

Promoting Millennium Development Ideals: The Risks of Defining Development Down

Lant Pritchett and Charles Kenny

Abstract

The approach of 2015, the target date of the Millennium Development Goals, sets the stage for a global reengagement on the question of “what is development?” We argue that the post-2015 development framework for development should include Millennium Development Ideals which put into measurable form the high aspirations countries have for the well-being of their citizens. Standing alone, low bar targets like the existing Millennium Development Goals “define development down” and put at risk both domestic and global coalitions to support to an inclusive development agenda. Measuring development progress exclusively by low bar targets creates the illusion that specific targeted programs can be an adequate substitute for a broad national and global development agenda.

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Contents

Introduction	1
Beyond The Low Bar for a Global Agenda: Development Ideals for all Countries	3
Two Definitions of Development	6
The Analytics of Drive, Shift, Kink as Strategies for Progress	10
High Aspirations: Beyond Kinky Development	20
Poverty.....	23
Health	26
Conclusion.....	28
References	30
Appendix 1: Decomposition for Health Index based on Under 5 Mortality	32

Introduction

The approach of 2015, the target date of the Millennium Development Goals, sets the stage for a global re-engagement on the question of “what is development?” We argue that the post-2015 development framework for development should include Millennium Development Ideals which put into measurable form the high aspirations citizens of the world’s countries have for their well-being. Standing alone, low bar targets like the existing Millennium Development Goals “define development down” and put at risk both domestic and global coalitions to support to an inclusive development agenda. Measuring development progress exclusively by low bar targets creates the illusion that specific targeted programs can be an adequate substitute for a broad national and global development agenda.

The recent High Level Panel report on the Post -2015 Agenda, *A New Global Partnership: Eradicate Poverty and Transform Economies Through Sustainable Development*, illustrates this issue. The report takes welcome steps to propose goals that are not purely about absolute deprivation, with targets in areas including gender equality, learning, sustainability, jobs, governance and violence crafted in such a way that they are applicable to countries from Liberia to the UK.

At the same time, with specific global poverty targets of eradicating \$1.25/day poverty, ensuring all children can read, write and count, and increasing access to household sanitation, the Panel suggests:

“By 2030, if the transformational shifts we describe are made, the barriers that that hold people back would be broken down, poverty and the inequality of opportunity that blights the lives of so many on our planet would end...”

By 2030, if the targets enumerated in the report were all met, the world would be a much better place. But billions could still be living on less than \$2 a day, with only the most basic literacy and numeracy, lacking access to basic medical care, living in houses without indoor sanitation, working in subsistence agriculture or hawking on the street to make money. Under any reasonable definition (including the current World Bank definition of \$2 a day) poverty would remain. And the opportunities of those born in low or lower middle income countries would remain grossly stunted compared to those born in the OECD. To declare the end of poverty and inequality of opportunity requires a much more ambitious list of targets than proposed in the Panel’s report.

The objective of development is to produce sustained improvements in human well-being. Analytically there are three ways of improving any individuated measure human well-being:

Drive towards increased *national* development through an inclusive four-fold transformation towards a more prosperous and productive economy, a more capable state, a more responsive polity, and fairer and more just societies.

Shift the distribution of measures of human well-being up (more or less uniformly) at any given level of national development through broad sector wide improvements in the overall distribution of outcomes for any given level of national development through technology change, adaptation of new approaches or behaviors, better policies and more effective implementation.

Kink the distribution of well-being across individuals so that the less-well off have outcomes nearer the average.

Drive for national progress, *Shift* to better sector outcomes and *Kink* to include the poorest and disadvantaged in progress are each individually important elements of a desirable development agenda.

But making “development” exclusively about achievable, concrete, and non-political targets, as with the existing MDG agenda, necessarily tends towards goals that are *low* (e.g. “extreme poverty”) and *limited* (e.g. “completion of primary school”) and *specific* (e.g. a disease/cause of death approach to health).

We argue in favor of adding to the development agenda *ideals* that are *high* (e.g. reaching prosperity) *broad* (e.g. that each child enter adulthood with an education that equips them for life) and *systemic* (e.g. a health system that addresses the current and emerging health challenges in an effective and equitable manner).

Development goals frame the debate about the relative importance of the three basic approaches of *drive*, *shift*, and *kink*. If development is framed exclusively in terms of low, limited and specific targets this pushes the development agenda towards a focus on “kinky development”: targeted transfers and narrow interventions designed to reach the poorest of the poor in the poorest places. There is no question that these instruments are one *part* of the development agenda, but, as we show, they are only a small part of the progress that is needed over the coming decades. Levels of well-being—such as incomes, education outcomes, health status, sanitation, access to basic infrastructure—are inadequate even for the middle of middle income countries, not just the poorest in the poorest.

A development agenda should include *both* low and possibly universally achievable time-bound goals like the eradication of extreme poverty (at a poverty line of \$1.25 a day) and universal completion of primary school but also a clear statement of ideals like reduction in “global poverty” with a poverty line set near current OECD standards for poverty at \$12.50 per day, an education goal that all children should reach current OECD standards of learning, a health goal that addresses not just mortality but the health systems’ impact on quality of life and financial risk and infrastructure goals (e.g. access to reliable electricity, functional water and sanitation).

Such Millennium Development Goals will require a combination of two things: *shift* both increasing the quality of outcomes of all people at a given level of national development and *drive* to increasing a country's level of national development. In achieving high targets for human well-being it is obvious that specific and sharply targeted policies and programs can make some, but limited, contribution.

Beyond The Low Bar for a Global Agenda: Development Goals for all Countries

The current MDGs are almost exclusively on 'low bar' targets.

Poverty. Target 1 was halving poverty, but with poverty defined by the penurious "dollar a day" standard. The "dollar a day" threshold had never before been a global standard for poverty. Moreover, it had never even been a widely used *national* poverty threshold, as nearly all countries have always had higher poverty lines¹.

A poverty line of \$1.25 a day is only \$450 dollars per person per year--which is about what a high school drop-out in the USA makes in a *week* (\$421). In 2005 the average of 15 European country poverty lines was \$13.4 dollars a day—more than ten times the "extreme poverty" definition. Of course, the *average* consumption in rich countries is much higher still. In 2011 the consumption of the average American was \$54 per day. Americans consume the *annual* "extreme poverty" consumption every nine days.

In 2006 90 percent of Americans thought a car and a washing machine were *necessities* of life--and more than two thirds added air conditioning to the list of necessities². While obviously "necessity" is a socially constructed notion, how, in a global world, do we insist that the citizens of the "developing" world keep their aspirations low?

There is a case for measuring and tracking "extreme" poverty—but it is hard to make the case that the definition of poverty that is accurately characterized as "extreme" should also be the *only* measure of global poverty³. Accepting exclusively a penurious poverty as the only development goal on income or consumption gains ignores the material well-being and aspirations of 5 billion people. Today roughly one billion people are above the poverty lines set by rich countries. Call these people prosperous. About one billion are in "extreme

¹ When the World Bank was first adopting "dollar a day" poverty as a metric for its World Development Report on Poverty in 1990 a principal internal argument in favor of the "dollar a day" poverty line was that it was so low no one could accuse the World Bank of padding the numbers of the poor. The "dollar a day" line was roughly the line being used by the 10 poorest countries in the world (Ravallion, Datt and van de Walle 1991) not a common or typical national poverty line (much less that of the rich countries).

² <http://www.pewsocialtrends.org/2006/12/14/luxury-or-necessity/>

³ The expedient of having a low global line plus national lines is an awkward compromise as with no corresponding "high" global poverty line and one cannot aggregate a global poverty measure using each country's own poverty line—in part because this is incoherent and in part because many countries do not have an official poverty line.

poverty.” That leaves roughly 5 billion people who are poor by the standards of rich countries but not poor by the standards of the very poorest countries. Given the vast majority of people worldwide want to live in a country that is prosperous—and enjoy a decent standard of living—that means those five billion are “poor” by standards of prosperity to which they can legitimately aspire (Pritchett 2006).

Education. The current education MDG target is worse as it is really not even an education goal. Target 3 was “Completion of a full course of primary school” without reference to education beyond primary, or technical skills, or higher education—and even without any standards or measurement of the actual content of the education as learning—in terms of capabilities, skills, dispositions or any metric of what was actually acquired during school.

Many children finish primary school having acquired few life skills. In India net primary enrollment rates are 96% but in 2008 an independent assessment found that only 27 percent of children who with five grades of primary school had mastered four basic skills: reading a simple (grade 2) passage, doing a division problem, telling time and handling money.

An education goal should be an education goal and certainly everyone should be able to read a simple paragraph and understand it. But they also ought to be able to write a letter or an email to apply for a job, or ensure the delivery of a pension that they are owed. They should be able to understand basic household accounting, and the village budget, and the rights they are guaranteed by their constitution. In other words, they should have a level of functional literacy and numeracy far in advance of the most basic reading comprehension and far in advance of what most children currently receive out of primary education.

Nearly all industrial countries are worried that their own education systems are not adequately preparing their youth for the 21st century. Yet on assessments of capabilities like the OECD Programme in International Assessment (PISA) the average 15 year old scores near 500 across OECD countries. When two of the educationally more advanced states of India participated in 2009, their average scores on the reading assessment were 337 for Tamil Nadu and 317 for Himachal Pradesh—scores that would put the average Indian student performance in the bottom percentiles in any OECD country. All international assessments find most middle income countries such as Indonesia, Brazil, Colombia, and South Africa have average assessed outcomes almost 100 points (a full student standard deviation) behind the OECD. Is there any reason why, in a global economy, Indian and Indonesian and Brazilian parents should not aspire for their children to have learning on a par with children in the now rich countries?

Gender. The gender goal was reduced to equal attainment in school⁴. It is notable that this goal is on track to be met in countries including Egypt, India and Yemen; countries that some may argue still face at least some challenges in gender equality.

Health. The health goals focused on diseases of the poorest countries (Malaria, HIV, TB) and types of mortality that are particularly high in poor countries (child and maternal). When it comes to health, beyond a basic package of preventative interventions and an adequate diet, wouldn't we want everyone worldwide to be able to access treatments from antibiotics through anti-retrovirals to basic surgical procedures for emergencies?

Achieving even a new proposed 2030 'zero goal' of under-five mortality of 20 per 1000 would represent incredible progress for many countries, but it would still leave those countries with a mortality rate four times higher than the *poorest* quintile in Germany.

Infrastructure. Under MDG 7 of "sustainability" target number 10 was to reduce by half the population without access to an "improved" water source and "basic sanitation" with both defined in a very limited ways. The water target is met by people using public stand pipes or who carry all their water from a dug well. We have never met anyone who didn't aspire to piped water that saves the time and effort (mostly borne by women) from the arduous task of all the water the household uses every day.

Using improved pit latrines counts as meeting the goal of "basic" sanitation. Again, we know of no one who regards using a pit latrine as the culmination of their sanitation related development aspirations.

The MDGs contained nothing about other elements of infrastructure such as electricity—a key to a modern lifestyle—or access to roads.

And, as has been widely noted, the goals did not include a range of other elements of the quality of life including access to quality housing, measures of personal security, liberty, and so on.

We are not against the low-bar MDGs. Achieving the low-bar development targets is extremely important and urgent. It is obscene that in our modern world of such incredible productivity and plenty children die of diseases that can be prevented or cured for a few cents, and that many who survive grow up stunted from lack of nutrition or decent sanitation, or that children are unable to attend school. *One* set of the global community's goals should be to end such avoidable deprivation.

