



Madagascar

Sectoral Scenarios for Madagascar

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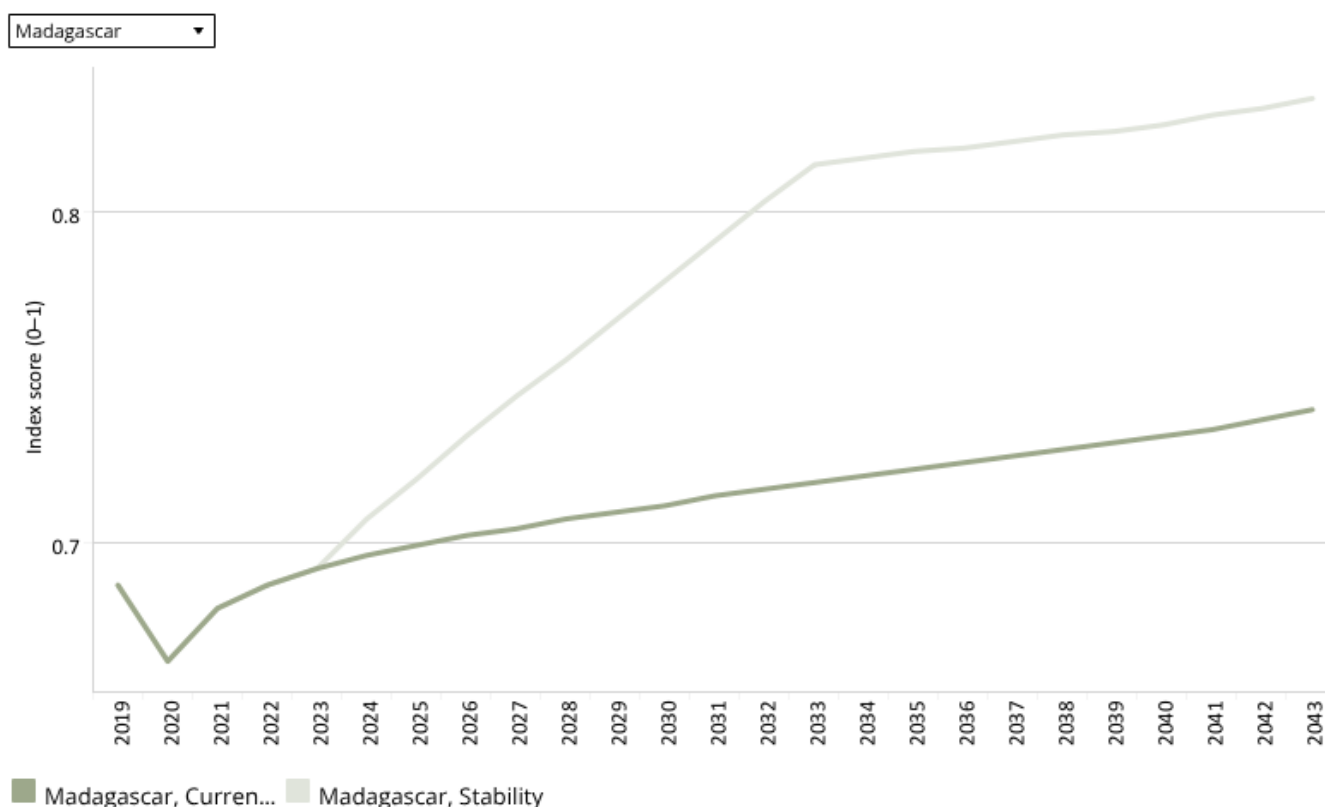
Sectoral Scenarios for Madagascar

- Stability scenario
- Demographic scenario
- Health/WaSH scenario
- Agriculture scenario
- Education scenario
- Manufacturing scenario
- Leapfrogging scenario
- Free Trade scenario
- Financial Flows scenario
- Infrastructure scenario
- Governance scenario
- Impact of scenarios on carbon emissions



Stability scenario

Chart 13: Governance security in CP and Stability scenario, 2019–2043
IFs index 0–1



Source: IFs 7.63 governance security index using internal war and government risk

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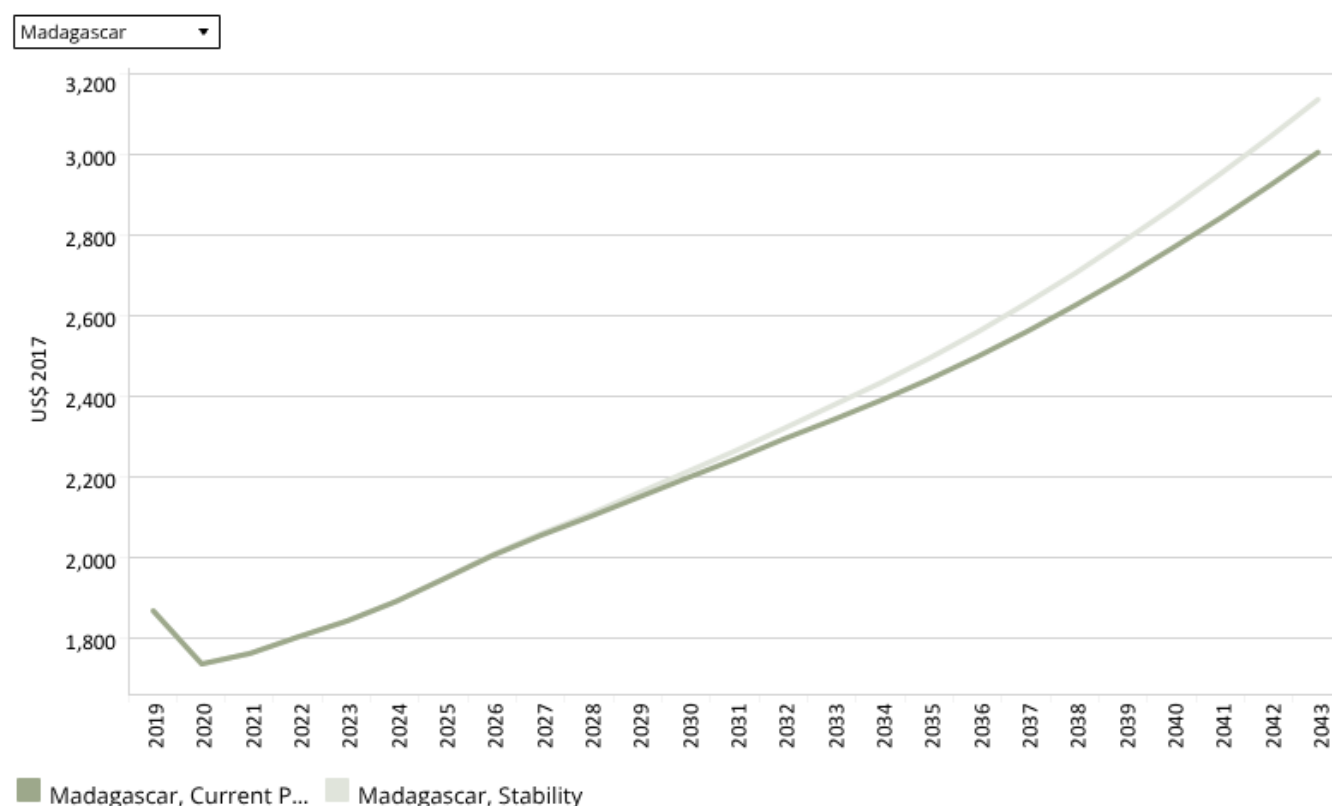
The Stability scenario represents reasonable but ambitious reductions in the risk of regime instability and lower levels of

internal conflict. Stability is generally a prerequisite for other aspects of development and this would encourage inflows of foreign direct investment (FDI) and improve business confidence. Better governance through the accountability that follows substantive democracy is modelled separately.

The intervention is explained [here](#) in the thematic part of the website.

In 2019, Madagascar scored 0.69 on the governance security index — slightly higher than the average score of 0.64 for its low-income peer group. With a score of 0.76, Rwanda is the group's best performer. In the Stability scenario, governance security in Madagascar is projected to improve to a score of 0.84 by 2043 compared to 0.74 in the Current Path forecast. By then, its income peer group on the continent is projected to score 0.96 on average versus 0.71 on the Current Path.

Chart 14: GDP per capita in CP and Stability scenario, 2019–2043
Purchasing power parity



Source: IFs 7.63 initialising from UN Population Division World Population Prospects and World Development Indicators data

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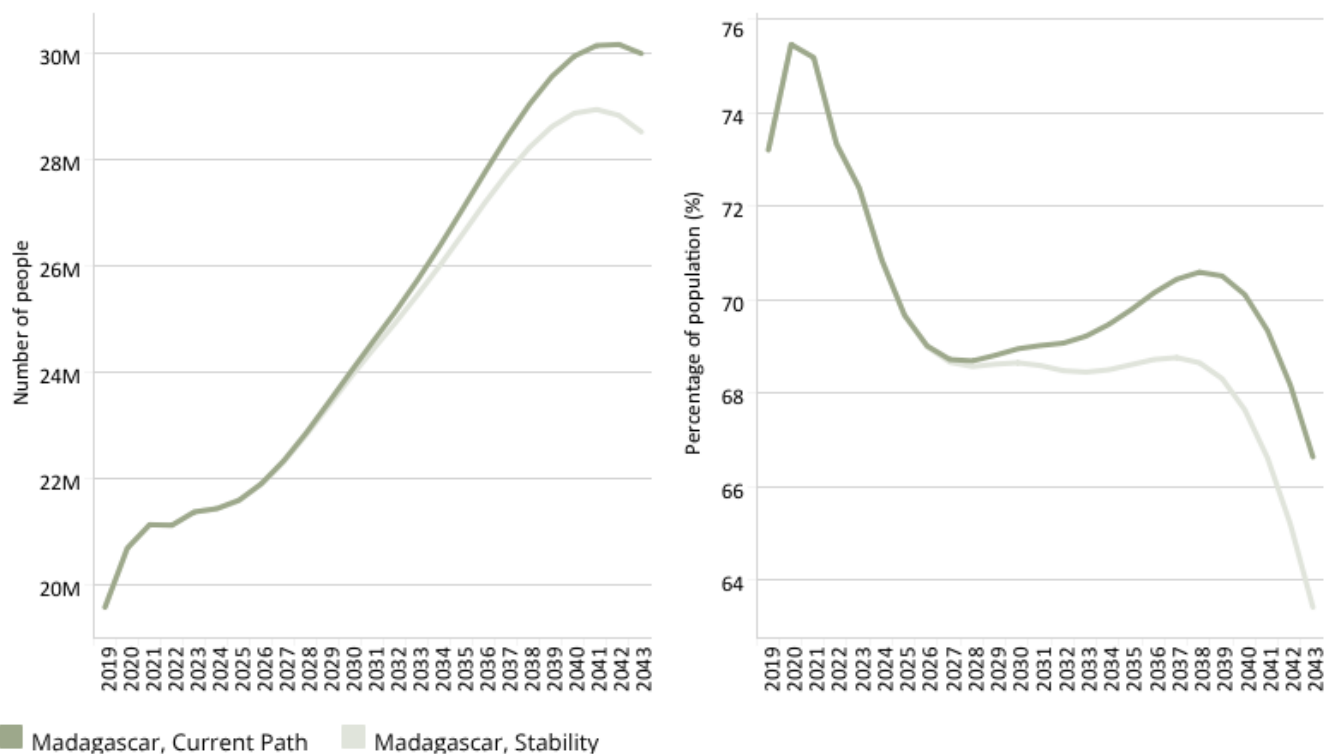
In 2019, Madagascar's GDP per capita was US\$1 972. The Stability scenario will lead to a higher GDP per capita of US\$3 135 by 2043 compared to the Current Path forecast of US\$3 004. However, Madagascar's GDP per capita is projected to lag behind the average of the African low-income group, whose GDP per capita will be US\$3 790 in 2043 in the Current Path forecast.

