# Equity profile Albania

This analysis is based on a methodology developed from 2010 and 2020[[1]](#footnote-1) [[2]](#footnote-2) [[3]](#footnote-3).It uses international data sources to identify global wellbeing references, identifies the levels replicable to all and estimates the deficit from those by country, time-period, sex and age group.

This new way of looking at a country’s performance on ecology, economy and wellbeing within the feasible and sustainable parameters, can stimulate further subnational analysis and more precise and useful elements to drive local, national and international policies towards equity.

Methodology

The only global health objective agreed by all countries is the constitution of the World Health Organization, which aims at the “*best feasible level of health for all*”. With international data - from 1960-2020- we identified such “best feasible level of health” and selected countries with good health (life expectancy above world average) with “globally feasible” economic (GDP and wealth pcy < world average) and ecologic conditions (bio capacity < world average and ecological and carbon footprint < sustainable threshold) sustainable in time, hence safeguarding intergenerational equity.

Using those *healthy, replicable and sustainable* (HRS) models[[4]](#footnote-4), we adjusted mortality rates by age and sex published by the UN Population Division every five years. We call the excess mortality above that from the HRS models, the *burden of health inequity*. The analysis also allows setting the “*dignity threshold*” (below which no country has achieved that best feasible health) and the “*upper threshold*” (above which wellbeing does not improve). Those thresholds frame the *equity curve* between both and the level of *redistribution required* for those under the dignity threshold (in need of net support) or from those above the upper threshold (ethically responsible for net contribution).

Taking into account the negative impact on third countries by excess income pc or excess carbon emissions pc, we estimated the *Sustainable and Equitable Wellbeing (SEW) Index[[5]](#footnote-5).* The methodology we hereby propose challenges XXth century concepts such as high income-development models, constant GDP growth, poverty, ODA and the human development index. The hereby suggested “*equity lenses*” provide a useful tool to identify *alternative wellbeing models*, subnational analysis and policies towards territorial and fiscal equity and individual and collective conscious responsibility based on the ethical principle of equity.

Figure 1 Global equity curve between dignity and excess thresholds allowing best feasible level of health for all



Our analysis reveals that the best levels of wellbeing (through proxy life expectancy) can be achieved within the equity curve, which accommodates all countries, and within them, all peoples above the dignity threshold and below the upper threshold. In 2020 the equity scope was from 4,000-18,000 GDP pc CV, below which no country could achieve best feasible levels of health (right to health) and above which wellbeing did not improve any further while no country was ecologically sustainable and the excess income prevented others from the right to health.

## Comparison with neighbour countries and other with similar natural and economic means

The first attempt to assess a situation is to compare with others in similar conditions and identify the potential to improve. The following table compares the ecological, economic and wellbeing indicators (including the burden of health inequity) with the closest countries (geographically and with historical and cultural links) to Albania:

Table 1 Comparative analysis with neighbouring countries

The above table shows how Albania has a bio capacity lower than both neighbour countries, Serbia and Greece, and economic power (estimated though GDP CV) lower than both. It uses natural resources (measured by the ecological footprint) at a rate lower than both. The level of life expectancy at birth is between the two neighbour countries.

Table 2 Comparative analysis with countries of similar natural and economic means

The countries with closest levels of GDP CV pcy (proxy of average income, subject to subnational inequities) and bio capacity pcy, are Georgia and Iran. Albaniahas a life expectancy at birth above the two mentioned countries.

Table 3 Comparative analysis with the international average and the HRS reference indicators

The table above shows the relation of the ecologic, economic and health main indicators of Albania with the international average and with the Healthy-Replicable-Sustainable standards.

It reveals that the bio capacity of Albania is 63% of the world average, hence being replicable at global level. The ecological footprint of Albania is 72% of the international average and 123% of the recycling threshold, hence ecologically non-sustainable. As regards the balance with its own natural resources, the ecological footprint of Albania is 195% of its average bio capacity pcy, therefore it is unsustainable at national level. The level of CO2 emissions pcy is 39% of the international level and 99% of the ethical threshold, therefore preventing global warming.

As regards the economic indicators, Albania’s GDP CV pc is 44% of the international average (hence economically replicable) and 125% of the HRS reference. Its cumulative wealth pcy is 51% of the international average and 179% of the HRS reference.

In terms of health, the life expectancy in Albania is 5.91 years above the international average (5.46 in women and 6.37 above in men) and 1.85 years above the HRS level (0.17 above in women and 3.52 above in men) with a proportional sex difference of 4.46%, lower than the world’s average.