But low bar goals cannot be the *only* measures of development post-2015. Reducing the most extreme of deprivation is just the beginning, not the end, of development. Surely no one should live on less than \$1.25, but the *only* global goal on poverty cannot be a floor of \$1.26.

⁴ Perhaps they were channeling Bob Dylan: "A self-ordained professor's tongue, too serious to fool, spouted out that liberty, was just equality in school."

People who live on \$1.26 a day still face unconscionable tradeoffs in everyday living, between sending kids to primary school with the right uniform or with a full stomach, or buying a bed net for the infant or antibiotics to cure their sibling's illness. Surely every child should complete primary school but that cannot be the *only* development goal for education. Certainly they want to have learned *something* while in school. Living on \$1.26 a day in walking distance of a dug well and a functioning pit-latrane while having children with some schooling is not a reasonable characterization of the goals of human progress for the 21st century or even a working definition of development. A late-Victorian social agenda cannot be the guide for international system in the 21st Century.

The risk of low bar development targets is that they do not provide a definition or measures of development that the middle income countries of the world (and nearly all the biggest developing countries are now in the World Bank's "middle income" category) can adopt for their own national agendas. In contrast, a set of Millennium Development Ideals could frame further progress for all countries.

For example, the current goals might have resonance as a development agenda for Liberia –a country with primary completion of only 66%, and \$1.25 poverty at 84% of the population.

But these low bar goals are increasingly less relevant for the largest developing countries like China, India, Brazil, Indonesia, Vietnam, or Egypt. Indonesia has primary enrollment rate of 109% and an extreme poverty rate of 18%. Why would the BRIC countries buy into a set of global goals for development that are of limited relevance to their own national agendas of development?

And of course, as global goals, \$1.25 poverty or primary completion make no sense at all for a country like the UK. With development ideals incorporated alongside minimum standards in a goal system, it would be understood that the minimum goals are provisional –way stations on the road to a truly 'developed' planet.

The post-2015 development agenda should include measures of what, in a better world, every human should enjoy. These need not be realistic targets for every country to achieve by 2030 but can have indicators that track and measure progress towards these aspirations. And meeting such goals will demand a broader focus of development efforts beyond targeted transfers to the world's poorest, as we shall see.

Two Definitions of Development

Part of the confusion in discussing "development" is that there two fundamentally distinct uses of the word.

One use of the word "development" takes the fundamental unit as a human being and defines "development" as a better quality of life. These indicators can be along a single dimension (e.g. education, health, freedom, consumption) or an omnibus measure (e.g. reported life satisfaction or happiness) or aggregate of dimensions (e.g. multi-dimensional

poverty). Any full accounting of individual quality of life of course involves elements that are intrinsically social (equal treatment by others, dignity, friendship) but these too are measured at the level of the individual (even if only subjectively).

Nearly all of the original MDGs are fully individuated. For these measures of development aggregation across individuals is a convenience and not an essential part of the definition. That is, can talk about the income or education or access to water of a single person or the average income of all households in La Paz, or the average of all households in Bolivia or the average of all households classed as indigenous in Bolivia, or the average in Latin America—but in each case the fundamental unit is a human being and their allocation to a category for aggregation is *conceptually* arbitrary.

Any aggregation of measures of individual well-being produces a *distribution* of development outcomes across individuals—some people are happy, some people sad, some have lots of income, some have little. Many of the alternative measures of development as individual well-being are different ways of summarizing the distribution—the proportion below some threshold (e.g. headcount poverty) or the gap below a threshold or an average⁵.

The other common use of “development” takes the features of the *society*—usually but not necessarily a nation-state—as the fundamental unit and the individual in this case is a participant in this broader whole. This distinction of individual and society is clear for measures of polity—the way in which a political sovereign is governed. One can measure the properties of polities—such as whether the executive is popularly elected—and class them as more or less “democratic” for instance. This is fundamentally (ontologically) about a collection of human beings organized politically and cannot simply be added up from the characteristics of individuals. The same is true of laws. Individuals do not have laws, they are subject to (or not) laws. Institutions, when defined as rules and norms, are clearly something that people *participate* in as a collectivity rather than exclusively a feature of individuals.

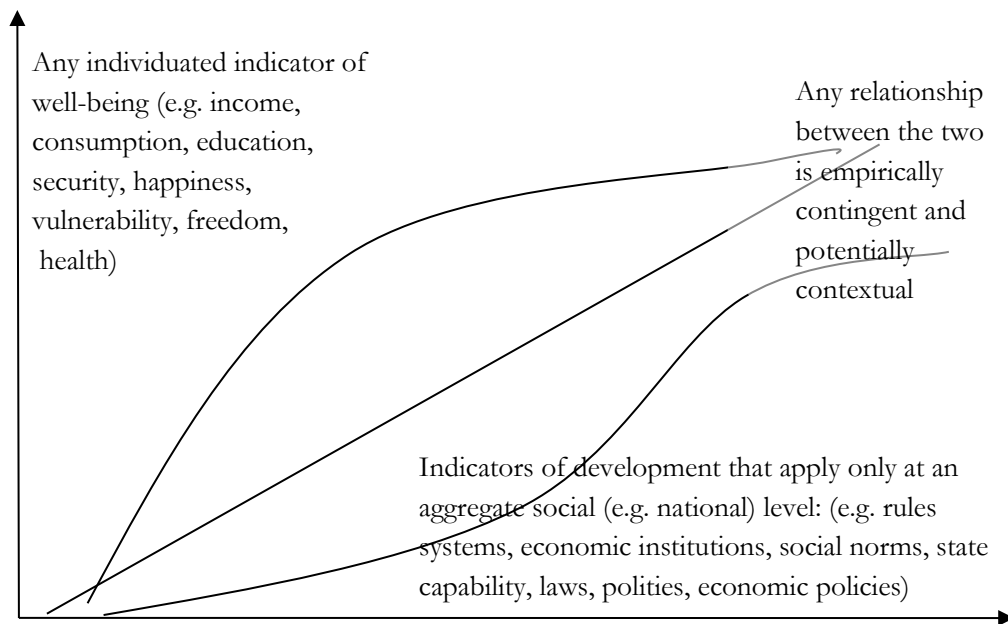
An “economy” is a set of rules that condition the transactions that individuals engage in and how they organize their economic activities. The productivity of an economy is not the simple sum of the intrinsic productivities of the individuals and assets but rather depends on features like the laws and institutions and tacit “know how” that are not merely the properties of individuals. This has been shown empirically that measure of national economy’s physical and human capital can only account for about half of the labor productivity differences across countries with the rest attributed to a “social capability” (Hall and Jones 1999) or a residually defined measure of ignorance like *national* “total factor productivity” (Casselli 2004). As Hausmann and Hidalgo (2011) has shown the total capability of a society is not a linear sum of the individual capabilities but depends on how those capabilities are networked into an aggregate. That productivity is a feature of place and not just person is best illustrated by migration as, when an individual moves from one

⁵ This can also be extended to dynamics over time so that measures like “vulnerability” to poverty (or other measure of deprivation) can be calculated (e.g. Suryahadi, Sumarto, and Pritchett 2002).

national economy to another their wage (which at least loosely reflects their productivity as an individual) can increase by 10 fold or more, merely because they are participating in a more productive national economy (Clemens, Montenegro and Pritchett 2008).

Measures of national development include economy productivity, responsiveness of the polity to its citizens and respect for rights (e.g. measures of democracy or political and civil rights), capability of the state to maintain and enforce rule of law and deliver on services (e.g. measures of bureaucratic quality, lack of corruption, rule of law), and equal rights across social groups. Features that people debate as characteristics of nation-states that are “successful” in national development include transparency, accountability, freedom, rule of law, property rights, low corruption, free and fair elections, and open trade—none of which are the properties or characteristics of individuals.

Figure 1: Two different definitions of development are not competing but are of a fundamentally different character—one is about individual and another about societies—one can take as the only normative ranking as the individuated measure of human well-being and the national measures as entirely instrumental



We regard measures of the (ontologically) non-individuated features of nation-states as one definition of national development. Measures of aggregated well-being that can be measured at the individual level and national development (even if highly correlated) are not competing measures of the same thing but measures of conceptually distinct phenomena. That is, GDP per capita is a spatial measure and average consumption expenditures is an individuated measure. GDP per capita is not a good or bad *measure* of human well-being, it isn't a measure of human well-being *at all*. GDP per capita is a measure of the average product in a given space (and hence can be calculated for cities, states, regions, etc) and its relationship to

measures of human well-being is empirically contingent on casual pathways into measures of human well-being.

Table 1: A numerical index of National Development using measures of economy, polity, and state capability, values in 2008, scaled from 0 to 100 for each of the three

Lowest Quartile (Below 14.3)	Lowest three	SOM	0.0	ZAR	2.8	AFG	4.2
	Highest three	VNM	14.1	TZA	14.2	MOZ	14.3
Second Quartile (14.3 to 28.1)	Lowest three	MDG	14.6	NPL	14.8	MRT	15.3
	Highest three	TUN	27.4	FJI	27.5	MNG	28.1
Third quartile (28.1 to 50.65)	Lowest three	IRN	28.1	BOL	28.2	PHL	28.3
	Highest three	BWA	49.4	URY	49.5	CRI	50.7
Highest (Above 50.65)	Lowest three	CHL	54.9	POL	55.2	HUN	59.8
	Highest three	USA	90.1	CHE	90.7	NOR	98.4
National Development Index for the world's largest developing countries (with more than 100 million population)							
			NDI Score (0 to 100)	Quartile			
	China	CHN	20.3	Low middle			
	India	IDN	25.6	Low middle			
	Indonesia	IND	29.3	Upper middle			
	Brazil	BRA	40.6	Upper middle			
	Pakistan	PAK	19.2	Low middle			
	Nigeria	NGA	17.3	Low middle			
	Bangladesh	BGD	15.9	Low middle			
	Mexico	MEX	46.5	Upper middle			

Sources: Authors' calculations of a National Development Index as equal weighted multiplicative index of GDP per capita in PPP, Democratic Capital, and State Capability.

For our empirical illustrations below of the relationship between “national development” and normative indicators of human well-being, we create a National Development Index (NDI). This combines three elements of development—economy, polity, and capability by using (a) measures of GDP per capita, (b) the Polity IV measure of democracy less autocracy as a measure of the responsiveness of the polity, and as a measure of state capability we use either (c1) the Quality of Government measure (which combines measures of “rule of law” and “control of corruption” and “bureaucratic quality”) or (c2) the “Government Effectiveness” measure from the World Governance Indicators⁶. The polity and state capability measures are converted into smoothed values by summing depreciated values starting from 1990 (except for GOE which starts only in 1996). Each of the three measures (GDPPC, democracy and capability) is transformed to a 0 to 100 scale using the overall maximum value in the data (which scores 100) and minimum value (which scores a 0) for each measure. Finally, the values for the economy, polity, and capability are multiplied

⁶ The measure is described in greater detail in Pritchett (forthcoming).

together using equal weights. This produces an overall National Development Index (NDI) with possible values from 0 to 100 and we only use the data for the years 2000 to 2008.

We are not proposing that this particular index of national development is the only or even the best index—in fact we just built the simplest possible index with no experimentation or fudging or fitting to data so it is almost certain that it isn't the “best” for any given purpose. But this a measure of development phenomena that are *intrinsically* national. This measure of national development includes measures of how a polity is governed and the capability of the administration of the state. We wish to avoid, at least for present purposes, the debate between “economic growth” as an instrument for improving well being and “everything else” which we believe is not a fruitful way to parse things. Rather we want to focus on a three-fold distinction between “national development” (including economic product but also polity and capability), overall sectoral performance and changes in distribution of benefits across individuals.