Chart 15: Poverty in CP and Stability scenario, 2019–2043

Millions of people and % of total population



Madagascar \$1.90



Source: IFs 7.63 initialising from UN Population Division Population Prospects estimate, World Development Indicators population data and PovcalNet World Bank data

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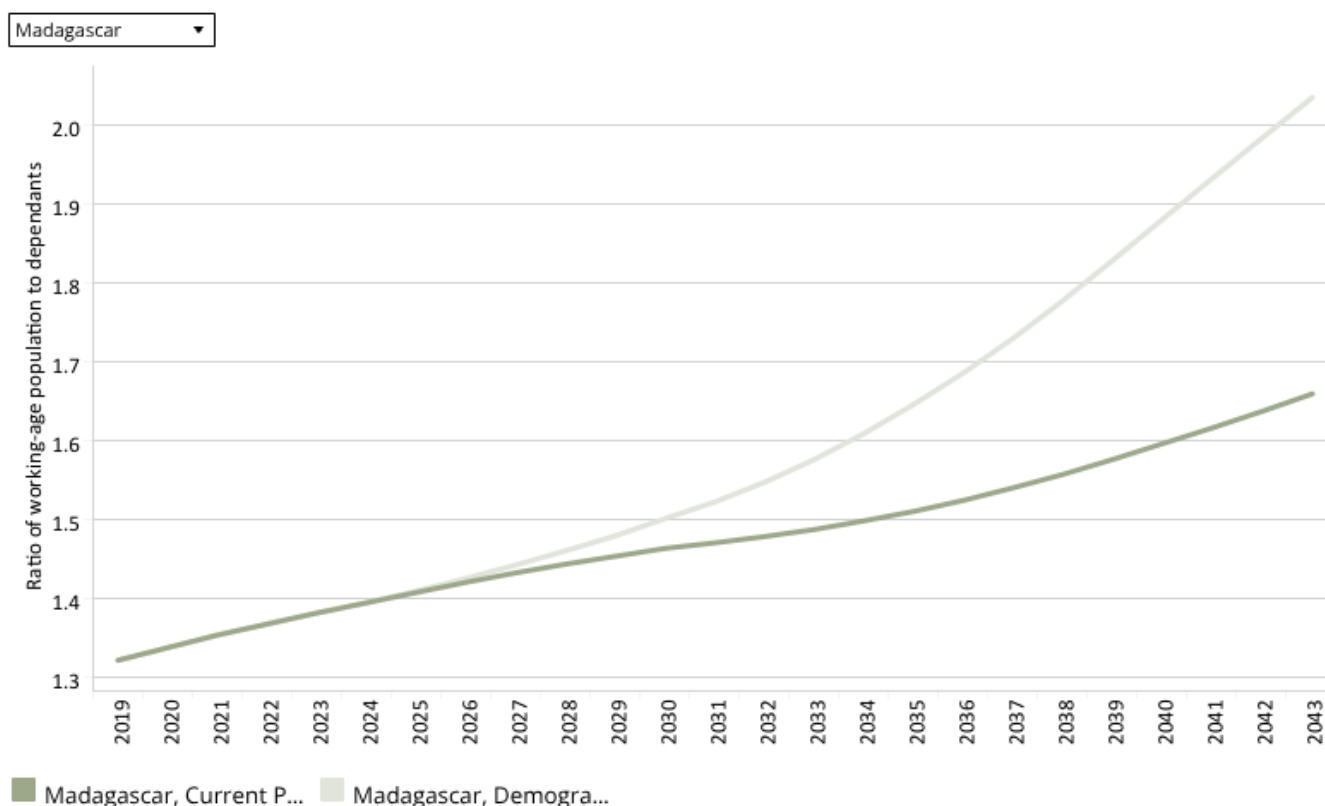
The Stability scenario will reduce the number of people living in extreme poverty by 1.5 million people compared to the Current Path forecast, reducing the absolute number from 28.5 million people to 30 million people by 2043.

In the Stability scenario, Madagascar's poverty rate could drop from 73.2% in 2019 to 63.4% in 2043 compared to 66.6% in the Current Path forecast. In other words, Madagascar could speed up its poverty reduction efforts, even if not by a great margin.



Demographic scenario

Chart 16: Demographic dividend in CP and Demog scenario, 2019–2043
Ratio of working-age population to dependants



Source: IFs 7.63 initialising from UN Population Division Population Prospects

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This section presents the impact of a Demographic scenario that aims to hasten and increase the demographic dividend through reasonable but ambitious reductions in the communicable-disease burden for children under five, the maternal mortality ratio and increased access to modern contraception.

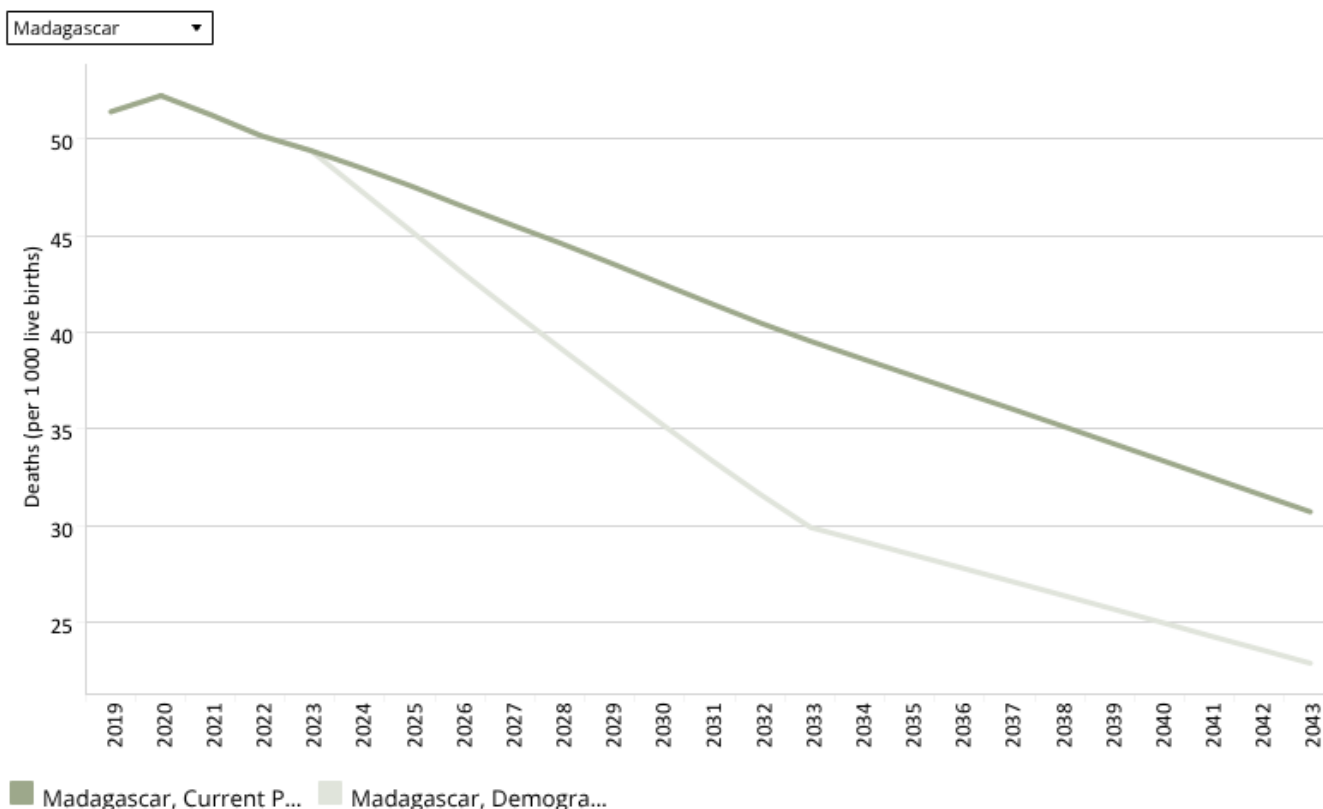
The intervention is explained [here](#) in the thematic part of the website.

Demographers typically differentiate between a first, second and even a third demographic dividend. We focus here on the contribution of the size of the labour force (between 15 and 64 years of age) relative to dependants (children and the elderly) as part of the first dividend. A window of opportunity opens when the ratio of the working-age population to dependants is equal to or surpasses 1.7.

Increasing access to modern contraception will bring down Madagascar's total fertility rate more quickly than on the Current Path: from 4.1 births per woman in 2019 to 2.1 in 2043, as opposed to 3 births on the Current Path. A lower total fertility rate would slow down Madagascar's population growth and bring about a somewhat faster change in the population age structure. The latter will result in a more favourable ratio between people of working age and dependants, especially children. In the Demographic scenario, Madagascar has the potential to accelerate its demographic transition by increasing the ratio of workers to dependants from 1.3 in 2019 to 2 in 2043, compared to 1.7 on the Current Path. This means that Madagascar could arrive at the 'demographic sweet spot' about seven years earlier than on the Current Path

and overtake many of its African low-income peers. The average African low-income country would on average get there by 2042 (from 1.5 in 2019 to 1.7 in 2043).

Chart 17: Infant mortality in CP and Demog scenario, 2019–2043
Deaths per 1 000 live births



Source: IFs 7.63 initialising from Institute for Health Metrics and Evaluation Mortality Visualization Tool data

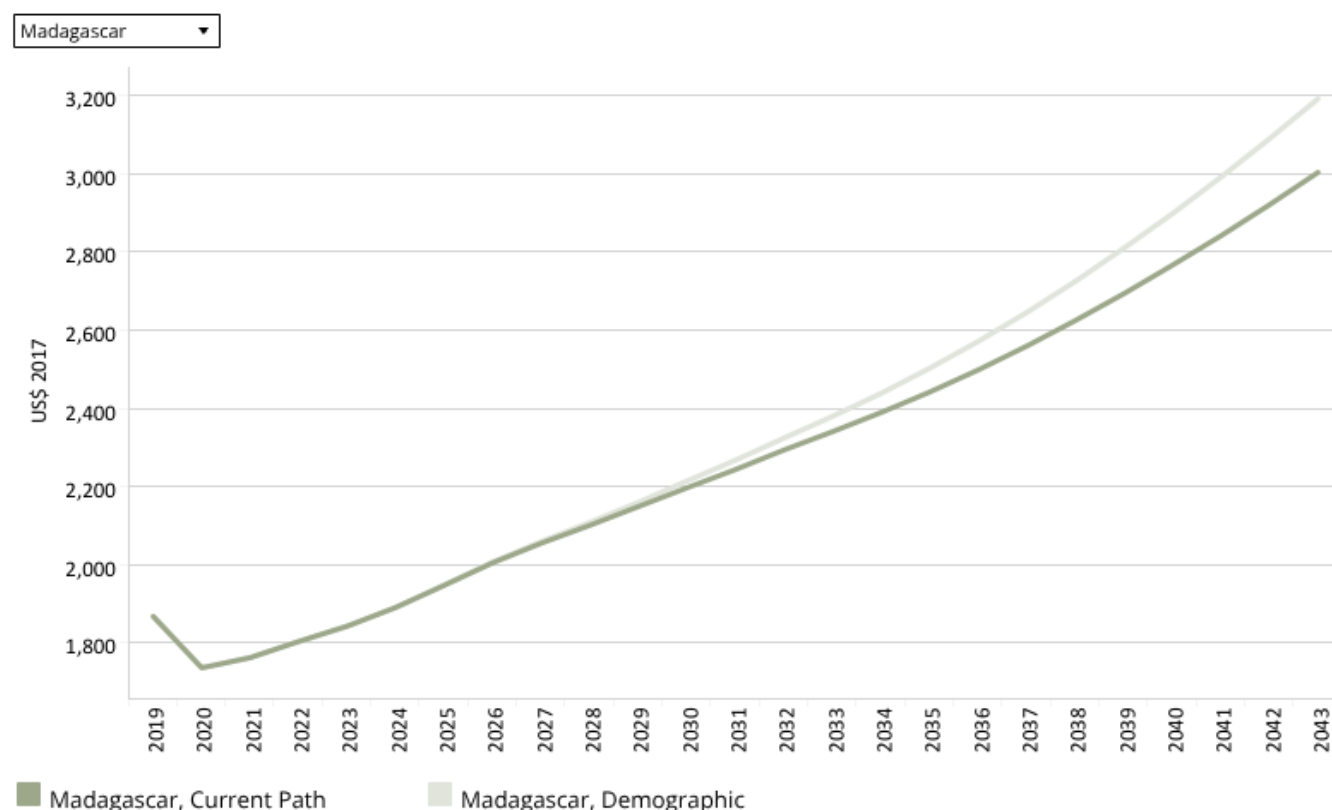
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The infant mortality rate is the number of infant deaths per 1 000 live births and is an important marker of the overall quality of the health system in a country.

