skills around 2000



(Source: Doqcuier & Marfouk)





 Is Brain waste taking place only among third national countries?





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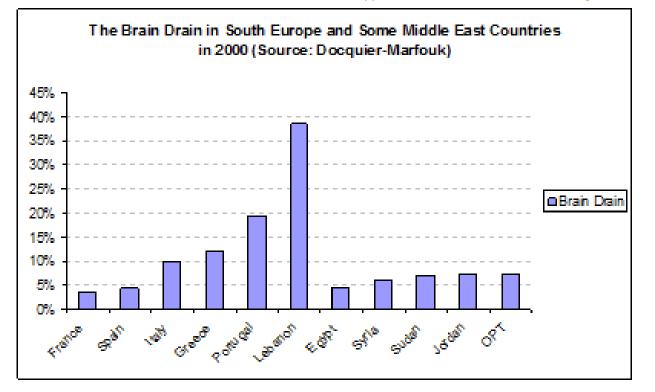
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Consortium for Applied Research on International Migration -CARIM







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### Why HS migration takes place?

- 1. Demand side
- 2. Supply side
- 3. Mismatch between Supply and Demand (HS supply > HS Demand) (quality of education & social versus hard sciences)

#### **On the Supply side: Economic reasons**

- A) Unemployment among HS
- B) Reduction of real income per capita (Moldova)
- C) Large informal sector (60% in Egypt, 77-87% Mauritania)
- D) Decline in the size of public sector (Egypt, Morocco)
- E) Low return on tertiary education (Egypt)

#### On the Supply side: Political reasons

• Political instability in Palestine, Lebanon, Sudan, Jourdan

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MPC





### Questions

• Is the educational policy appropriate?





- Over-education & Over-occupation
- Migrants in

- 3 level of education: low, medium and high
- level of job-skill: low, medium, high



### **Migration in Europe**

MigrEU Jean Monnet Module

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of the European Union Table 6.1Distribution of occupation/education level to EU27								
	occupation level				"c uuouton	education level		
COUNTRIES	Low	Intermediate	High		COUNTRIES	Low	Intermediate	High
ALGERIA	35.46	26.28	38.26		ALGERIA	38.69	36.23	25.09
CHAd	20.28	25.34	54.38		CHAd	16.47	33.8	49.72
EGYPT	31.32	23.97	44.7		EGYPT	23.56	36.69	39.75
JORDAN	16.47	19.57	63.96		JORDAN	13.1	27.82	59.08
LEBANON	22.36	23.95	53.69		LEBANON	23.35	30.48	46.16
LYBIA	27.33	26.43	46.24		LYBIA	40.87	36.61	22.52
MALI	63.14	19.38	17.47		MALI	70.45	16.98	12.56
MAURITANI	64.18	19.35	16.47		MAURITANI	69.37	16.16	14.46
MOROCCO	52.79	22.94	24.27		MOROCCO	58.39	24.17	17.44
NIGER	32.28	18.25	49.47		NIGER	21.61	36.31	42.08
PSE	19.28	19.46	61.26		PSE	17.24	23.13	59.63
SENEGAL	61.89	14.79	23.32		SENEGAL	65.85	18.77	15.38
SUDAN	21.3	23.13	55.58		SUDAN	14.6	27.32	58.09
SYRIA	36.26	20.12	43.62		SYRIA	30.3	30.19	39.51
TUNISIA	48.17	17.07	34.76		TUNISIA	47.87	32.36	19.76
Mean	36.83	21.34	41.83		Mean	36.78	28.47	34.75

Source: Database on Immigrants in OECD countries (DIOC), around year 2000





### **Migration in Europe**

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Table 6.2 Distribution of occupation/education level to US, Australia, NZ and CANADA

	occupation level				_			
COUNTRIES	Low	Interm e diate	High		COUNTRIES	Low	Intermediate	High
ALGERIA	19.97	30.65	49.37		ALGERIA	6.79	28.36	64.85
CHAd	37.29	27.85	34.87		CHAd	4.84	38.5	56.66
EGYPT	15.34	30.84	53.82		EGYPT	6.19	24.61	69.2
JORDAN	21.56	43.53	34.91		JORDAN	12.67	39.23	48.11
LEBANON	25.34	32.01	42.64		LEBA NON	21.2	35.14	43.66
LYBIA	20.92	31.96	47.12		LYBIA	7.01	35.51	57.47
MALI	27.19	41.81	31.01		MALI	22.53	34.22	43.25
MAURITANI	41.51	37.54	20.95		MAURITANI	35.78	27.75	36.47
MOROCCO	18.73	37.8	43.47		MOROCCO	9.59	37.33	53.08
NIGER	26.69	45.43	27.89		NIGER	18.44	37.18	44.38
PSE	20.18	22.39	57.44		PSE	13.94	29.3	56.76
SENEGA L	24.9	42.44	32.67		SENEGAL	17.11	35.98	46.91
SUDAN	36.75	33.81	29.44		SUDAN	12.98	38.2	48.82
SYRIA	25.93	33.93	40.14		SYRIA	19.62	33.65	46.72
TUNISIA	17.33	28.56	54.1		TUNISIA	7.46	27.23	65.32
Mean	25.31	34.70	39.99		Mean	14.41	33.48	52.11
Source: Database on Immigrants in OECD countries (DIOC), around year 2000								





