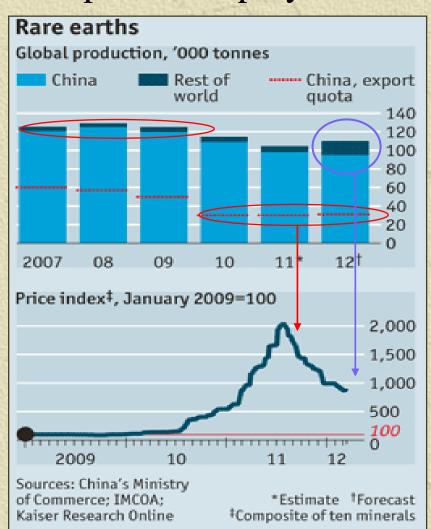


9. Imperfectly Competitive Markets

- 9.1 Imperfectly competitive markets
- Use and abuse of market power
- ***** Market situations
 - Large country cases, e.g., endowment over strategic factor
 - Policy/regulations provides domestic market power
 - Economies of scale (EOS) increases firm size
- Monopoly theory, revisited

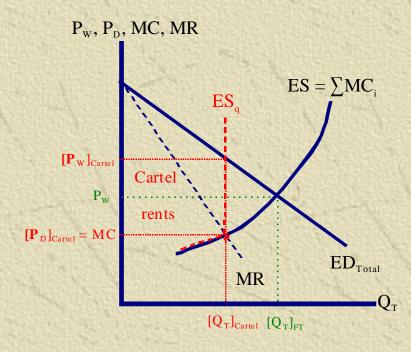


- 9.2 Monopoly: trade implications
- * Domestic monopoly: import or export monopoly
- * Int'al monopoly
 - Large country case
 - China's rare earths exports
 - Quasi-monopoly rents
 - Export quota rents from ΔTOT





- Oligopoly
 - Cartel behavior (OPEC)
 - Modeled as multi-plant monopoly: $\pi = P(q_1+q_2)\cdot Q \sum TC_i(q_i)$
 - Can a cartel stabilize int'al market? $\partial \pi / \partial q_1 = P + Q \cdot \partial P / \partial q_1 MC_1 = 0$

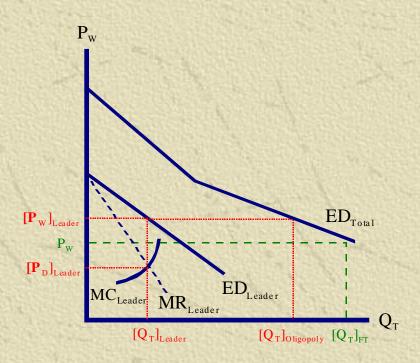


Note:

In reality OPEC applies production quota not exports.



- Oligopolistic leader (Stackleberg leader-follower model)
 - 1 firm leads, others follow
 - Leader sets price from its share of world market, others follow
 - Model cannot explain why leader leads, followers follow





- 9.3 Imperfect competition from economies of scale (EOS)
- ***** Implications for H-O-S trade model
 - EOS: definition and types
 - Mkt structure, product differentiation, intra-industry trade

