



Politiques de Croissance



Question

- Comment stimuler la croissance de la productivité dans les pays avancés et dans les pays émergents?

Growth Meets Development (1)

- ▶ Two strategies for technological progress: innovation and imitation
- ▶ If the fraction μ_n of sectors innovates and the fraction μ_m imitates:

$$A_{t+1} - A_t = \mu_n (\gamma - 1) A_t + \mu_m (\bar{A}_t - A_t)$$

- ▶ Thus engine of growth depends on “proximity”
 $a_t = A_t / \bar{A}_t$:

$$g_t = \frac{A_{t+1} - A_t}{A_t} = \mu_n (\gamma - 1) + \mu_m (a_t^{-1} - 1)$$



Enhancing productivity growth in advanced countries

- Investment in higher education
- Liberalization of product market
- Liberalization of labor market
- Equity financing

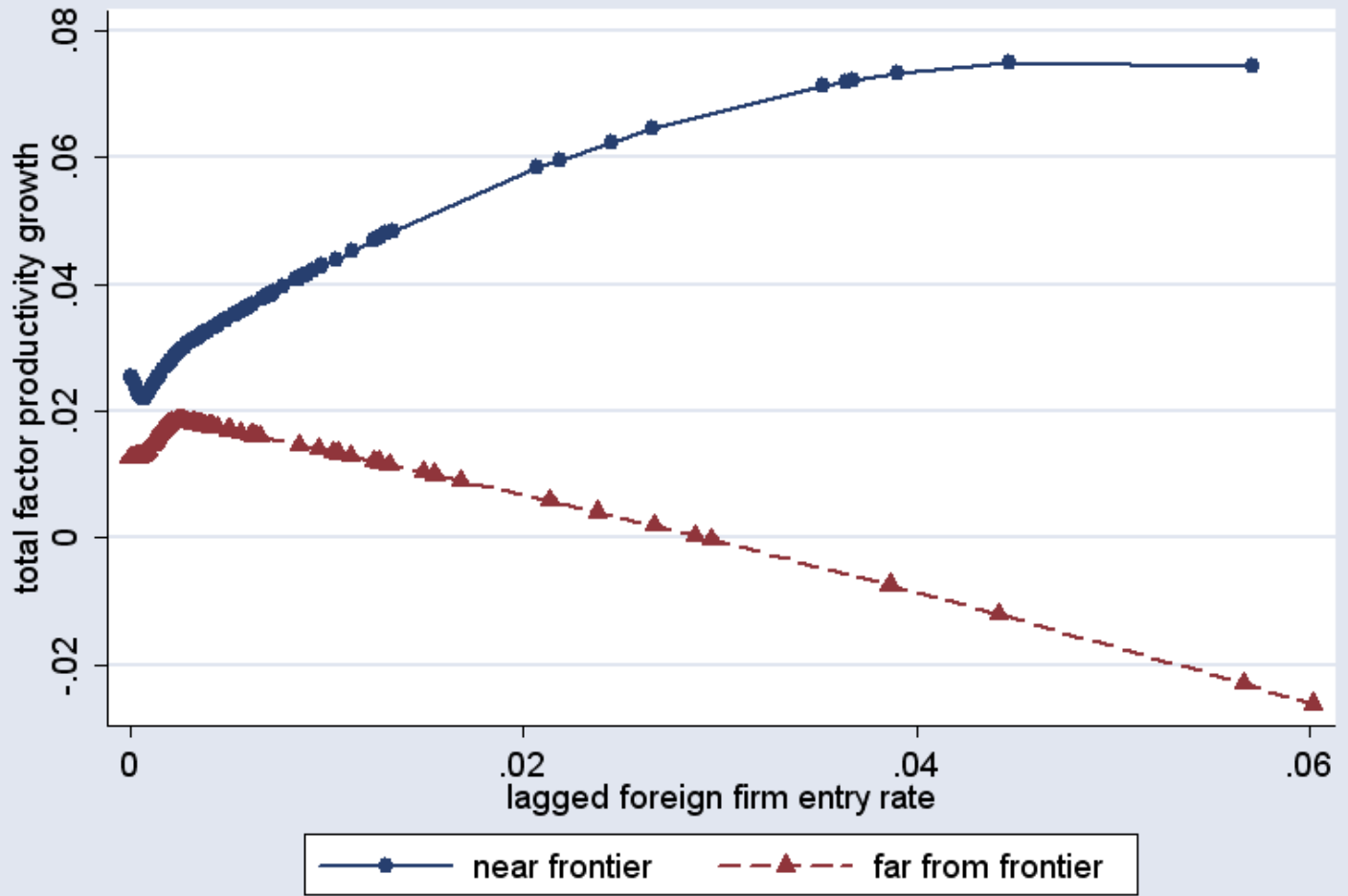
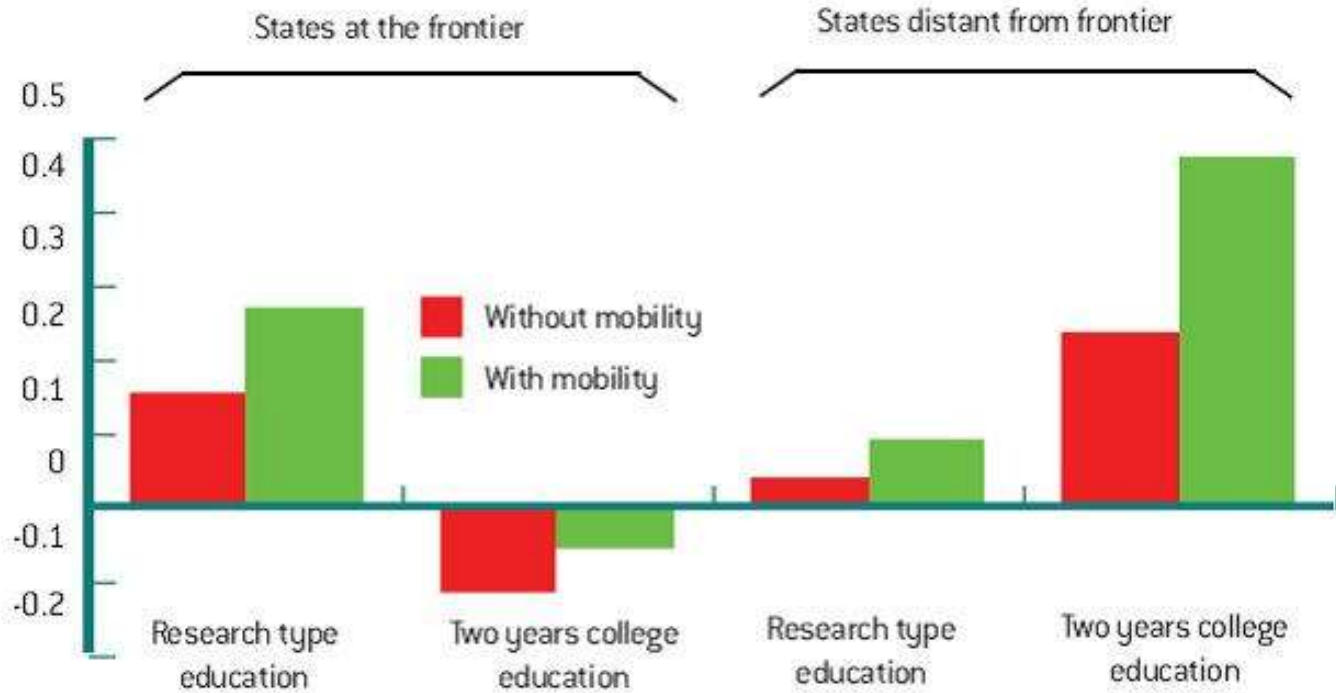