## HRS indicators 1961-2020

### Ecologic indicators:

The following graphs represent the annual average levels of the nature’s recycling capacity in hectares pcy (bio capacity), the rate at which such resources are used (ecological footprint) and the level of CO2 emissions pcy in Albania. These indicators are compared with the international average and the recycling threshold above which the level is not replicable (bio capacity pcy) or not sustainable (ecological and carbon footprints), leading to nature’s depletion and (in the case of CO2 emissions) global warming.

Figure 2 Bio capacity pcy vs. world average 1961-2020

Figure 3 Ecological footprint pcy vs world average and recycling threshold 1961-2020

Figure 4 CO2 emissions pcy vs world average and ethical threshold 1960-2020

As the graphs above show, Albania has a bio capacity pcy replicable at global level, regarding its ecological footprint it is ecologically non-sustainable at global level and its present level of CO2 emissions is preventing global warming above 1.5 degrees during this century. The use of natural resources is however unsustainable at national level.

### Economic indicators:

The graphs below the annual average levels of economic flows measured by GDP constant value (CV) and Purchasing Power Parity (PPP) pcy.

Figure 5 GDP CV pcy vs international average, dignity and excess thresholds 1961-2020

The above figure shows the trend of the GDP CV pc in Albania in relation with the levels of the international average, the HRS reference (below which no country in 60 years has achieved the feasible best level of health for all –hence named “dignity threshold”)- and upper limit (symmetrical level above which wellbeing does not increase further while it hampers others’ reach of the dignity level and is not compatible with respecting planetary boundaries –hence named “excess threshold”-). The overall GDP of Albania is $13952755460, *0.0171%* of the world’s GDP (while being *0.0381%* of the world’s population), which translates in GDP pc $4876pcy, as mentioned above, 44% of the international average and 125% of the HRS reference.

 Figure 6 GDP PPP pcy vs equity thresholds 1986-2020

The graphs above show that the level of GDP CV and PPP pcy during the study period (1961-2020 for CV and 2000-2020 for PPP) in Albania is replicable globally considering the level of global economic resources.

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### Health indicators:

The graphs below represent the level of life expectancy at birth evolving over time from 1961 until 2020, and comparing the levels of Albania with those of the international average and the HRS reference.

Figure 10 Life expectancy by sex and time periods vs. international average and HRS reference, 1961-2020

The graph above shows the relation of life expectancy in Albania, between 1961-2020; with the international average and the HRS reference. Such gap is today 5.46 above the international average in women and 6.37 above in men, and 0.17 years above in women and 3.52 above in men than the HRS reference.

Figure 11 Healthy life expectancy vs international average and HRS standard, 1996-2020

The estimates of the World Health Organization, of the healthy life expectancy (HALE), accounting for disability as well, reflect that the trend of HALE in Albania, in relation with the international and HRS average. At present, the estimated level of healthy life expectancy in Albania is 108% of the international average and 103% of the HRS level.

Figure 12 Life expectancy gap by sex, vs international average 1961-2020

Figure 13 LE % lower in men than in women, vs international average 1961-2020

What the graphs above show is the trend in the difference between life expectancy between men and women in Albania. It stands today at 3.58 years lower in men, which is lower than the world % difference (at present some 6%).

## Burden of health inequity

### Burden vs. HRS reference:

As mentioned in the methodology, we selected the country (Sri Lanka) which has maintained the ecological sustainability, economic replicability and the health above average as the reference to compare mortality rates by sex, age group and time period and estimated, through adjust mortality rates the excess mortality from those feasible standards.

Figure 15 nBHiE ref HRS by sex and time period 1961-2020

The above graph represents the excess mortality in Albania, (with 125% GDP CV pc of the HRS reference), that is, the net burden of health inequity (nBHiE). Today it stands at 789 in women and 314 in men, a total of 1103, which is *0.0069%* of the world’s total (compared with Albania’s *0.0381%* of the world’s population).

Figure 16 nBHiE by sex and age group 2016-2020

The above figure represents the age distribution of the excess mortality in reference to the HRS feasible-for-all levels. It reflects higher rates in under-5s and in older adults.

Figure 17 rBHiE by sex and time period vs international average, 1961-2020

The share of all deaths that was in excess in Albania when compared with the feasible mortality rates in the HRS reference, allows comparison in time and with other countries and the international reference as it is not influenced by the size and/or shape of the demographic pyramid. It was is today of 7.49% in women and 2.61% in men, an average of 5.05%, 18% of the world’s average.

Figure 18 rBHiE by sex and age vs international average, 2016-2020

The above figure represents the age distribution of the share of excess mortality in reference to the HRS feasible-for-all levels and reveals, higher shares in under-5s and in older adults.

