Helping the poorest nations: Bangladesh and Indonesia (Ethiopia?) aid and trade....

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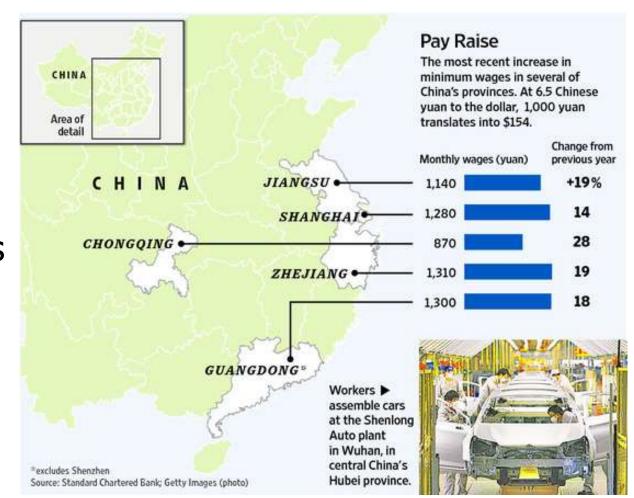
How to help Malawi vs. Bangladesh?

- Malawi, Aid then trade, needs green revolution (fertilizer subsidies).
- Bangladesh (BGD): had Aid, now trade... food aid in 1973: trade sanctions, World Food Program.
- BGD got special access to MFA quota (expired last year, except for China).
- See NY Times article on fertilizer subsidies..

Flying Geese Justin Lin see also MIT complexity lab, industry clusters Figure 5 Asian 'wild geese flying' pattern Structural Transformation in East Asia CONTRY Latest comers Latecomers ASEAN4 NIEs 1 Japanноти Video Steel Popular TV Garment Time

Flying Geese Justin Lin

Rising wages in China (2011) pave way for BGD & Ethiopia? See WSJ on garment exports from BGD Wages rising in most poor regions



Geese still flying (Akamatsu)

 Table 1

 Geese still flying in Asia: country rankings in selected industries, 1992 and 2008

	Live animals		Pharmaceuticals		Footwear		Iron & steel	
Country	1992	2008	1992	2008	1992	2008	1992	2008
China	1	1	2	3	1	1	3	1
India	5	4	3	1	4	2	4	4
Japan	3	3	1	2	5	5	1	2
Korea Rep.	2	5	4	4	2	4	2	235
Thailand	4	2	5	5	3	3	5	5
	Plas	stics		trical ery, parts		vision ivers	Тс	ys
Country	1992	2008	1992	2008	1992	2008	1992	2008
China	3	1	3	1	3	1	1	1
India	5	5	5	5	5	5	5	5
Japan	1	2	1	2	1	2	2	52
Korea Rep.	2	3	2	3	2	3	3	4
Thailand	4	4	4	4	4	4	4	3

Note: Rankings established from data at the two-digit level for exports in the WITS database.

Source: World Bank, WITS database.

Geese still flying (Akamatsu)

Table 2

Flying geese and the international division of production: Asian economies with a revealed comparative advantage in footwear, 1962–2000

			RC	A in Footwea	r				I
1962	1965	1970	1975	1980	1985	1990	1995	2000	
Japan China	Japan China Taiwan, China	China Taiwan, Ch.	China Taiwan, Ch.	China Taiwan, Ch.	China Taiwan, Ch.	China Taiwan, Ch.	China	China	
	S. Korea	S. Korea Pakistan	S. Korea	S. Korea	S. Korea	S. Korea			
				Philippines	Philippines Thailand	Philippines Thailand Indonesia India	India Vietnam	Thailand Indonesia India Vietnam Sri Lanka	Other L-MIC
							Ciricanika	Myanmar Bangladesh Fiji Cambodia	LICs

Note: Revealed comparative advantage is calculated as the share of footwear in the economy's exports divided by the share of footwear in global exports. The comparative advantage of a particular economy is 'revealed' when this ratio is greater than 1. All economies in the table except China are ranked by income level.

Source: UN COMTRADE data.

What about Labor standards?

- Krugman and Kristof warn labor standards undermine competitiveness of lowest wage countries (Niger, Africa, Cambodia...).
 What is their argument?
- 2. Others, including ILO Better Factories/jobs argue It is possible to have both?
- 3. WB's <u>2012 NARI (woman) program</u> offers to protect women from rural Bangladesh who want to migrate but fear urban areas.