Fig. 3
Long-term growth effects of \$1000 per person spending on education, US States



Source: Aghion, Boustan, Hoxby and Vandebussche (2005)



EPL

Variable	eq1	eq2	eq3	eq4	eq5
Leader MFP growth	0.02949	0.02996	0.02830	0.02813	
Gap to Leader	-0.00858***	-0.00836***			
EPL	-0.00000				
EPL, for highest tercile		0.00002	-0.00009**	-0.00011**	-0.00015***
EPL, for middle tercile		0.00004*	0.00002	0.00001	0.00001
EPL, for lowest tercile		0.00004	-0.00005	0.00002	0.00003
MFP Gap, for highest tercile			-0.01261***	-0.00816	-0.00547
Gap, for middle tercile			-0.00276	-0.00174	-0.00210
Gap, for lowest tercile			-0.00901***	-0.01095***	-0.01173***
EPL*Gap, for highest tercile				-0.00017	-0.00029*
EPL*Gap, for middle tercile				-0.00004	-0.00003
EPL*Gap, for lowest tercile				0.00012*	0.00014**
Leader growth, for highest tercile					0.13600***
Leader growth, for middle tercile					0.00817
Leader growth, for lowest tercile					-0.02597

legend: * p<.1; ** p<.05; *** p<.01

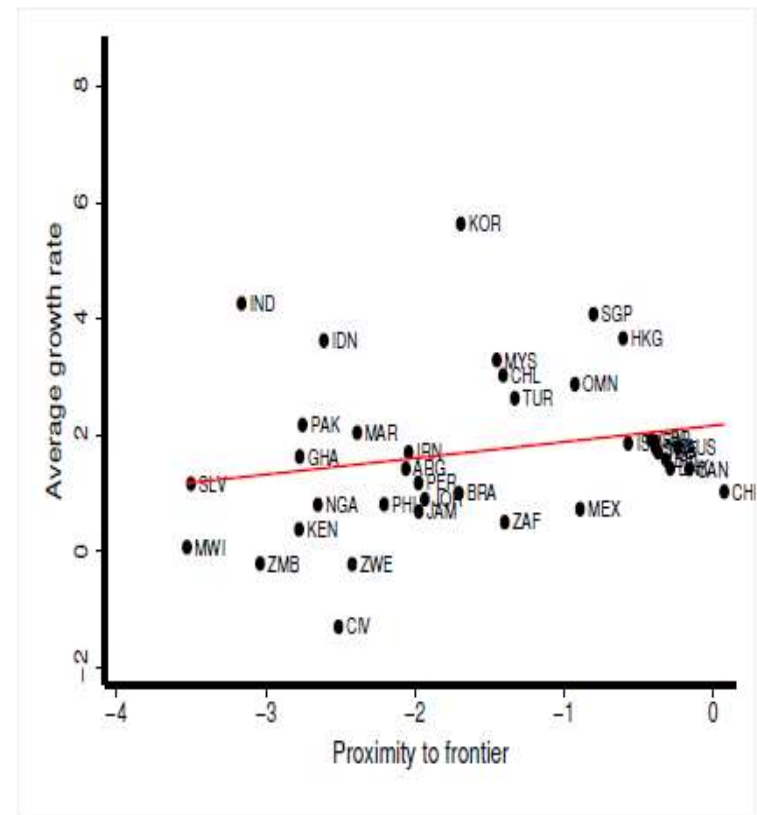
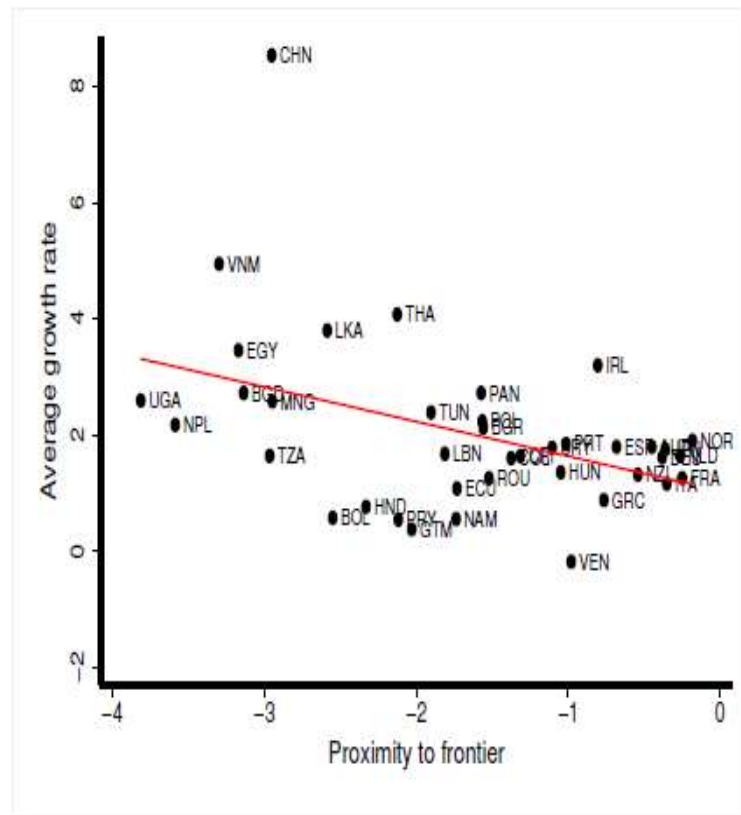


Figure 1: Average growth rate and Proximity to the frontier for the Bank-Based (left) and Market-Based (right) countries (per capita GDP growth rate)

Panel : Australia, Austria, Belgium, Canada, Denmark, Finland, France, Germany, Greece, Ireland, Iceland, Italy, Japan, Korea, the Netherlands, Norway, Portugal, Spain, Sweden, the United Kingdom and the United States.

Times period : 1995-2007

Dependant variable : Hourly labour productivity growth (instrumental variables method)

	(1)	(2)	(3)	(4)	(5)
Changes in capacity utilization rate	0.00200*** (0.000622)	0.00190*** (0.000499)	0.00161*** (0.000475)	0.000908 (0.000648)	0.000634 (0.000702)
Growth in working time	-0.583*** (0.170)	-0.787*** (0.138)	-0.797*** (0.138)	-0.784*** (0.157)	-0.698*** (0.172)
Changes in the employment rate	-0.529*** (0.177)	-0.641*** (0.165)	-0.653*** (0.160)	-0.878*** (0.203)	-0.809*** (0.217)
Share of ICT production in total VA	0.930*** (0.261)	0.344* (0.195)	0.372** (0.179)	0.0614 (0.164)	0.170 (0.178)
Share of pop. (>15) w/ some higher educ.		0.0808** (0.0348)			
EPL			-0.00726** (0.00307)		
PMR(t-2)				-0.0103** (0.00486)	
EMPL* PMR(t-2)					-0.00368*** (0.00130)
Constant	-0.0376** (0.0160)	-0.0199 (0.0153)	0.0107 (0.0118)	0.0296** (0.0137)	0.0197* (0.0113)
Observations	163	149	142	95	95
P-value of the Durbin-Wu-Hausman endogeneity test	0.00066	0.02912	0.03388	0.02966	0.01112
P-value of Basmann test of overidentifying restrictions	0.6354	0.2581	0.4140	0.2075	0.7716

Standard errors in parentheses
 *** p<0.01, ** p<0.05, * p<0.1



Enhancing productivity growth in
emerging market economies



Enhancing productivity growth in emerging market economies

- Foster technology transfers
- Improve management practices
- Reallocate factors

