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STRATEGIES FOR SUCCESS IN HUMAN DEVELOPMENT

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Strategies for Success in Human Development

by

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Abstract

This paper analyzes the various policy dimensions which have contributed to successful human development (HD) performance in developing countries over the past three decades. We identify the four best HD performers in each of the regions, taking their level of life expectancy and infant mortality, as well as improvements in these dimensions over time, as the indicators. Examining the elements underlying HD performance reveals that a variety of combinations of vigorous economic growth, government social expenditure ratios and equitable distribution of income can lead to successful human development. None of the 'successful' countries performed well in every dimension conducive to HD success; rather, it appears that doing well with respect to some elements can compensate for relative weakness in others, even weak economic growth. It does appear, however, that one condition crucial in every case was a relatively high female primary enrolment ratio; in many cases the extent of female control over the family's income also proved significant.

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I. **Introduction**

Human Development (HD) is defined as the improvement of the human condition so that people live longer, healthier and fuller lives. In the development of the concept of HD under the leadership of Mahbub ul Haq, some aspects of HD were related to people's physical well-being, such as health, nutrition and education; and others to the widening of choice and enhanced empowerment, including participation, political freedoms and cultural aspects. While we recognise the importance of both dimensions, this paper will be restricted to the physical aspects of HD. As a review of any of the UNDP's *Human Development Reports* indicates, country performance has differed considerably across both developed and developing countries. Our analysis will be concerned with explaining such divergence in developing countries. The focus is on developing countries partly because of the concentration on the material aspects, which weigh more heavily there, and partly because we believe different considerations apply in developed countries. The paper aims to identify the main elements of successful country performance in HD, and arrive at some conclusions for policy, in the light of ten years of experience in analysing HD in the HDRs.

The next section (II) will analyse the main contributory elements for sustained success in HD, based on previous work². In that earlier paper, we conceptualised the links between EG and HD as forming two chains, one from EG to HD and the other from HD to EG; we identified the important links in each chain and surveyed some of the empirical literature indicating their strength. We shall review some of the findings of that paper, as they provide necessary background for analysing successful HD strategies. Section III will identify some countries that have been successful performers in HD over the period 1960 to 1995 and explore which were the main elements

¹ We are grateful to Michael Wang for useful research assistance.

² See Ranis, Stewart and Ramirez (World Development, forthcoming).

contributing to this outcome; section IV will present a typology of the elements of successful performance and suggest some policy conclusions.

II. Basic framework for identifying conditions for success

For the material side of HD, the use of economic resources is essential. Hence a society's total command over economic resources (GNP plus any external capital) provides the source of HD achievements in this dimension. But the way economic resources are distributed and allocated can lead to very different HD performance for any given macro-economic achievement (i.e., level or growth in GNP per capita). To understand the success of HD, therefore, we need to explore how economic resources translate into HD achievements, as well as the determinants of the changing resource base to which HD performance itself makes an important contribution. We also need to consider the factors determining the sustainability of any HD achievement over time, which will include the continued growth of the underlying resource base.

A. How economic resources translate into HD

GNP contributes to HD mainly through household and government activity; civil society, e.g., through community organizations and other NGOs, also plays a role. The same level of GNP can lead to very different performance in HD according to the allocation of GNP among and within these institutions and variations in their contribution to HD.

We find it helpful to differentiate two types of poverty: Private Income Poverty (PIP) which arises among households which have inadequate disposable income; and Social Income Poverty (SIP) which arises among households which have inadequate access to publicly provided goods and services.

When levels of PIP are high, either because national income per head is low or because it is badly distributed, the expenditure of the majority of households on HD is bound to be low. Large differences in poverty levels arise from the variation across societies in the level and distribution of

GNP per capita. While evidence³ indicates that, in general, PIP is reduced with economic growth, the extent of the reduction varies greatly with the distribution of income and its change over time.⁴ The way in which growth translates into income distribution and poverty reduction depends on the nature of the growth process - in particular, the extent to which it is based on the generation of employment and on increasing rural incomes. If the output mix is labor intensive and rural incomes rise rapidly, income distribution is more likely to improve and poverty reduction to occur than if growth is urban biased and capital intensive.⁵

A more equal distribution of incomes received by households will lead to lower PIP for a given GNP, which is likely to result in better performance on HD, since poor households are more deficient on HD and are likely to spend more of their disposable income on items which contribute directly to HD, e.g., food, education and health.

As we would expect, empirical evidence shows that expenditure on HD-related items is strongly affected by the rate of poverty reduction. For example, if poor households receive extra income, they increase their food expenditure and calorie consumption significantly. Of thirty-eight studies in different countries, one-third indicate that at least one-half of additional income is spent in this way.⁶ Empirical evidence also indicates the positive effects of family income change on child schooling.⁷ While the evidence on the relations between income and health is less extensive than for education, studies suggest that household income also has a significant effect on the use of health services,⁸ some showing a much higher relative response for low than for high income households.⁹

³ E.g., Fields, 1989; Deininger and Squire, 1996.