Summary

- Flying Geese (Justin Lin) rising wages
- Slain dragons Institutions & Poverty trap
- Asian Tigers to African Lions: boom in Africa
- Clusters of trees (industrial policy vs. free trade)
- Growth miracle? Can Africa can make MDG 1...or at least MDG 4? No, but some countries can, find

The Bangladesh miracle: women's agency, social innovation "workaround" bad institutions, very bad government...

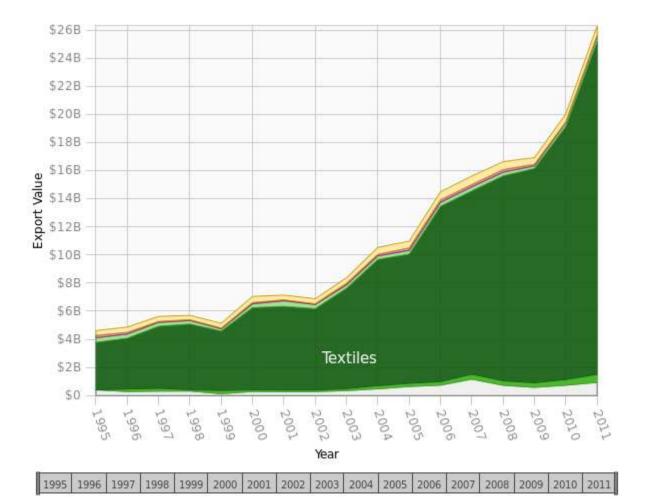
- Mohammed Yunus, social innovation, thought up micofinance Grameen (but Accion may have been first).
- Low wage garment export jobs: U.S. MFA forced Korean company to move to Dhaka to get quota.
- Amazing fall in <u>population growth</u>, see Melinda Gates letter <u>part 3, 2014</u>
- Immigration, remittances from middle east countries mainly (Egypt, Saudi Arabia).
- Health system, access to contraception... See QJE 2009 T. <u>Paul Schultz on Matlab</u>...

The Bangladesh miracle: 2011 exports

Total: \$26.3B

Knit T-shirts 16.39%	Non-K Wome Suits		Non- Knit Men' Shirt		1.94%	
Non-Knit Men's Suits	Knit Men's Shirts 3.3%	Knit Women's Suits 3.249	House Linens	1.63%	Tanned Equine	
14.68%	Jute Yarn		C			
Knit Sweaters	Knit Babies' Garments		1.025	1.02%		
	Knit Women's Undergarmnets					
14.59%	Non-Knit Men's Coats	Knit Men's,				

The Bangladesh miracle garment exports (source MIT "Observatory of complexity"



Bangladesh garment factory associated with higher girl's school enrollment (mainly for 5-14 group, no effect on boys or 15-18 enrollment, see: Vikas Bajaj (2010) Garment Factories, "Changing Women's Roles in Poor Countries"

NY Times, Economix blog- Explaining the Science of Everyday Life July 21, 2010



Percent of females in Bangladesh, ages 5-18, enrolled in school

How Bangladesh became a major garment exporter

- Bangladesh (BGD): received considerable food aid ("Map of the world" a David Hare play based on a major food aid scandal in 1973 in which the United States "punished" World Food Program).
- After this BGD got special access to MFA quotas (expired in 2005, except for China).
- How did BGD Garment industry get started?
 Daewoo industries opened plant in 1979, the OECD boosted MFA quotas (twice) and the rest is history