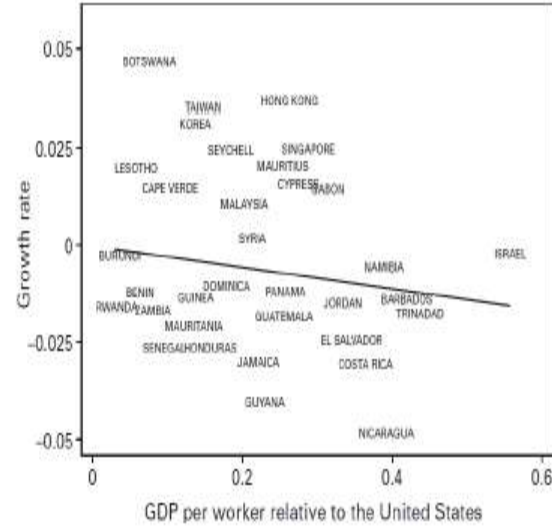
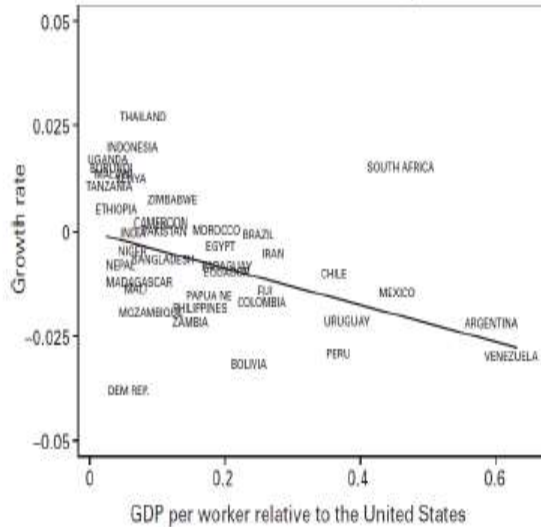


Foster technology transfers

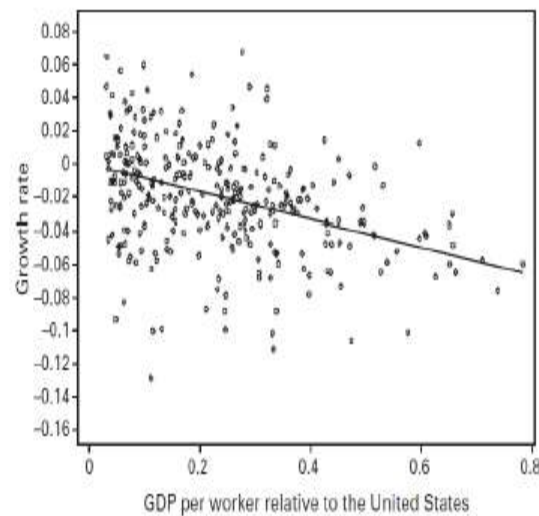
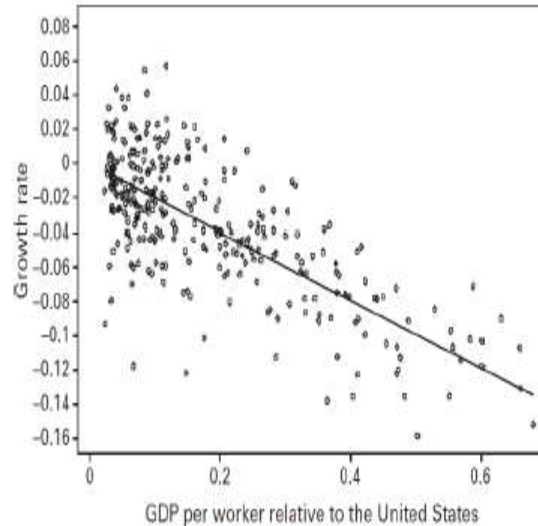
- Education
- Openness
