China's New Development Model (NDM): Implications for African Countries

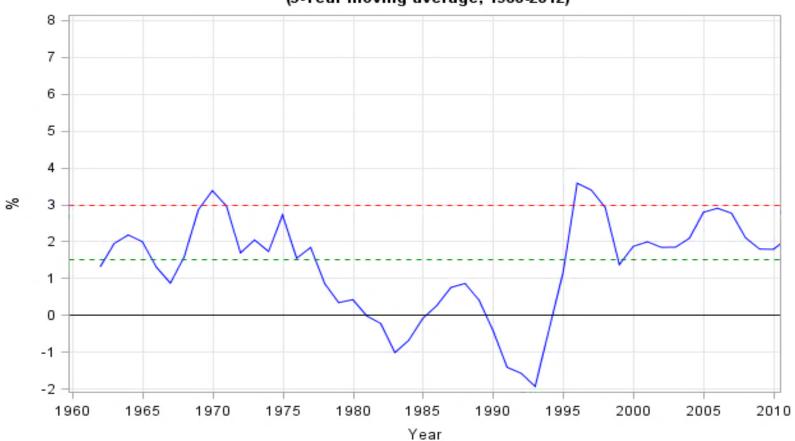
Mina Baliamoune-Lutz
African Center for Economic Transformation
(www.acetforafrica.org)
and University of North Florida

Outline

- 1. Distinguishing between growth and economic transformation (growth with DEPTH)
- 2. Trade and FDI
- 3. Rare earth metals
- 4. ATR 2014: key messages
- 5. Impacts of China's NDM

Growth in SSA: Déjà Vu?

Sub-Saharan Africa: Growth in Per Capita GDP (3-Year moving average, 1960-2012)



Data Source: Word Bank Development Indicators

Source: African Transformation Report (ATR), ACET, 2014.

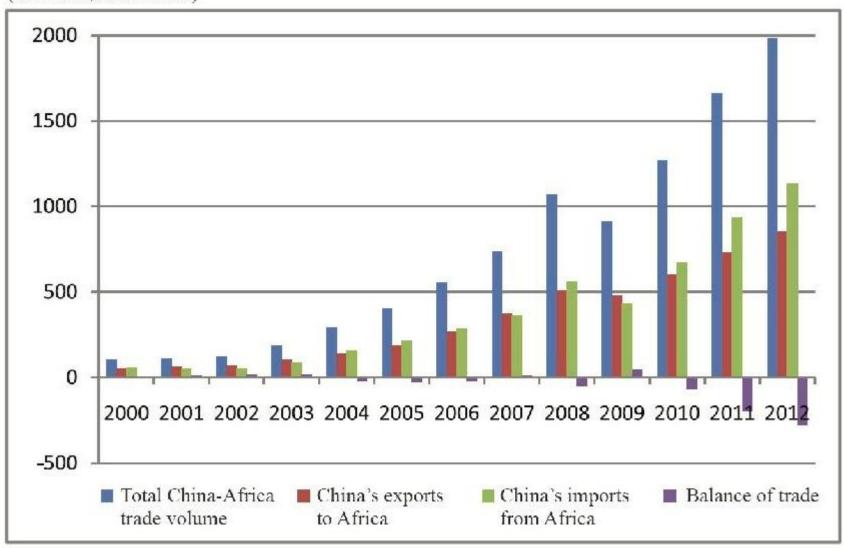
ATR (ACET, 2014):