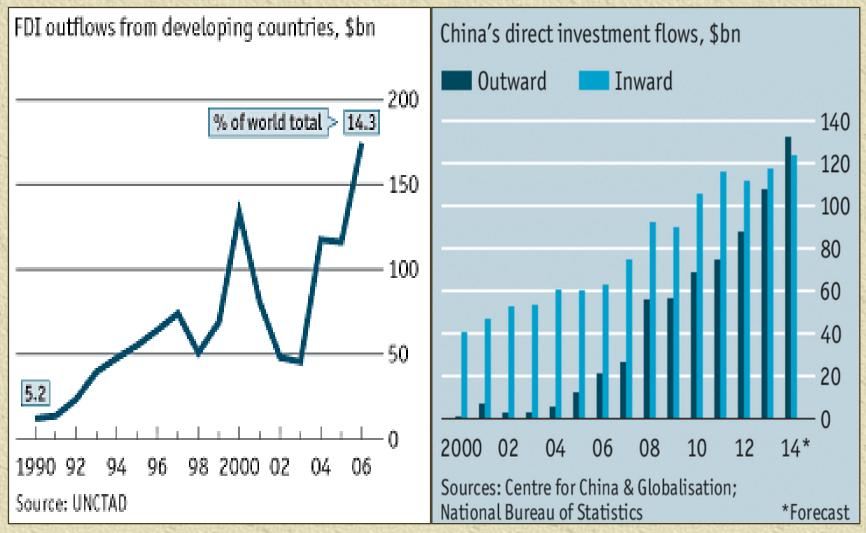
EOS: Imp	OS: Implications for the H-O-S trade model						
1. Type of	2. Goods	3. Input	4. Prodn	5. Prodn	6. Trade	7. SW	
industry	markets	markets	functions	possibilities		and Y	

curve



- 10.1 Theoretical issues
- * Relevant H-O-S theorems without int'al L,K mobility
 - Factor proportions
 - Factor-P equalization
 - Stolper-Samuelson
 - Rybczynski
- * Expectations when/if L,K is internationally mobile
 - Case for / against trade or factor mobility
 - Relation of L, K flow and trade
 - Direction of L,K flow: expectation vs reality [Lucas paradox]

• Evidence of Lucas paradox: South-South K-flow and to North



Economist, "Investment flows: going out", 8 Nov 2014, p. 54

• Developing country multinational corporations

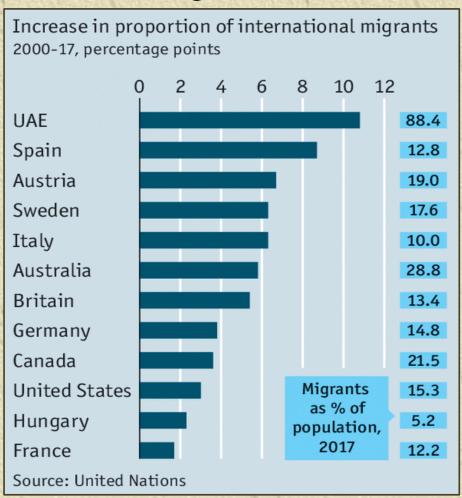


Counter to theoretical expectations, there have been periods when K-outflowed from emerging mkts.

K-flows do not always move from "North" to "South" and there is no correlation between fast-growing emerging mkt and K-inflows.

10.2 L mkts, int'al mobilization and mkt liberalization

* Trends in migration vs int'al L

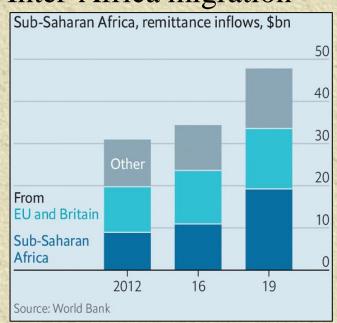


Economist, "Immigration: Crossing continents", 25 Aug 2018, p. 14-6.

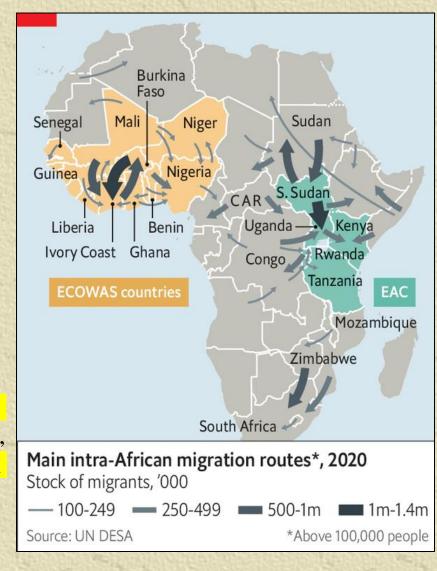
- Migration is related to work
 90% is worker and family
- Most migrants are within a country not across
 - 232 mln int'al migrants
 - 740 mln internal migrants
- Largest corridor of int'al migrants has been US-Mexico
- Globalization, demographic shifts, conflicts, income inequalities, climate change → ↑ L migrants.