- FDI

GROWTH, OPENNESS AND DISTANCE TO FRONTIER

LESS OPEN COUNTRIES (CR-SEC) MORE OPEN COUNTRIES (CR-SEC)



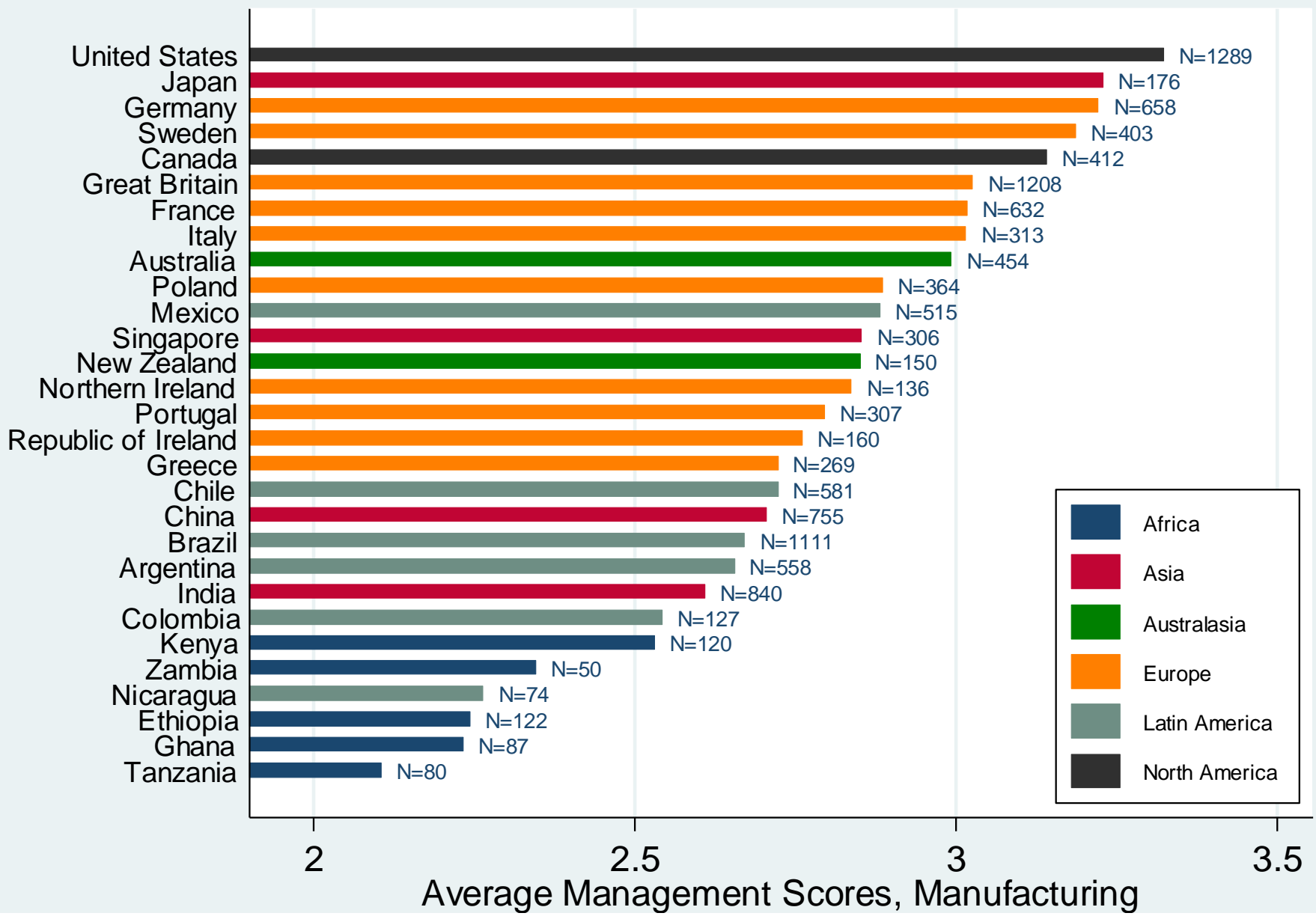
LESS OPEN COUNTRIES (PANEL) MORE OPEN COUNTRIES (PANEL)