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all

15.936

99.050

30.059

7.492

2.148

1.308

39.599

667

3.257

7.423

13.586

36.888

6.813

387.184

131.704.748

12,22

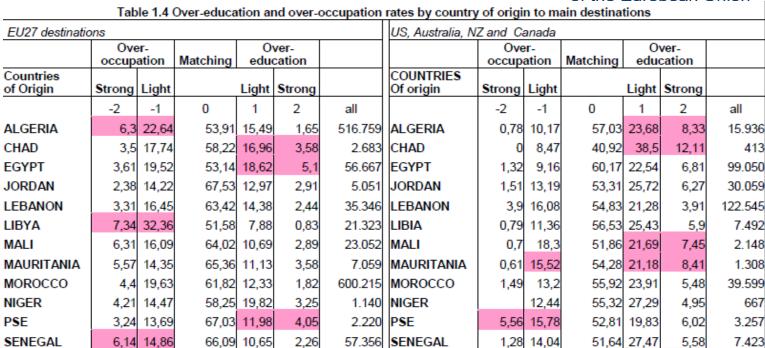
5,2

5.84

6,97

2.87

413



Note: Matching if education holds the same rank as occupation, Overeducation "strong" if education is two ranks above occupation rank, Overeducation "light" if education is one rank above occupation rank, Overoccupation "strong" if occupation is two ranks above education, Overoccupation "light" if occupation is one rank above education.

152.719.891 NATIVES

127.355 TUNISIA

6.031

19.409

1.481.666 Mean

SUDAN

SYRIA

0,73 10,81

2,21 14,11

1,58 12,81

1.41 16.43

1.26

9.53

Source: Database on Immigrants in OECD countries (DIOC), around year 2000

62,91

61,32 17,31

60,57 14,18

51.55 17.17

54 16.73

15,8

5,47

3,86

1.66

3,02

1.48

SUDAN

SYRIA

Mean NATIVES

TUNISIA

2,69 13,13

3,67 13,84

7.2 20.42

4,66 17,56

4.70 25.09

45.2 31.04

57,34 21,14

61.91 21.46

53,94 24,81

53.09 26.21







### Paradox: Paradox

- The American dream seems reversed,
- In Europe uneducated migrants can more easily upgrade





### Migration in Europe

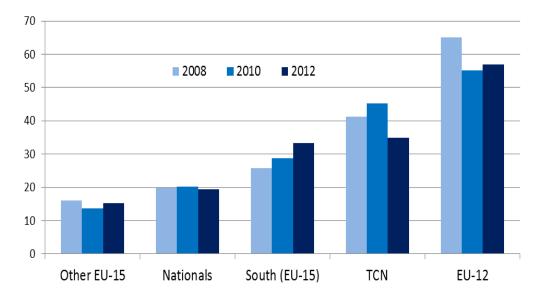
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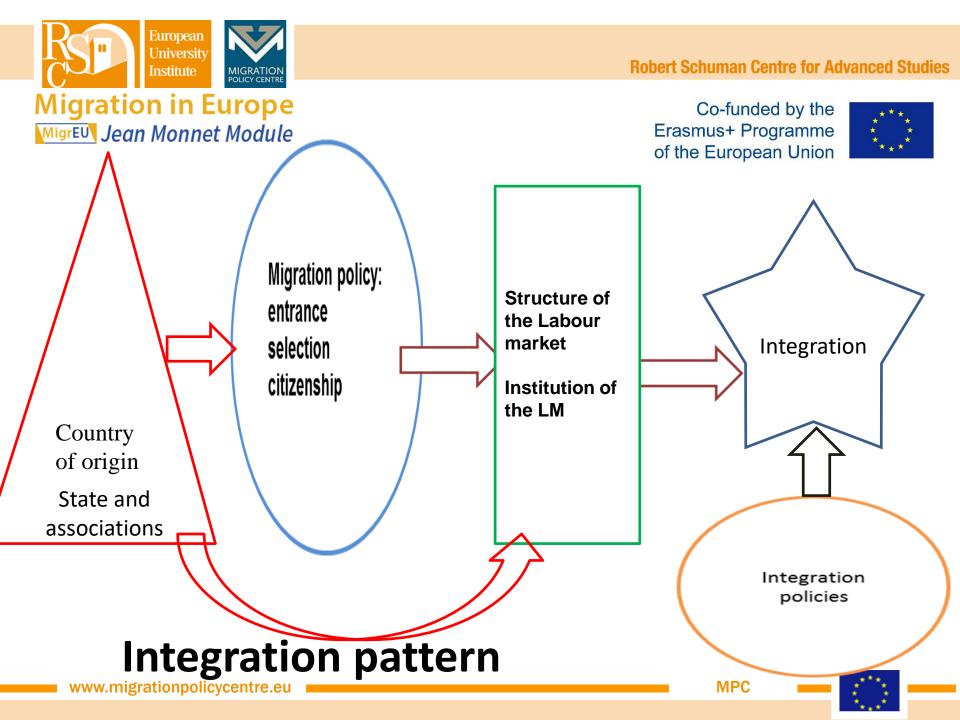
### Recent trends in intra-EU mobility (4)