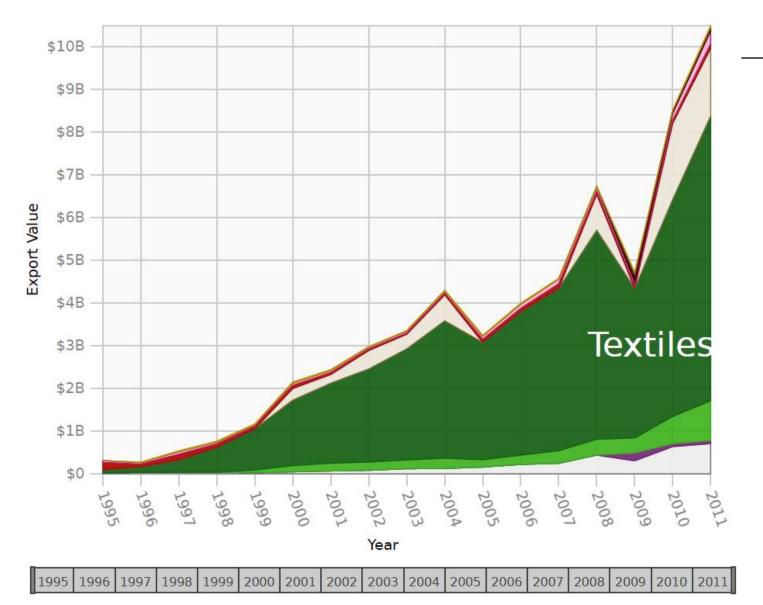
Why garment exports jobs help reduce poverty & empower women?

- Apparel workers hire mainly women: true in NYC lower east side & in Brooklyn too
- Delay marriage 17 to 20 (see Gruben & McLeod, 2006 page 6)
- Employers hire & promote educated young WOMEN (recall Min's handwriting... Junior high required for garment jobs in Bangladesh, see <u>G&R, 2006 page 5</u>)
- Remittances sent to parents who treat "treat their daughters like sons..." (Chang, 2009, chapter 10)
- Number of "missing women" falls as girls get more food and health care within family...

Why garment exports jobs help reduce poverty & empower women?

- Child marriage raises risk malnutrition and maternal mortality.
- Both supply (education) and demand side policies matter (Supply vs. Demand Wallas in B&D, 2012)
- Heath and Mubarak 2012 find scholarships do nothing, but jobs make a big difference (see Figure below) * Does Demand or Supply Constrain Investments in Education? Evidence from Garment Sector Jobs in Bangladesh
- See also <u>Gruben and McLeod</u>, 2006.

Some progress Cambodia Exports



How the garment industry started in Bangladesh? MFA quota caused spread, low wages, scale helped

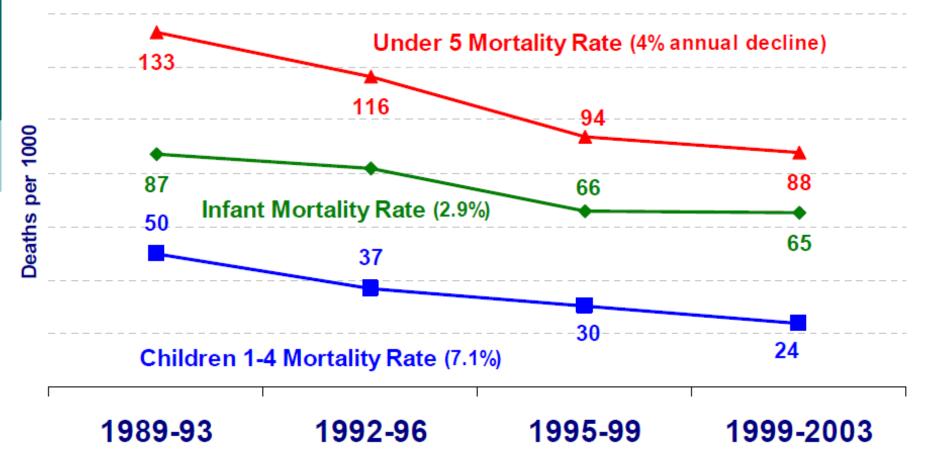
"in **1979** Daewoo signed a collaborative agreement with Desh Garment Ltd in Bangladesh. Daewoo agreed to bring 130 Bangladeshi workers to South Korea for training at a Daewoo plant in return for Desh paying commissions amounting to 8 percent of future sales. At the time of the training there were a total of 40 workers producing garments in Bangladesh, and Desh's first year of operations produced \$55,050 in sales on 43,000 shirts. By 1987 the industry's output had grown to 2.3 million shirts. During the 1980s, of the 130 Bangladeshi workers initially trained by Daewoo, 115 of them had left Desh to set up their own garment export firms." see, Beaudry, P. and P. Francois, 2005, Managerial Skill Acquisition and the Theory of Economic Development, NBER Working Paper