⁴ Bruno *et. al.*, 1995, for example, in a study of twenty countries, show that a 10% increase in average income per capita, 1984-93, was associated with a twenty per cent fall in the proportion of people living on less than \$1 a day.

⁵ Lipton, 1977; Ranis, 1979; Stewart, 1977.

⁶ Strauss and Thomas, 1995.

⁷ E.g., Alderman *et. al.*, 1996a; Behrman and Wolfe, 1987a,b; Birdsall, 1985; Deolalikar, 1993; King and Lillard, 1987.

⁸ Blau, 1986: Harbert and Scandizzo, 1982: Thomas *et. al.*, 1990, 1991, 1992.

Another important element determining how economic resources translate into HD is the extent of female control over income. For example, among households in the Gambia, the Philippines, and Cote D'Ivoire, the larger the proportion of food under women's control, the larger household calorie consumption, and the smaller the share of expenditure on other items.¹⁰

Parallel to PIP, Social Income Poverty (SIP), i.e., lack of access to essential HD-related public goods, is a key element in determining HD performance. The allocation of government resources to improving HD depends on the total level of public sector expenditure, on how much of this flows to the HD sectors, and on the way in which it is allocated within these sectors. This can be expressed in the form of three ratios:¹¹ the public expenditure ratio, defined as the proportion of GNP spent by the various levels of government; the HD-allocation ratio, defined as the proportion of total government expenditure going to the HD-sectors; and, finally, the HD priority ratio, defined as the proportion of total HD-sector expenditure going to 'priority areas'. The precise definition of what constitutes a 'priority area' will inevitably vary according to a country's stage of development, rendering this third ratio more arbitrary and difficult to measure than the other two. But within the HD-sectors, some expenditures are clearly much more productive in terms of achieving advances in HD than others; for example, basic education, especially at an early stage of development, is generally recognized to have a larger impact on HD than tertiary education. There exist very large variations across countries in each of these ratios, which means that the same level of GNP may be associated with very different levels of government spending on HD priorities.¹²

The underlying determinants of these three ratios are complex, but include the following: a) the tax capacity of the system; b) the strength of the demand for military expenditure and for other non-HD priorities of the government; c) governments' responsiveness to the needs of lower income

⁹ Gertler *et. al.*, 1987.

¹⁰ von Braun, 1988; Garcia, 1990; Hoddinott and Haddad, 1991.

¹¹ See Human Development Report 1991.

¹² See *Human Development Report 1991*, Chapter Three, and *Human Development Report 1996*, Chapter Three.

groups. All three factors are greatly influenced by the prevailing political economy, which includes the historically determined power of different interest groups, bureaucratic objectives, capacity and structures, as well as the strength of popular pressures.

It should be noted that all three ratios are affected by the extent of decentralization of government: real decentralization, i.e., devolution, tends to increase the total revenue available; it often raises the HD-allocation ratio; and it almost always improves the HD-priority ratios. Decentralization of publicly provided services has been introduced recently in a wide range of countries. Tentative conclusions about their effectiveness are mixed, with apparent relative success in promoting efficiency and contributing to HD in Argentina, Bolivia, Indonesia and Karnataka in India, but less so in Bangladesh and Brazil. Mostly, local governments have been severely constrained in their ability to raise taxes as well as in the freedom of allocative decision-making, and full democratic devolution has been rare.¹³

The significance of public expenditure choices for improving HD is illustrated by a comparison between Kenya and Malawi. In the 1980s, a similar proportion of national income went to public expenditure (27% in Kenya; 30% in Malawi) but Kenya had a significantly higher social allocation ratio (47% compared to 35%) and social priority ratio (34% compared to 14%) so that the proportion of GDP going directly to HD-improving activities in Kenya was over three times that of Malawi (5.1% compared to 1.5%).¹⁴

The importance of economic growth for raising public sector expenditures on promoting HD is illustrated by a comparison between Botswana and Sudan. Starting with similar levels of per capita expenditure on health and education in 1970, rapid economic growth in Botswana from 1970-1992 led to a fast rise in social expenditure, while social expenditure in Sudan hardly changed

¹⁴ *Human Development Report 1996*, p. 71. These calculations adopt a narrow definition of social priority expenditure, including pre-primary and first level education plus primary health care only.

¹³ See Behrman, 1995b; Prud'homme, 1995; Klugman, 1995; Ranis and Stewart, 1994.

as there was economic stagnation. By 1992, social expenditure in Botswana was four times as high as in Sudan.

Finally, NGO or other civil society activity, on which information is more scattered, is typically heavily oriented towards HD objectives (e.g., education, nutrition and health). Resources are derived from private donations and government, in each case including both foreign and domestic sources. There are considerable variations in the extent, vitality and effectiveness of NGO activities across countries, depending on their history, culture, tax laws and actual or perceived government deficiencies in providing services. In most contexts, NGOs play a supplemental or even marginal role, but in a few areas - e.g., BRAC and the Grameen Bank in Bangladesh, the Harambee Schools in Kenya and the 'Comedores Populares' in Peru - they appear to represent a major source of HD-enhancement.¹⁵

Expenditures on HD inputs are clearly not objectives in themselves, but rather constitute instruments for achieving advances in various dimensions of basic well-being. A further important determinant of HD achievements is, therefore, the effectiveness of these expenditures in raising HD levels, i.e., what type of provision is most productive at what level of development, and how different combinations effect a change in HD. ¹⁶ These relationships are similar to those of a production function in that they relate the inputs into HD, such as public expenditure on health services or water, to HD improvement. An illustration of the type of relationship involved is whether and how far the provision of safe water is complementary to or substitutes for education in contributing to improvements in health. The relationships here are complex, depending on individual and community behaviour and the existence of local knowledge about relevant technologies. Empirical work looking into these relationships has provided abundant evidence that education,

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¹⁵ Riddell *et. al.*, 1995.