Economic Transformation = Growth built on solid foundations = Growth with DEPTH

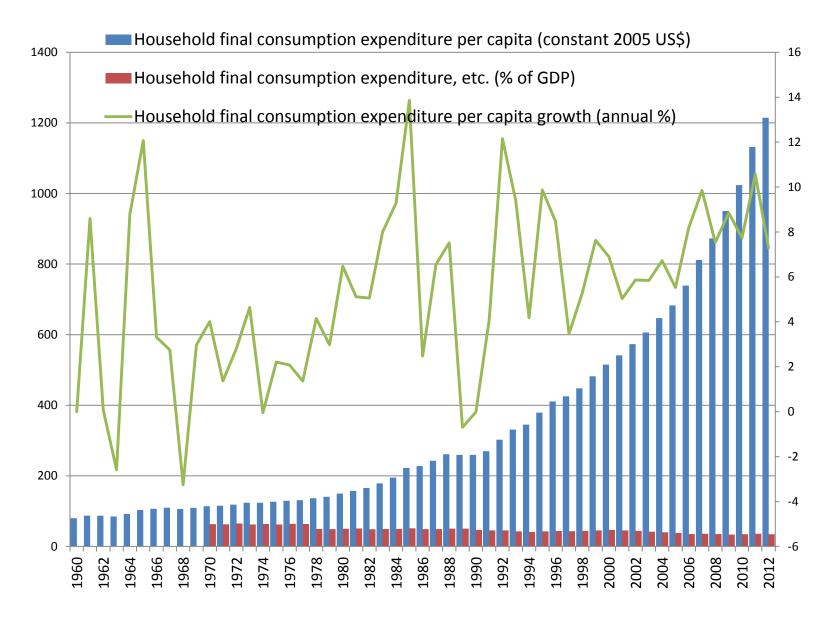
- Diversification of economic production and exports
- Export Competitiveness
- Productivity increases
- Technological upgrading
- Human wellbeing improvement

Figure 1: China-Africa Trade Volume (2000-2012)

(Unit: US\$100 million)

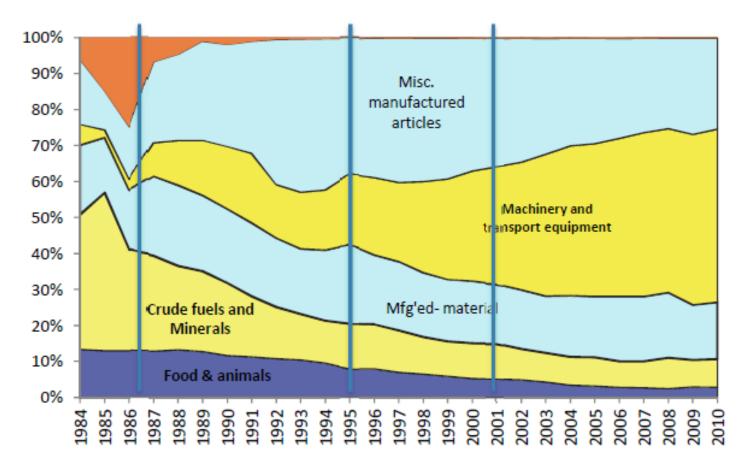


Source: Information Office of the State Council, The People's Republic of China (2013)



Source: World Development Indicators database online (World Bank, 2014)

China's export structure: from raw material in the 1980s to labor intensive manufacturing products in the mid-1990s



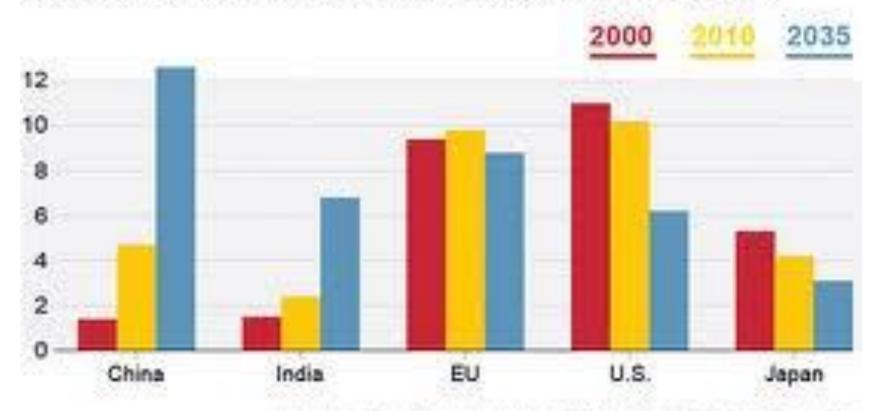
Source: Lin and Wang (2008) updated by Yan Wang using COMTRAD data.