The Analytics of Drive, Shift, Kink as Strategies for Progress

Development ideals set high targets for achievement of human well-being, at a level on the low end of that already achieved in rich industrial countries with high levels of national development. With any given target on human well being one can analytically decompose the achievement of that target into one of three causal mechanisms:

Drive—the transformation over time towards greater national development (with our NDI as only one possible measure) that may lead, through a variety of causal pathways, to improvements in the level and distribution of individual well-being.

Shift. Measures of individual well-being, like health status or education or access to sanitation or access to electricity or poverty can shift up even when the level of national development stays the same. We define a “shift” as an improvement that affects people at all levels equally. This “shift” can be of all countries over time (e.g. health improves at all levels of income) or of countries relative to each other.

Kink. Some efforts to improve well-being can be targeted so that the distribution of well-being improves more (or perhaps exclusively) for those at the low end. We call this “kink” because, by definition, the impact is limited to those below some threshold and hence the impact is kinked at some (or multiple) point.

Progress towards achieving any threshold goal, especially goals like “fraction of the population below X on a measure of well-being” can be empirically decomposed into how much progress was due to *drive*, *shift* and *kink*. That is, at any given point in time there is a distribution across all individuals of any measure of well being. That distribution changes over time, both in its central tendency (e.g. mean, median), in its dispersion (e.g. variance, range, inequality) and in the shape of the distribution (e.g. how the lowest and highest tails of the distribution are shaped, whether or not the distribution is symmetric). As pure *accounting* for those changes, without any attribution of causality or causal pathways due to specific

policies or programs, the change in any indicator from one period to the next can be decomposed into the change due to (a) the shift in central tendency of the distribution leaving the dispersion and shape of the distribution unchanged and (b) the change in the indicator due to the change in the distribution (which can be further divided into shifts in dispersion and shifts in shape).

Our analytical distinction of *drive* and *shift* is just a decomposition of the shift in the central tendency of the distribution with unchanged distribution into that part consistent with a shift in national development (however measured) and that part which is a location of the distribution of well-being on a particular indicator relative to the value predicted at its level of development.

Figure 2 illustrates this simple point by taking the national level aggregates of an indicator of schooling (the years of education of the population 15 and over) and of health (survival to age 5). These are converted to a zero to 100 for the year 2008. These two indices of human well being can be compared across quartiles of NDI.

The countries with the lowest levels of the NDI (average ≈ 10) have a median Schooling Index of only 26 and health index of 45. The next quartile of countries has an average NDI of about 20⁷. The Schooling Index for those countries is 50.9—about double, an increase of about 25 points. The Health Index for those countries is higher by 28 points—increased from 45.5 to 73.6.

Conceptually the gain in any indicator from “drive” and improvements in an index of national development is just the component of the improvement due to the typical causal impacts—through multiple channels—due to improving NDI. As any indicator of national development includes multiple elements of economy, polity, capability (and potentially other dimensions like equality of social treatment) there will be multiple causal pathways for this improvement and each country will likely trace out a different path. There are surely causal relationships from some measures of individuated human development to some components of the NDI. (We are not now making any specific assertions about causality but are just illustrating the patterns of associations amongst these two conceptually distinct measures⁸.)

Figure 2 also illustrates that there is substantial dispersion even for any given level of our National Development Index. Of course if there is a linear relationship between the two the

⁷ The NDI quartiles are not exactly the same because some countries have under 5 mortality but do not have schooling data so the samples are not exactly equal.

⁸ While we are not going to address the causality question in any deep way (in part because there is no general resolution as it will be very different for different indicators of well being and in part because with current techniques there is not going to be any empirically compelling resolution) but it is worth noting that when the question has been addressed for health (Pritchett and Summers 1996, Johnson and Acemoglu 2007) and education (Bils and Klenow 2000, Benhabibi and Spiegel 1994) most or all of the short to medium run (e.g. up to 10 year) causality appears to run from national measures like GDP per capita to well-being indicators if for no other reason than the long-lags between say, schooling and child mortality improvements, and increased output.

grouping into quartiles exaggerates that as countries with quite different NDI values are in the same quartile. But at any given level of any measure of national development there will be some countries doing well on any given indicator of well-being (e.g. education, health, happiness, rights, freedom, life satisfaction) and some countries doing worse.

It is possible to “shift” the entire distribution of well being on a given indicator up even without any improvement in overall NDI though greater sector emphasis or improved policies or implementation or perhaps larger budget allocations (though this might of course come at the cost of poorer performance on other indicators).

Over time it is also possible to shift upwards the relationship between individuated elements of the quality of life and the NDI across countries. This is perhaps easiest to see in the case of health: new technologies like vaccines and the spread of practices like hand washing have significantly reduced mortality in countries at a given level of income, quality of government or polity score. This is true of other technological shifts that create differential sectoral improvements—the advent of cell phones have, for instance, created massive advances in telephony access at all levels of NDI.

To illustrate the potential for “kink” to improve well being of those at the bottom of the distribution we need to show not just a single national summary statistic of well being (e.g. average years of schooling, those below 6 years, etc) but the entire distribution.

We will do a simulation exercise where one can think of the indicator as being “schooling” or “health” (as we will roughly calibrate it to the schooling and health index values in Figure 2) but where the general points are true of any individuated indicator of well-being (e.g. education, health status, quality of sanitation, freedom, consumption, happiness, benefits from infrastructure, etc.). For each of four levels of a national average (representing the four quartiles) of the indicator we generate a distribution across individuals using, for simplicity’s sake, a Gaussian Normal distribution with an underlying variance across individuals. Within the same country some individuals have high levels (higher than the average in a much higher average country) and some have low levels. We truncate this distribution below at zero.

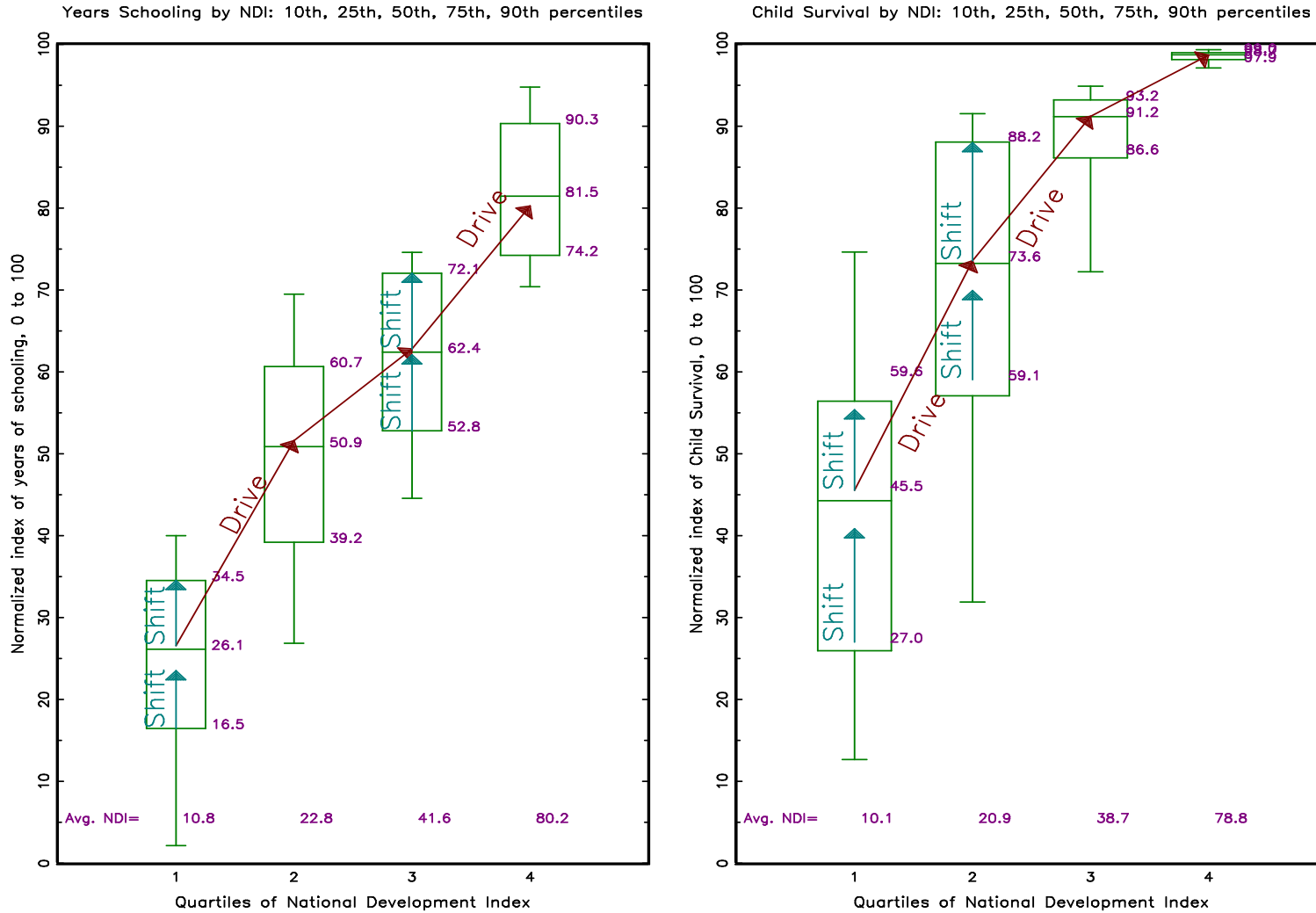
Relative to that distribution we can imagine three possible ways in which this distribution gets better.

One is *drive*, the whole distribution, without changing shape, rises to the level of the next highest quartile of NDI (calibrated to either the schooling or health results above).

One is *shift*, that the whole distribution shifts upward by the magnitude of the shift from the median country to the 75th percentile (calibrated to the schooling or health results above) within its quartile of NDI.

The third is *kink* which is to identify those below some threshold of the distribution and bring those up by a given amount. In our simulation we take a low bar threshold as the

Figure 2: Illustrating the analytical decomposition of the shift in national aggregates of indicators of well-being of schooling and health into movements upward with increased national development (Drive) and overall improvements for a given level of national development (Shift)



Source: Author's calculations as described

average of the lowest quartile of countries. We then target a program/transfer/policy to those individuals below that threshold and raise their outcome by an amount (that can be tuned, but which in the figures below is half of the average of the lower bound).

For each of these three scenarios of drive, shift, kink we calculate the improvement in three indicators of deprivation for each of two lines—a low bar line and an ideal goal⁹.

Headcount. This is the percent of the population that is below the threshold of either “low bar” or “ideal.”

Gap. This is the average distance those below the threshold of those below the threshold. This takes into account that in a “headcount” measure if the threshold is set at 26 then 25 and 14 both count the same—even though the person at 25 is much better off.

Squared intensity. This is the average of the square of the gap below the threshold normed by the threshold. This gives more weight in calculating deprivation to those the furthest below the threshold (by squaring the gap).

Figures 3a,3b and 3c present the base case and three scenarios (drive, shift, kink) for each of a representative country at the average of the three quartiles of “developing” countries.

These simulations illustrate four key points.

First, significant progress in on low bar goals in all three types of countries can be made with “kink” instruments. We are not calculating costs and benefits, but targeted transfers (or programs in education, health, sanitation, etc.) can be effective (if not efficient) in increasing the well-being in those dimensions of the least well off.

Figure 2a (with low NDI countries) illustrate the changes in the distribution with a “kink” instrument as a simulated transfer pulls those at zero up to a positive value and creates a lump in the distribution just above the low bar threshold by pulling people up to that level (or just above).