At 51.4 infant deaths per 1 000 live births, infant mortality in Madagascar is high, although it has improved greatly since 1990 when it stood at a rate of 89.9. Yet, Madagascar is outperformed by its African low-income peer group with an average of 48.5 infant deaths per 1 000 live births. The Demographic scenario could reduce the country's infant mortality rate to 22.9 deaths per 1 000 live births by 2043 compared to 32.2 deaths in the Current Path forecast. In the same scenario, the average for low-income countries in Africa would fall to 16.9 by 2043.

Chart 18: GDP per capita in CP and Demog scenario, 2019–2043
Purchasing power parity



Source: IFs 7.63 initialising from UN Population Division World Population Prospects and World Development Indicators data

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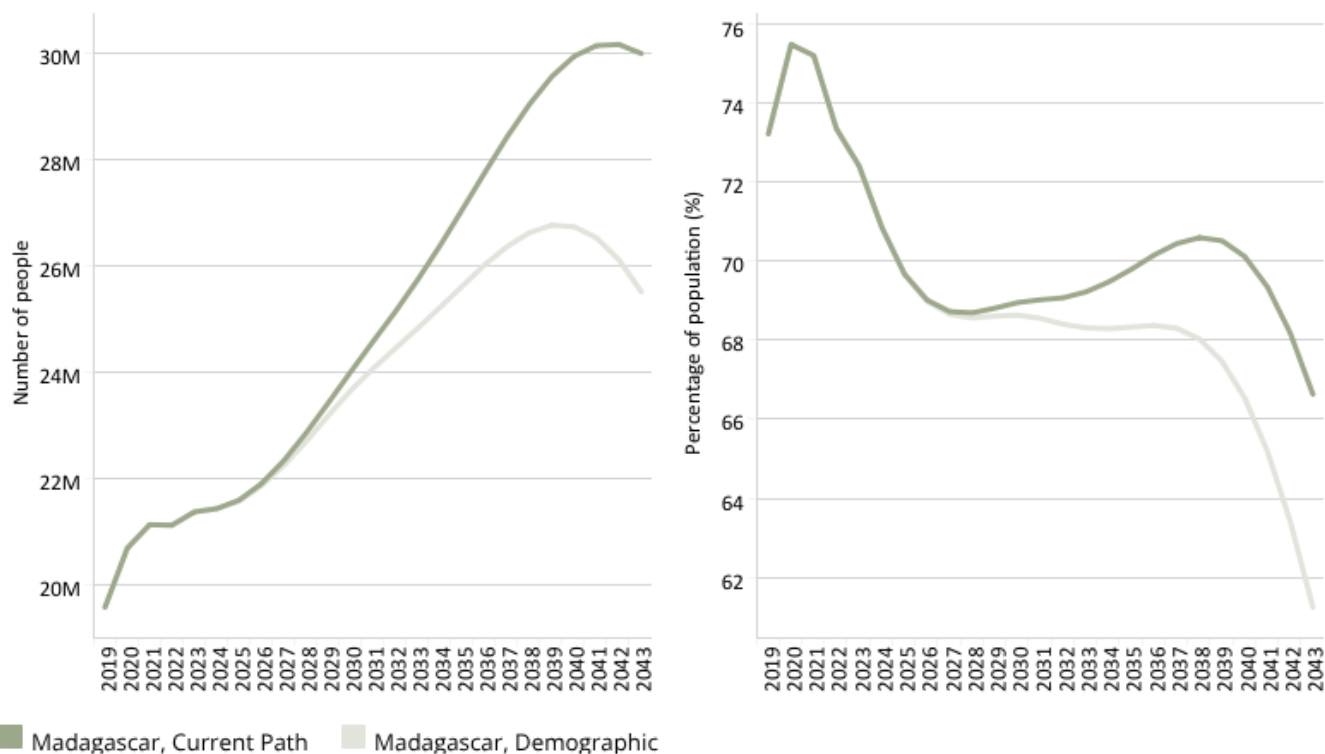
In 2019, Madagascar's GDP per capita was US\$1 867. By 2043, the Demographic scenario could push it to US\$3 193 compared to US\$3 004 on the Current Path. Regardless, the gap between Madagascar's GDP per capita and the expected average GDP per capita of its low-income peer group is set to remain in place. These countries are expected to have an average GDP per capita of US\$3 790 in 2043 in the Current Path forecast.

Chart 19: Poverty in CP and Demog scenario, 2019–2043

Millions of people and % of total population



Madagascar \$1.90



Source: IFs 7.63 initialising from UN Population Division Population Prospects estimate, World Development Indicators population data and PovcalNet World Bank data

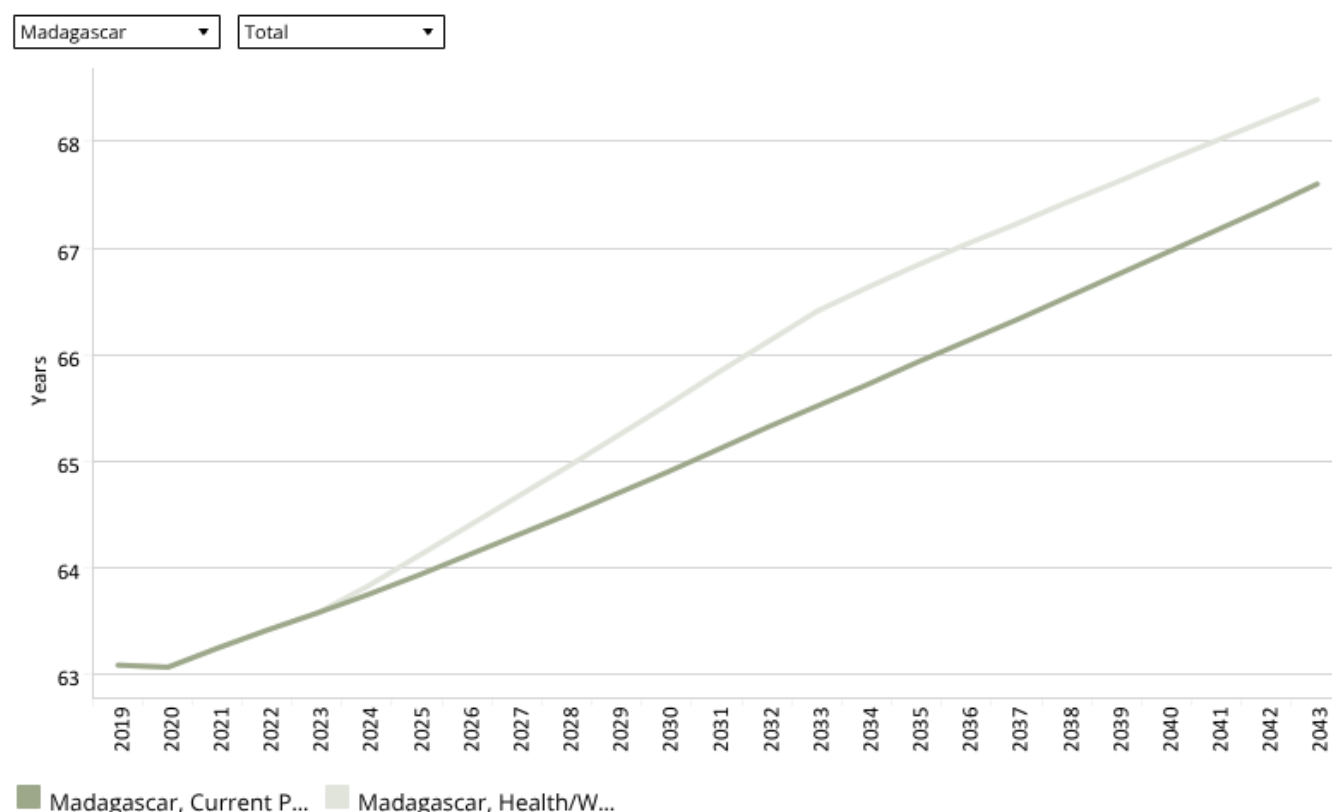
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Compared to the Current Path forecast, the Demographic scenario could reduce the number of people living in extreme poverty by 4.5 million in 2043. An expected total of 25.5 million people or 63.4% of the population would be living below the poverty line by 2043 compared to 66.6% in the Current Path forecast. Madagascar will continue to perform significantly below the average of its low-income peers. On average, the group of Africa's low-income economies is projected to have a poverty rate of 25.2% in the Current Path forecast.



Chart 20: Life expectancy in CP and Health/WaSH scenario, 2019–2043



Source: IFs 7.63 initialising from Institute for Health Metrics Evaluation GBD Foresight Tool data

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This section presents reasonable but ambitious improvements in the Health/WaSH scenario, which include reductions in the mortality rate associated with both communicable diseases (e.g. AIDS, diarrhoea, malaria and respiratory infections) and non-communicable diseases (NCDs) (e.g. diabetes), as well as improvements in access to safe water and better sanitation. The acronym WaSH stands for water, sanitation and hygiene.

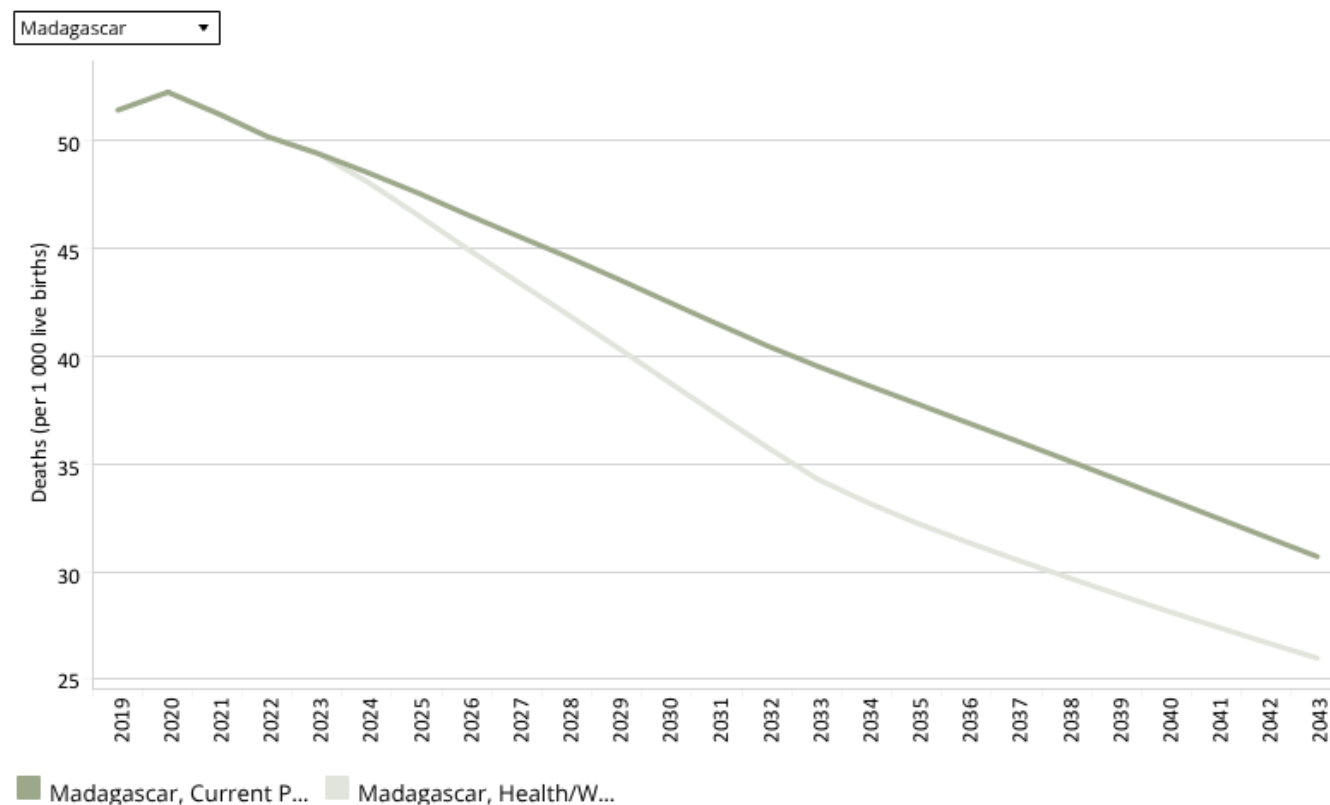
The intervention is explained [here](#) in the thematic part of the website.

