



Sustaining Human Progress: Reducing Vulnerabilities and Building Resilience

Explanatory note on the 2014 Human Development Report composite indices

Papua New Guinea

HDI values and rank changes in the 2014 Human Development Report

Introduction

The *2014 Human Development Report (HDR)* presents the 2014 Human Development Index (HDI) (values and ranks) for 187 countries and UN-recognized territories, along with the Inequality-adjusted HDI for 145 countries, the Gender Development Index for 148 countries, the Gender Inequality Index for 149 countries, and the Multidimensional Poverty Index for 91 countries. Country rankings and values of the annual Human Development Index (HDI) are kept under strict embargo until the global launch and worldwide electronic release of the Human Development Report.

It is misleading to compare values and rankings with those of previously published reports, because of revisions and updates of the underlying data and adjustments to goalposts. Readers are advised to assess progress in HDI values by referring to table 2 ('Human Development Index Trends') in the Statistical Annex of the report. Table 2 is based on consistent indicators, methodology and time-series data and thus shows real changes in values and ranks over time, reflecting the actual progress countries have made. Small changes in values should be interpreted with caution as they may not be statistically significant due to sampling variation. Generally speaking, changes at the level of the third decimal place in any of the composite indices are considered insignificant.

Unless otherwise specified in the source, tables use data available to the HDRO as of 15 November 2013. All indices and indicators, along with technical notes on the calculation of composite indices, and additional source information are available online at <http://hdr.undp.org/en/data>

For further details on how each index is calculated please refer to Technical Notes 1-5 and the associated background papers available on the Human Development Report website: <http://hdr.undp.org/en/data>

Human Development Index (HDI)

The HDI is a summary measure for assessing long-term progress in three basic dimensions of human development: a long and healthy life, access to knowledge and a decent standard of living. Just as in the 2013 HDR, a long and healthy life is measured by life expectancy. Access to knowledge is measured by: i) mean years of education among the adult population, which is the average number of years of education received in a life-time by people aged 25 years and older; and ii) expected years of schooling for children of school-entry age, which is the total number of years of schooling a child of school-entry age can expect to receive if prevailing patterns of age-specific enrolment rates stay the same throughout the child's life. Standard of living is measured by Gross National Income (GNI) per capita expressed in constant 2011 international dollars converted using purchasing power parity (PPP) rates.

To ensure as much cross-country comparability as possible, the HDI is based primarily on international data from the United Nations Population Division, the United Nations Educational, Scientific and Cultural

Organization Institute for Statistics and the World Bank. As stated in the introduction, the HDI values and ranks in this year's report are not comparable to those in past reports (including the 2013 HDR) because of a number of revisions to the component indicators. To allow for assessment of progress in HDIs, the 2014 report includes recalculated HDIs from 1980 to 2013.

Papua New Guinea's HDI value and rank

Papua New Guinea's HDI value for 2013 is 0.491— which is in the low human development category— positioning the country at 157 out of 187 countries and territories. Between 1980 and 2013, Papua New Guinea's HDI value increased from 0.323 to 0.491, an increase of 52.2 percent or an average annual increase of about 1.28 percent. The rank is shared with Solomon Islands.

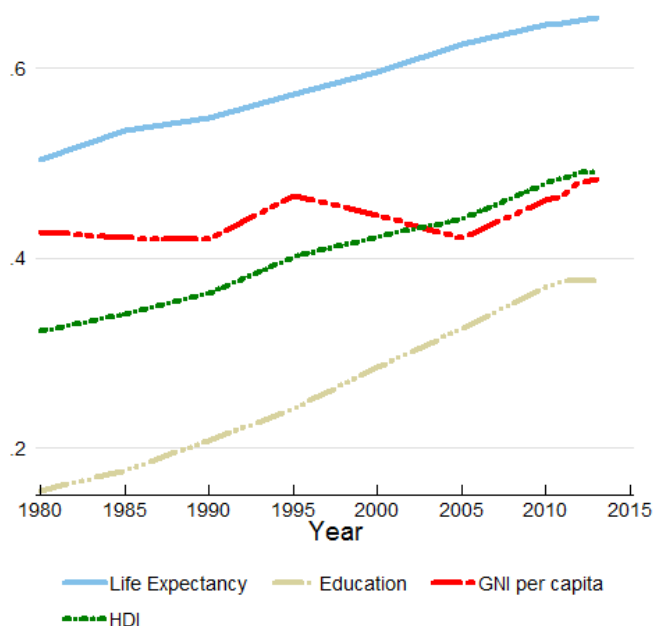
Table A reviews Papua New Guinea's progress in each of the HDI indicators. Between 1980 and 2013, Papua New Guinea's life expectancy at birth increased by 9.6 years, mean years of schooling increased by 2.7 years and expected years of schooling increased by 4.8 years. Papua New Guinea's GNI per capita increased by about 43.9 percent between 1980 and 2013.