But since the fraction below a low bar threshold are smaller in higher NDI countries kink instruments affect fewer and fewer people. So the “headcount” (in these graphs below an education threshold) is reduced by 63 percent by a “kink” in low middle NDI (quartile II) countries—but that is from 4.3 to 1.6 percent of the population.

Second, “drive” and “shift” also produce big improvements in the well-being of those who start below the low-bar threshold. Increases in NDI that led a country to have the typical performance of countries with equivalent levels of national development would also be associated with significant improvements in the well-being of the least well off. In the “low

⁹ These are of course the exact analogues of FGT(α) poverty indices for $\alpha=0,1,2$ (Foster, Greer, Theorbecke 1984).

Figure 3a

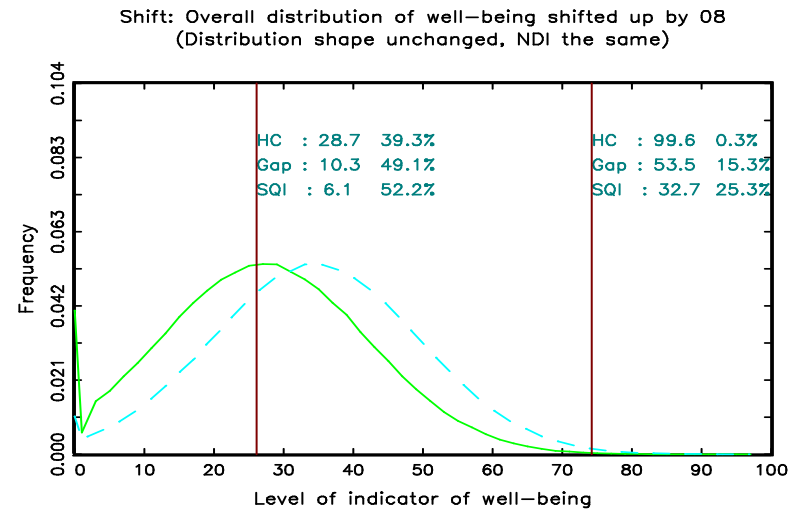
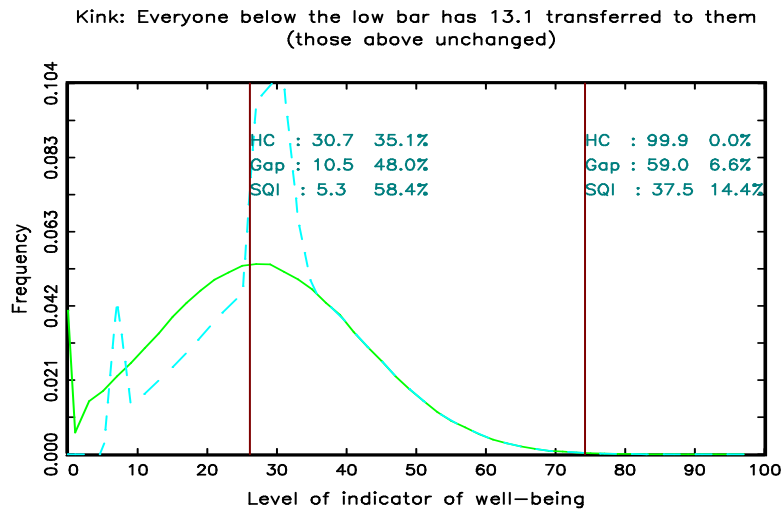
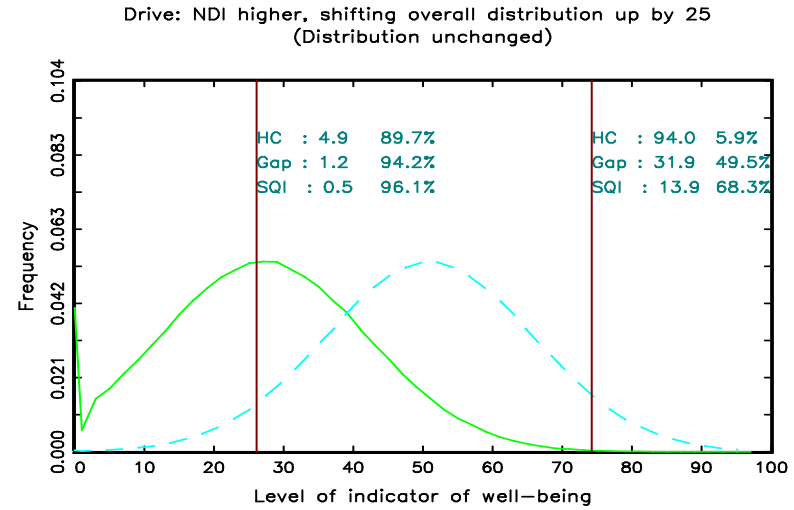
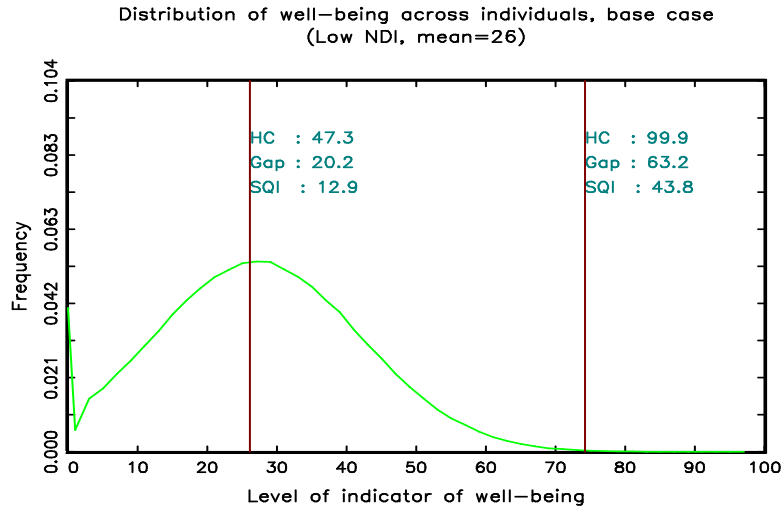


Figure 3b

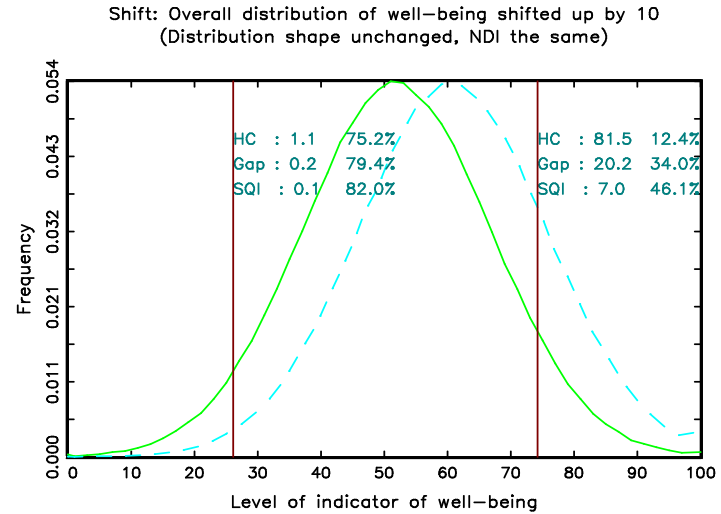
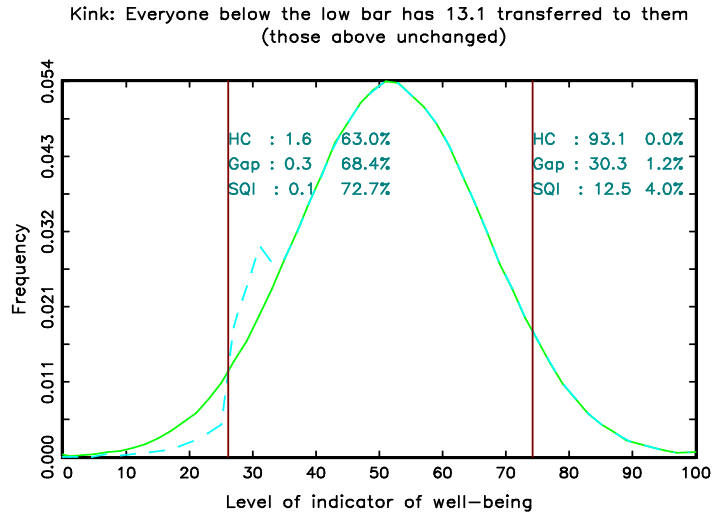
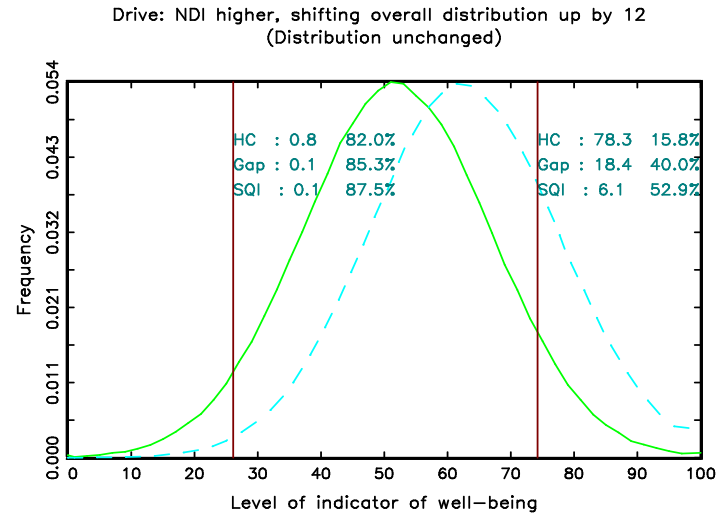
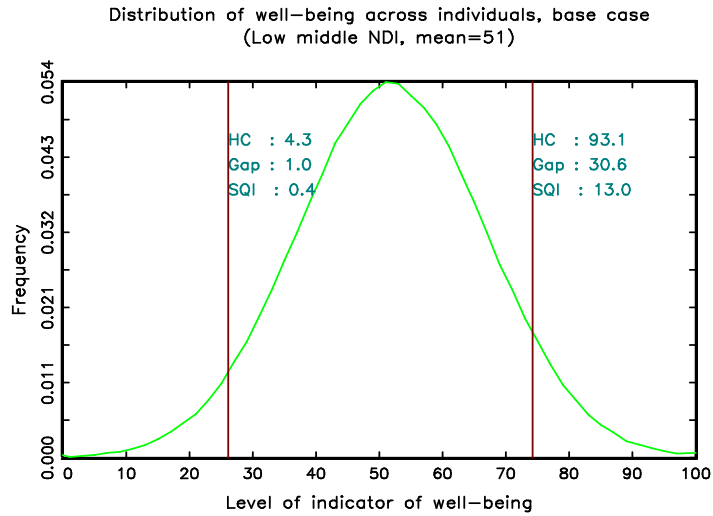
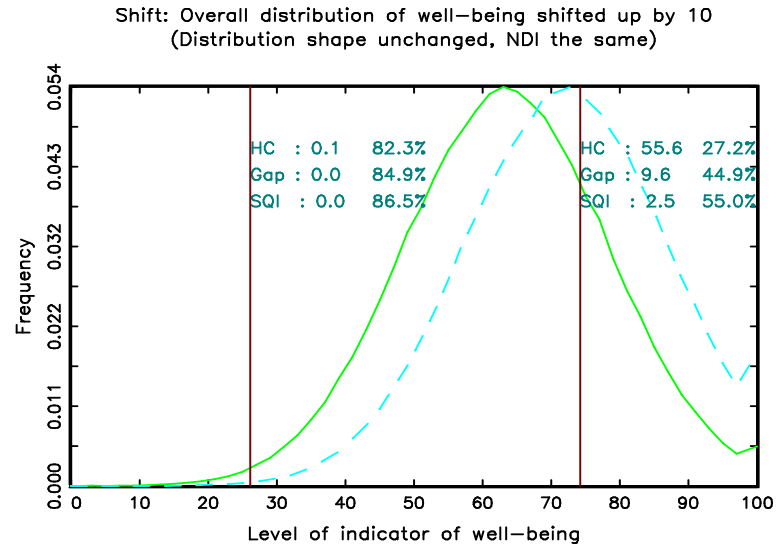
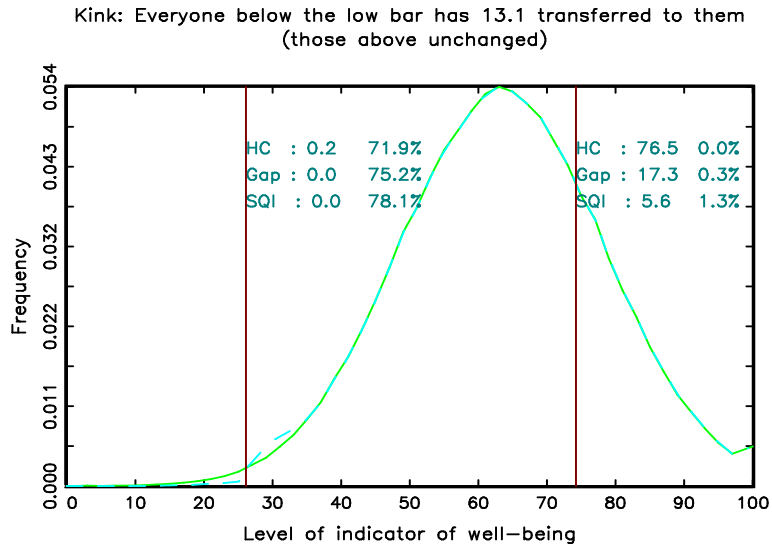
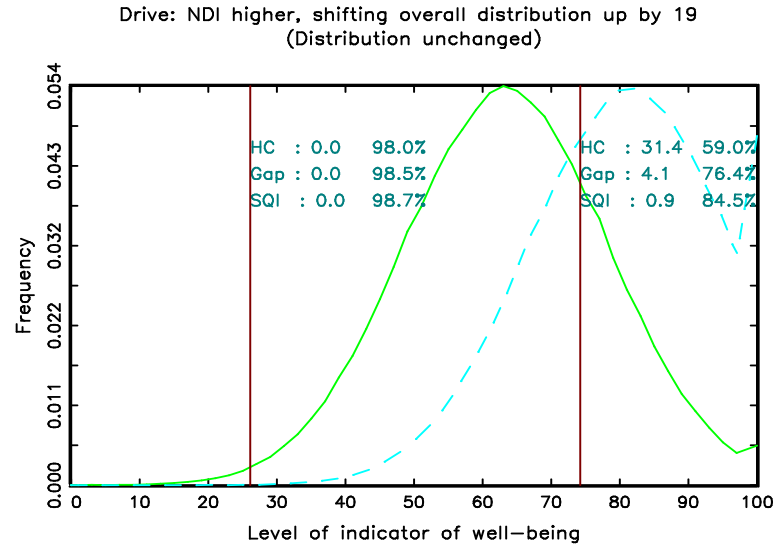
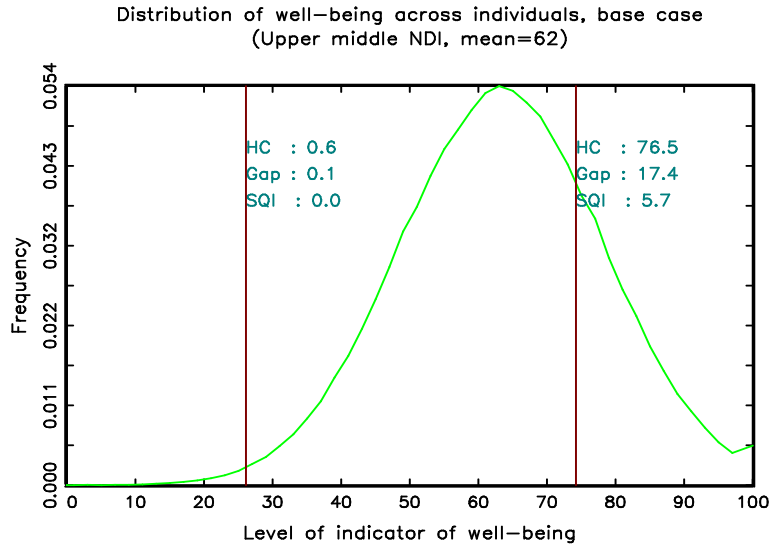