¹⁶ In our earlier work (Ranis, Stewart, Ramirez, forthcoming) we termed this relationship the Human Development Improvement Function (HDIF).

especially female, tends to improve infant survival and child nutrition, as does female control over household income.¹⁷

It should be clear from this discussion of the various links between the economic resource base and HD achievements, that while, in general, we would expect important causal connections to exist between the economy and HD achievements, these connections are *not automatic*: the strength of the links varies according to a large range of factors, including the structure of the economy, the distribution of assets, and the policy choices made. The institutional heritage of the society affects these choices and the strength of links at each stage; when people act together to promote their well-being, when public morality is high, when the community monitors malfeasance, and when it participates extensively in public life, *ceteris paribus*, we would expect all the links to be stronger, i.e., HD achievement is likely to be positively associated with the strength of social capital.

In summary, this review of the connections between resources and HD suggests that the links are likely to be stronger the lower PIP, which, for a given level of GNP per capita, means the more equally income is distributed; the more income households allocate to HD at a given income level, which may be related both to the level of female education and to female control over income within the household; the higher the proportion of GNP devoted to priority social expenditure by the government and the lower SIP; the more effective the contribution of institutions, including community organizations and other NGOs; and finally, the more efficient the HDIF.

B. Determinants of the resource base

All these factors determine how well a country does on HD for a given resource base, but clearly the size and growth of the resource base is critical. A large amount of theoretical and empirical literature has been devoted to 'explaining' variations in economic growth. ¹⁸ Major results

¹⁷ See, e.g., Rosenzweig and Schultz, 1982; Wolfe and Behrman, 1987; Barrera, 1990; Strauss and Thomas, 1995; Thomas, 1990.

¹⁸ E.g., Denison; 1980; Jorgenson, 1988; Barro, 1991; Scott, 1992.

which are widely accepted are that the share of investment in GNP (which may be domestically or externally financed) is highly significant and that human capital makes an important contribution. Empirical investigations also indicate that a more equal distribution of income is associated with higher economic growth. Another factor, which would appear to be important in strengthening all the links mentioned above, although it is much more difficult to identify empirically, is the effectiveness of economic policy.

The important contributory role of human capital represents the main feedback running from HD achievement to economic performance. Abundant evidence for this feedback comes both from micro-studies and macro-regressions.

At a *micro*-level, numerous studies indicate that increases in earnings are associated with additional years of education, with the rate of return varying with the level of education. While social rates of return (which deduct the publicly financed costs of education but make no other adjustments to the private returns) are below the private, they are still typically greater than returns to most physical investment. The returns to primary schooling tend to be greater than the returns to secondary and tertiary education. In agriculture as well, evidence suggests positive effects of education on productivity among farmers using modern technologies, but less impact, as might be expected, among those using traditional methods.

Improved health and nutrition have been shown to have direct effects on labor productivity, especially among poorer individuals.²² A range of labour productivity gains has been observed

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¹⁹ See surveys in Behrman, 1990a,b,c, 1995a; Behrman and Deolalikar, 1988; King and Hill, 1993; Psacharopolous, 1994; Schultz, 1988, 1993a,b; Strauss and Thomas, 1995.

²⁰ Following the work of Psacharopolous, the conclusion that the returns to education are highest for primary education has become part of the accepted wisdom; but in fact this is by no means always the case — see, e.g., Schultz, 1993a,b. However, since secondary education necessarily requires prior attendance at primary school, the usual measures of returns to primary education which do not allow for this may understate the total returns.

²¹ Schultz, 1975; Welch, 1970; Rosenzweig, 1995; Foster and Rosenzweig, 1994; Behrman *et. al.*, 1995; Birdsall, 1993; Jamison and Moock, 1984.

²² See surveys in Behrman, 1993, 1996.

associated with calorie increases,²³ including studies of farmers in Sierra Leone, sugar cane workers in Guatemala, and road construction workers in Kenya;²⁴ a study of Cali, Colombia found that a health and nutrition program increased the lifetime earnings of individuals to from 2.5 to 8.9 times those of an illiterate worker.²⁵ In some contexts the evidence even indicates larger productivity effects arising from health and nutrition than from formal schooling, although the impact of education has been much more emphasized in the development literature.