Int'al Labour Org., "Labour migration: Fact sheet", 26 Mar 2014

Inter-Africa migration



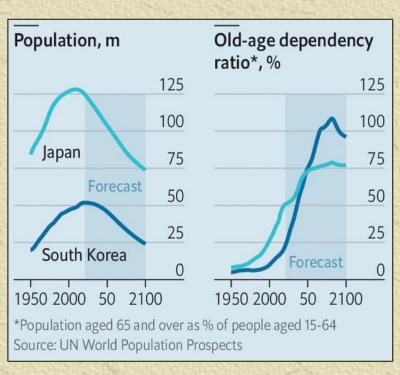
The African Union, to promote more integration, proposed a protocol to allow free movement. Barriers to movement are high. Border guards hassle migrants, delay them and demand pay-offs. Qualifications from one country are not recognized in another. In 1979 ECOWAS and EAC blocs agreed to visa-free movement and the right to work or start business in any member state.



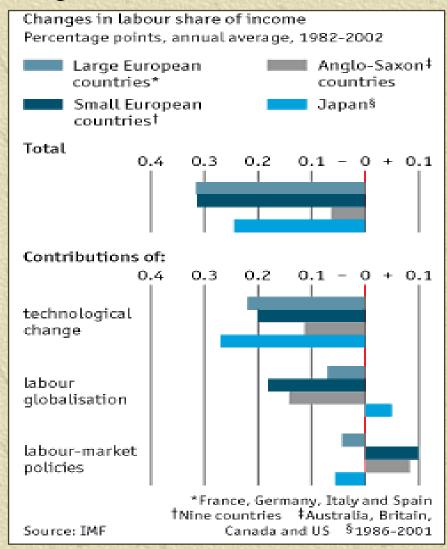
Economist, "African odyssey", Briefing on Migration within Africa", 30 Oct 2021, p. 25-7.

- * Int'al L and concerns with mkt liberalization
 - Concerns: jobs, wages, net social cost or benefit
 - Pull-push factors and other issues
 - War, conflict, and political instability
 - Climate change and resource scarcity
 - Legal vs illegal migrants
 - Temporary (seasonal) vs permanent
 - Remittances, aid vs brain drain
 - Demographics

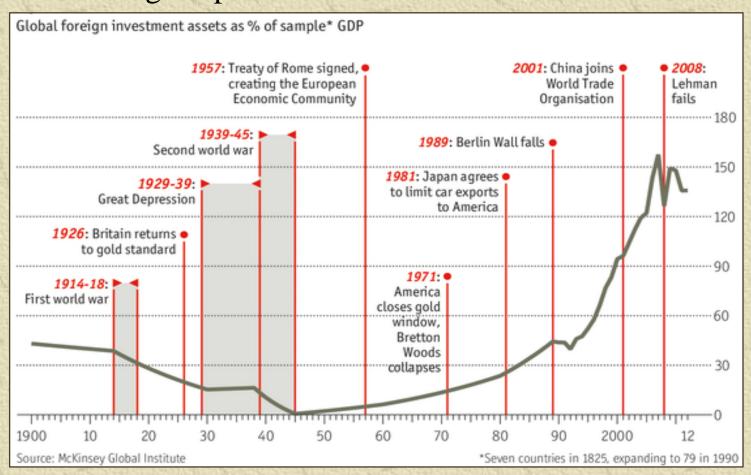
Japan and S. Korea (and China) face a long-term demographic problem. Will they try harder to attract labor migrants? There is a need for more foreigners to till fields, assemble widgets and care for the old. Both need more taxpayers too. Japan's population is expected to decline from 125m now to 104m by 2050. S. Korea's from 52m to 46m, and to 36m by 2070.