Figure 3c



income” case gains from national development of 10 (e.g. Ethiopia, Rwanda) to 20 (e.g. Pakistan, Senegal) that produced a shift of 25 points (the difference in the education index between these quartiles of NDI) would be associated with the fraction of the population below a low bar threshold of 26 falling from 47 percent of the population to just 4.9 percent. Improvements for a given quartile of NDI from the median to the 75th percentile would also produce massive reductions in “headcount” of those below the low bar threshold.

Note this simple simulation model is not intended to assess the trade-offs between drive, shift, and kink. These questions can only be answered in the particulars of costs and benefits of specific instruments. Moreover, there need not be any trade-off in general as an overall strategy for addressing the least well off globally will involve all three types of instruments.

Third, low-bar global goals are increasingly irrelevant to countries in the “middle” of the NDI distribution. In these graphs we set the low bar threshold at the average of the bottom quartile of countries. For lower middle NDI countries only 4.5 percent of households are below that level, for upper middle countries less than one percent.

The policy agenda of countries cannot be defined solely, or even principally, in terms of its impacts on less than 5 percent of their population.

Fourth, if one defines high goals or ideals, taking for instance the 25th percentile country of the highest NDI countries as a standard (that is, getting to the low end of “developed” like Chile or Hungary), then “kink” instruments can play little or no role in progress towards those goals—even for the lowest income countries.

On one level this is obvious as kink instruments by definition cannot lower the headcount for high goals at all. But this illustrates why headcount like goals are, in general, dubious welfare metrics.

But the Squared Intensity Index is meant to give big weight to gains to the worst off (as the gain counts in the aggregate by the square of the distance from the goal). However, even for the poorest countries the kink instrument only produces a 13 percent reduction in the SQII whereas the “shift” of 8 points produced a gain of 25 percent and the “drive” to the next quartile produced a gain in the squared intensity measure of 68 percent. Again, the numerical specifics are just illustrative but the point is that even if one puts the most importance to the gains of the poorest within each country broad based gains still produce large reductions in measures of deprivation. But this is asymmetric: kink instruments *cannot* have equivalently large impact on high bar goals.

If developing countries have aspirations to have levels of well-being for their citizens at even the lowest levels of the rich countries then it has to come about through broad based improvements—either through “drive” in national development or in “shifts” in sector performance.

These four points are just arithmetic. Somewhat complicated arithmetic, but the results are nevertheless the inevitable consequences of facts about distributions and arithmetic. The facts are that (a) levels of indicators of well-being differ massively by levels of National Development, (b) there are big differences across countries (and time) *on average* in levels of well being (even for a level of NDI) and (c) these cross-national differences are large (in our simulation) compared to the differences across individuals within countries. Those three facts built into *any* framework with *any* indicators of well being will (re)produce our results.

The lower the goal the more attractive are the tactics of “kinky development” of using targeted programs to improve just the lower tail. If the target is set low enough, then only efforts of reaching the poorest or most disadvantaged people in the poorest countries can make any difference, as nearly everyone in most countries is already above the bar.

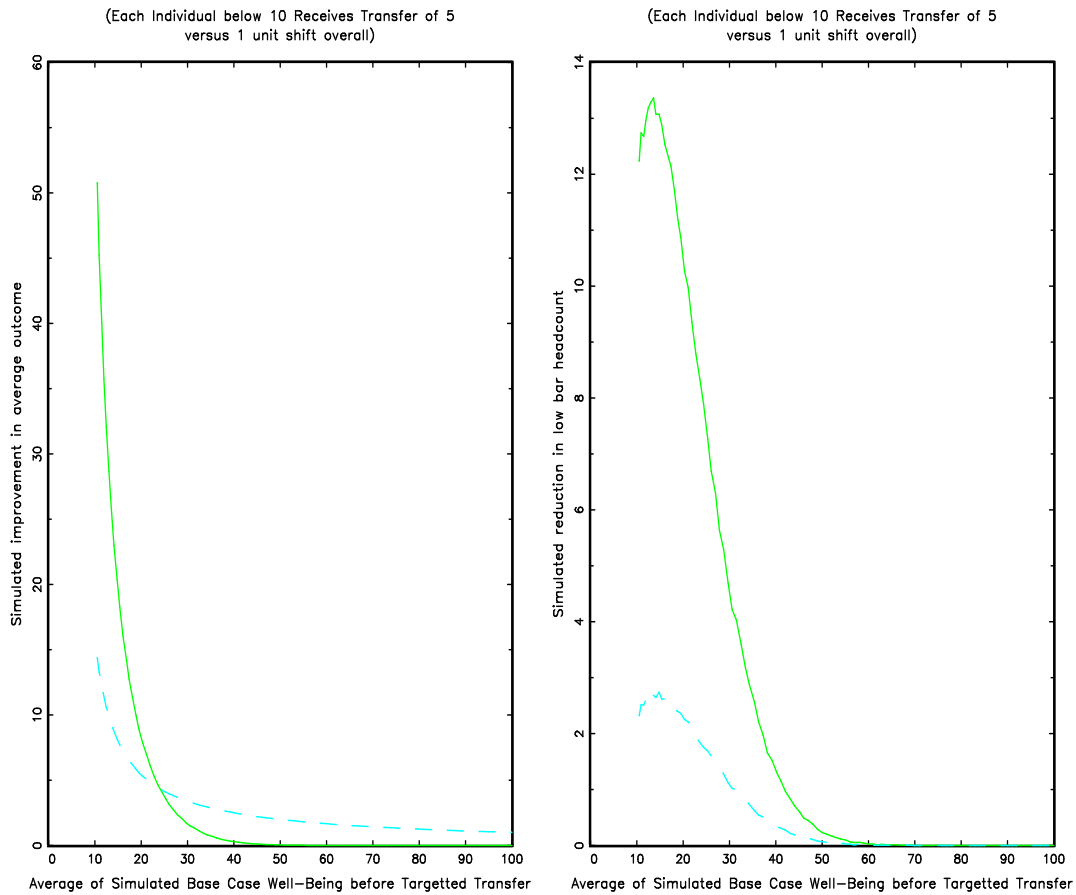
Conversely, if the bar is set high then it is similarly obvious that “kinky development” cannot be enough to reach the target. That is, if the person of average income has learning outcomes or health outcomes or infrastructure access quality or consumption expenditures below an international target then programs that bring the poorer near the performance of the typical person—while they do improve well-being—do not contribute enough to bring a country towards the target. With high targets essentially only drive and shift can play a role.

Figure 4 shows the percentage improvement in the average of our simulated well-being measure across levels of national development (which is assumed to be the average of the well-being indicator) from a transfer to all people below the threshold of 10 who are each given half that magnitude. When the average is very low this obviously causes a large increase. But even by the time the pre-transfer average is 20 the average gain is only about 5 percent.