No. 11451 June. (same story reported in UNDP's 2004 Report <u>Unleashing entrepreneurship</u>

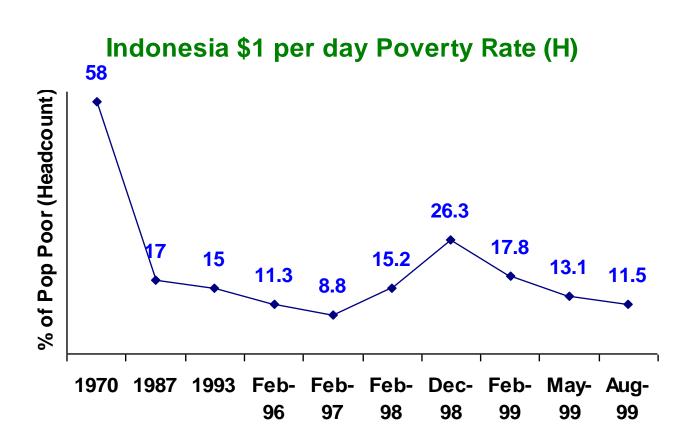
Why Poverty fell rapidly in Indonesia (and in China, Vietnam, Bangladesh....)

- Green Revolution in the 1970s tripled rise yields raising the incomes of many small farmers Higher farm incomes led to new spending on goods and services by richer farmers (Engle's law** at work...).
- Education particularly of women key in India & Bangladesh (Kerala).
- Light manufacturing exports, NIKE and other multinationals set up factories to export shoes and garments from Indonesia Villager's & migrants sent kids to school (with shoes).
- **Engle's law: incomes double, people do not double their spending on food; the buy other goods and services, which creates jobs outside of agriculture demand for other goods and services and exports account for most of employment nationally and even in a small village like Begajah in Indonesia.

Figure 5: Bangladesh DHS Child Mortality Trends (annual rate of decline)



Poverty Fell sharply and then rose a bit in Indonesia...



Poverty Fell sharply and then rose a bit in Indonesia... a record reversal? 1987-2004

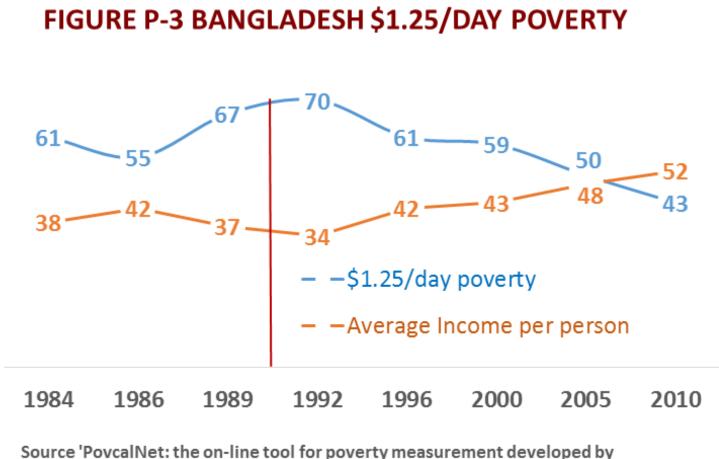
FIGURE P-1: INDONESIA MDG-1 POVERTY



1984 1987 1990 1993 1996 1999 2002 2005 2006 2007 2008 2009 2010 2011

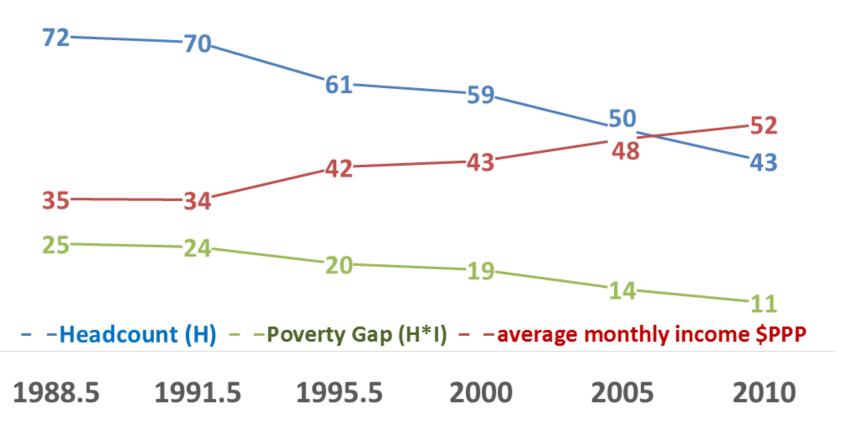
Source 'PovcalNet: the on-line tool for poverty measurement developed by the Development Research Group of the World Bank (http://iresearch.worldbank.org/PovcalNet/index.htm

Poverty falling in BGD on track....but from 59% in 2000 to 43% in 2010, or about 1.6% per year, 5* 1.6 = 8 so perhaps 35% in 2015, exactly MDG 1...