In 2019, Madagascar's average life expectancy was 63.1 years, the tenth highest among its low-income peer economies on the continent. With a death rate of 3.8 deaths per 1 000 people, Madagascar's communicable-disease burden is significantly lower than the average rate of its income peer group, which stands at 8.1 deaths per 1 000 people. Madagascar is relatively more advanced in the epidemiological transition with communicable diseases accounting for almost as many deaths as infectious diseases.

On the Current Path forecast, the average citizen of Madagascar can expect to add about 4.5 years to their life expectancy and live to 67.6 years by 2043, slightly less than the expected average of 70.8 years for Africa's low-income economies. The Health/WaSH scenario has the potential to increase life expectancy from 63.1 years in 2019 to 68.4 years in 2043 — 0.8

years higher than in the Current Path forecast. Madagascar will perform below Africa's low-income economies average life expectancy, which will increase to 70.9 years in the Current Path forecast and to 71.4 years in the Health/WaSH scenario by 2043.

Chart 21: Infant mortality in CP and Health/WaSH scenario, 2019–2043
Deaths per 1 000 live births



Source: IFs 7.63 initialising from Institute for Health Metrics and Evaluation Mortality Visualization Tool data

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The Health/WaSH scenario would have a positive impact on Madagascar's infant mortality rate. The rate will drop from 51.4 in 2019 to 26 deaths per live births in 2043 compared to an expected rate of 32.2 in the Current Path forecast. Madagascar performs worse than the average low-income economy in Africa, which is expected to record an infant mortality rate of 21.3 deaths per 1 000 live births by 2043 in the Current Path forecast and 18.9 in the Health/WaSH scenario.

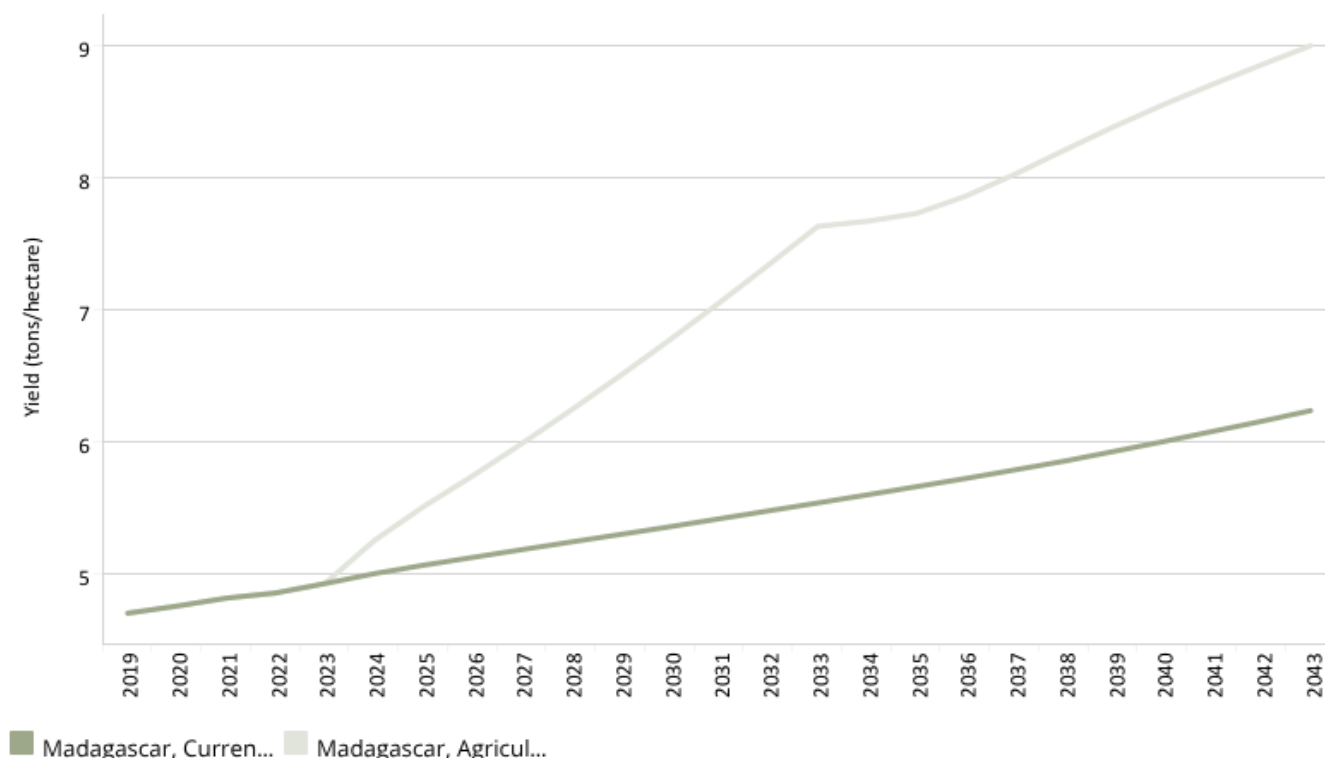


Agriculture scenario

Chart 22: Yield/hectare in CP and Agric scenario, 2019–2043
Pre-loss levels



Madagascar ▼



Source: IFs 7.63 initialising from FAOSTAT on-line statistical service data

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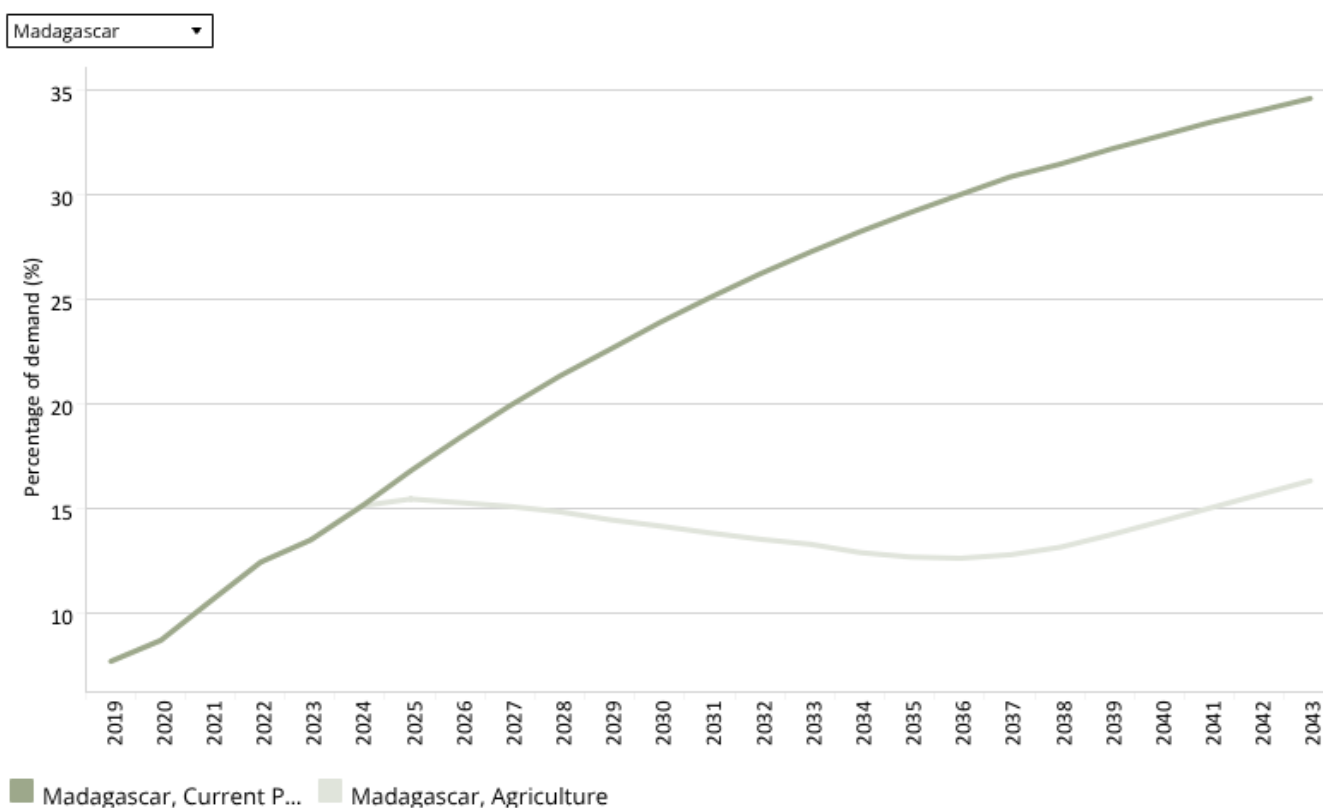
The Agriculture scenario represents reasonable but ambitious increases in yields per hectare (reflecting better management and seed and fertiliser technology), increased land under irrigation and reduced loss and waste. Where appropriate, it includes an increase in calorie consumption, reflecting the prioritisation of food self-sufficiency above food exports as a desirable policy objective.

The intervention is explained [here](#) in the thematic part of the website.

The data on yield per hectare (in metric tons) is for crops but does not distinguish between different categories of crops.

In 2019, crop yields in Madagascar stood at 4.7 metric tons per hectare which is above the average of 2.7 metric tons per hectare for its low-income peer group on the continent. According to the Current Path forecast, by 2043 yields in Madagascar will increase to 6.2 metric tons per hectare — an increase of about 32%. In the Agriculture scenario, on the other hand, yields could increase by more than 90% over the same time period and amount to 9 metric tons per hectare by 2043.

Chart 23: Agriculture imports in CP and Agric scenario, 2019–2043
Net imports for meat, crops and fish, % of demand



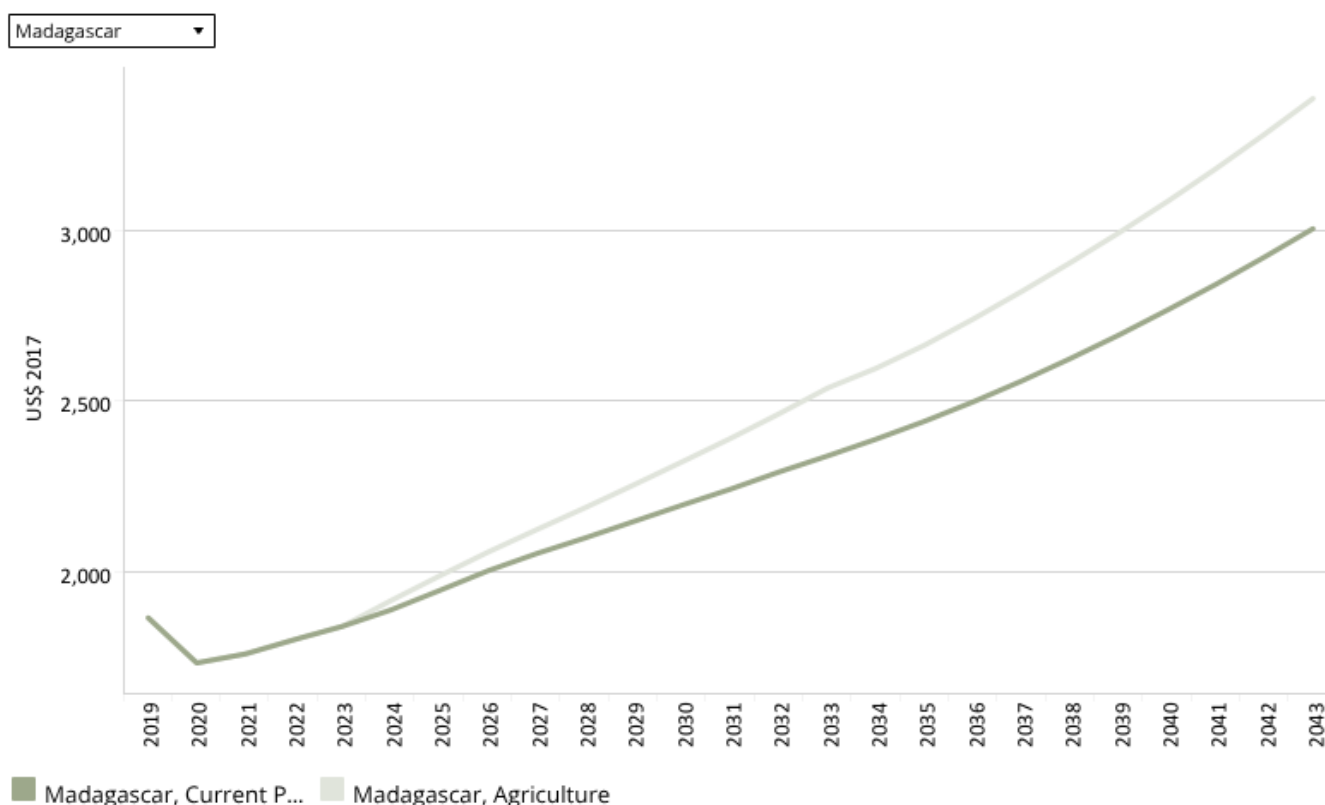
Source: IFs 7.63 initialising from Food and Agriculture Organization Food Balance Sheets data