We are trying to illustrate the distinction between “inclusive development” and “shared prosperity” as a description of development goals—in which gains for nearly everyone in measures of individual well-being are counted (perhaps excluding only the interests of the globally prosperous) versus low bar development like the MDGs. Low bar targets create the possibility of gains—and even achievement of goals—through “exclusive” means. That is, it is possible that sharply targeted programs appear to be¹⁰ the most cost effective means of meeting low bar goals—even though these, by construction, exclude most people from their benefits.

¹⁰ We use the phrase “appear to be” as discussions of targeting often assume away the political economy of budgets and assume that a given budget can be re-targeted without any dynamic feedback on the magnitude of the budget for the program. This is naïve, at best, and simple formal models can show that “more for the poor is less for the poor” (Gelbach and Pritchett 2000). The superiority of targeted programs at achieving objectives cannot be made merely on the basis of static calculations of the gains from the hypothetical reallocation of a given budget.

Figure 4: Relative efficacy of targeted transfers versus overall shift in average outcomes and in headcount poverty



Source: Authors' calculations.

High Aspirations: Beyond Kinky Development

We illustrate the consequences of using exclusively low-bar MDGs versus a balanced strategy of low-bar and high bar goals with three examples: education, poverty, and health.

Education. The education target in the MDGs isn't really even an education target at all, it is just a schooling target—of completing a full course of primary education. As an organizing goal for a global education agenda this is both incomplete and completely distorting. There have been massive gains in education over the last 50 years and hence nearly all countries are at, or quite near, universal primary completion (Pritchett 2013). Of course very many countries were at or near that target even before the 'start' of the MDGs. This has been mainly due to a combination of "drive" and "shift" as enrollment and years completed have increased for all income and demographic groups over time.

But suppose countries had greater aspirations than that all children do time in school. Suppose we actually cared whether while in school children were helped to acquire the skills

and capabilities and dispositions that will help them thrive in their adult roles as parents and citizens and productive contributors. The rich industrial countries also focus on education and engage in periodic assessments of what children know, including the Programme for International Student Assessment (PISA) organized by the OECD. On these assessments of the skills of 15 year olds the instrument is normed such that the average OECD student scores 500. But suppose the developing countries only aspired that their children do as well as the *economically disadvantaged* children in OECD countries. On the PISA 2009 reading scale student the OECD students at the 25th percentile of a socio-economic index in their country—the disadvantaged of high NDI countries—scored 432.

Yet, as Figure 5 shows, the *average* scores in low NDI countries are much, much lower than the scores of even the economically disadvantaged in the OECD. Even the students from the 75th percentile and even in upper middle NDI countries have scores substantially lower than the OECD average: Tunisia 462, Thailand 469, Peru 432, Indonesia 447, Brazil 474. The arrows for selected countries represent a score one student standard deviation higher than the mean (which in a Normal distribution would be the 84th percentile of all students). Even in a highly advanced upper middle NDI country like Argentina the 84th percentile is less than the OECD 50th. Moreover, in many low NDI countries even the 84th percentile (which are the education “elite”) is lower than the typical socio-economically disadvantaged student in the OECD.

‘Kinking’ those furthest behind in each country to the country average would be completely inadequate, although there is more scope for improvement to higher standards at a given HDI (Honduras and Indonesia have roughly similar NDI—but learning outcomes are much better in Indonesia). But to make progress against even modest goals in student learning or capabilities requires either (a) *shift*: increases in average scores at a given level of NDI and/or (b) *drive* towards a considerably higher NDI.

While certainly access to schooling and a goal of completion of primary schooling are laudable goals, the principal problem with education in developing countries is not that “the poor” are excluded from quality schooling—it is that there isn’t quality schooling for (almost) anyone.

So, for instance, take a “kink” instrument that has gotten much attention in academic and developmental circles: conditional cash transfers (CCT). This provides cash transfers to families who are identified as poor but their continued receipt of the transfer is conditional on compliance with certain behaviors—one of which is almost always keeping children of the appropriate age in school. Starting with PROGRESA (now Oportunidades) in Mexico and its widely cited randomized evaluation(s) programs of this type have spread to Brazil and to dozens of other countries.

The CCT is a paradigm of the kinky development approach as it is focused on two low bar goals—reduction of income/consumption poverty (through the transfer) and keeping kids from poorer households in school (through the conditions of the transfer). Both of these are

read a simple standard II level text and only 53 percent can do a simple subtraction problem. So the *maximum gain*¹² from a CCT that produced universal primary completion would be an additional 1.75 percent of children able to read a grade II story and do subtraction¹³.

Even were an Indian CCT to take on the considerably (impractically) more ambitious goal of keeping all Indian kids in school through to the age of fifteen, this would have a limited impact on learning outcomes given the current quality of the education system. According to the PISA 2009+ results the 95th percentile of 15 year old children enrolled in school (so already a select group) in Himachal Pradesh (widely considered an educationally advanced state) is 443. So the top 5th percentile in a well performing state of India score lower than that of an economically disadvantaged child (25th percentile of SES) in well functioning OECD systems (e.g. Finland, Korea, Canada, Denmark). Adequate learning is just not a problem of “inclusion” of “the poor” or social disadvantage but affects nearly every Indian household.

Suppose India had a national goal of reaching the level of capabilities equivalent to a PISA score of 432. Even if CCTs did produce universal enrollment they would only play a very small role in achieving even this modest goal for education as the problem is not that “the rich” or “the middle class” have good schools and “the poor” have bad schools, the problem is a system problem and requires system solutions.

Poverty

In the international discussions of goals for poverty for a post-2015 world the leaders of the middle income developing countries should adopt a very simple approach: “We will agree to any standard for global poverty that all national leaders are willing to apply to their own citizens.” For instance, the High Level Panel report was produced by the leaders of Liberia, Indonesia and the UK. Each has their own national standard for poverty, but what are the “global” standards of poverty? Since there will a lower bound that defines “extreme” poverty and a set of national lines that each country uses for its own purpose and an upper bound, more specifically, what will be the upper bound poverty line? We think that David Cameron should mean by global poverty *exactly* what he means when he says poverty for citizens of the UK. More pointedly, why would President Yudhoyono accept that Indonesian citizens are *not* poor in a global sense at standards of living much lower than those at which Cameron

¹² This is a maximum gain as it assumes that the marginal child induced to remain in school by a CCT would have the learning profile of the average child. Obviously if children with worse learning outcomes or in worse schools in promoting learning drop out at higher rates then this assumption could be wildly optimistic.

¹³ This still may, or may not, be a cost-effective education intervention depending on how one treats the costs of a CCT. If one assumes that the CT (cash transfer) is going to happen and the only costs is adding a C (condition) to it then the incremental costs of adding a C to a CT can be low (just the administrative costs of following up on the enforcement of the condition) and hence even with tiny impacts adding a C to a CT can be cost effective. However, this doesn't speak to whether or not the CT was itself a cost effective intervention which has to be justified almost entirely on the cost-benefit calculus of the cash transfer itself (for a less terse explication see Pritchett 2004).

claims UK citizens *are* poor? Are Indonesians somehow less entitled to aspirations of material well being than British?

A global poverty line should be based on global standards. A broad development agenda with a low and high poverty line can focus on the inclusive agenda of raising six billion people into prosperity (and 1 billion out of destitution) as opposed to the exclusionary goal that makes only the gains for 1 in 7 people on the planet count.

The “dollar a day” standard (which has, with inflation become the “buck and a quarter a day” standard) was based on adopting as the global *low bar* poverty line a line that was the national poverty line of only the *poorest* of countries (Ravallion, Datt and van de Walle 1991). As a definition of “extreme” poverty or destitution this is an excellent definition. However adopting this as the *only* globally used definition of poverty creates a low bar standard that few countries actually accept for their own citizens as poverty lines tend to increase with development.

If a low bar poverty line is accepted as the *only* global definition of poverty used in global discussions then, as shown in the simulations above, instruments that kink the distribution of income by making transfers to poor individuals in poor countries could in principle (and sometimes in practice) produce significant reductions in extreme poverty or poverty relative to a poverty line.

‘Kinking’ development has had a significant impact on the quality of life in many parts of the developing world. For instance, Brazil has been very successful in reducing poverty even an environment of very modest income growth because of transfer programs and because its growth incidence has been progressive with higher percentage growth of incomes for those in the bottom half of the income distribution (Ferreira, Leite and Ravallion 2009). The *Bolsa Familia* cash transfer program in Brazil appears to have reduced the incidence and depth of poverty in that country. Transfers from \$18 to \$175 per month are provided to targeted households (and based on compliance with conditions related to health and education). The program has been associated with higher expenditures on food, education, and children’s clothing, higher school attendance and lower child mortality from causes including malnutrition, diarrhea, and lower respiratory infections (Rasella et al 2013).

But even for “dollar a day” poverty nearly all (up to 95 percent) of the variation across countries in the poverty reduction is associated with increases in average consumption (e.g. “drive”) and very little with changes in the shape of the consumption/income distribution across households (Kraay 2006)¹⁴.

¹⁴ The larger (and looser) question of the relationship between growth in GDP per capita and poverty is plagued by measurement issues as poverty is often calculated from household data that doesn’t align with national accounts data (Deaton 2005). For instance, in India much of reason that high GDP per capita growth has translated into relatively modest progress on poverty is that the household data on which poverty is measured shows much slower growth in average consumption expenditures than does national accounts consumption and

How is national development related to poverty? Not surprisingly, the answer depends entirely on how one defines ‘poverty’. Figure 6 shows the scatter plot of headcount poverty and NDI at various poverty lines with a linear splined regression so that the association of NDI and poverty is allowed to be different for each quartile of NDI. At a “dollar a day” poverty definition higher HDI is associated with sharply lower poverty but the slope falls off for upper middle income countries. So one could say “the impact of national development on poverty is lower the higher the starting level of national development.”

But using exactly the same data sources and headcount poverty definition but a five dollar a day poverty line the relationship is *exactly the opposite*¹⁵. Increases in NDI have very little association on headcount poverty at low levels (for the obvious arithmetic reasons clear from the simulations above) then has nearly exactly the same relationship for all higher quartiles of NDI. The “two dollar a day” fitted association (shown as a line but without the individual data displayed) is intermediate between the two as the lowest quartile gets less steep and upper quartile of NDI steeper than “dollar a day” and obviously the “ten dollar a day” relationship would be flat over a larger range¹⁶.