Table A: Papua New Guinea's HDI trends based on consistent time series data and new goalposts

	Life expectancy at birth	Expected years of schooling	Mean years of schooling	GNI per capita (2011 PPP\$)	HDI value
1980	52.8	4.1	1.2	1,705	0.323
1985	54.7	4.2	1.8	1,622	0.341
1990	55.6	4.7	2.3	1,616	0.363
1995	57.2	5.2	2.9	2,181	0.401
2000	58.7	6.4	3.2	1,898	0.423
2005	60.6	7.5	3.5	1,621	0.441
2010	62.0	8.6	3.9	2,112	0.479
2011	62.2	8.9	3.9	2,183	0.484
2012	62.3	8.9	3.9	2,404	0.490
2013	62.4	8.9	3.9	2,453	0.491

Figure 1 below shows the contribution of each component index to Papua New Guinea's HDI since 1980.

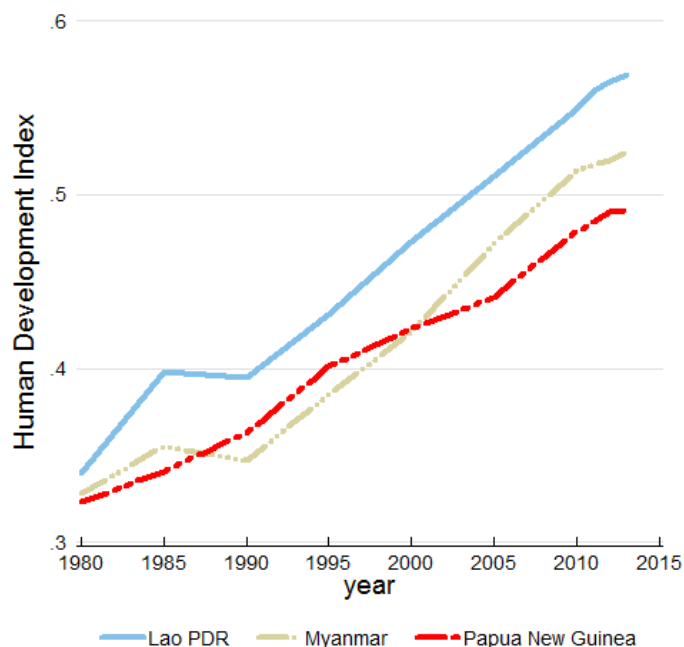
Figure 1: Trends in Papua New Guinea's HDI component indices 1980-2013



Assessing progress relative to other countries

Long-term progress can be usefully compared to other countries. For instance, during the period between 1980 and 2013 Papua New Guinea, Myanmar and Lao PDR experienced different degrees of progress toward increasing their HDIs (see figure 2).

Figure 2: Trends in Papua New Guinea, Myanmar and Lao PDR's HDI 1980-2013



Papua New Guinea's 2013 HDI of 0.491 is below the average of 0.493 for countries in the low human development group and below the average of 0.703 for countries in East Asia and the Pacific. From East Asia and the Pacific, countries which are close to Papua New Guinea in 2013 HDI rank and to some extent in population size are Solomon Islands and the Lao People's Democratic Republic, which have HDIs ranked 158 and 139 respectively (see table B).