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In 2019, net agricultural imports accounted for 7.7% of the country's demand. In the Current Path forecast, agricultural demand is increasingly outpacing production which will lead to greater import dependence. By 2043, net agricultural imports are expected to account for 34.6% of agricultural demand. The Agriculture scenario has the potential to increase production and reduce import dependence to meet the rapid increase in demand fuelled by population growth. In 2043, imports would account for 16.3% of demand — 18.3 percentage points less than in the Current Path forecast.

Chart 24: GDP per capita in the CP and Agric scenario, 2019–2043
Purchasing power parity



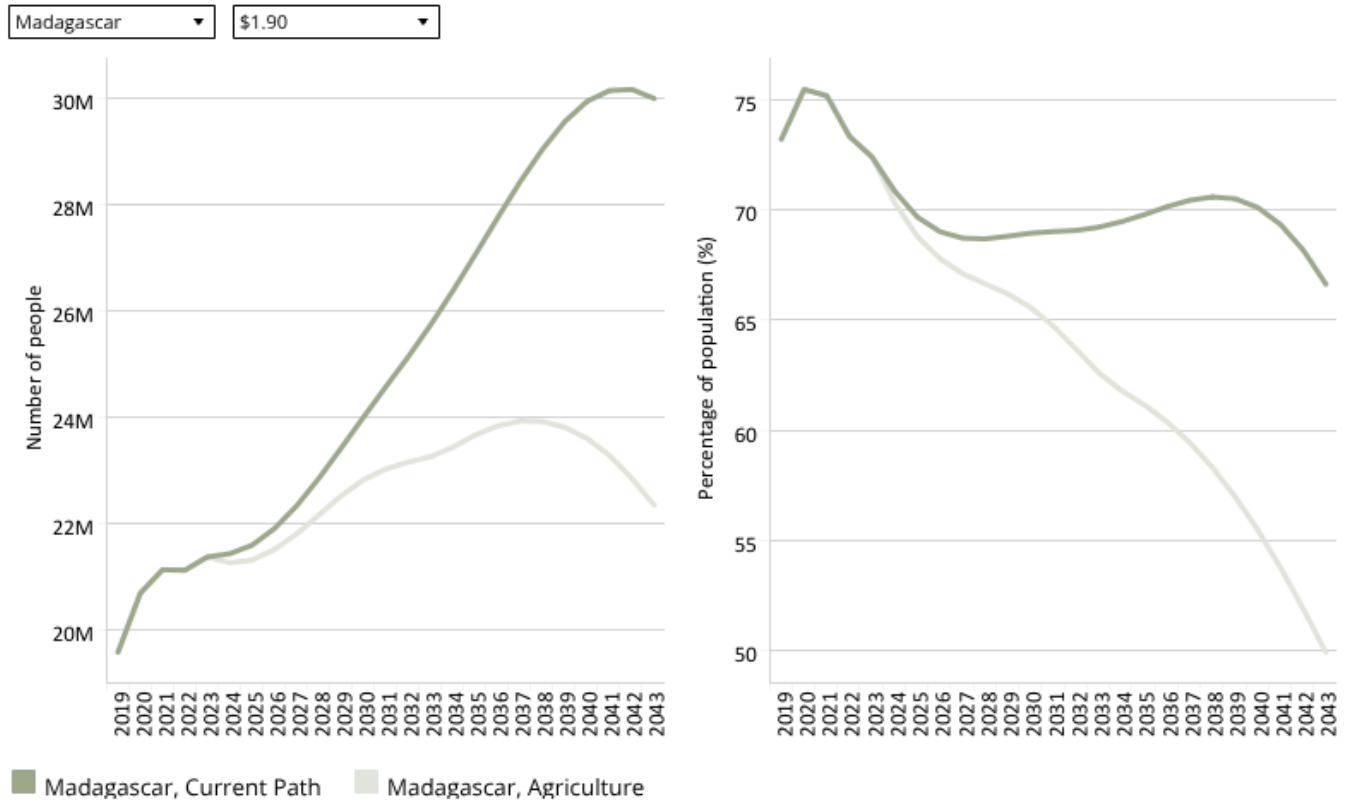
Source: IFs 7.63 initialising from UN Population Division World Population Prospects and World Development Indicators data

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The Agriculture scenario is expected to push Madagascar's GDP per capita to US\$3 384 by 2043 compared to the Current Path forecast of US\$3 004. Despite this boost, Madagascar's GDP per capita is not projected to match the average GDP per capita of its low-income peer economies, which is set to reach US\$3 790 in the Current Path forecast.

Chart 25: Poverty in CP and Agric scenario, 2019–2043
Millions of people and % of total population



Source: IFs 7.63 initialising from UN Population Division Population Prospects estimate, World Development Indicators population data and PovcalNet World Bank data

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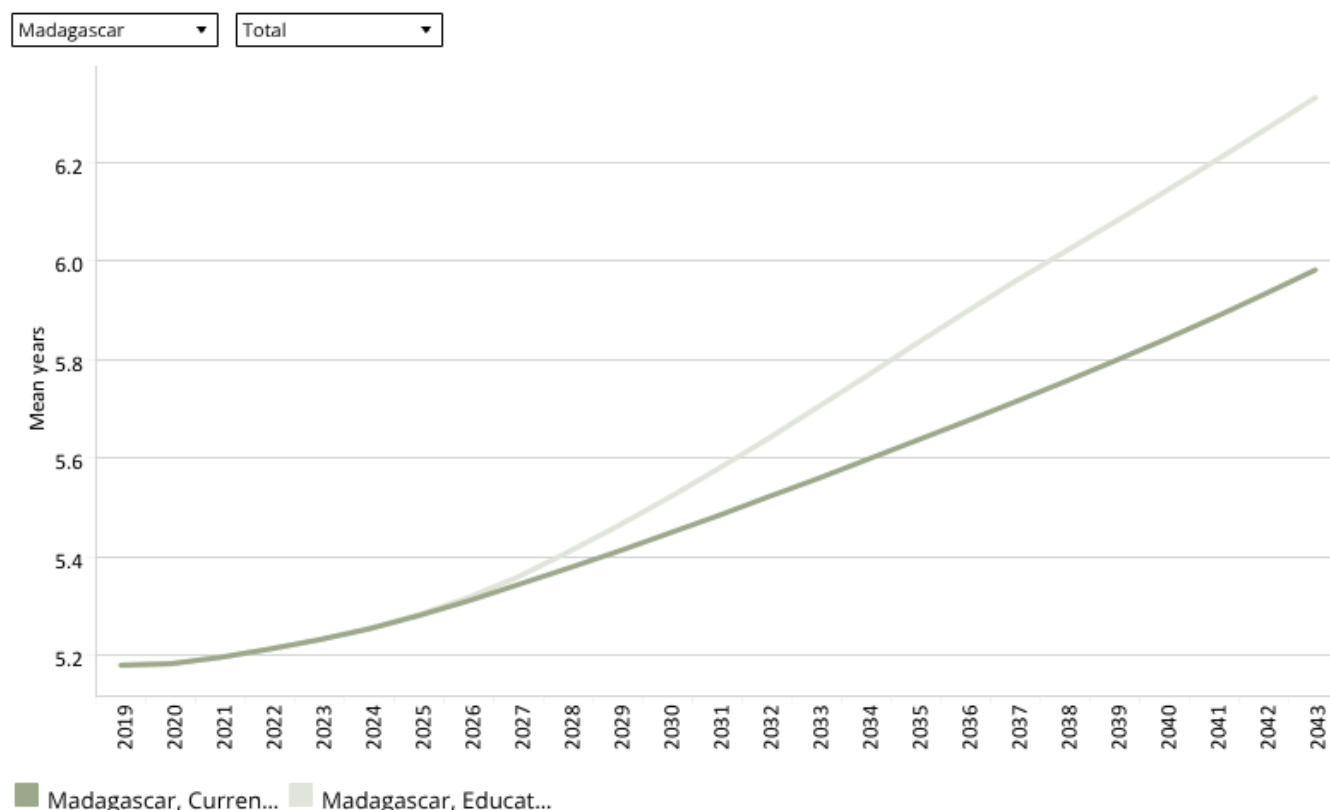
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The impact of the interventions in the Agriculture scenario on poverty in Madagascar is sizable. The scenario significantly reduces the share of the population living below the poverty line compared to the Current Path forecast: by 2043, 50% instead of 66.6% of the population will be extremely poor. The Agriculture scenario has the potential to prevent 7.6 million people falling into poverty by 2043, with 22.4 million people being extremely poor compared to 30 million in the Current Path forecast.



Education scenario

Chart 26: Mean years of education in CP and Educ scenario, 2019–2043
Mean years of adult (+15) education



Source: IFs 7.63 initialising from Barro-Lee data

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The Education scenario represents reasonable but ambitious improved intake, transition and graduation rates from primary to tertiary levels and better quality of education. It also models substantive progress towards gender parity at all levels, additional vocational training at secondary school level and increases in the share of science and engineering graduates.