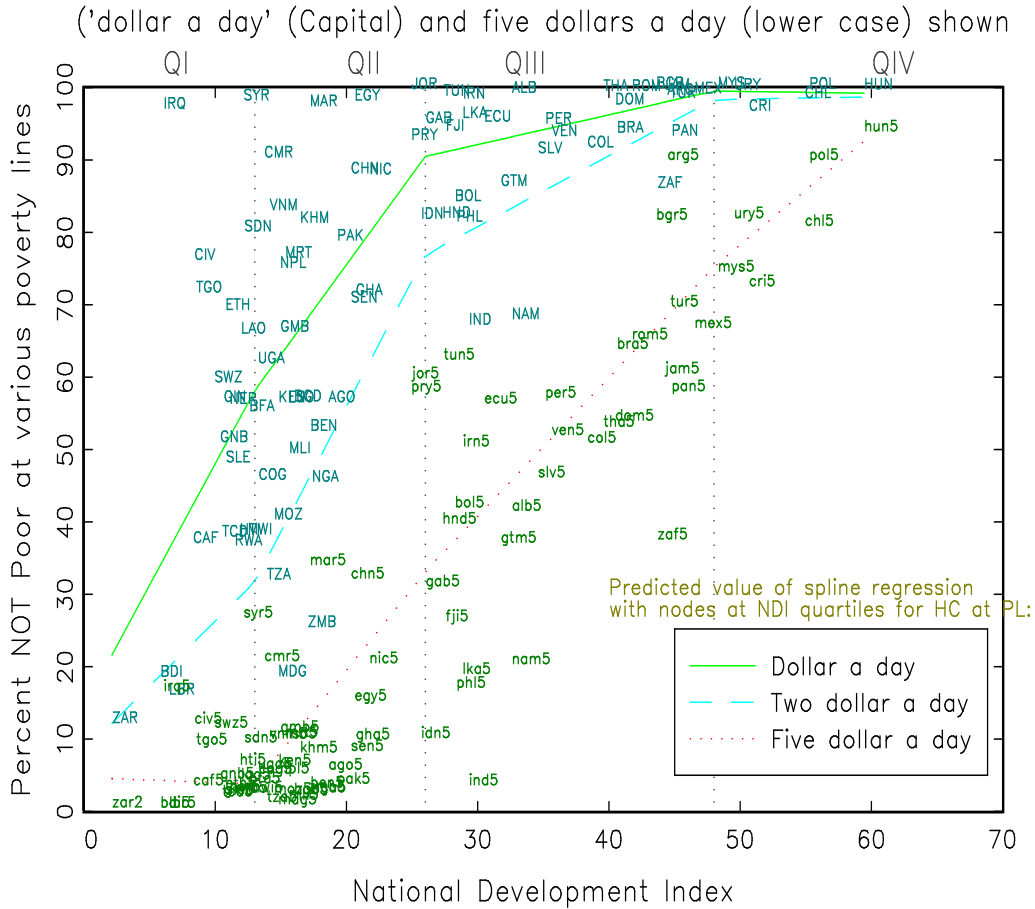
It is equally obvious that transfers among individuals within countries can do little for reducing headcount poverty at even modestly higher poverty lines, even for low NDI countries. As Ravallion (2010) shows, transfers within “middle income” countries (like India) can do almost nothing to cover the poverty gap. Likewise, Birdsall (2012) shows that since nearly all Indian households are below the four dollar a day line there is no “tax/transfer” scheme within India that can reduce poverty if poverty is defined at that level—which is still only a third of the poverty line of richer countries.

hence has little or nothing to do with the “growth incidence” (which in the household data actually benefits the poor more than the middle) (see Deaton and Kozell 2005).

¹⁵ Data on “five dollar a day” headcount poverty are taken by the authors from the World Bank’s PovCal website on May 26th 2013. This is exactly the same source as the officially reported “dollar a day” and “two dollar a day” figures.

¹⁶ This also illustrates the weaknesses in general of “headcount” as a poverty measure given its 0/1 intensity across a threshold, as a “gap” or “SQI” measure would better capture progress with higher poverty lines.

Figure 6: The relationship between “poverty” and national development depends entirely on the poverty line used—increases in national development are associated with more reduction poverty starting from high than low levels of development with a high poverty line and the opposite with a low poverty line



Health

Across countries, aid has helped ‘kink’ developing country outcomes by helping to expand bed-net access, for example. Gabriel Demombynes and Sofia Trommlerova (2012) of the World Bank estimate from household survey data that the proportion of kids across the region who died before their fifth birthday fell more than 4 percent per year from 2000 to 2010. They suggest a considerable part of that decline is linked to lower malaria deaths. In turn, the number of insecticide-treated bed nets in use in Sub-Saharan Africa climbed from 5.6 million in 2004 to 145 million in 2010, according to UNICEF, and most were donor-funded.

But kinking development still has limits. For all the successes of Bolsa Familia, for example, the latest data from the World Bank still suggests an under-five mortality rate in Brazil that is twice that in the US and that 11% of the population lives on less than \$2 a day—or less than

one fifth of the US poverty rate. And across countries, for all of the donor efforts to reduce child mortality through funding vaccination programs and bed net provision, low income countries still see a 9.5% under-five mortality rate—ten times higher than the 0.6% in high income countries¹⁷.

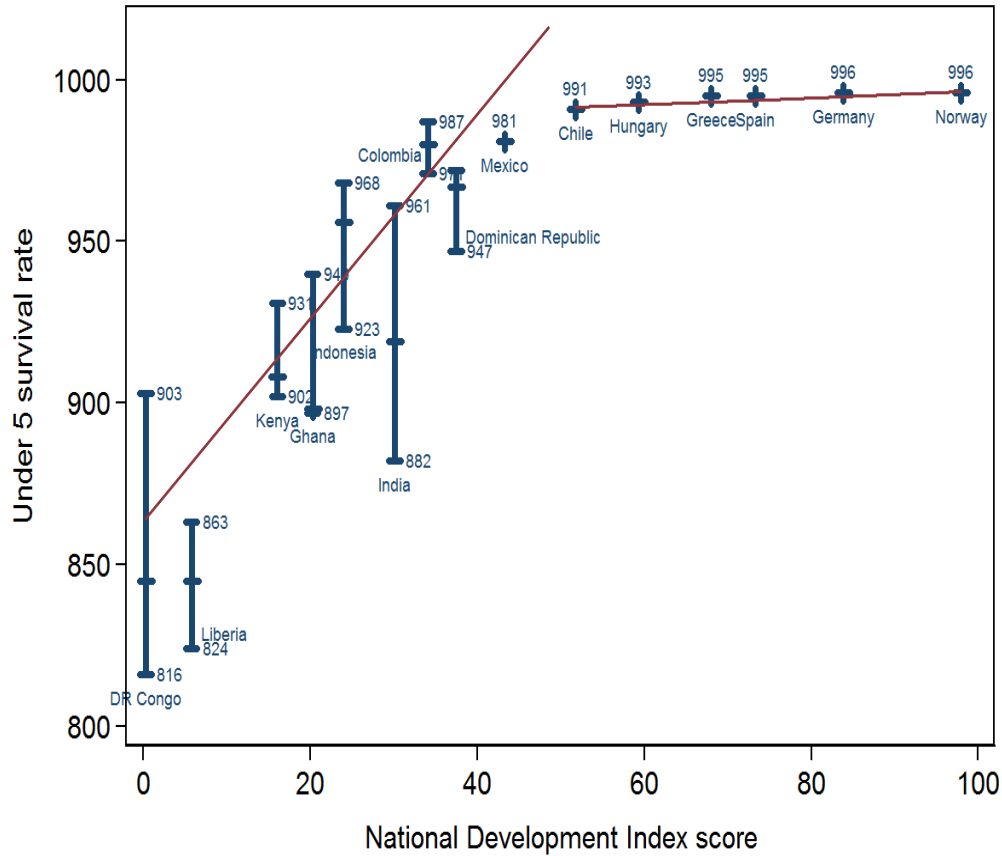
Compare the power of shifting outcomes in health. Over the long term, the general spread of technology and new ideas has had a considerable impact on outcomes –especially in health. Kenny (2008), based on data from Abouharb and Kimball (2007) estimates that the cross-country relationship between income and infant mortality at particular times would suggest a country with a GDP per capita of around \$5,000 in 1900 would expect to have a mortality rate of around 15%. A country with the same income in 2000 would expect an infant mortality rate closer to 3.3%. So “shift” over time of the overall distribution of child mortality risk for all income groups has been important for overall progress.

Driving toward national development also has a significant relationship with improved health. The average under-five mortality rate for countries with an NDI greater than 50 is 5.7 per 1,000 live births. None of the 77 countries with an NDI less than 50 have an under-five mortality rate less than 5.7. Only 5 countries with NDI<50 have an under-five mortality rate of 11.4 or less (twice the average rate for countries with an NDI>50).

As seen in Figure 7 even the relatively well-off in low NDI countries (the top quintile on an index of household assets) have fewer of their children survive than the poorest in better off countries. Bringing the health status of the poor in India towards the middle would be great progress, but without progress in the middle (through drive or shift) they would still have levels of child mortality ten times as high as OECD countries.

¹⁷ Again, Kenny and Dykstra (2013) find that cumulative ODA per capita 2001-2010 has a negative relationship to rates of progress towards various MDG targets. While that is surely linked to aid being channeled to those countries furthest behind on the MDGs, it still suggests some limits to the power of the global community to kick development.

Figure 7: Bringing the Under 5 mortality of the poor in low national development countries would improve outcomes—but the mortality rates of the richest 20 percent are many fold higher than of the poorest 20 percent in high NDI countries



Conclusion

Adding high-bar development targets alongside global minimums will have four benefits. It will increase the *relevance* of goals to middle income countries. It will improve their *ethical* basis by creating universal standards –making clear that poverty or ill health that is unacceptable for the most disadvantaged in the US or UK is unacceptable everywhere. It will create a set of objectives around which a viable domestic political coalition can be built. Finally, it will improve their *policy impact*, (*re*)-focusing development efforts on systemic change in policies and capability to implement policy rather than temporary fixes and specific interventions.

The world *should* focus on ending extreme poverty, and it is important that the goals we set in that regard are realistic—plausible to meet in the fifteen years available—but the goals achievable with limited means in limited time should not be confused with ideals. The rhetoric of the MDGs, while powerful for mobilizing action, may have been over-successful in defining development down. They (inadvertently) fostered a view in which ‘development

success' implies only overcoming the most extreme of deprivations. Perhaps this is why, for example, the British aid agency, DfID could announce it was dropping financial support for development to India—a country with perhaps the largest development challenges in the world—amid the public sentiment that India was no longer a low-bar development priority.

Development Ideals would help broaden the discussion of what development is about. Defeating extreme poverty is a priority --but Development Ideals would not veer to the exclusive nature of a low bar poverty but be inclusive in making a global recognition that the quality of life of at least six billion, not just the one billion in extreme poverty, remains far from satisfactory. Ideals would provide a rationale for upper middle-income engagement with the post-2015 development agenda. And they provide the rationale for a far broader engagement with development on the behalf of rich countries than attempting to kink progress through aid transfers. Meeting development ideals is likely to involve considerable changes in rich world policies from trade to investment through technology policy and migration. The Development Ideals agenda is a global development agenda going far beyond an aid advocacy focused agenda.

Millennium Development Ideals also help to illuminate the technological and institutional challenges that need to be overcome if everyone worldwide is to have a sustainably good standard of living. Using Kate Raworth's language, of 'doughnut economics' we want everyone outside of the 'doughnut hole' of poverty, with access to things like food and water, education, health, energy, jobs, equity and equality (2013). That's what Raworth calls the social foundation and we describe as millennium development ideals. But, second, Raworth argues it is important that humanity also lives inside the doughnut's outer ring, what she terms the 'environmental ceiling' —in terms of sustainable use of fresh water, land, the atmospheric commons and so on. Setting Millennium Development Ideals suggests where the social floor should rest, with implications about what those already above the social floor need to do to ensure that a world of seven (or nine billion) can join them without breaking the environmental ceiling.

The MDGs provided a welcome focus on the world's most deprived. Any post-2015 development agenda should retain that focus. But it should also clearly acknowledge development doesn't end with the defeat of extreme poverty. Development Ideals provide that tool. One such Ideal might be a world free of \$12.50 a day poverty, another might be a universal educated capabilities measure like a PISA score of 432, but the exact language and coverage of Ideals should rightly be a matter of worldwide debate. Now is the time to start that discussion.