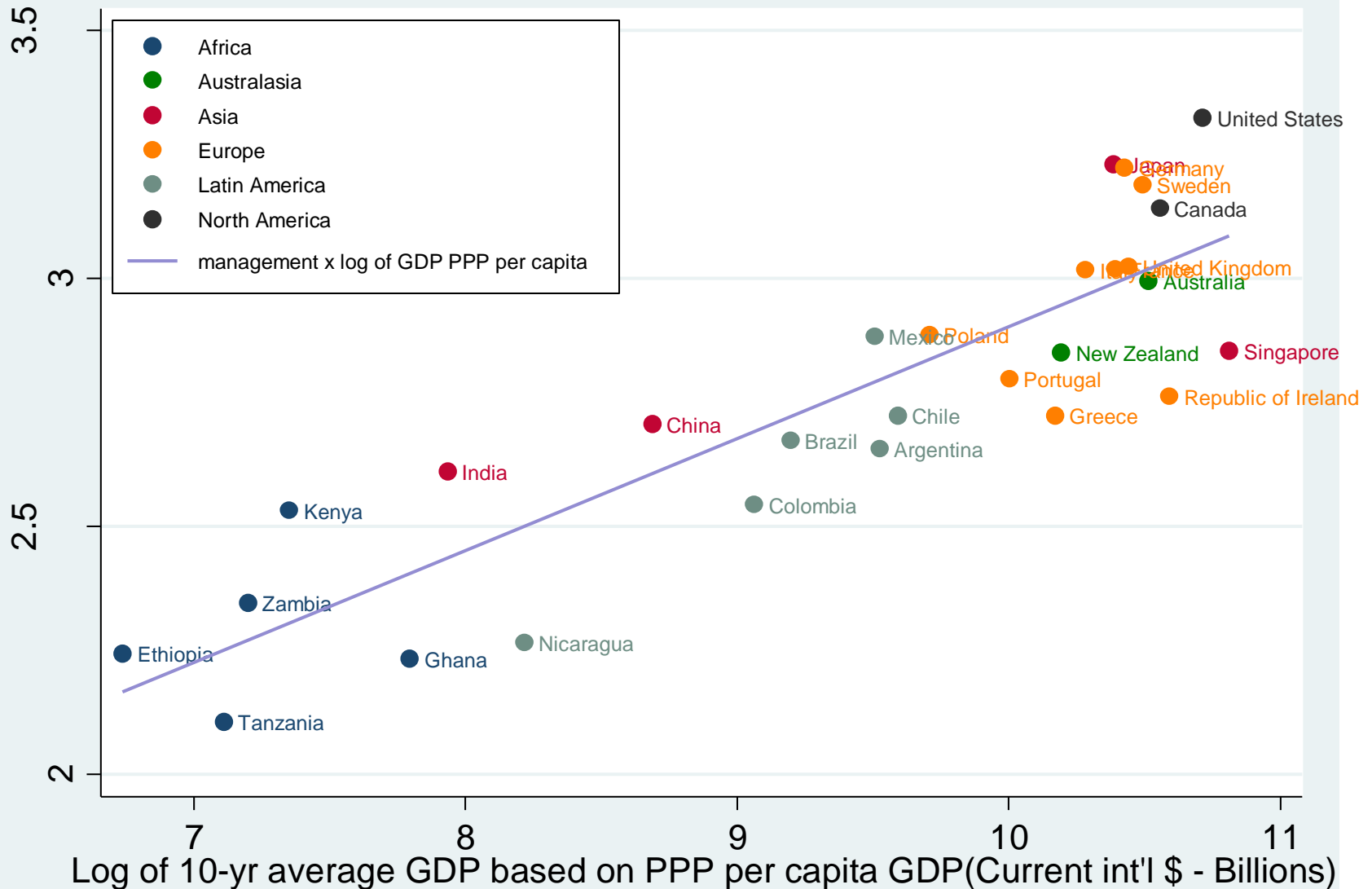


Management practices

Wide variation in management: US and Japan leading, developing nations trailing (includes 2013 wave)