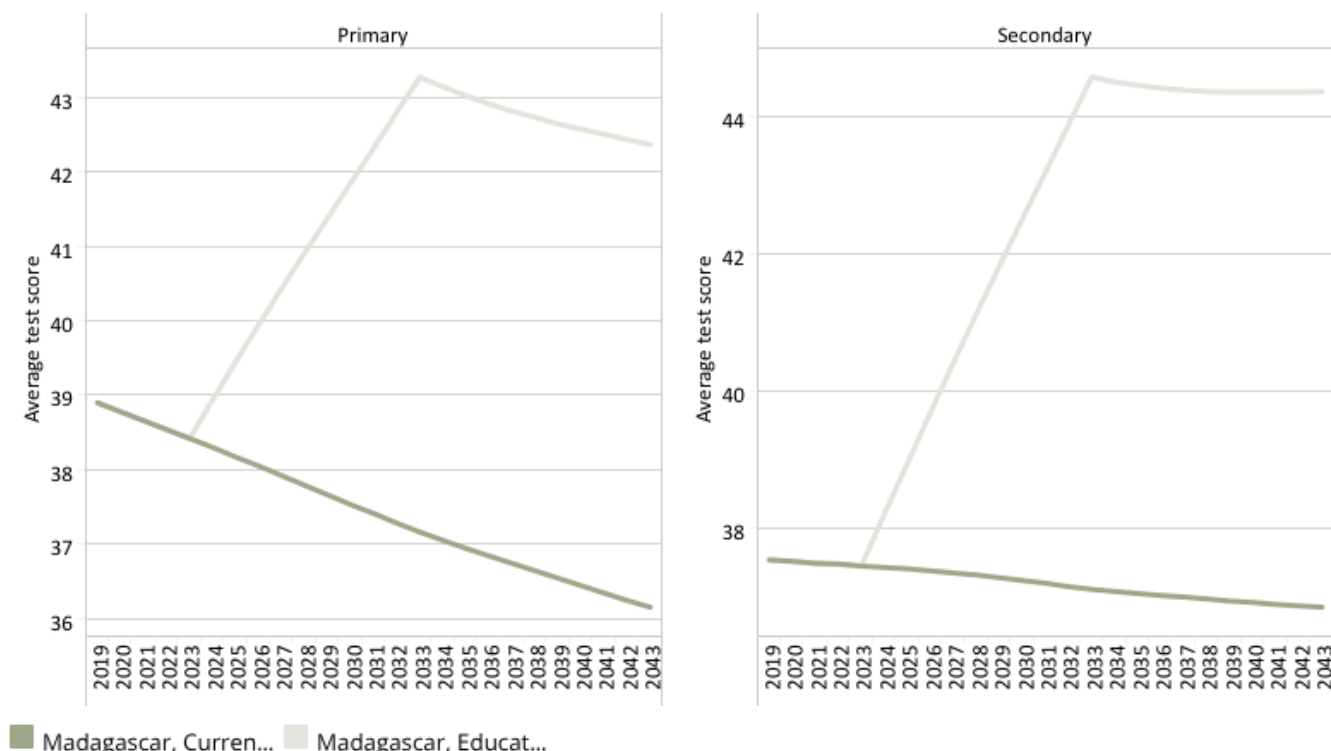
The intervention is explained [here](#) in the thematic part of the website.

With a mean of 5.2 years of education among the adult population in 2019, Madagascar's educational outcomes are above the average for Africa's low-income economies, which is 4.4 years. With a mean of 5.1 years, female education slightly lags behind male education with a mean of 5.3 years. The Education scenario has the potential to increase Madagascar's mean years of education by one year to 6.3 years by 2043. This represents an improvement of 0.3 years compared to the Current Path forecast of 6 years in 2043. Female education outcomes could overtake those of males (6.5 versus 6.2 mean years of education respectively). Globally, Madagascar has the 22nd worst educational performance measured in mean years of education, and the 20th worst in sub-Saharan Africa.

Chart 27: Education quality in CP and Educ scenario, 2019–2043
Average test scores for primary and secondary learners



Madagascar



Source: IFs 7.63 initialising from World Bank EDSTATS

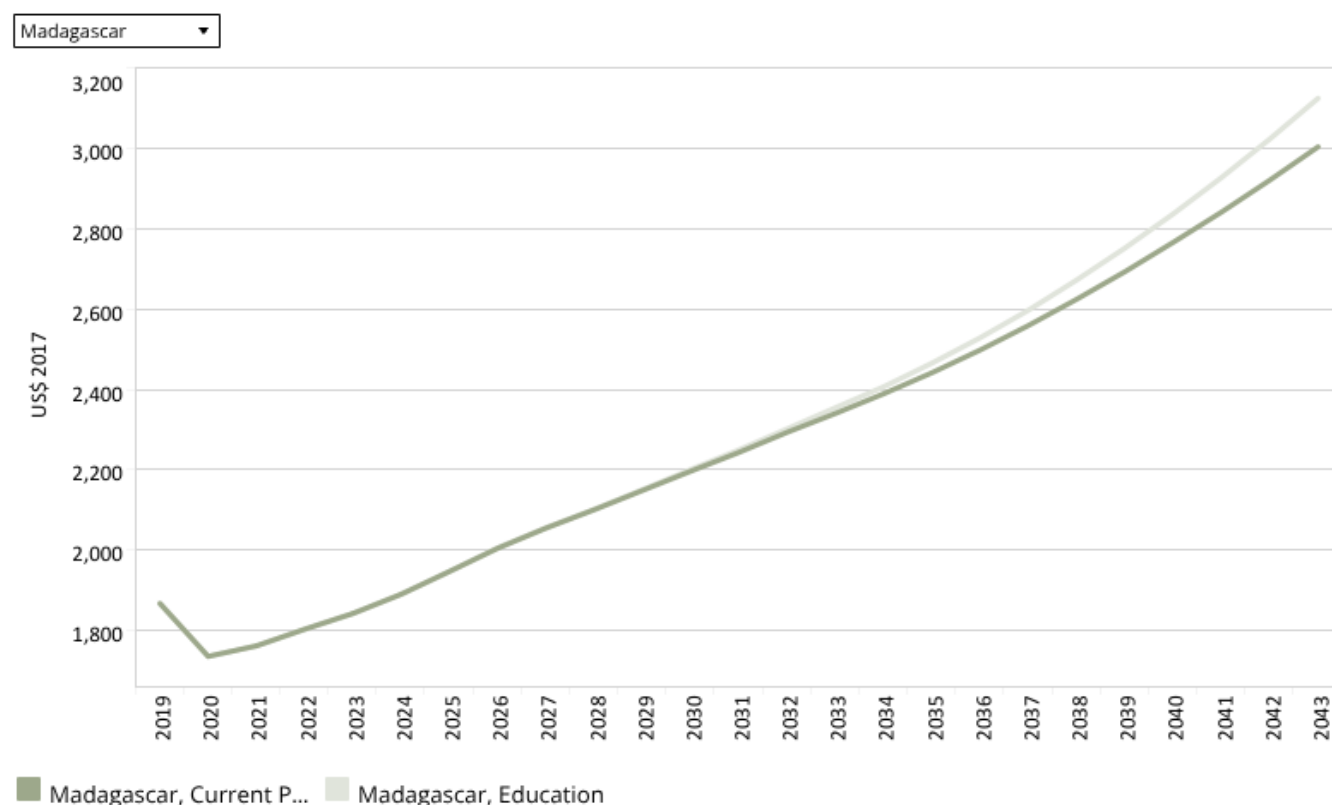
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In 2019, Madagascar's primary test score was 38.9. According to the Current Path forecast, it will decline to 36.2 in 2043. The Education scenario is expected to improve the country's average test scores for primary learners to 42.4 by 2043 — an increase of 6.2 percentage points compared to the Current Path forecast for 2043.

In the Education scenario, the test score at the secondary level could increase by 6.9 percentage points from 37.5 in 2019 to 44.4 in 2043 versus 36.8 on the Current Path.

Chart 28: GDP per capita in CP and Educ scenario, 2019–2043
Purchasing power parity



Source: IFs 7.63 initialising from UN Population Division World Population Prospects and World Development Indicators data

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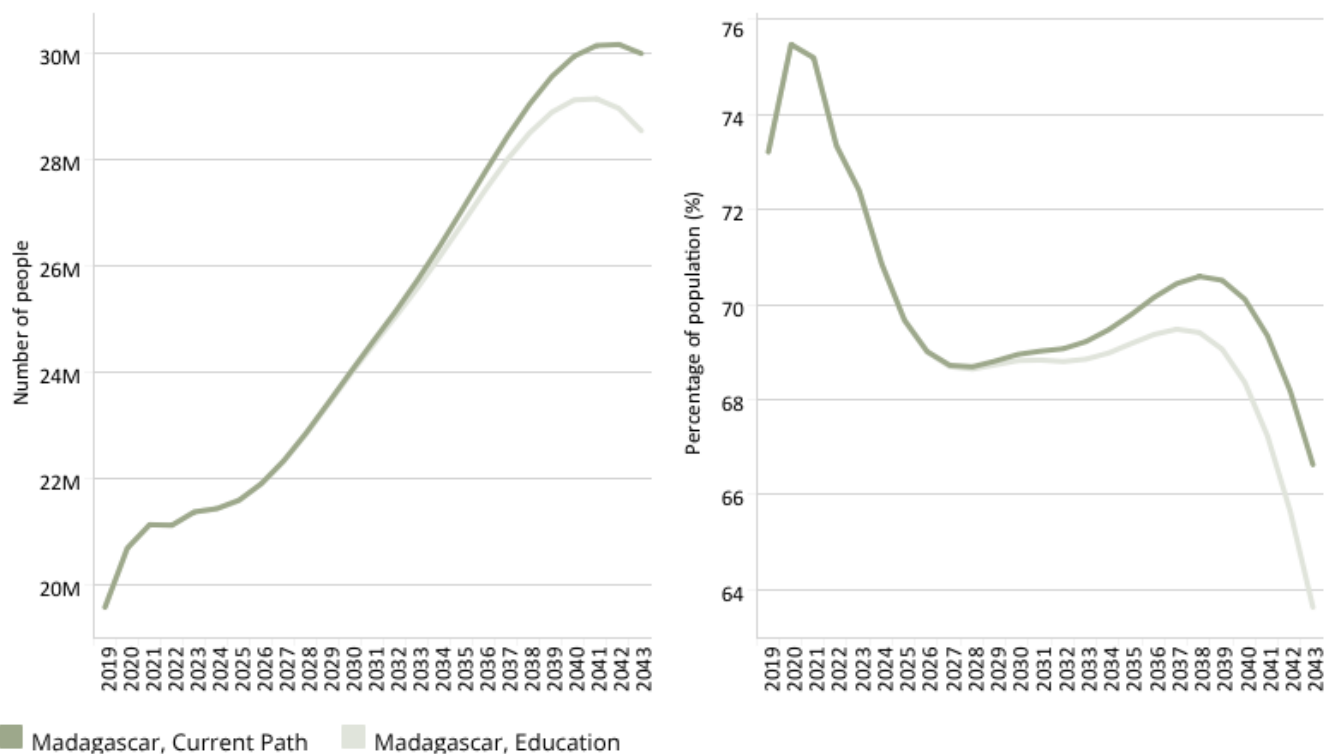
Madagascar's GDP per capita will increase to US\$3 004 on the Current Path versus US\$3 125 in the Education scenario — a difference of US\$121. The country's GDP per capita is forecast to lag behind the average GDP per capita for Africa's low-income economies. In the Education scenario, the latter is projected to have an average GDP per capita of US\$3 923 by 2043.

Chart 29: Poverty in CP and Educ scenario, 2019–2043

Millions of people and % of total population



Madagascar \$1.90



Source: IFs 7.63 initialising from UN Population Division Population Prospects estimate, World Development Indicators population data and PovcalNet World Bank data

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In the Education scenario, 63.6% of Madagascar's population will live in extreme poverty by 2043, down from 73.2% in 2019 and compared to 66.6% in the Current Path forecast. This translates to a projected total of 28.5 million poor people in 2043 compared to 30 million in the Current Path forecast — a reduction of 1.5 million people.