Note: Mfg'ed materials for manufactured materials.

Source: Justin Lin and Yan Wang (2014, WIDER Working Paper 46)

China Rising

China's oil imports are projected to skyrocket through 2035



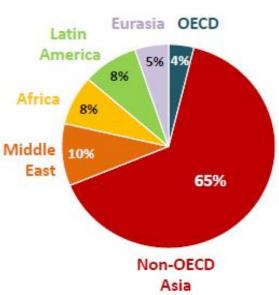
Note: Projections based on IEA's New Policies Scenario Source: IEA World Energy Outlook 2011

The engine of energy demand growth moves to South Asia





Share of global growth 2012-2035

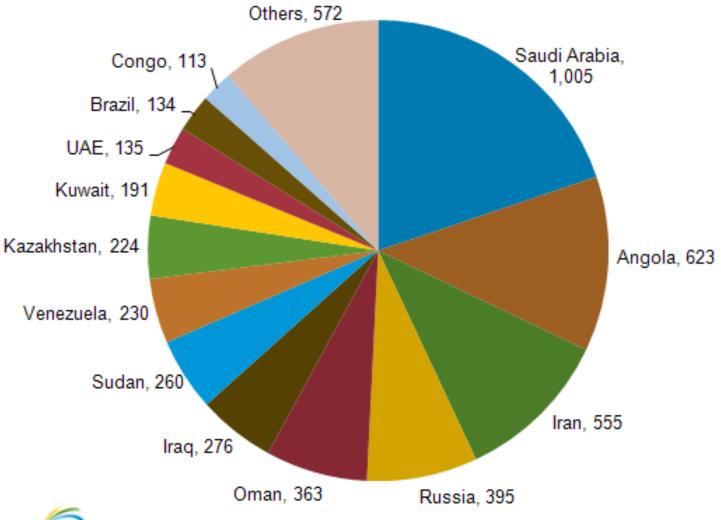


China is the main driver of increasing energy demand in the current decade, but India takes over in the 2020s as the principal source of growth