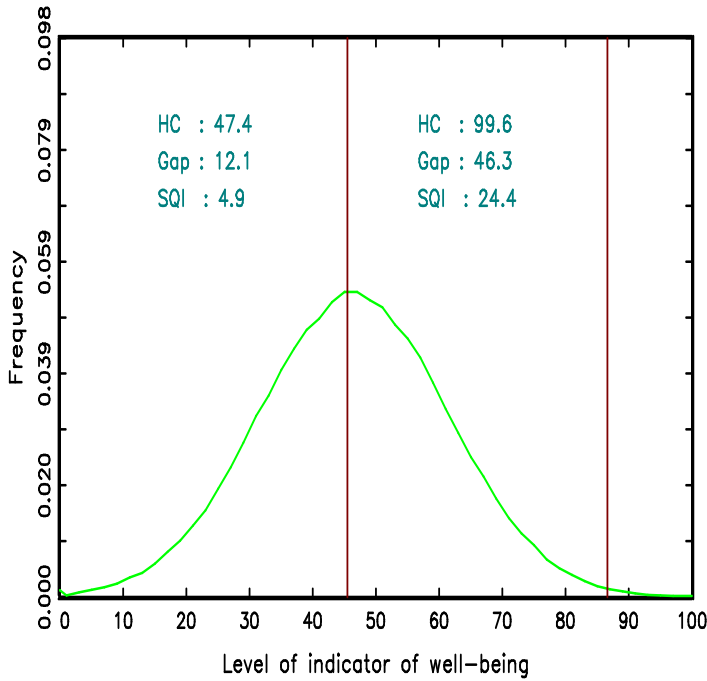
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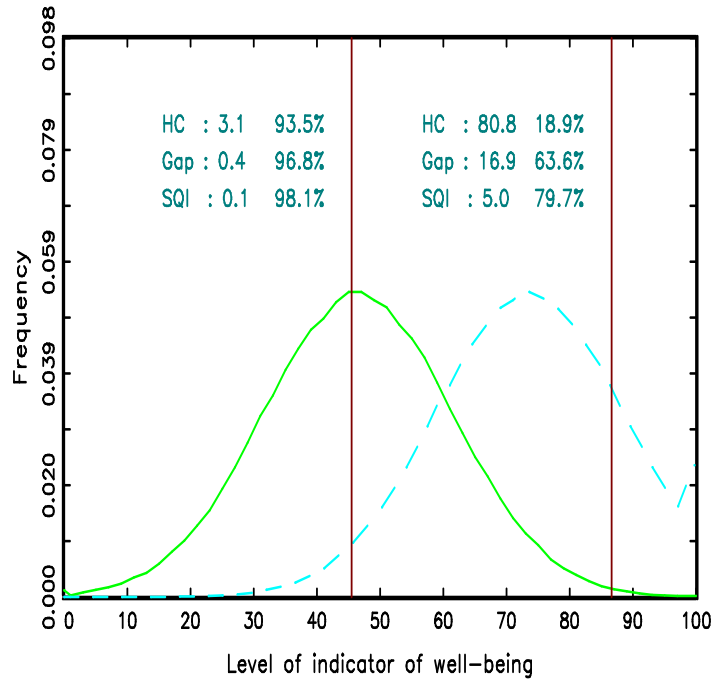
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Appendix 1: Decomposition for Health Index based on Under 5 Mortality

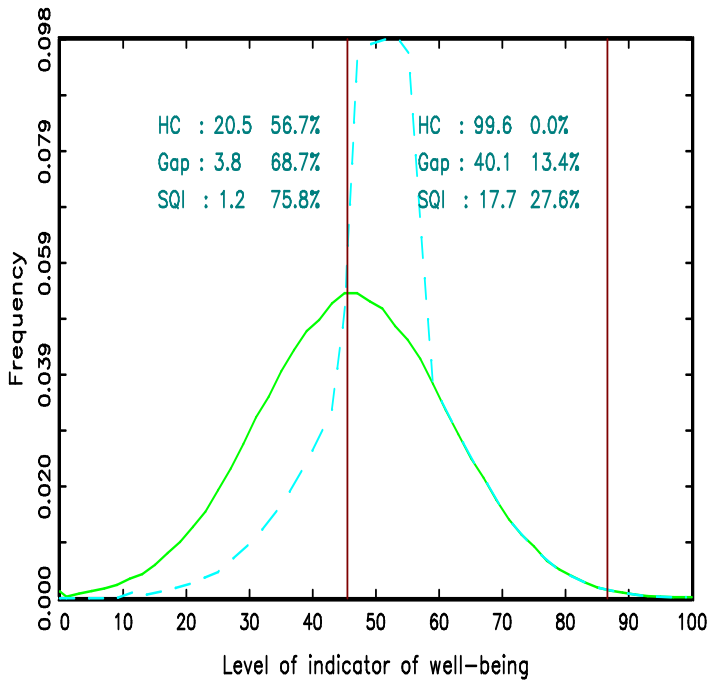
Distribution of well-being across individuals, base case
(Low NDI, mean=46)



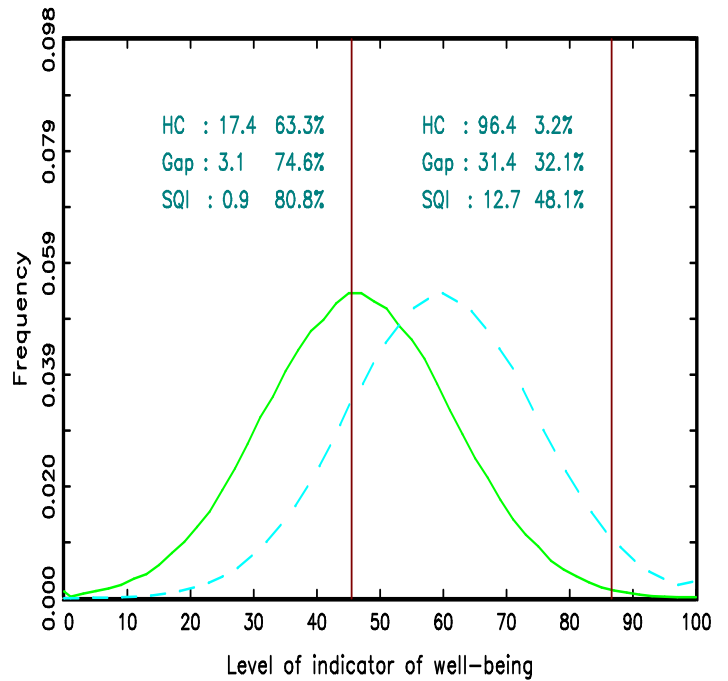
Drive: NDI higher, shifting overall distribution up by 28
(Distribution unchanged)



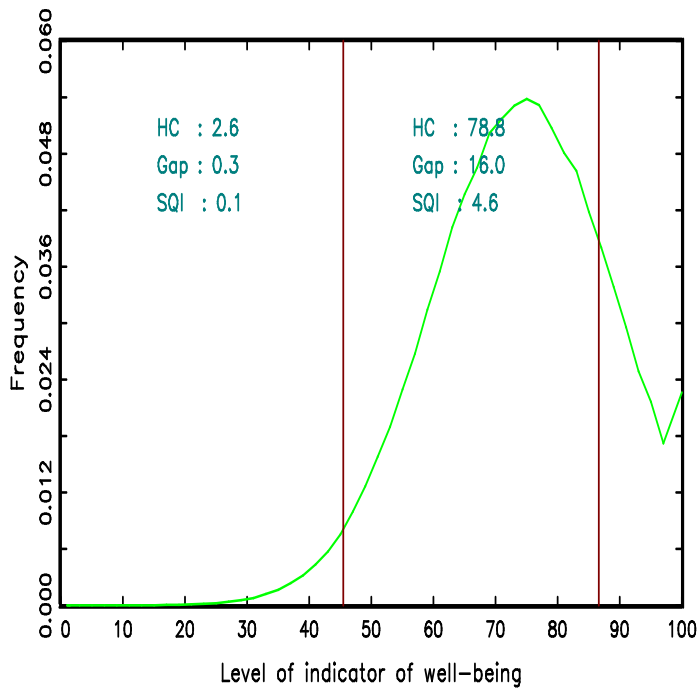
Kink: Everyone below the low bar has 22.8 transferred to them
(those above unchanged)



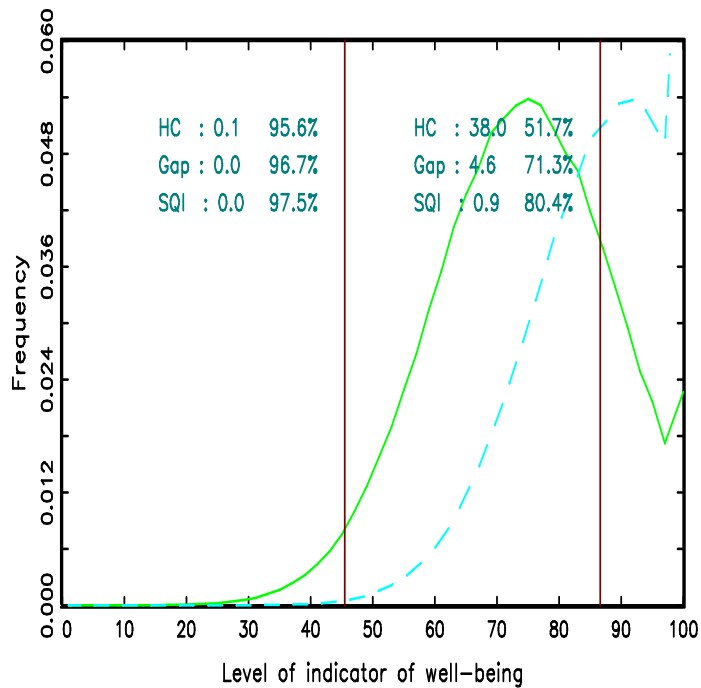
Shift: Overall distribution of well-being shifted up by 14
(Distribution shape unchanged, NDI the same)



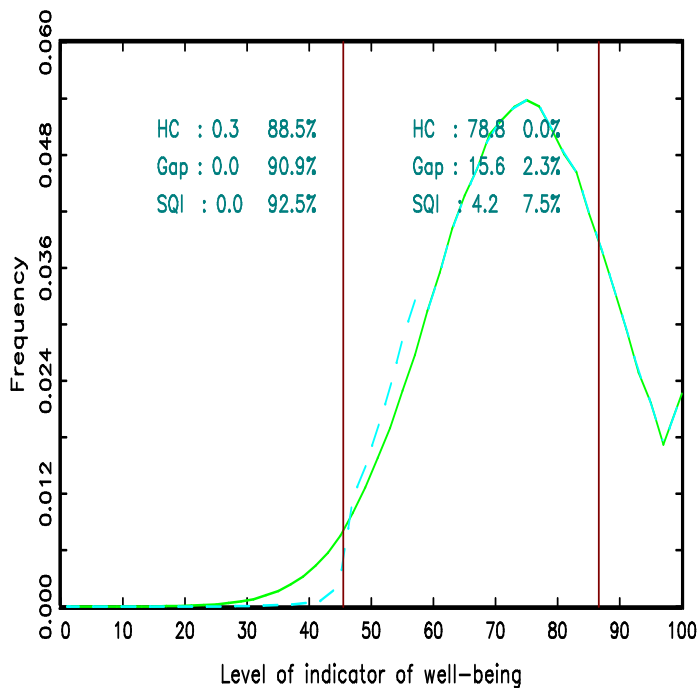
Distribution of well-being across individuals, base case
(Low middle NDI, mean=74)



Drive: NDI higher, shifting overall distribution up by 18
(Distribution unchanged)



Kink: Everyone below the low bar has 22.8 transferred to them
(those above unchanged)



Shift: Overall distribution of well-being shifted up by 15
(Distribution shape unchanged, NDI the same)