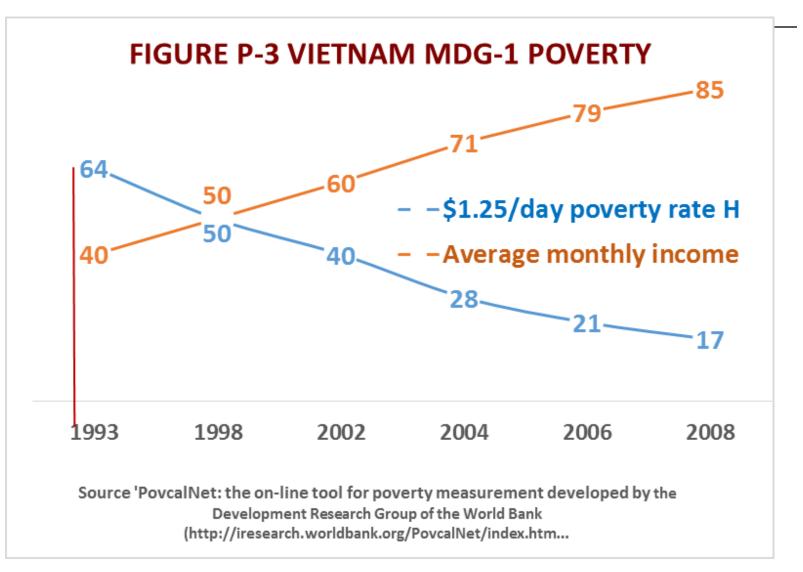
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FIGURE SA-2: BANGLADESH \$1.25/DAY POVERTY RATE



Source: World bank Povcalnet (February 2015) http://iresearch.worldbank.org/PovcalNet/povcalSvy.html

Vietnam: done with MDG 1 in 2004... 10 years early!



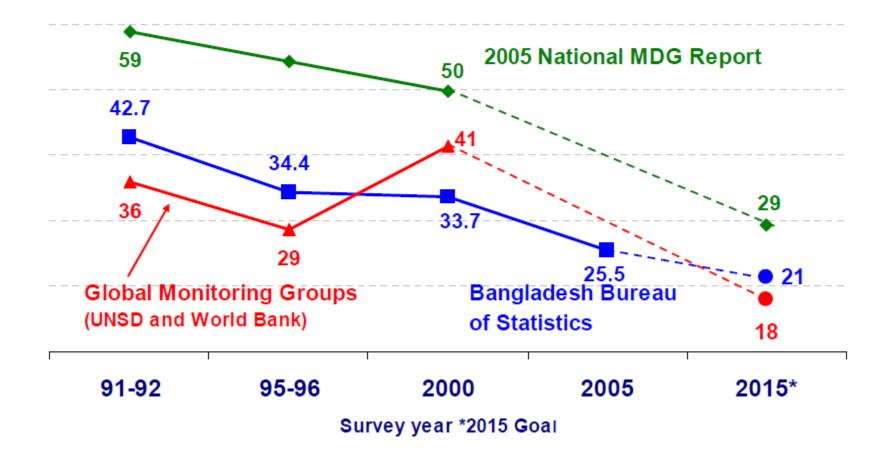
Bangladesh growing rapidly but vulnerable to climate change..