Average management scores across countries are strongly correlated with GDP per capita



Data includes 2013 survey wave as of 9/20/2013. Africa data not yet included in the paper



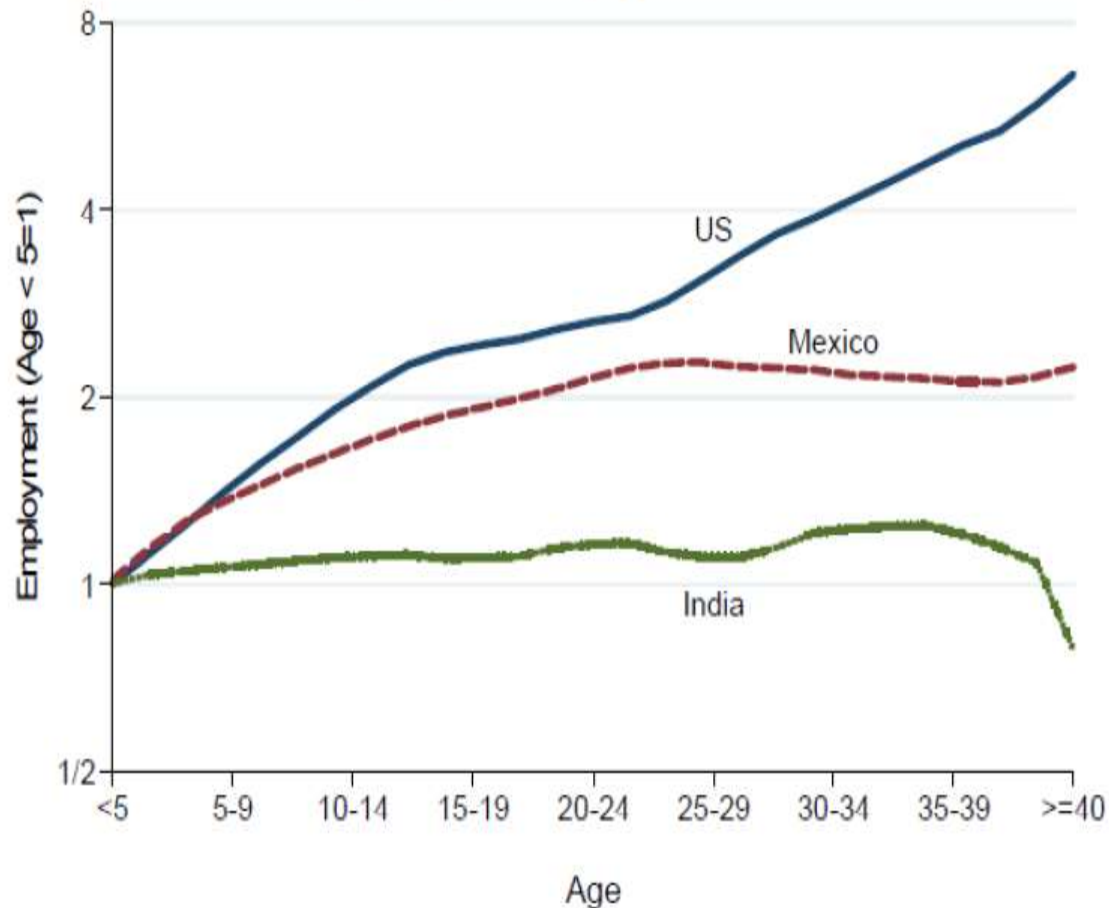
Reallocation

- Education,
- Credit
- Labor market flexibility

Growth Meets Development (7)