From a *macro*-perspective, the 'new growth theories' aim to explain growth by incorporating some of these same effects, emphasizing education as well as learning and R&D. According to Lucas (1988), for example, the higher the level of education of the workforce the higher the overall productivity of capital because the more educated are more likely to innovate, and thus affect everyone's productivity. In other models a similar externality is generated as the increased education of individuals raises not only their own productivity but also that of others with whom they interact, so that total productivity increases as the average level of education rises. A number of empirical studies supporting these models has shown the positive effect of education on economic growth at a macro level, with its size varying according to the measure of education and the particular growth model adopted. ²⁷

In summary, the growth of economic resources is an important contributor to the enhancement of the material aspects of HD. Significant determinants of this growth include the investment rate, the distribution of income, the policy setting, and, most important for our discussion here, the level and character of HD achieved previously.

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²³ See Cornia and Stewart, 1995.

²⁴ Strauss, 1986; Immink and Viteri, 1981; Wolgemuth *et. al.*, 1982.

²⁵ Selowsky, 1981.

²⁶ Perotti, 1993. See also Roemer, 1990 and Grossman and Helpman, 1991, who focus on the role of education and R&D.

²⁷ E.g., Barro, 1991: Barro and Lee, 1993, 1994.

C. Sustainability of HD improvements

Sustainability of achievements is clearly an important aspect of success in HD. To a certain extent HD achievements are self-sustaining, as, once people have attained certain levels of health and education, they tend to make every effort to sustain this over the next generation. Moreover, once basic advances have been made, for example in life expectancy, it may take fewer resources to sustain them. Nonetheless, over the past thirty years, several countries succeeded in improving their HD quite impressively, but were unable to continue to make progress, and some even slipped back.

Reasons for lack of sustainability have their main roots in a reversal of one or another of the basic reasons for success: viz., undermining of the economic resource base and/or changing the allocation of resources away from HD.

Countries may be in a virtuous cycle of achievement, with growth of resources supporting improvement in HD, which, in turn, reinforces further economic growth. Conversely, some may be in a vicious cycle, with failures on both HD and economic growth. In some cases, 'lopsided' performance can be observed, with success in one dimension but failure in the other, at least for a time. We define success on HD, but below average performance on economic growth, as HD-lopsided, while rapid economic growth accompanied by stagnant HD is called EG-lopsided.

Taking a three-decade period, our earlier work showed that neither type of lopsidedness was found to persist in the long run. The evidence indicated that countries may move from HD-lopsidedness to a virtuous cycle, but no country succeeded in moving from EG-lopsidedness into a virtuous cycle. This gives strong support to the view that a country cannot rely on an economic growth strategy only, while neglecting HD-improvements, to achieve a virtuous cycle. However, the fact that virtually no country (with just one exception²⁸) remained in an HD-lopsided position over three decades indicates that sustainability of HD requires supporting economic performance over the long-term.

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²⁸ The exception was Costa Rica, which remained in the HD-lopsided category for all three decades.

III. Empirical evidence of successful country performance

A. Identifying successful countries

While the links between EG and HD elucidated in Section II appear to be significant, it is our intent in this section to examine which links proved particularly important in determining notably successful country performance. In this section, we explore the behaviour of some countries that were successful in HD over the period 1960 to 1995, and examine the main contributory factors. We shall also identify which countries sustained successful HD performance and which fell back over the decades, and examine the conditions favouring sustainability.

Before identifying examples of countries that have succeeded in HD we need to determine the criteria of success to be adopted. The Human Development Index (HDI) adopted in the HDRs encompasses education, life expectancy and adjusted income; the precise definition and methodology underlying the HDI has changed over time and become more complex. While it has performed an important role in focussing attention on HD and country differences, it remains somewhat arbitrary. Rather than use the HDI, in this paper we shall adopt two very reductionist proxies for HD achievement — viz., life expectancy (LE) and infant mortality rate (IMR). One reason for the choice of LE is the simplicity of the measure which means that no arbitrary weighting is required; another is that LE is the prerequisite for enjoyment of any other dimension of the good life; thirdly, it is highly correlated with the education components of HDI. Moreover, LE is a more discriminating indicator for developing countries, which are our main concern here, than for rich countries. We have supplemented LE with IMR partly because of measurement problems with LE in some countries, and partly because of IMR's greater sensitivity to change. However, we recognize that there are severe limitations to confining our measurement of HD to LE and IMR; in particular, by excluding non-material aspects we bias our analysis and policy conclusions.

Several criteria for what is meant by 'success' can be advanced. Our concern is with the

period 1960-95. One criterion for success is ranking achievements in the level of HD attained by 1995. This is the product of two elements — the historically given 'initial' achievements in 1960, and progress between 1960 and 1995. Two other possible criteria relate HD achievement to economic performance. While economic growth is a major contributor to HD achievement, as explained above, some countries do particularly well in relation to their economic record. To capture this, two other indicators could be advanced, one relating levels of HD achievement in 1995 to levels of GDP per capita in the same year, and the other relating change in HD in relation to change in income per capita, 1960-95. The four indicators are set out in the table below.