© GECD/JEA 2013

China's crude oil imports by source, 2011

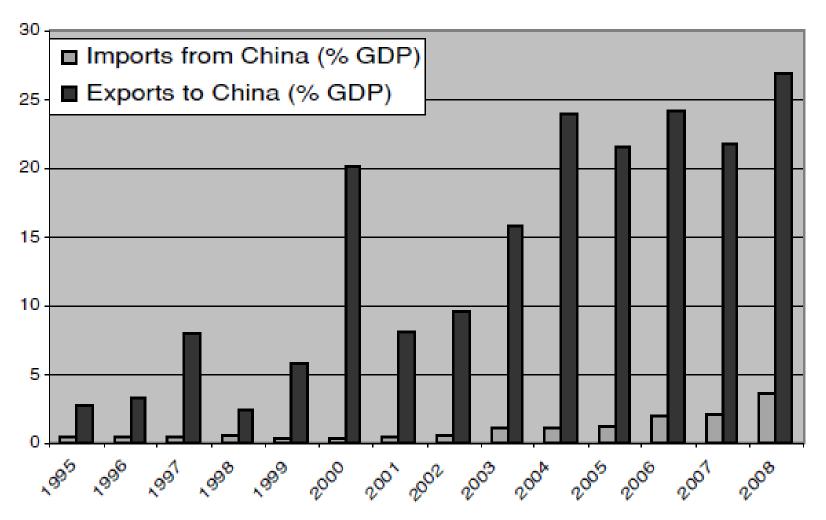
thousand barrels per day





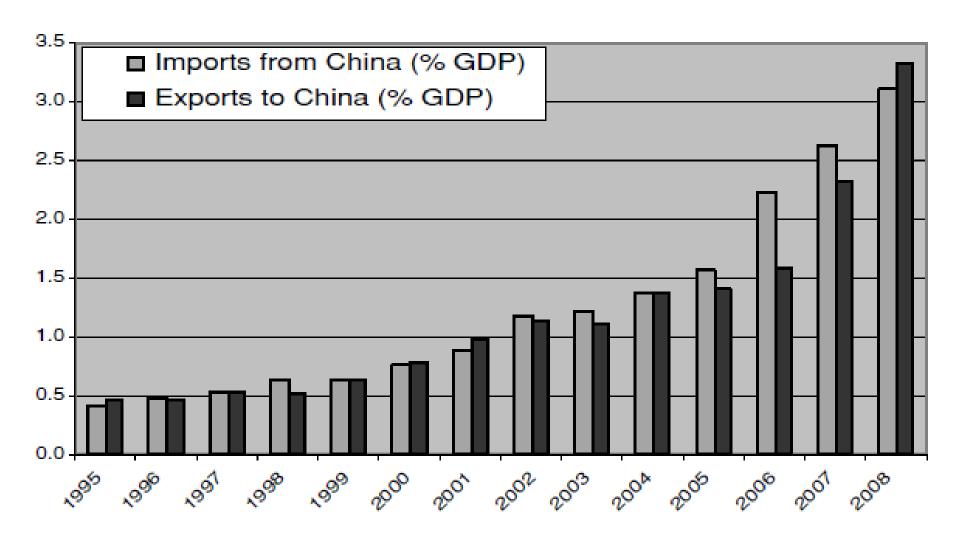
Source: FACTS Global Energy

Angola's trade with China



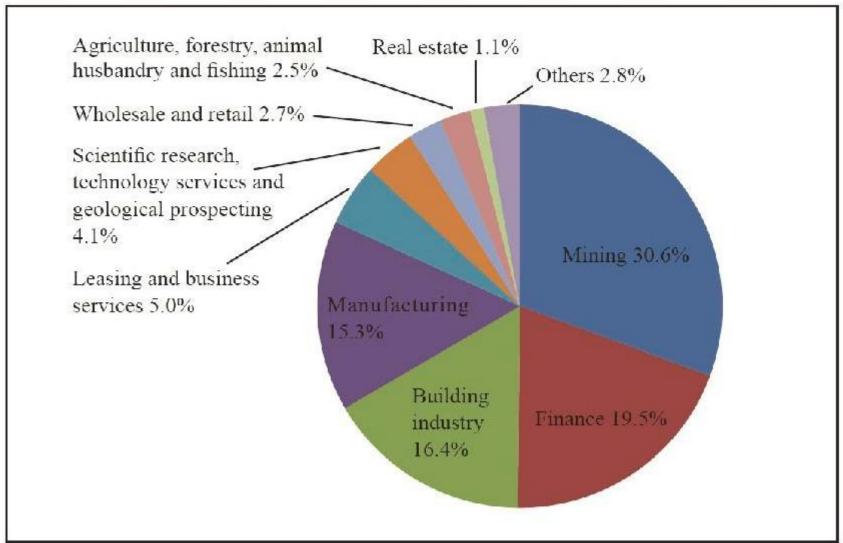
Source: Baliamoune-Lutz, 2011

South Africa's trade with China



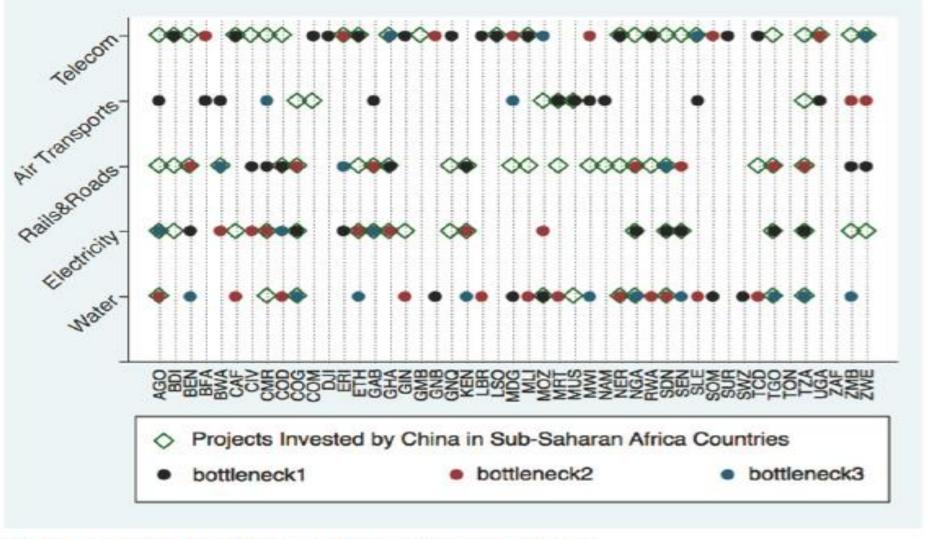
Source: Baliamoune-Lutz, 2011