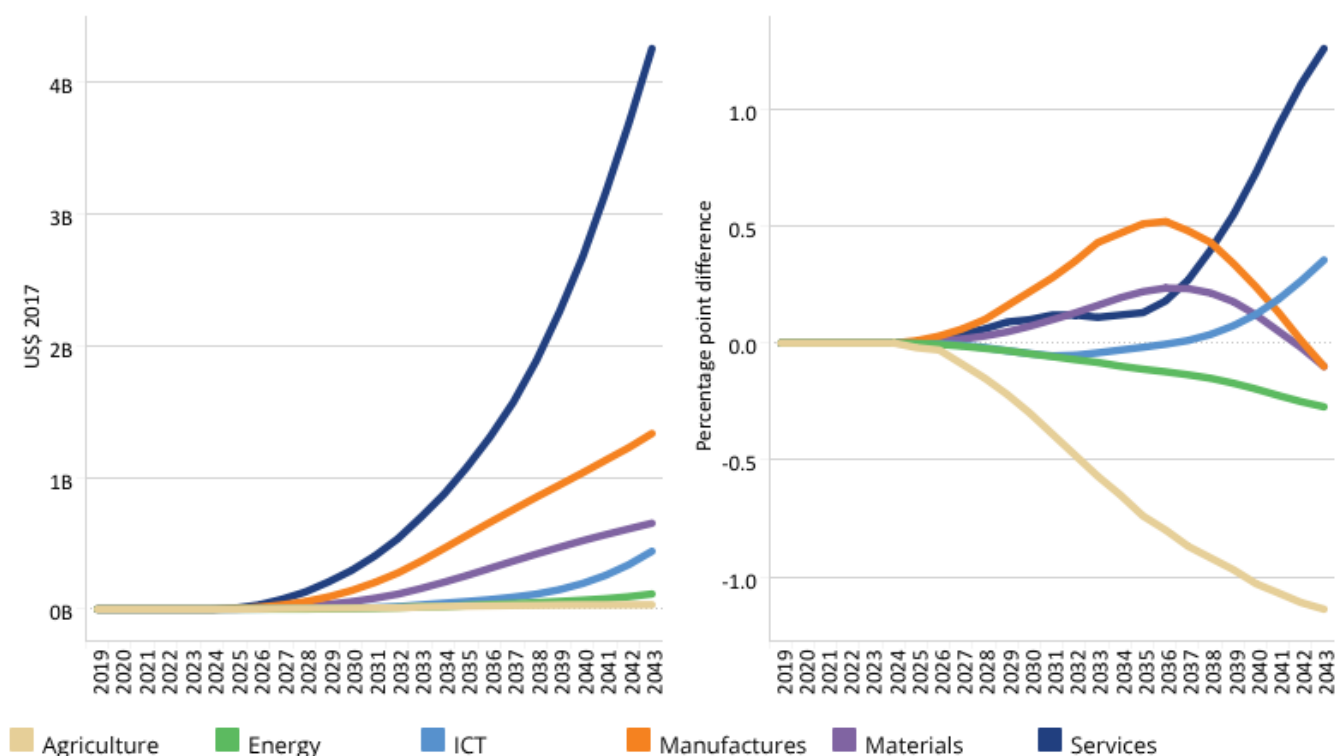
Manufacturing scenario

Chart 30: Value added by sector in CP and Manufac/Transfers scenario, 2019–2043

Absolute and Percentage difference GDP



Madagascar



Source: IFs 7.63 initialising from International Monetary Fund World Economic Outlook database

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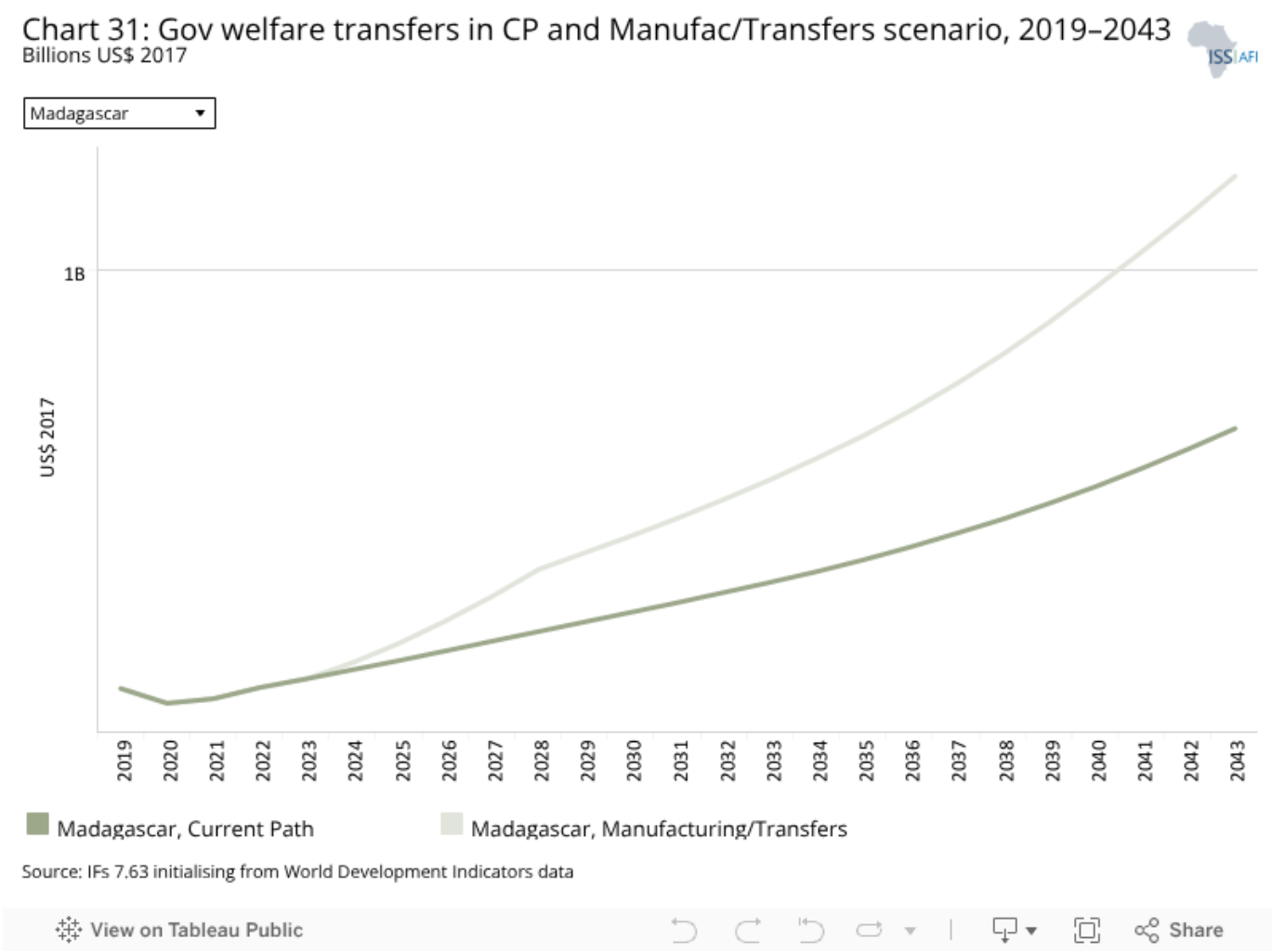
The Manufacturing/Transfers scenario represents reasonable but ambitious manufacturing growth through greater investment in the economy, investments in research and development, and promotion of the export of manufactured goods. It is accompanied by an increase in welfare transfers (social grants) to moderate the initial increases in inequality that are typically associated with a manufacturing transition. To this end, the scenario improves tax administration and increases government revenues.

The intervention is explained [here](#) in the thematic part of the website.

Chart 30 should be read with [Chart 8](#) that presents a stacked area graph on the contribution to GDP and size, in billion US\$, of the Current Path economy for each of the sectors.

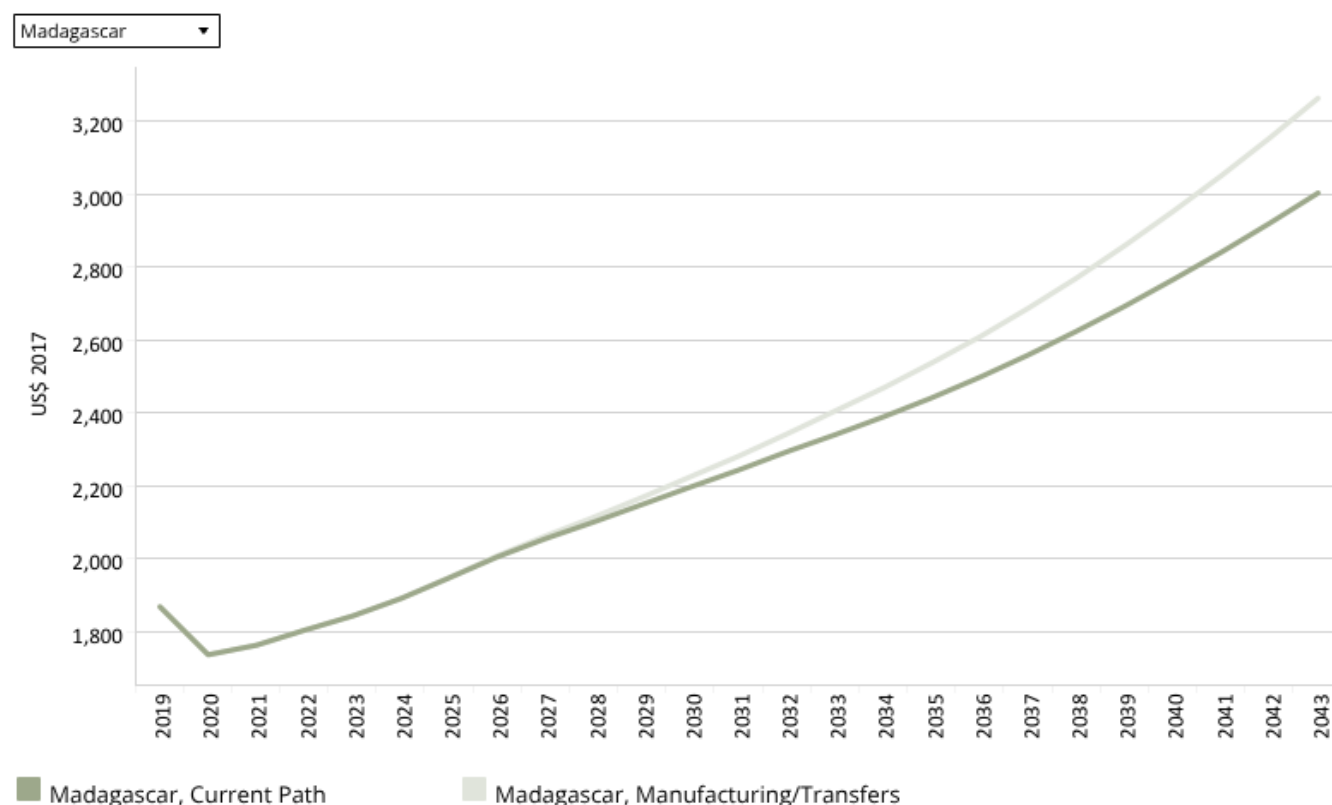
In the Manufacturing/Transfers scenario, the service sector will by far experience the largest gain in terms of its relative contribution to GDP. Its contribution is expected to increase by 1.3 percentage points in 2043. The service sector is followed by the ICT sector that is projected to see its relative contribution to GDP increase by 0.4 percentage points in 2043. The manufacturing and materials sectors see gains in the medium term, but their relative contributions decrease again towards the end of the time horizon. Manufacturing peaks in 2035 when it is expected to add 0.5 percentage points in terms of its relative contribution to GDP, compared to the Current Path forecast. The contribution of materials peaks in 2037 when it adds 0.3 percentage points in terms of the sector's relative contribution to GDP.

In absolute terms, the value of the service sector is forecast to increase by US\$4.3 billion in the Manufacturing/Transfers scenario compared to the Current Path forecast. The Manufacturing/Transfers scenario has the potential for the manufacturing sector to contribute an additional US\$4.3 billion to the economy by 2043 compared to the Current Path forecast. Materials is expected to contribute an additional US\$0.7 billion in this scenario, followed by ICT at US\$0.4 billion.



In the Manufacturing/Transfers scenario, government to household welfare transfers will increase from US\$0.1 billion in 2019 to US\$1.2 billion in 2043, compared to US\$0.66 billion in the Current Path forecast. In other words, welfare transfers double on the Current Path.