Four possible indicators of success in HD

A. 1995 HD level	C. 1995 HD level in relation to 1995 GDP per capita
B. 1960-95 HD progress	D. 1960-95 progress in HD in relation to growth in incomes per capita

We believe it is absolute achievements in HD that matter, rather than achievements relative to economic performance, so that C. and D. are of somewhat less interest. Moreover, we prefer indicator B. to A. — i.e., progress between 1960 and 1995. We measure this progress in terms of the shortfall reduction over the period, i.e., changes in the percentage of deficiency of the country's level of performance relative to the 'frontier' or best performing country. ²⁹ The reason for our preference is that, to the extent that 1995 achievement is influenced by the 1960 levels, there is little that can be done about these initial conditions, given that policy can only affect changes.

Nonetheless, we are also interested in countries whose main success lies in their experience at an earlier stage because the historical influences that account for the earlier performance continue to have a long-term impact, as well as containing lessons for policy.

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 $^{^{29}}$ See $Human\ Development\ Report\ 1995$ for more detail.

From a global perspective, the ten best performers on all four criteria are presented in Table 1. The IMR tends to be a more sensitive and often more reliable measure than life expectancy, even though life expectancy is generally preferred as an indicator of HD as it encompasses the whole population. Of the ten, eight are among the best performers relative to both indicators, pointing to the high level of correlation between them. China and Saudi Arabia appear on the life expectancy reduction improvement list only, while Cuba and Jamaica appear only on the IMR improvement list. It seems plausible that this may have been due to the repercussions of the one child policy in China and the highly targeted infant health programmes in Cuba and Jamaica.

Only two countries, Cuba and Jamaica, appear both as the best absolute performers on LE and in relation to GDP. Countries which had particularly good performance on LE in relation to GDP, but not on LE as such, are countries with relatively weak economic performance which nevertheless maintain some focus on HD — such as Tanzania, El Salvador and Madagascar. Similarly, comparing improvement in LE with improvement in LE in relation to economic growth, we find that four countries are on both lists (Costa Rica, Honduras, Jamaica and Cuba), but a number of others do well on LE improvement only in relation to their growth performance — for example, Mexico, Nicaragua, and Peru.

All the countries which showed the best improvements in LE and/or IMR, 1960-95, clearly showed sustained performance as indicated by an outstanding achievement over the entire 35 year period. Analysis of the best ten performers decade by decade over the same period showed that of the countries that were in the top ten with respect to life expectancy reduction in the 1960s, only three were among the best performers in 1980-95 — Kuwait, UAE and Costa Rica. However, there was more consistency in improvements in IMR, with six of the best performers in 1960-70 in the top ten in 1980-95. Countries which 'dropped out' of the best performing IMR list were Kuwait, China, Cuba, Venezuela, Panama and Jamaica, all systems which experienced either particular economic difficulties or major switches in social policy during the latter period.

Table 1 Global best performers

A. LE 1995	B. LE shortfall Reduction, 1960-95	B. IMR shortfall reduction, 1960-96	C. LE in relation to GDP ranking	D. LE/GDP ranking changes, 1960-95
Singapore	Costa Rica	Singapore	Cuba	Nicaragua
Costa Rica	Singapore	Korea	Madagascar	Madagascar
Cuba	UAE	Oman	Congo	Honduras
Kuwait	Chile	Chile	Jamaica	Jamaica
Chile	Kuwait	UAE	Sri Lanka	El Salvador
UAE	Oman	Cuba	Vietnam	Peru
Jamaica	S.Arabia	Malaysia	Honduras	Venezuela
Panama	Korea	Kuwait	Myanmar	Costa Rica
Trin. and Tob.	China	Jamaica	El Salvador	Trin. and Tob.
Uruguay	Malaysia	Costa Rica	Haiti	Mexico

The global best performers include countries from the Middle East, Asia and Latin America, but none from Sub-Saharan Africa. However, in order to analyse the major factors involved in success, it is more useful to take a regional perspective because of regionally-based differences in constraints and opportunities. Hence our more detailed analysis will be at the regional level, focussing on Africa, Asia, and Latin America and the Caribbean. We do not analyse Middle Eastern countries further, since the success of some countries there — UAE, Oman, Kuwait and Saudi Arabia — is mainly based on abundant oil revenue, which makes them rather atypical for comparative analysis.

Turning to the regional country performance, Table 2 shows the four best performers according to levels of life expectancy in 1995, infant mortality in 1996, shortfall reduction in LE and IMR, 1960-95, as well as consistency of achievement over the three subperiods.

Table 2 Regional best performers under criteria A. and B.

A. LE 1995	A. IMR 1996	B. Shortfall reduction in LE, 1960-95	B. Shortfall reduction in IMR, 1960-96					
AFRICA	AFRICA							
Mauritius	Mauritius	Mauritius	Mauritius					
Lesotho	Botswana	Lesotho	Botswana					
Madagascar	Zimbabwe	Madagascar	Gambia					
Ghana	Namibia	Benin	Cameroon					
ASIA								
Singapore	Singapore	Singapore	Singapore					
Sri Lanka	Sri Lanka	Korea	Korea					
Korea	Korea	China	Malaysia					
Malaysia	Malaysia	Malaysia	Sri Lanka					
LATIN AMERICA AND THE CARIBBEAN								
Costa Rica	Cuba	Costa Rica	Chile					
Cuba	Jamaica	Chile	Cuba					
Chile	Chile	Cuba	Jamaica					
Jamaica	Costa Rica	Honduras	Costa Rica					

In the African case, there is a considerable difference among the three indicators. In fact, only one country — Mauritius — appears in all three lists. But in the remaining regions, three out of four appear as best performers with respect to life expectancy in 1995 and improvements in life expectancy and infant mortality 1960-96. In Asia, these are Singapore, Korea and Malaysia; and in Latin America, Costa Rica, Chile and Cuba.

