

Population growth and capital dilution

- The solow model extended to incorporate population growth explains how higher population growth can lower income per capita through the channel of capital dilution
- The solow model can therefore partially account for the negative correlation between income per capita and population growth

Demographic transition: a tale of two traps...

Country report

3/5 pages, cover included, if any
One page devoted to a statistical overview of the socio-economic background

Eligible countries

- Enlargement candidates
- o Enlargement candidates

 » Albania, Bosnia and Herzegovina, the former
 Yugoslav Republic of Macedonia, Iceland,
 Kosovo*,, Montenegro, Serbia, Turkey

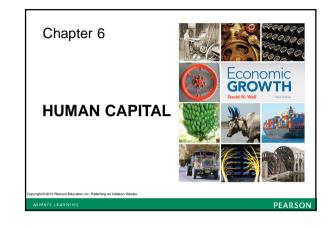
 o European Neighbouring countries

 » Algeria, Armenia, Azerbaijan, Belarus, Egypt,
 Georgia, Israel, Jordan, Lebanon, Libya, Moldov
 a, Morocco, Palestine, Syria, Tunisia, Ukraine

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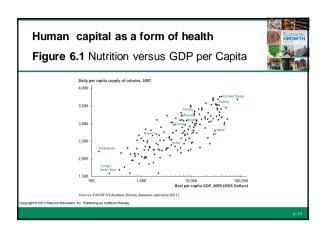
Human capital as an input

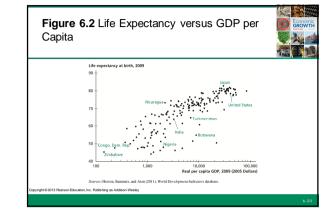
- We focus on qualities of people who are productive
- We concentrate on qualities which are produced, as with phisical capital also human capital is itself produced
- Human capital earns returns (even though workers have to work to get it whilst capital owners acan relax on a beach)
- Human capital depreciates

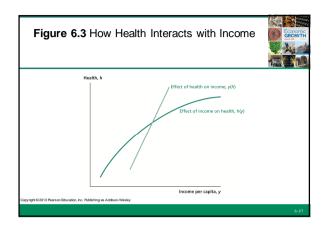
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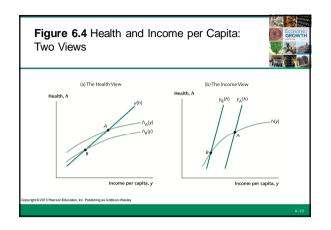
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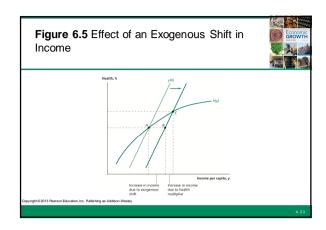
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Human capital in the form of education Table 6.1 Changes in the Level of

Education, 1975-2010

		Average Years of Schooling	No Schooling	Complete Primary Education	Complete Secondary Education	Complete Higher Education
Developing	1975	3.2	47.4	32.9	8.1	1.6
Countries	2010	6.7	20.8	68.8	31.5	5.3
Advanced	1975	8.0	6.2	78.8	34.9	8.0
Countries	2010	11.0	2.5	94.0	63.9	16.6
United States	1975	11.4	1.3	94.1	71.1	16.1
	2010	12.4	0.4	98.8	85.4	20.0

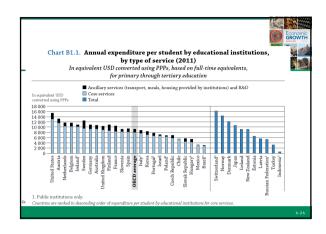
Education as an investment

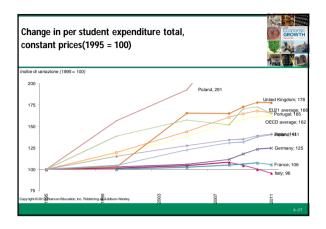


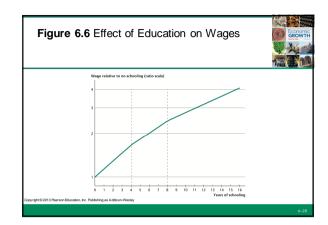
- It is costly (6% of GDP in US, 4.5% in Italy)
- Not only in terms of money but especially in terms of opportunity costs (this is true mostly for developing countries)
- The return to education is wage...a wage premium