- Lump sum of L fallacy: effect of tech, globalization and mkt reform
- ↑ foreign L that competes with domestic labor → ↓ L share of GDP
- Hard to separate out effects:
 - Tech Δ , L migration, or offshoring had neg effect on domestic L share
 - L policies that \uparrow L benefits r. t. wages $\rightarrow \downarrow$ L share of GDP
 - regs that $\downarrow L \cos t \rightarrow \uparrow L$ share
- Shifts in jobs from unskilled to skilled L has → ↑ L share of GDP for skilled L.
- Perception: globalization hurts L; but L gets smaller slice of bigger pie



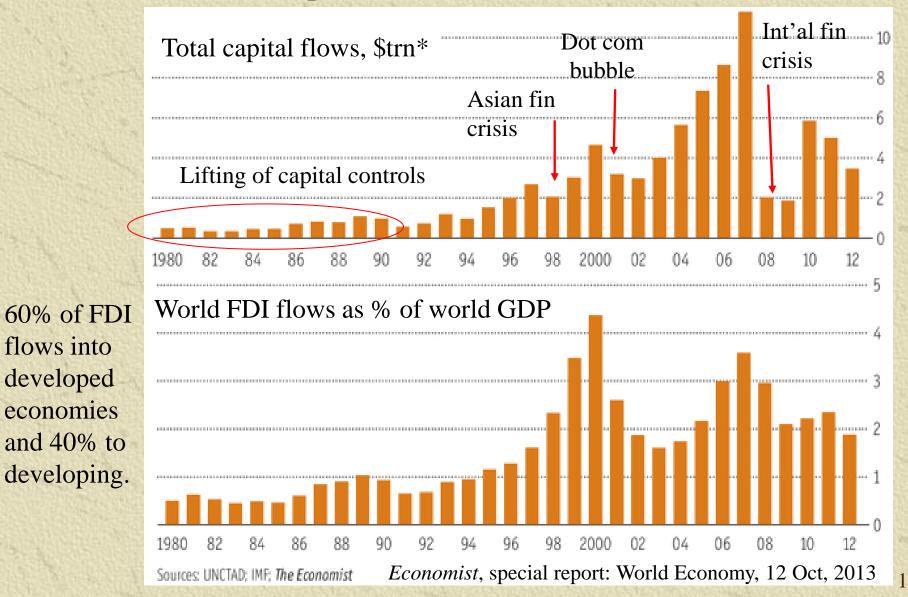
- 10.3 K mkts, international mobility and mkt liberalization
- * Trends in international capital
 - Stock of foreign capital



Cross-border capital flows

flows into

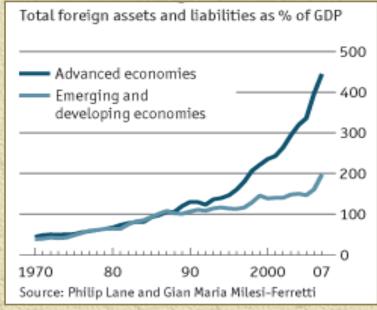
developed

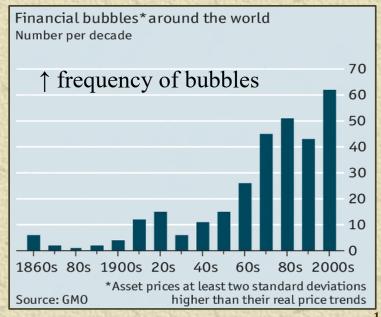




- ***** Concerns with K flows
 - Outflows
 - Inflows (micro/macro)
 - Deregulation of K mkts
 - 1980s: \$190bn daily trades
 - 1995: \$1.2trn daily, 2,5 times world GDP
 - 2007: \$5trn daily, 11 times
 - 2013: \$5trn daily, compared with \$50bn in g+s trade