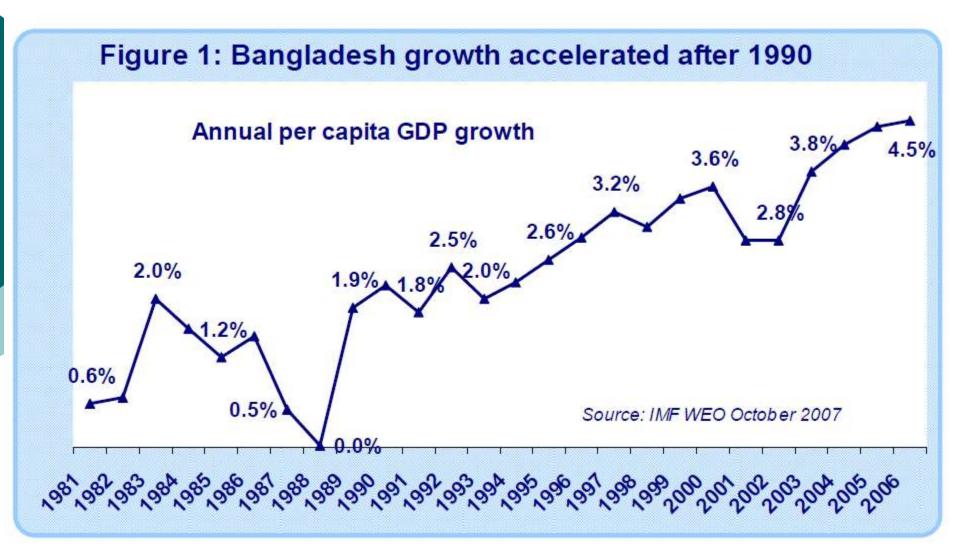


Globalization & Capitalism made about a billion rich, two billion remain poor and about 3 billion are in the "new middle class"

- Still, many remain in severe poverty in the world... according to the World Bank, about a billion people still get by on less \$1.25/day.
- Lack mobility, cannot afford education: \$1 per day only buys about 2250 calories of coarse cheap grain (no meat, few clothes- but see B&D, 2011).
- Vulnerable to Poverty \$2-\$10 not poor, but risk falling back
- Middle class: > \$10 per day, less likely to fall back into poverty

Figure 2: Bangladesh Poverty Trends





Bangladesh: on track to meet MDGs?

		T 4 61 4116	-
MILLENIUM DEVELOPMENT GOALS : BANGLADESH PRO	JGRESS A	T A GLANC	E
Goals, Targets and Indicators (revised)	Base year	Current	Target
	1990/1991	Status	by 2015
Goal 1: Eradicate Extreme Poverty & Hunger			
Target 1.A: Halve, between 1990 and 2015, the proportion of peo	ple below p	overty line	
1.1 : Proportion of population below national upper poverty line (2122 k.cal.),	56.6	40.0(2005)	29.0
percent			
1.2 Poverty Gap Ratio, percent	17.0	9.0(2005)	8.0
1.3 Share of poorest quintile in national consumption, percent	6.5	5.3(2005)	na
Target 1.B: Achieve full and Productive employment and decent work	for all, inclue	ding women a	ind young
people			
1.5 Employment to population ratio, Percent	48.5	58.5(2005)	for all
Target 1.C : Halve, between 1990 and 2015, the proportion of peo	ople who su	ffer from hur	nger
1.8 Prevalence of underweight children under five years	66.0	47.8(2005)#	33.0
1.9 Proportion of population below minimum level of dietary energy	28.0	19.5(2005)	14.0
consumption, percent			
Goal 2: Achieve Universal Primary Education			
Target 2.A : Ensure that, by 2015, children everywhere, boys and girls alike,	, will be able to	o complete a fu	Ill course of
primary schooling			
2.1 Net enrollment in primary education, percent	60.5	91.1(2007)	100
2.2 Proportion of pupils starting grade 1 who reach grade 5, percent	40.7	79.8(2009)	100
2.3 Adult literacy rate of 15+ years old population(proxy), percent	37.2	59.1(2008)	-
Adult literacy rate of 15-24 years old population(Female), percent		72.0(2009)	-

Bangladesh: on track to meet MDGs?