Table B: Papua New Guinea's HDI indicators for 2013 relative to selected countries and groups

	HDI value	HDI rank	Life expectancy at birth	Expected years of schooling	Mean years of schooling	GNI per capita (PPP US\$)
Papua New Guinea	0.491	157	62.4	8.9	3.9	2,453
Solomon Islands	0.491	158	67.7	9.2	4.5	1,385
Lao People's Democratic Republic	0.569	139	68.3	10.2	4.6	4,351
East Asia and the Pacific	0.703	—	74.0	12.5	7.4	10,499
Low HDI	0.493	—	59.4	9.0	4.2	2,904

Inequality-adjusted HDI (IHDI)

The HDI is an average measure of basic human development achievements in a country. Like all averages, the HDI masks inequality in the distribution of human development across the population at the country level. The 2010 HDR introduced the Inequality-Adjusted HDI (IHDI), which takes into account inequality in all three dimensions of the HDI by 'discounting' each dimension's average value according to its level of inequality. The IHDI is basically the HDI discounted for inequalities. The 'loss' in human

development due to inequality is given by the difference between the HDI and the IHDI, and can be expressed as a percentage. As the inequality in a country increases, the loss in human development also increases. We also present the coefficient of human inequality as a direct measure of inequality which is an unweighted average of inequalities in three dimensions. For more details see technical note 2. Due to a lack of relevant data, the IHDI has not been calculated for this country.

Gender Inequality Index (GII)

The Gender Inequality Index (GII) reflects gender-based inequalities in three dimensions – reproductive health, empowerment, and economic activity. Reproductive health is measured by maternal mortality and adolescent birth rates; empowerment is measured by the share of parliamentary seats held by women and attainment in secondary and higher education by each gender; and economic activity is measured by the labour market participation rate for women and men. The GII can be interpreted as the loss in human development due to inequality between female and male achievements in the three GII dimensions. (For more details on GII please see Technical Note 3.)

Papua New Guinea has a GII value of 0.617, ranking it 133 out of 149 countries in the 2013 index. In Papua New Guinea, 2.7 percent of parliamentary seats are held by women, and 6.8 percent of adult women have reached at least a secondary level of education compared to 14.1 percent of their male counterparts. For every 100,000 live births, 230.0 women die from pregnancy related causes; and the adolescent birth rate is 62.1 births per 1000 live births. Female participation in the labour market is 70.5 percent compared to 74.0 for men.

In comparison, the Lao People's Democratic Republic is ranked at 118 on this index.

Table D: Papua New Guinea's GII for 2013 relative to selected countries and groups

	GII value	GII Rank	Maternal mortality ratio	Adolescent birth rate	Female seats in parliament (%)	Population with at least some secondary education (%)		Labour force participation rate (%)	
						Female	Male	Female	Male
Papua New Guinea	0.617	133	230.0	62.1	2.7	6.8	14.1	70.5	74.0
Lao People's Democratic Republic	0.534	118	470.0	65.0	25.0	22.9	36.8	76.3	78.9
East Asia and the Pacific	0.331	—	72.0	19.7	18.7	54.6	66.4	62.8	79.3
Low HDI	0.586	—	427.0	91.1	20.0	15.2	29.1	55.7	78.4

Gender Development Index (GDI)

In the 2014 HDR, we introduce a new measure, the Gender Development Index (GDI) based on the sex-disaggregated Human Development Index, defined as a ratio of the female to the male HDI. The GDI measures gender inequalities in achievement in three basic dimensions of human development—health (measured by female and male life expectancy at birth), education (measured by female and male expected years of schooling for children and mean years for adults aged 25 years and older); and command over economic resources (measured by female and male estimated GNI per capita). For details on how the index is constructed refer to Technical Note 4. Country rankings are based on absolute deviation from gender parity in HDI. What this means is that ranking takes into consideration inequality in favour of men or women equally. Due to a lack of relevant data, the GDI has not been calculated for this country.

Multidimensional Poverty Index (MPI)

The 2010 HDR introduced the Multidimensional Poverty Index (MPI), which identifies multiple deprivations in the same households in education, health and living standards. The education and health dimensions are each based on two indicators, while the standard of living dimension is based on six indicators. All of the indicators needed to construct the MPI for a household are taken from the same household survey. The indicators are weighted to create a deprivation score, and the deprivation scores are computed for each household in the survey. A deprivation score of 33.3 percent (one-third of the weighted indicators), is used to distinguish between the poor and nonpoor. If the household deprivation score is 33.3 percent or greater, the household (and everyone in it) is classed as multidimensionally poor. Households with a deprivation score greater than or equal to 20 percent but less than 33.3 percent are *near multidimensional poverty*. Definitions of deprivations in each dimension, as well as methodology of the MPI are given in Technical note 5 and in Calderon and Kovacevic 2014. Due to a lack of relevant data, the MPI has not been calculated for this country.