Figure 2: Distribution of China's Direct Investment in Africa (by the end of 2011)



Source: Information Office of the State Council, The People's Republic of China (2013)

Are China-financed projects releasing bottlenecks in SSA?

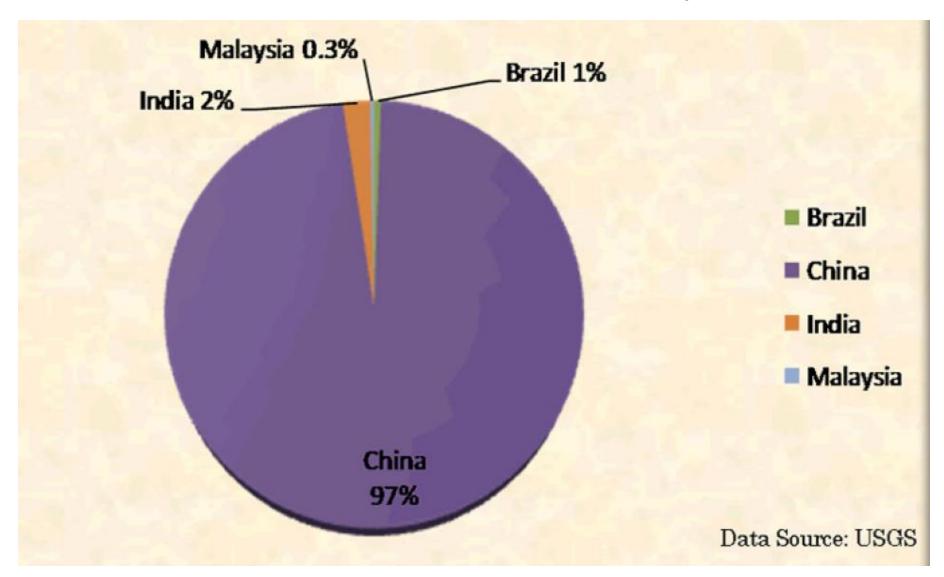


Source: Authors, by merging the 2 steps using country code.

Note: Probabilities of China-financed projects hitting the bottlenecks are calculated.