Looking at the performance decade by decade, we find that Mauritius, Korea and Costa Rica are among the four best in every decade and on both HD-indicators. This points to consistency over time, and the absence of oscillation in performance. In Asia, Singapore is consistently among the best on infant mortality but in only two of the periods on life expectancy improvement. In Latin America, Chile is among the four best on life expectancy improvement for all three decades, and for IMR reduction for two of the subperiods.

It is relatively easy, therefore, to select a sample for further investigation of the sources of success in Asia and Latin America, by choosing the three countries which appear on all three lists, and which are also consistently among the best over more than one decade - and adding Sri Lanka to the Asian and Jamaica to the Latin American sample because they appear on two out of the three lists of best performers. In the case of Africa, only Mauritius qualifies in terms of being on all three lists. The other countries we select in Africa are Madagascar and Lesotho which appear on two out of the three best performing lists; and we include Botswana because it was among the best on IMR improvement and among the best on life expectancy in two of the three subperiods.

In Table 3 we present the four best performers in each region according to criteria C. and D. In Africa, only Madagascar appears both as absolutely a best performer on A. and B. as well as in terms of criteria C. and D. In Asia, Sri Lanka appears in C. and D. as well as A. In Latin America, Cuba and Jamaica do likewise. The other countries which appear under C. and D., but not A. or B., seem a rather random selection of countries with poor economic performance — including Somalia, Nepal, and Benin. Although the criteria C. and D. undoubtedly do pick out some countries which have put a particular focus on HD (e.g., Tanzania, the Philippines, Nicaragua), the listing depends so much on collapsed economic performance that it confirms our decision to use only

criteria A. and B. in choosing our sample of successful countries. In other words, relating HD performance to economic criteria rewards countries which have done very poorly on economic growth and whose HD performance has been good only in that relative sense.

Table 3
Regional best performers under criteria C. and D.

C. Ranking difference between GDP p. cap. and LE, 1995	C. Ranking difference between GDP p. cap. and IMR, 1995	D. Ranking difference between GDP p. cap. growth and LE changes, 1960-1995	D. Ranking difference between GDP p. cap. growth and IMR changes, 1960-96			
AFRICA						
Congo	Burkina Faso	Madagascar	Madagascar			
Tanzania	Gambia	Congo	Sudan			
Madagascar	Eritrea	Tanzania	Senegal			
Ethiopia	Tanzania	Ethiopia	Chad			
ASIA						
Sri Lanka	Vietnam	Nepal	Sri Lanka			
Vietnam	Sri Lanka	China	Nepal			
Myanmar	Philippines	Philippines	Malaysia			
China	India	Sri Lanka	Singapore			
LATIN AMERICA AND THE CARIBBEAN						
Cuba	Cuba	Nicaragua	Jamaica			
Jamaica	Jamaica	Honduras	Nicaragua			
Honduras	Honduras	Jamaica	Honduras			
El Salvador	Nicaragua	El Salvador	Trin. and Tob.			

In Section II we identified the main elements conducive to success in HD. Table 4 provides evidence on the performance of each of the countries just identified as successful in these dimensions. Behaviour is classified into very good (++), good (+), moderate (0) and poor (-). In classifying performance with respect to these various elements, we have made an attempt to compare these countries with developing countries as a whole. For example, any performance above the average of all developing countries is classified as good; the precise method of classification is indicated in the footnotes to the table. The causal elements include growth in real GDP per capita, income distribution as measured by the Gini Coefficient, the expenditure ratio, the social allocation ratio, primary and secondary education as a proportion of total educational expenditure (as an indicator of the priority ratio), social expenditure over GDP, and three measures of women's position — i.e., the female primary school enrolment ratio, the ratio of female to male primary school enrolment, and the female share of earned income. In most cases, we have tried to find data to represent the average performance over the entire period; but in the case of female primary enrolment we have taken an early date as this element can be expected to have a lagged impact.

A glance at table 4 shows considerable variance in performance on some variables — for example, on economic growth and income distribution. For other elements, there is much more homogeneity — this is notable with respect to the female primary enrolment ratio which is invariably high compared with developing countries as a whole, and, particularly, the ratio of female to male primary enrolment which rated very good in every success case. We included the ratio of female to male primary enrolment as well as female primary school enrolment rate itself to check whether the latter was simply capturing high levels of primary school enrolment among both boys and girls, rather than female enrolment in particular. The fact that the results are stronger for the female/male enrolment ratio than even for female primary enrolment show that it is girls' education which is especially important for success in HD.