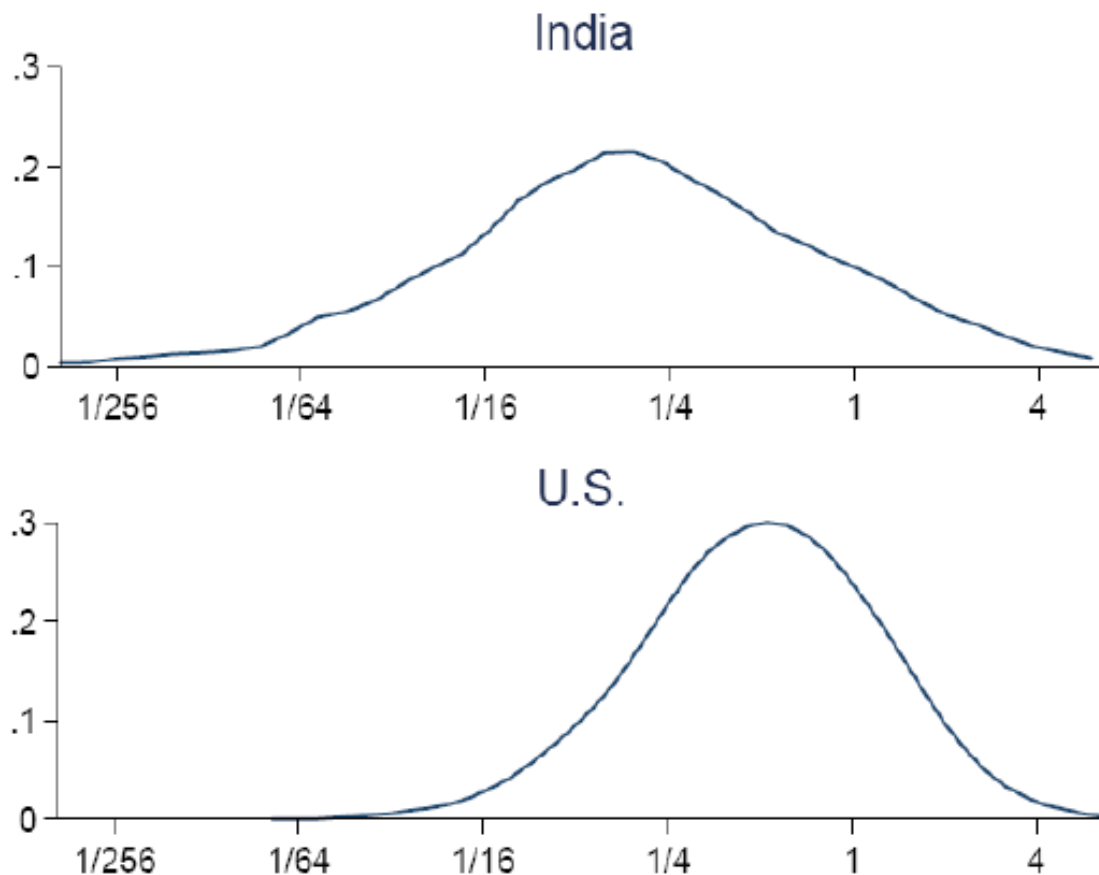
- ▶ In a recent work, Hsieh and Klenow document that life-cycle of firms show big differences across countries:

Figure 1: Plant Employment by Age in the Cross-Section



DISTRIBUTION OF PLANT TFP DIFFERENCES IN US VS. INDIA

HIGHER US TFP DUE TO REALLOCATION - THINNER "TAIL" OF LESS PRODUCTIVE PLANTS



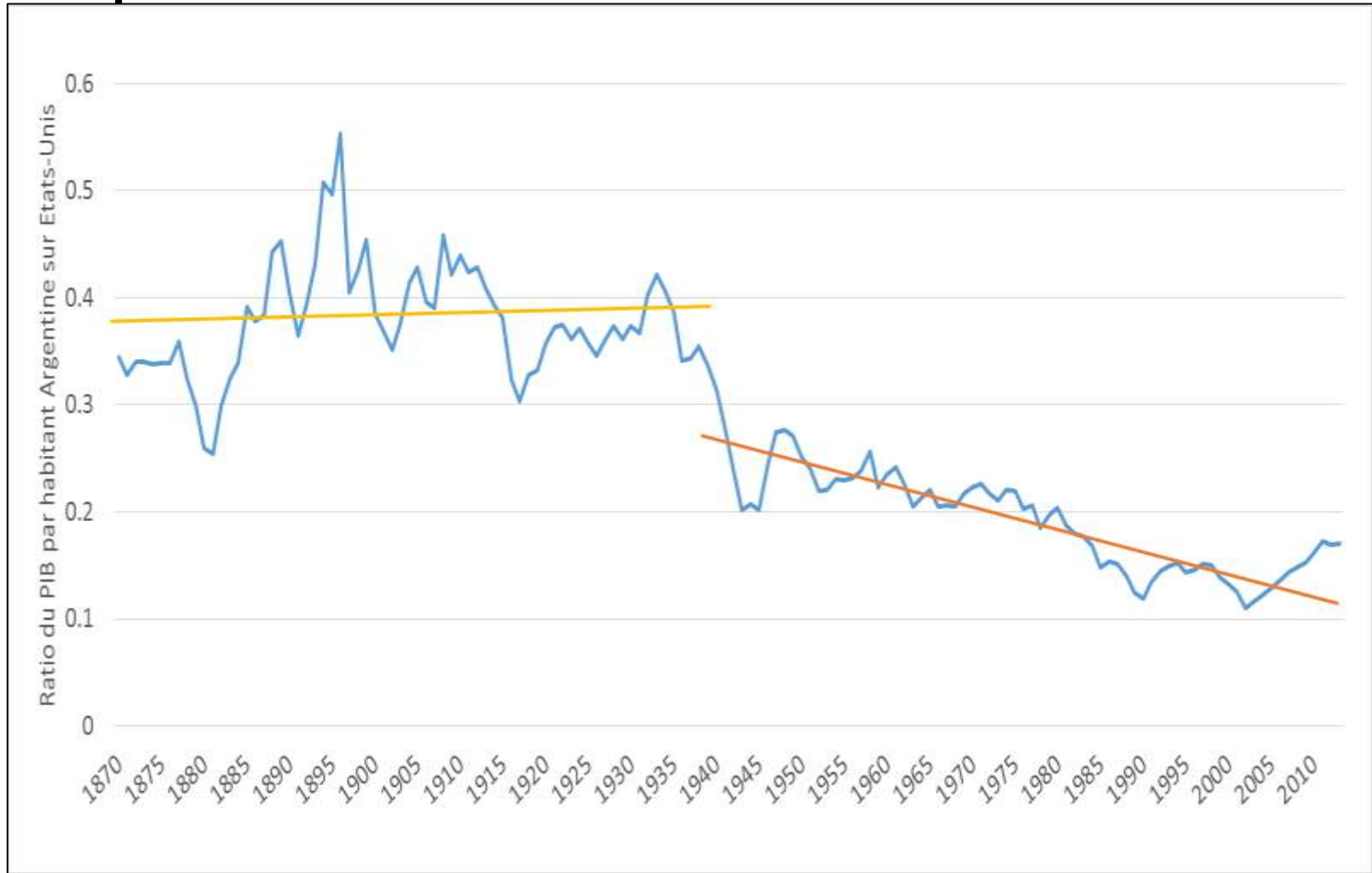
Source: Hsieh and Klenow (2009); US mean=1