Goal 3: Promote Gender Equality and Empower Women			
Target 3.A : Eliminate gender disparity in primary and secondary	education	preferably by	2005, and
in all levels of education no later than 2015	-		
3.1a Ratio of girls to boys in primary education(Gender Parity	0.83	1.03(2009)	1.0
Index=Girls/Boys)			
3.1b : Ratio of girls to boys in secondary education(Gender Parity	0.52	1.17(2009)	1.0
Index=Girls/Boys)			
3.1c : Ratio of girls to boys in tertiary education(Gender Parity	0.37	0.61(2006)	1.0
Index=Girls/Boys)			
3.2 Share of women in wage employment in the non-agricultural sector,	19.1	14.6(2005)	50
percent	10.7		
3.3 Proportion of seats held by women in national parliament, percent	12.7	19.0(2009)	33
Goal 4: Promote Gender Equality and Empower			
Women			
4.1 Under-five mortality rate (per 1000 live births)	146	67(2009)	48
4.2 Infant mortality rate (per 1000 live births)	92	45(2009)	31
4.3 Proportion of 1 year-old children immunized against measles, percent	54	88(2006)	100
Goal 5: Improve Maternal Health			
Target 5.A : Reduce by three quarters, between 1990 and 2015, t	the maternal	mortality rati	0
5.1 Maternal mortality ratio, per 100,000 live births	574(1990)	348(2008	144
5.2 Proportion of births attended by skilled health personnel, percent	5.0	24.4(2009)	50
Target 5.B : Achieve, by 2015, universal access to reproductive h	ealth		
5.3 Contraceptive prevalence rate, percent	39.7	59.0(2007)	-
5.4 Adolescent birth rate, per 1000 women	77.0	59(2007)	-
5.5a Antenatal care coverage (at least one visit), percent	27.5(1993)	60.3(2007)	100
5.5b Antenatal care coverage (at least four visit), percent	5.5(1993)	20.6(2007)	100
5.6 Unmet need for family planning, percent	19.4(1993)	17.6(2007)	-

Bangladesh: on track to meet MDGs?

	1	1	
Goal 6: Combat HIV/AIDS, malaria and other diseases			
Target 6.A : Have halted by 2015 and begun to reverse the sprea	d of HIV/AID	s	
6.1 HIV prevalence among population (per 100,000 population)	0.005	0.319(2007)	Halting
6.2 Condom use rate, percent	-	4.5(2005)	no target
6.3 Proportion of population aged 15-24 years with comprehensive correct	-	15.8(2006)	
knowledge of HIV/AIDS, percent			
Target 6.C : Have halted by 2015 and begun to reverse the incide	ence of mala	ria and othe	major
diseases			-
6.6a : Prevalence of malaria per 100,000 population	43(2000)	59(2008)	Halting
6.6b : Death rate associated with malaria per 100,000 population	0.37(2000)	0.11(2008)	Halting
6.7 : Proportion of Children under-5sleeping under insecticide treated bed nets	-	89(2008)	-
[13 Malaria prone districts] percent			
6.9a : Prevalence of TB per 100,000 population	264(1990)	225(2007)	Halting
6.9b : Death rates associated with TB per 100,000 population	76(1990)	45(2007)	Halting
6.10a : Detection rate of TB under DOTS, percent	21(1994)	73(2007)	Sustain
6.10b : Cure rate of TB under DOTS, percent	73(1994)	91(2006)	Sustain
Goal 7: Ensure Environmental Sustainability			
Target 7.A : Integrate the principles of sustainable development	into country	policies and	1
programs and reverse the loss of environmental resources	·····,		-
Target 7.B : Reduce biodiversity loss, achieving, by 2010, a sign	ificant reduc	tion in the r	ate of lose
7.1 Proportion of land area covered by forest (percent) (tree coverage)	9.0	19.2(2007)	20.0
r. r Proportion of fand area covered by forest (percent) (tree coverage)	5.0	Tree density >	Tree density >
		10%	70%
7.2 CO2 emissions, metric tons per capita	0.14	0.30(2007)	
7.3 Consumption of ozone-depleting CFCs in metric tons	195	155(2007)	0
7.4 Proportion of fish stock within safe biological limits			
7.5 Proportion of total water resources used, percent		6.6(2000)	
7.6 Proportion of terrestrial and marine areas protected, percent	1.64	1.68(2007)	5.0
7.7 Proportion of species threatened with extinction			