Table 4
Elements of successful performance

Country	growth in per capita income, 1965- 97 ^a	Income distribu- tion, recent date ^b	Expenditure ratio, (govt. exp. as % GDP) average 1980 and 1996 ^c	social allocation ratio, average of early 1970s and early 1990s ^d	primary and secondary educ. exp. as % total educ. exp., 1990-95°	social expendi- ture as % of GDP, 1995 ^f	gross primary female enrol- ment, 1980 ^g	ratio of female to male primary enrol ^h	share of females in earned income, 1995 ⁱ
Botswana	++	_	++	0	++	++	+	++	+
Chile	0	_	+	+	0	+	++	++	_
Costa Rica	0	0	+	++	0	+	++	++	0
Cuba	_	++	++	0	0	++	++	++	0
Jamaica	_	+	+	+	+	++	++	++	+
Korea	++	+	0	0	++	+	++	++	0
Lesotho	+	_	++	++	++	+	++	++	0
Madagascar	_	0	0	0	++	0	++	++	+
Malaysia	++	0	+	++	+	+	+	++	0
Mauritius	+	+	+	+	++	+	+	++	0
Singapore	++	+	0	+	+	0	++	++	+
Sri Lanka	+	+	++	+	+	0	+	++	+

++ = very good; + = good; 0 = moderate; - = poor.

a. developing country average = 3.00%; 4% + = vg; 3-4% = g; 1-3% = mod.; <1% = poor.

b. Gini < 0.4 = g; 0.4-0.5 = mod.; > 0.5 = poor.

c. expenditure ratio, developing country average = approx. 20; >30 = vg; 20-30 = g; 15-20 = mod.; <15 = poor.

d. social allocation ratio developing country average = approx. 25%; >30 = vg; 25-30 = g; 15-25 = mod.; <15 = poor.

e. developing country average = 70; >80 = vg; 70-80 = g; 60-70 = mod.; <60 = poor.

f. developing country average = 5.5%; >7.5 = vg; 5.5-7.5 = g; 4-5.5 = mod.; <4 = poor.

h. developing country average = 89%; >100 = vg; 90-100 = g; 80-90 = mod.; <80 = poor.

i. developing country average = 87%; >95 = vg; 87-95 = g; 80-87 = mod.; <80 = poor.

j. developing country average = 32%; >40 = vg; 32-40 = g; 25-32 = mod.; <25 = poor.

C. Alternative explanations of success

The information given in table 4 permits us to explore alternative sets of causal factors responsible for success in the twelve country sample. None of the countries did outstandingly well on all the elements we identified as conducive to success. Rather it appears that countries did particularly well with respect to some elements, which compensated for relative weakness elsewhere. The fact that countries don't need to be outstanding in all aspects should be encouraging to policy makers trying to promote HD.

As noted earlier, economic growth provides a favourable environment for improving HD, both through its effects on household and on social income (i.e., social sector expenditures by government). Among the twelve successful countries, in fact, growth performance was mixed, with some very high growth rates, and some very poor. Moreover, not all countries had a particularly good income distribution. Nevertheless, we can present some conclusions concerning alternative sets of factors combining to yield success:

- One type of success was apparently based on high growth accompanied by good distribution, which permitted countries to succeed despite quite moderate social expenditure, which was, however, well prioritised, as shown by the ratio of primary and secondary education expenditure to total education expenditure. Korea was such a case, and Taiwan also (not included here because of data problems). For both Korea and Taiwan early land reform was partly responsible for the good distribution of income.
- Botswana and Malaysia also had very good growth, but less good distribution. This was compensated for by a good expenditure ratio, also accompanied by a good prioritisation ratio.

- 3. Singapore is another case with very good growth and moderate income distribution, but in this case only moderate expenditure ratios, although this was apparently offset by very high female primary enrolment rates and a high female share of earned income.
- 4. Mauritius and Sri Lanka represent cases where good distribution and good and well allocated social expenditure compensated for growth which was good but not spectacular.
- 5. Lesotho is a case with good growth but poor distribution, accompanied by a very good expenditure ratio, a good priority ratio and a very good female primary enrolment ratio.
- 6. Chile and Costa Rica exhibit moderate growth, but not good distribution (better in the case of Costa Rica than Chile), but good and well-allocated social expenditure ratios, leading to very effective and comprehensive social programmes. Both countries also had very good female enrolment ratios.
- 7. Cuba, Jamaica and Madagascar are particularly interesting cases because growth was poor in each case. In the case of Cuba, success seems to have been achieved, nonetheless, by good distribution, high and well allocated social expenditures as well as high female enrolment ratios. Jamaica seems to have managed without such a good distribution and with a large female share of earned income, but otherwise similar characteristics. In Madagascar, not only was growth poor but social expenditure ratios were also quite low; this poor combination was, it seems, rescued by unusually good priority ratios, high female primary enrolment ratios and a high share of female earned income.