Source: Justin Lin and Yan Wang (2014, WIDER Working Paper 46)

Global Rare Earths Production, 2009



RARE EARTH METALS WHAT IS IT? Mineral group Not as rare as the Used in the production of which contains name implies, but many devices including 17 chemical is difficult to find in LCD screens, computer elements; concentrations chips, optical media, high enough for rechargeable batteries, scandium, yttrium and 15 lanthanide mobile phones, magnets, economical and car components elements extraction 2011 PRODUCTION in thousand metric tons China 130 India 3 Total: 133.6* Brazil 0.55 *Production data for CIS and other countries not available Malaysia 0.03 Russia / CIS Canada U.S.A. China India Nigeria Sri Lanka Malawi Brazil Producers Thailand Australia Malaysia Resources / minor South Africa producers CIS= Commonwealth of Independent States (Former Soviet Union states) WORLD RESERVES in million metric tons 19 13 3.1 1.6 0.05 0.03 22 55 CIS China U.S. Australia India Brazil Malaysia Others Japan and U.S. import the largest amount of rare earth metals for their tech and auto industries CHINA EXPORT QUOTAS in thousand metric tons China sets their export quota for the first half of Total -65.6 61.8 59.7 56.9 2012 at 10,546 tons 50.1 Foreign -17.6 16.1 16.1 15.8 16.8 30.3 30.2 Domestic -7.7 7.3 48.0 45.7 43.6 41.1 33.3 22.5 23.0 2005 2006 2007 2008 2009 2010 2011 2012

REUTERS

Sources: USGS, China Ministry of Commerce

ATR 2014: KEY MESSAGES



Impacts of China's NDM on various dimensions

		Focus	Opportunities	Threats
Recent trends and Developments	Urbanization	Infrastructure	More Chinese investment	China's demand for resources may lead to higher prices
		Urban consumption	Supply and price of Chinese products	Competition with Chinese consumers
		Fertility	Quality of children (health, education) [e.g., computers from China]	Competition with Chinese consumers
	Rising middle class (in many African countries)	Infrastructure (esp. ICT and transportation)	More Chinese investment and know-how	China's demand for resources may lead to higher prices Control of rare earth metals
		Middle-class consumption	Supply and price of Chinese higher-end products	Competition with Chinese consumers
		Education (lower supply of cheap labor), human capital	Lower price and supply of computer and other ICT	Competition with educated Chinese, causing higher prices
				China's manufacturing may prevent the creation of African manufacturing sector

Impacts of China's NDM on various dimensions (cont.)

		Focus	Opportunities	Threats	
Challenges	Food security (transformation	Land	More Chinese investment	Land grab?	
	of agriculture)	Inputs	Aid and grants, supply of fertilizers	Will output remain mainly in Africa of go to China?	
		Mechanization	Imports of capital goods from China		
		Farmers (skills)	Technical expertise Innovation	Chinese farmers in Africa?	
		Infrastructure	Chinese FDI/know how (irrigation/roads)		
			Overall: learning from China's experience!		
	Unemployment/ youth bulge	Youth bulge	demographic dividend		
		Youth unemployment	Trade with, FDI and knowledge transfer from China can help	Concentration of trade and FDI on mining/minerals: capital intensive industries	
	Regional integration	Regional infrastructure	Chinese FDI and expertise	Does China want regional integration in Africa?	

Possible impacts of China's NDM on various dimensions (cont.)

		Focus	Opportunities	Threats
Challenges	Climate change, sustainability and renewable energy	Investing in green economy	Chinese FDI and expertise	China's position on climate change Control of rare earth metals
	Low economic transformation	D iversification E xport	China's shift from input-driven growth to productivity-driven growth China's shift from	Trade concentrated on primary commodities China's manufacturing sector
		Productivity		China's demographic trends
		T echnology	manufacturing to service sector exports	(changes?)
		Human wellbeing	Chinese FDI and expertise	Shallow growth?
			China's demand for food and other consumer goods	

Homi Kharas on ATR

http://blogs.worldbank.org/futuredevelopment/depth-africa-s-transformation



A Chinese worker looks on as locals cross a construction site in Viana, Angola (REUTERS/Siphiw e Sibeko) [Cited in http://www.oxan.com/Analysis/DailyBrief/Samples/china-africaties.aspx]