On track to meet MDGs

Target 7.C : Halve by 2015, the proportion of people without sus	tainable acc	ess to safe d	rinking
water and basic sanitation			-
7.8 Proportion of population using an improved drinking water sources, percent	89.0	97.8(2009)*	100
7.9 Proportion of population using an improved sanitation facility, percent	21.0	80.4(2009)	60
Target 7.D : By 2020, to have achieve a significant improvement in th	e lives of at l	east 100 millio	n slum
dwellers			
7.10 : Proportion of urban population living in slums, percent		7.8 (2001)	
Goal 8: Develop a Global Partnership for Development			
Target 8.A : Develop further an open, rule-based, predictable, non dis	scriminatory	trading and fin	ancial
system	-	U U	
Target 8.B : Address the special needs of the least develop court	ntries		
Target 8.C : Address the special needs of landlocked developing		and small dev	elopina
states	goounnioo	and onlan do	eleping
Target 8.D : Deal comprehensively with the debt problems of de	veloning co	untries throug	h
national and international measures in order to make debt susta			
8.1a : Net ODA received by Bangladesh (million US\$)	1240	96.1	
o. ra : Net ODA received by Bangladesh (million 0.5\$)	1240	(2007-08)	-
8.1b : Net ODA received by Bangladesh, as percentage of OECD/DAC donors' GNI	5.7	0.2(2006)	-
8.2 : Proportion of total bilateral sector-allocable ODA to basic social services, percent		42(2005)	
		42(2000)	-
8.3 : Proportion of bilateral ODA of OECD/DAC donors that is untied (received by		82(2005)	-
Bangladesh), percent		82(2005)	-
Bangladesh), percent 8.7 Average tariffs imposed by develop countries on agriculture products,			-
Bangladesh), percent 8.7 Average tariffs imposed by develop countries on agriculture products, textiles and clothing from developing country (Bangladesh), percent		82(2005) 12-16 (2006)	-
Bangladesh), percent 8.7 Average tariffs imposed by develop countries on agriculture products, textiles and clothing from developing country (Bangladesh), percent 8.12 : Debt service as a percentage of exports of goods and services, percent	20.9	82(2005) 12-16 (2006) 7.9(2007)	-
Bangladesh), percent 8.7 Average tariffs imposed by develop countries on agriculture products, textiles and clothing from developing country (Bangladesh), percent 8.12 : Debt service as a percentage of exports of goods and services, percent Target 8.F : In cooperation with the private sector, make availab		82(2005) 12-16 (2006) 7.9(2007)	- - hnologies,
Bangladesh), percent 8.7 Average tariffs imposed by develop countries on agriculture products, textiles and clothing from developing country (Bangladesh), percent 8.12 : Debt service as a percentage of exports of goods and services, percent		82(2005) 12-16 (2006) 7.9(2007)	- - hnologies,
Bangladesh), percent 8.7 Average tariffs imposed by develop countries on agriculture products, textiles and clothing from developing country (Bangladesh), percent 8.12 : Debt service as a percentage of exports of goods and services, percent Target 8.F : In cooperation with the private sector, make availab especially information and communication 8.14 Telephone line per 100 population		82(2005) 12-16 (2006) 7.9(2007)	- - hnologies,
Bangladesh), percent 8.7 Average tariffs imposed by develop countries on agriculture products, textiles and clothing from developing country (Bangladesh), percent 8.12 : Debt service as a percentage of exports of goods and services, percent Target 8.F : In cooperation with the private sector, make availab especially information and communication	le the benefi	82(2005) 12-16 (2006) 7.9(2007) ts of new tec	- - hnologies, -

Barriers to growth

- Poor institutions, property rights, credit markets etc. (corruption, misuse of aid)
 Resource curse.. Nigeria, Venezuelas
 Capital and trade flows: handmaidens
 Debt crises... many debt crises
- In Africa especially: poverty traps, low savings, low public investment, poor health rapid population growth...

Poverty traps & growth in Africa

Absolute convergence 2000-2013
 Reversal of fortune (China and India)

- Capital and trade flows: working in reverse
- Debt crises... HIPC, Live Aid,
- In Africa especially: poverty traps, ethnic divisions, low public investment, poor health, high population growth...

Fixing institutions workarounds (bottom up globalization)

NGOs parallel institutions Cambodia ILO
 Microfinance and remittances...

- Substitute militaries, peace keepers.
- EPZs and weak exchange rates
- Migration, diasporas and remittances
- Global health fund:
- Multi-national investment: China
- Charters and international agreements, e.g, the Kimberly accord (see Collier, 2008)