Conclusion

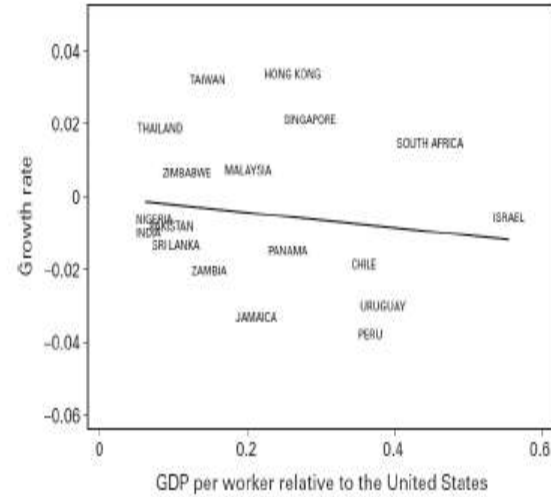
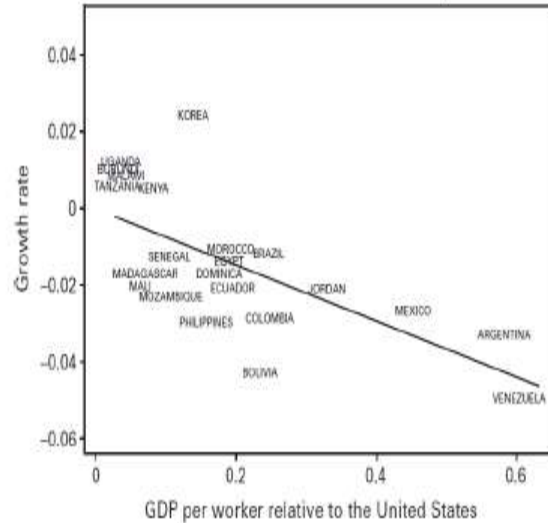
- Politiques de croissance appropriées
- Dangers d'une middle income trap
- Rôle de la concurrence entre pays?

Ratio du PIB par habitant de l'Argentine sur le PIB par habitant des Etats-Unis et tendance entre 1870 et 2013

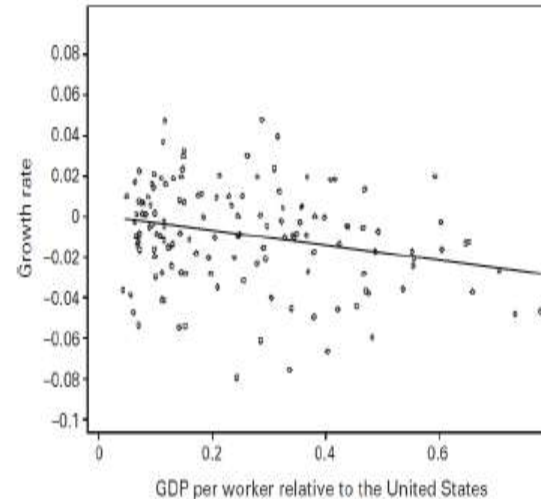
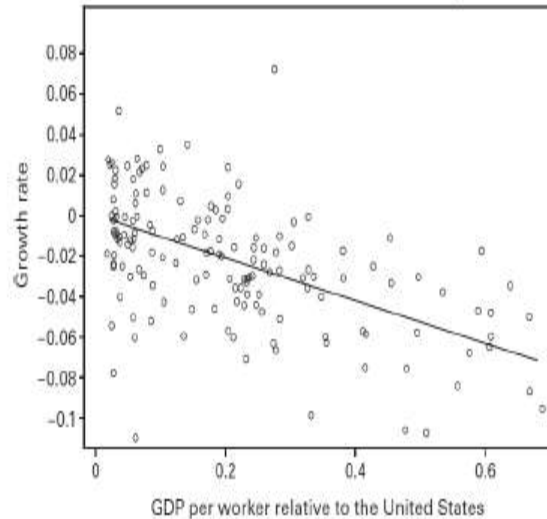


GROWTH, ENTRY AND DISTANCE TO FRONTIER

HIGH BARRIER COUNTRIES (CR-SEC) LOW BARRIER COUNTRIES (CR-SEC)



HIGH BARRIER COUNTRIES (PANEL) LOW BARRIER COUNTRIES (PANEL)



GROWTH, DEMOCRACY AND DISTANCE TO FRONTIER