- 3/5 of Southern movers are highly educated (vs 1/5 among unemployed in South)
- increase in over-qualification
- though highest rate is among EU-12 movers (>T.C.N.) with more than 50%

Over-qualification rate among recently established foreigners by group of nationality (in % of all highly educated in employment)











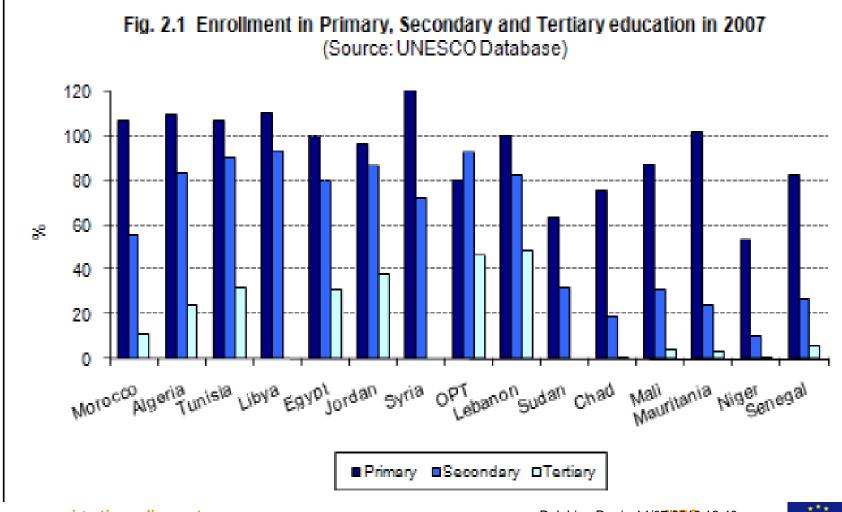
### Course title Differences in EDUCATION among countries in: 1. Tertiary education

- 2. Quality of education
- 3. Investment in public/private education
- 4. Public expenditure



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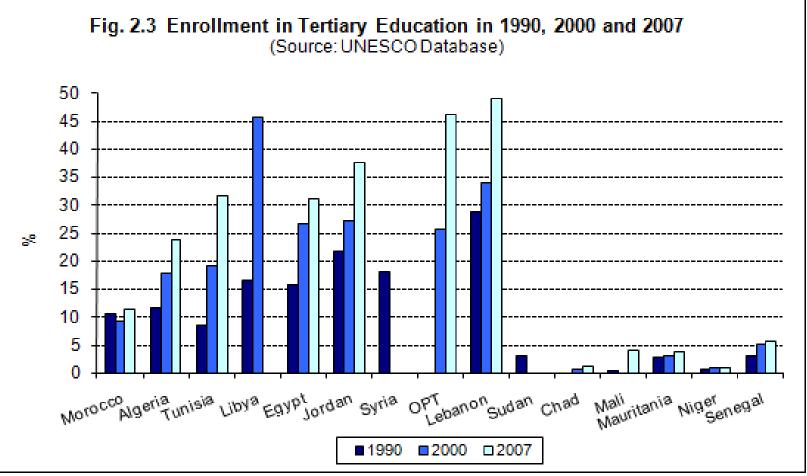




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# Increase in the supply of the highly skilled

- But not in the demand of highly skilled
- Quality of the education
- Field of education Social sciences and Humanities and Education dominate the Hard Science and Engineering (66% in Egypt, 65% in Lebanon, 74% in Palestire, 54% in Jordan)





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Table 6.1: Estimated critical shortages of doctors, nurses and midwives, by region, 2000/01 and 2010/11

WHO region	Total	With critical shortages		Percentage of foreign-born medical professionals in OECD countries in the total estimated critical shortage		
		2000/01	2010/11	2000/01	2010/11	
Africa	46	36	31	7%	13%	
Americas	35	5	5	71%	74%	
South-East Asia	11	6	7	8%	27%	
Eastern Mediterrane an	21	7	6	10%	17%	
Western Pacific	27	3	5	11%	15%	
Total number of countries with critical shortages	140	57	54			

Source: OECD (2015)

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