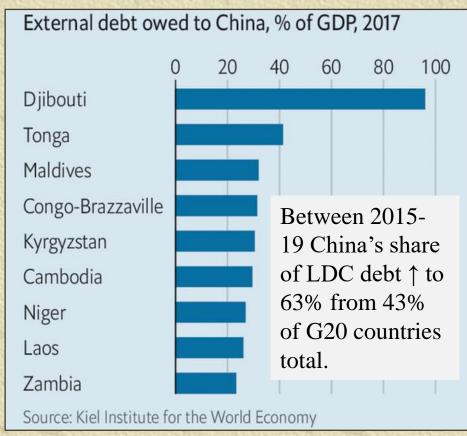
Economist, "Taming the beast", Special report on the world economy, 9 Oct 2008, p. 3-7.





Investment by China and debt owned to China





In Nov 2019, the US, Japan and Australia announced an alternative to BRI called "Blue Dot Network" to fund infrastructure projects in the developing world. As with World Bank funds, the financial muscle behind this is tiny in comparison. BRI holds the most promise of meeting gaps in global infrastructure investment despite the debt issues it raises.

Economist, "The Belt and Road Initiative: Break Time", 6 Jun 2020, p. 43-4; Fin Times, "African debt to China drains poor nations", 27 Oct 2020, p. 4.

- Other issues
 - FDI and multinational corporations



In the 1990s, MNCs were global firms run by global managers and owned by global shareholders, selling global products to global customers. They obsessed with internationalising their customers, production, capital and management. Firms went global "vertically" – relocating production and the sourcing of raw mats, and "horizontally" – selling into new mkts. They bought out rivals, courted customers and opened factories wherever an opportunity arose. 85% of global stock of MNC investment was created after 1990.

investment was created after 1990. Various stages of manufacture were separable across borders and more of the process handled by MNCs each with a link in the global supply chain.

17

Economist, "Retreat of the global company", Briefing on Multinationals, 28 Jan 2017, p. 14-17; and "The world as a single machine", Survey of manufacturing, 20 Jun 1998, p. 3-5.

FDI and MNCs' returns



From 2014-17, half of all big MNCs saw return on equity fall, many below 10% even in the 3 countries which host the biggest MNCs (US, UK, NL). Only tech giants saw profits increase. Overall, MNCs were no longer achieving superior performance.

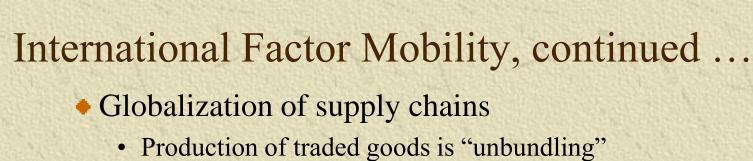
MNCs have high overheads. Complex supply chains can tie up inventory; sprawling organizations are hard to run. Free flow of info means competitors can catch up in tech and know-how more easily.