### Burden vs. best SEW reference:

While the minimum aspiration of feasible health for all is the HRS reference, which uses 40% of the world’s average resources per person, the comparison with the best level of sustainable and equitable wellbeing (see below), Costa Rica, challenges to higher levels of wellbeing within the equity curve and void of negative impact from excess income or CO2 emissions.

Figure 19 nBHiE ref best SEW, by sex and time period 1961-2020



The above figure reveals how the comparison of mortality rates by sex, age group and time period between Albania and the best SEW reference (with 40.99% of its GDP CV pc). The trend reflects socioeconomic and ecologic conditions over the last 60 years in Albania and in the best SEW country (Costa Rica). It stands today at 3161 in women and 2078 in men, totalling 5298 excess deaths (*0.0236%* of the world’s total burden ref. best SEW vs. being *0.0381%* of the population).

Figure 20 nBHiE by age and sex vs international average, 1916-2020

The above figure represents the age distribution of the excess mortality in reference to the best SEW reference. It reflects mild rates in under-5s and higher in adults older than 70 years old.

Figure 21 rBHiE by sex and time period vs international average, 1961-2020

The figure above shows the share of excess mortality ref. best SEW in relation to the total number of deaths, that is, the rBHiE. It evolved during the 1961-2020 period until today’s level of 23.49% (59% of the world’s level-close to 40%-), 30.02% in women and 17.27% in men.

Figure 22rBHiE by sex and age group vs international average, 1916-2020

The above figure represents the age distribution of the share of excess mortality in reference to the HRS feasible-for-all levels and reveals, higher shares in under-10s and in older than 70 years old, more so in women.

## Sustainable and Equitable Wellbeing (SEW) index

Figure LYL on others by excess emissions and excess income, 1961-2020

Figure 24Sustainable and equitable wellbeing index, 1961-2020

This last figure of our analysis of the equity profile in Albania reveals the sustainable and equitable index, that is, the average life expectancy at birth after deducting the damage on other countries through excess income (in the present generations) and through excess CO2 emissions (in the coming generations). We estimated one week life lost per annual GDP pc 1000$ above the excess threshold and two life days lost per annual excess CO2 mTon above the ethical threshold[[6]](#footnote-6) [[7]](#footnote-7). With 0.00 impact through excess carbon emissions and 0.00 by excess income, it stands today at 78.36 life years, and ranks 8 in the world, 61 positions above the Human development Index (which does not limit CO2 emissions or excess GDP pc income).

In summary, the equity profile of Albania, reveals that with 63% of the world average bio capacity pcy, its ecological footprint is 123% of the global recycling threshold (non-sustainable) and however 195% of its national recycling capacity (unsustainable). The level of CO2 emissions pcy is 99% of the ethical threshold, therefore preventing global warming. Albania’s GDP CV pc is 44% of the international average and 125% of the HRS reference. Life expectancy is 5.91 years above the international average (5.46 in women and 6.37 above in men) with a proportional sex difference of 4.46% higher in women, lower than the world’s average. The present annual excess mortality in Albania, in relation to HRS reference (feasible for all), is of 1103 (789 in women and 314 in men), meaning 5.05%of all deaths (7.49% in women and 2.61% in men). When compared with the best level of sustainable and equitable wellbeing, the present annual excess mortality rises to 5298, 23.49% of all deaths. The Sustainable and Equitable Wellbeing index, that is, the life expectancy at birth after deducting the damage on other countries through excess income (in the present generations) and through excess CO2 emissions (in the coming generations) stands today at 78.36 life years, and ranks 8 in the world.

1. https://www.sciencedirect.com/science/article/pii/S0033350617301610 [↑](#footnote-ref-1)
2. https://oxfordre.com/publichealth/view/10.1093/acrefore/9780190632366.001.0001/acrefore-9780190632366-e-62?rskey=fNaAhA&result=2 [↑](#footnote-ref-2)
3. http://www.peah.it/2021/04/9658/ [↑](#footnote-ref-3)
4. From 1960-2010 the countries which met all criteria constantly were Albania, Armenia, Belize, Colombia, Costa Rica, Cuba, Grenada, Saint Lucia, Saint Vincent, Georgia, Paraguay, Sri Lanka, Tonga and Vietnam, from 1960-2015 they were reduced to Armenia, Colombia, Costa Rica, Paraguay, Sri- Lanka and Tonga and from 1960-2020 only Sri Lanka remains. [↑](#footnote-ref-4)
5. The country with best SEW index, within the equity curve is Costa Rica. [↑](#footnote-ref-5)
6. <http://www.peah.it/2021/04/9658/> [↑](#footnote-ref-6)
7. <http://www.peah.it/2018/07/5498/> [↑](#footnote-ref-7)