The differing economic and social choices just reviewed clearly are the outcome of differing political decisions, as well as economic capability. All the successful countries showed political commitment to improving HD, but for somewhat different reasons. Some were primarily motivated by the desire to increase growth, regarding HD as an essential input for this, in the absence of natural

resources, e.g., Korea, Singapore and Chile.³⁰ These countries were not democratic for much of the period under observation. In contrast, some countries were social democracies, aiming to improve HD as a central objective, and providing state services in order to do so, e.g., Jamaica and Sri Lanka. In a more extreme version, Cuba, as a communist country, had similar objectives. Malaysia was a more complex case, where a prime objective was to raise the level of incomes and education of the Malays.

D. Sustainability

Clearly, a major issue is the question of the sustainability of success. Sustainability partly depends on technical possibilities, and partly on political choices. The fact that our sample was chosen as the set of countries that did best over a 35-year period indicates that their pattern of achievement proved sustainable until now. The findings just presented about the features that account for success in each case show that in some countries success is highly dependent on one aspect (e.g., economic growth) and in some on another (e.g., social expenditure). In each case, continued success may be threatened if the particular element on which success depends is weakened: for example, with the 1997 financial crisis growth rates in Korea and Malaysia have been severely affected, at least temporarily. In Cuba and Jamaica, success was based on social and political models (involving among other things, high social expenditure ratios); these models appear to be in transition so that sustainability may become an issue. In all such cases, however, it is possible that other compensating factors can come to the rescue: for example, economic growth could accelerate in Cuba and Jamaica, offsetting reductions in social expenditures, as happened over the period 1960-95 in Chile.

Another instructive way of looking at the issue of sustainability is to trace performance decade by decade, identifying which countries sustained their good performance and which dropped

³⁰ In the case of Taiwan, the commitment to HD was associated with a desire to avoid the revolutionary events on the mainland.

out. This exercise is performed in Table 5 for life expectancy by region (using shortfall reduction again as our measure).

Table 5
Best regional Performance over three subperiods in life expectancy shortfall reduction

REGION	1960-70	1970-80	1980-95
Africa	Uganda	Botswana	Mauritius
	Benin	Mauritius	Madagascar
	Botswana	Cote D'Ivoire	Ethiopia
	Mauritius	Kenya	Gabon
Asia	China	Korea	Singapore
	Vietnam	Vietnam	Korea
	Malaysia	Singapore	Thailand
	Korea	Malaysia	Indonesia
Latin America and	Cuba	Costa Rica	Chile
the Caribbean	Costa Rica	Chile	Costa Rica
	Jamaica	Cuba	El Salvador
	Venezuela	Panama	Honduras

Among the African countries, Uganda and Benin appear as best performers from 1960-1970, but not in the subsequent decades. In Uganda, civil war was primarily responsible and in Benin, civil disturbances. In Asia, China and Vietnam were included in the four best performers in the early decade. China did not appear again, probably because of cuts in the social services, especially health, associated with its changing economic model. Vietnam continued to be among the top four in the 1970s but fell to 18th out of 20 in the 1980-95 period, with similar factors probably at work. In Latin America, Venezuela was among the best performers in the 1960s. Poor governance, elitist policies and the declining oil price over the 1980-95 period were responsible for ensuring non-recurrence.

IV. Main Conclusions

We should reemphasize that we picked our success sample regionally, and that the African cases, in particular, would not have appeared in a global list, but in looking at the elements relevant to their success, we did apply average developing country performance standards.

We recognise that reducing all of the HD objective to life expectancy and infant mortality eliminates many other important dimensions, which Mahbub ul Haq introduced into the Human Development Reports over time. Some of the elements that we do find are important instruments for achieving HD, e.g., enhancing the role of women, are also important aspects of a more comprehensive HD objective. Bringing these other dimensions of HD back into the picture would greatly enrich both the analysis and policy conclusions, but it would also greatly complicate the task.

Nonetheless, on our relatively reductionist canvas some important conclusions emerge.

First, we should note that every successful country performed well in a number of dimensions. Although no country was successful in every element, several countries succeeded (i.e., showed good or very good performance) in seven out of the nine dimensions. Only Madagascar succeeded in no more than three elements — and, as noted Madagascar was a success only when the regional classification is adopted and not at the global level. Therefore, it seems that simultaneous good performance on several elements is needed.

Second, there are a number of alternative combinations that can lead to success in HD; weakness in any one area, including low growth, can be overcome by strength elsewhere, for example, by a good distribution of income or a high social expenditure ratio. That is to say, if a weakness emerges in one element, countries can compensate by strengthening other elements.

Third, it seems clear that female primary enrolment ratios play an especially important role in every one of our success countries and should get priority attention from policy-makers.

Fourth, analysis of the government budget requires an examination not only of total expenditures, but, more importantly, its allocation to the social sectors.

Fifth, within the social sectors, especial attention should be given to primary and secondary education, nutrition and rural water supplies.

Our analysis has shown that there exists a range of ways of achieving success in HD, and therefore no unique path. As noted above, the one seemingly necessary condition is a high female enrolment ratio. Beyond that, we can pick out three relatively important dimensions for success in HD performance. One is good growth, if accompanied by reasonably good distribution and social expenditure ratios; the second, is moderate growth combined with good distribution and supportive social sector performance; and the third is a strong emphasis on social expenditures (well prioritised) which can even be combined with poor economic growth, but requires relatively good distribution.

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