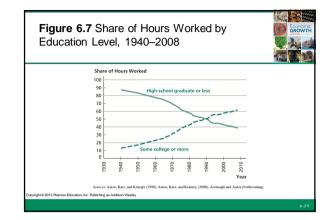
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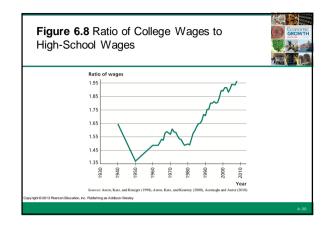
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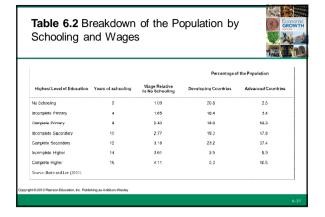


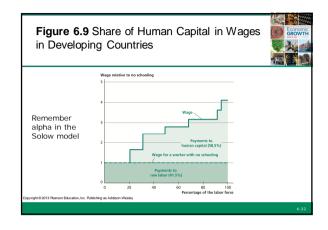


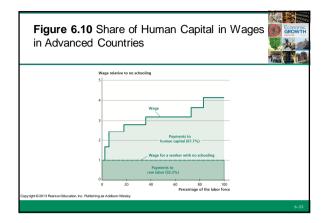












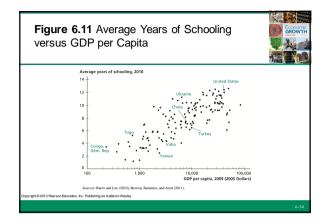


Table A7.3a. Private costs and benefits for a man attaining tertiary education (2010) As compared with a man attaining upper secondary or post-secondary non-tertiary education, in equivalent USD converted using PPFs for GDP													
		Direct costs	Foregone earnings	Total costs	Gross earnings benefits	Income tax effect	Social contribution effect	Transfers effect	Unemployment effect	Grants effect	Total benefits	Net present value	Interna rate of retur
	Year	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Netherlands	2010	- 14 646	- 95 834	- 110 480	442 661	- 197 999	- 26 901	0	10 736	13 770	242 267	131 787	7.29
New Zealand	2010	-9384	- 43 347	- 52 731	193 910	- 62 325	- 3 875	- 86	358	3 039	131 021	78 290	7.39
Norway	2010	-1086	- 47 946	- 49 032	274 357	- 107 528	- 23 197	0	23 000	4 690	171 321	122 289	8.29
Poland	2010	-7343	- 16 928	- 24 270	376 155	-30 873	- 75 986	0	38 492	2 228	310 015	285 745	24.69
Portugal	2010	-4627	- 16 181	- 20 808	324 887	- 89 461	- 36 243	0	17 564	m	216 746	195 937	18.39
Slovak Republic	2010	-6183	- 15 019	- 21 202	290 121	-51866	-40 961	0	38 465	1 226	236 985	215 783	21.49
Slovenia	2010	-3564	- 26 242	- 29 806	447 946	- 110 866	- 96 037	0	19 992	259	261 294	231 488	17.19
Spain	2010	- 8 864	- 28 219	- 37 083	178 900	- 52 903	- 14 033	0	41 874	3 791	157 629	120 546	11.29
Sweden	2010	-3560	- 50 291	- 53 851	209 467	- 84 430	- 9 281	0	8 454	7 735	131 945	78 094	7.49
Switzerland		m	m	m	m	m	m	m	m	m	m	m	n
Turkey	2005	-1061	- 9 402	- 10 463	106 985	- 18 682	- 16 424	0	2 761	m	74 640	64 177	19.39
United Kingdom	2010	- 20 162	- 47 655	- 67 817	413 163	- 89 124	- 49 107	- 4 303	40 284	5 225	316 138	248 322	14.39
United States	2010	- 61 135	- 44 678	- 105 813	628 922	- 210 898	- 55 768	0	100 046	27 162	489 463	383 649	15.49
OECD average		- 10 563	-40 755	- 51 318	347 075	- 105 528	- 38 085	- 777	29 016	6 181	236 602	185 284	13.99
EU21 average		- 6 258	- 41 078	- 47 335	361 801	- 112 936	- 45 075	-1123	31 620	6 135	239 503	192 167	15.19
Italy	2008	-7285	- 50 608	- 57 893	408 011	- 159 562	- 41 835	0	3 295	3 330	213 239	155 346	8.1%
Japan	2007	- 37 215	- 66 750	- 103 965	326 614	- 64 523	- 36 039	0	20 931	m	246 983	143 018	7.4%
Korea	2010	- 19 211	- 34 019	- 53 231	379 884	- 47 160	- 25 602	0	12 407	m	319 528	266 298	12.89