Mobile foreign K

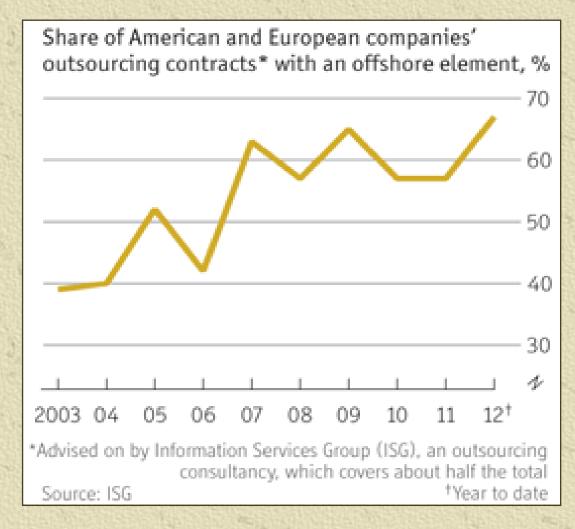
- Implication for wages (case of US):
 - Do foreign firms pay a wage premium over domestic firms?
 - 25% pay premium
 - Move from one US firm to another leaves wage unchanged
 - Move from a US firm to a foreign firm sees 7% ↑ wage
 - Foreign firm wage premium
 - Favors skilled labor: adjusting for skills, age, firm, industry and location, the bottom 10% saw no pay premium at all
 - Richer home countries pay bigger premium to US workers





- Production of traded goods is "unbundling"
 - Design and production of an intermediate good no longer happens in a single firm/factory or even in the same city
 - Transport and communications tech allows firms to spread production globally and provide trade in services across subsectors
 - Global tensions and rivalries
 - Share of trade in parts and components increased from 22% to 29% between 1980 and 2000 († IIT in parts)
- 2005: trade in intermediate goods made up 56% of goods and 73% of services of mature economies († IIT in services)

Internationalization involving K and L



Outsourcing:

when a firm reduces costs by transferring work to outside suppliers (another firm whether or not in the same country)

Offshoring:

Relocating a business process (some work) from the home market to another country (by same firm)

Economist, "Home or abroad?: Herd instinct", Special report on outsourcing and offshoring, 19 Jan 2013, p. 9

10.4 Reasons for factor mobility

International L-mobility	International K-mobility		
Skilled L: mgmt; professional; trained	Borrowing / lending (loans, deposits)		
Unskilled L: less trained, educated	Foreign direct and portfolio investment		
L in ag, services or manu sectors	Tech transfer; intellectual property; where		
Permanent vs temp /seasonal labor	does K-flow? Multinational corporations		
L moves where wages higher, land is	K moves to where returns are greatest, to		
cheap, work in services sectors, resource	decrease risk and diversify portfolio; K		
sectors (seasonal ag or tourism); to work	moves to a natural resource or to provide		
with im/mobile K; L hired without	non-traded service; when L is immobile		
crossing border (outsource)	and abundant; to avoid regs, policy, taxes		
History and geography (cultural links,	Foreign control over sensitive sectors; Conditions on foreign K (tech transfer);		
language); brain drain vs remittances;			
L stds, regs, policy, immigration law;	K controls, balance of payments issues;		
Do stricter regs $\rightarrow \uparrow$ illegal L migrants?	foreign debt; banking regs / stability		
North demographics: ↑ age, Y; ↓ pop	↑ K-mobility is an interplay of re-reg and		
grow; L scarcity; ↑ S+D for services	tech; internet banking; int'al finance; laws allowing foreign participation		
Tech: ↓ transport / communication costs			
Uncertain net effect on W, Y, wage gap;	K-inflows and L-prodvty; K flows can		
migrants take/make jobs; complement or	either complement/substitute for trade; K-		
substitute local L; pay tax and collect	immobility to certain sectors; K flows and		
benefits; brain drain vs remittances	multinational firms vs small firms		
	Skilled L: mgmt; professional; trained Unskilled L: less trained, educated L in ag, services or manu sectors Permanent vs temp /seasonal labor L moves where wages higher, land is cheap, work in services sectors, resource sectors (seasonal ag or tourism); to work with im/mobile K; L hired without crossing border (outsource) History and geography (cultural links, language); brain drain vs remittances; L stds, regs, policy, immigration law; Do stricter regs → ↑ illegal L migrants? North demographics: ↑ age, Y; ↓ pop grow; L scarcity; ↑ S+D for services Tech: ↓ transport / communication costs Uncertain net effect on W, Y, wage gap; migrants take/make jobs; complement or substitute local L; pay tax and collect		