Chart 32: GDP per capita in CP and Manufac/Transfers scenario, 2019–2043
Purchasing power parity



Source: IFs 7.63 initialising from UN Population Division World Population Prospects and World Development Indicators data

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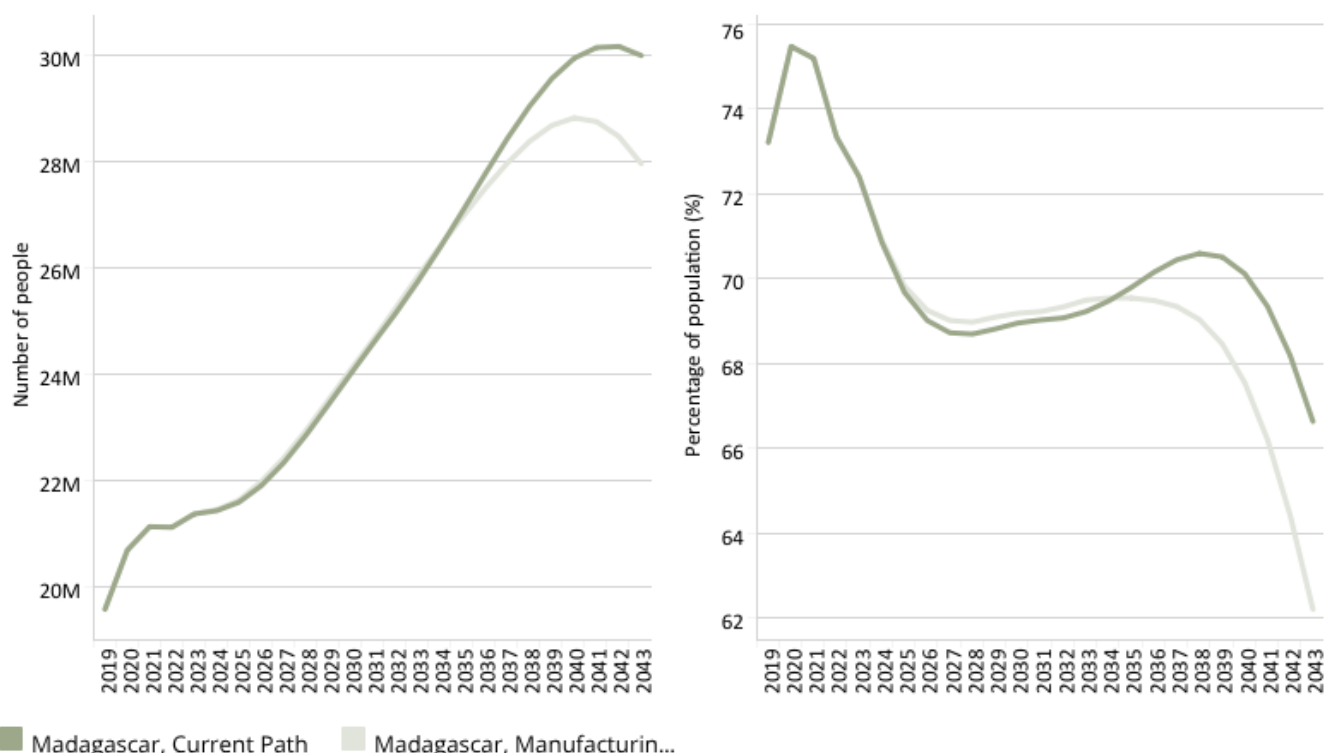
Madagascar's GDP per capita is expected to grow to US\$3 265 in the Manufacturing/Transfers scenario compared to US\$3 004 in the Current Path forecast. The increase would narrow the gap to Africa's low-income economies.

Chart 33: Poverty in CP and Manufac/Transfers scenario, 2019–2043

Millions of people and % of total population



Madagascar \$1.90



Source: IFs 7.63 initialising from UN Population Division Population Prospects estimate, World Development Indicators population data and PovcalNet World Bank data

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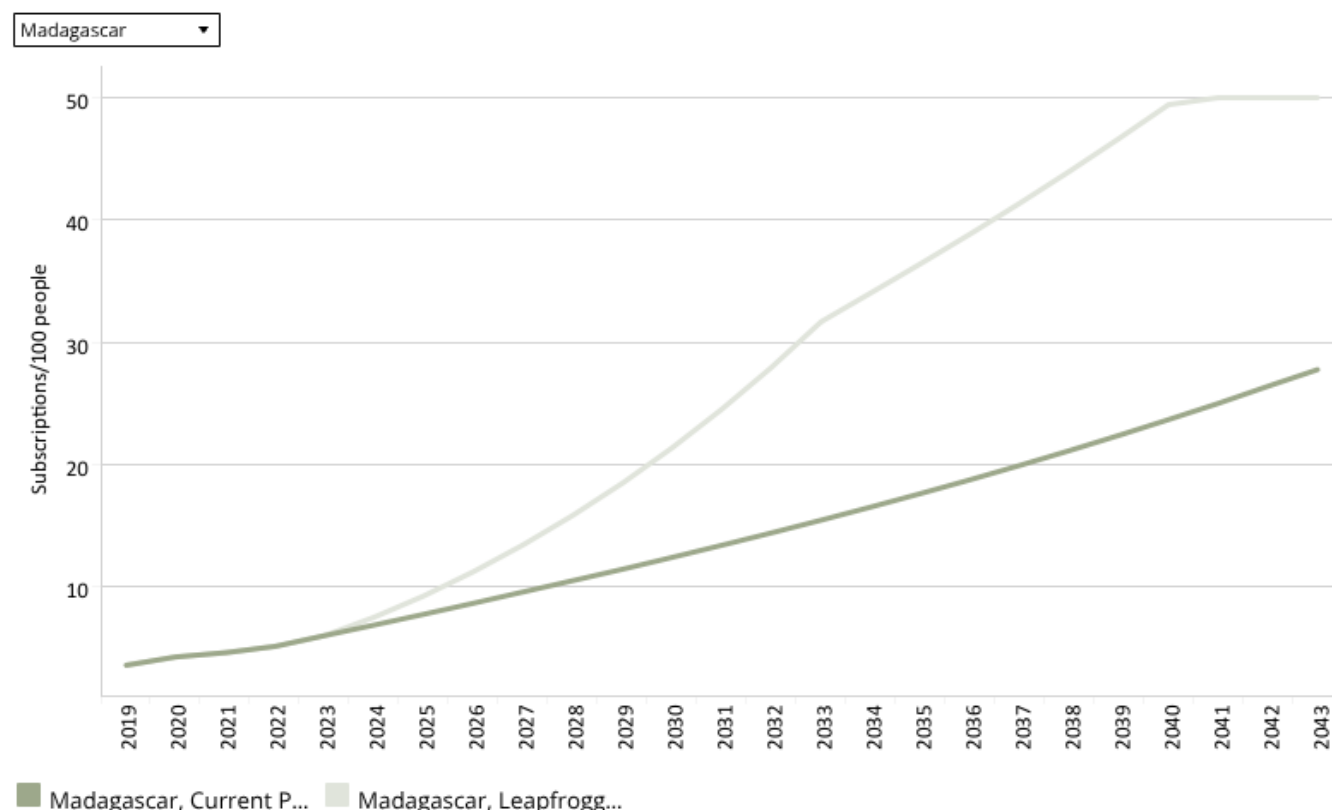
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The Manufacturing/Transfers scenario has the potential to reduce the share of the population living in extreme poverty from 73.2% in 2019 to 62.2% in 2043 compared to 66.6% in the Current Path forecast. This is a 4.4 percentage point improvement that would translate to about 2 million fewer people living in poverty in 2043 via the interventions in the scenario.



Leapfrogging scenario

Chart 34: Fixed broadband access in CP and Leapfrogging scenario, 2019–2043
Subscriptions per 100 people



Source: IFs 7.63 initialising from International Telecommunication Union data

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The Leapfrogging scenario represents a reasonable but ambitious adoption of and investment in renewable energy technologies, resulting in better access to electricity in urban and rural areas. The scenario includes accelerated access to mobile and fixed broadband and the adoption of modern technology that improves government efficiency and allows for the more rapid formalisation of the informal sector.

The intervention is explained [here](#) in the thematic part of the website.

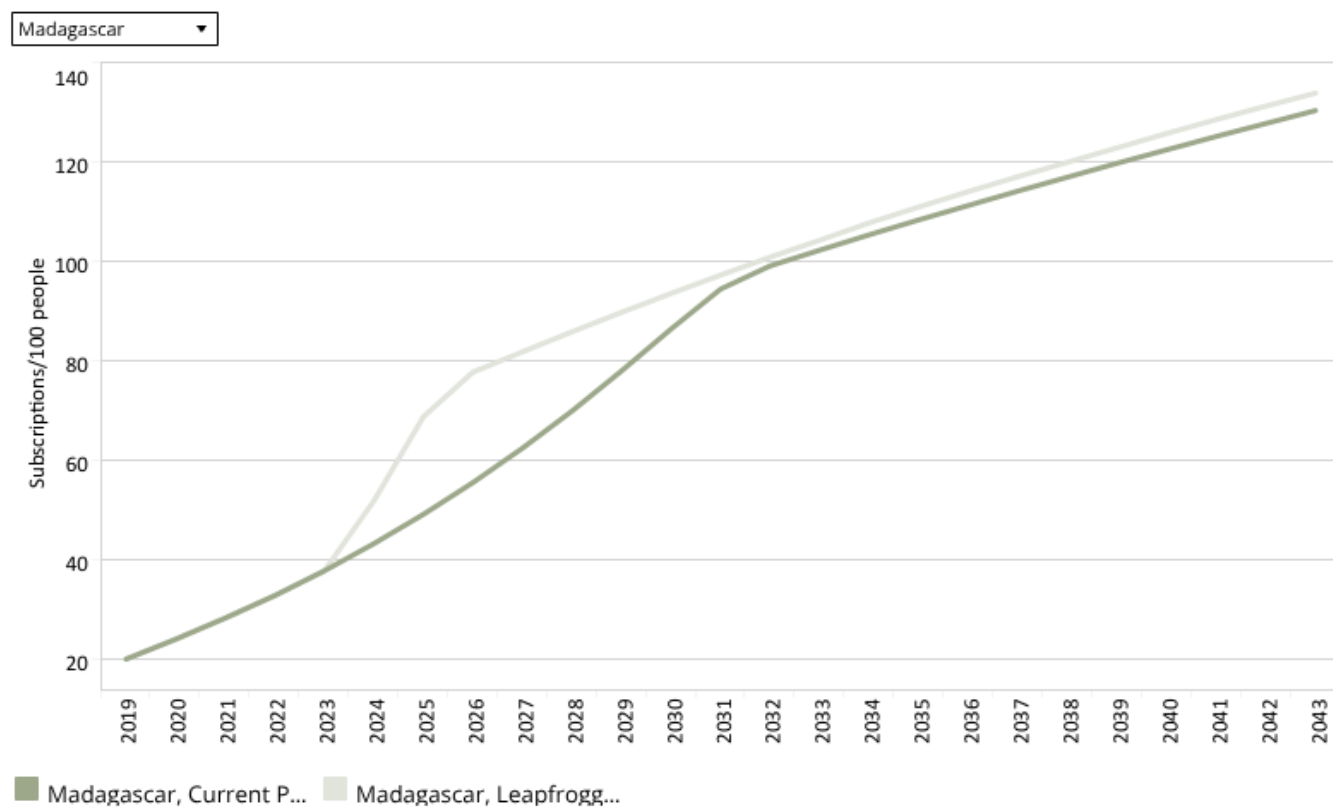
Fixed broadband includes cable modem Internet connections, DSL Internet connections of at least 256 KB/s, fibre and other fixed broadband technology connections (such as satellite broadband Internet, ethernet local area networks, fixed-wireless access, wireless local area networks, WiMAX, etc.).

Fixed broadband access positively impacts economic growth, enabling communities to interact and share information, and spur on innovation as people and businesses connect to other Internet users across the world. Increasing Internet access through fixed broadband access has driven economic growth in the various parts of the world, as detailed in the Leapfrogging scenario.

In 2019, Madagascar, like most African low-income economies, had a low fixed broadband rate of 3.6 subscriptions per 100 people. In the Leapfrogging scenario, by 2043, fixed broadband is set to increase to 50 subscriptions per 100 people

compared to 27.8 on the Current Path. In fact, that rate is forecast to be achieved by 2041 already. On fixed broadband subscriptions, Madagascar performs above average compared to its income peer group on the continent. Africa's low-income economies recorded an average of 2.3 subscriptions in 2019, a rate that by 2043 could increase to 48.3 in the Leapfrogging scenario or to 28.9 in the Current Path forecast.

Chart 35: Mobile broadband access in CP and Leapfrogging scenario, 2019–2043
Subscriptions per 100 people



Source: IFS 7.63 initialising from International Telecommunication Union data

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Mobile broadband refers to wireless Internet access delivered through cellular towers to computers and other digital devices.

As the Leapfrogging theme explains, the advantage of cellular Internet access is the low cost compared to fixed broadband access, allowing more people to benefit from Internet access. Not only does mobile phone usage spur on innovation through increased communication and exposure to multiple sources of information, but it also enables people to document instances of election tampering or police abuse, which would previously have been very difficult to do.

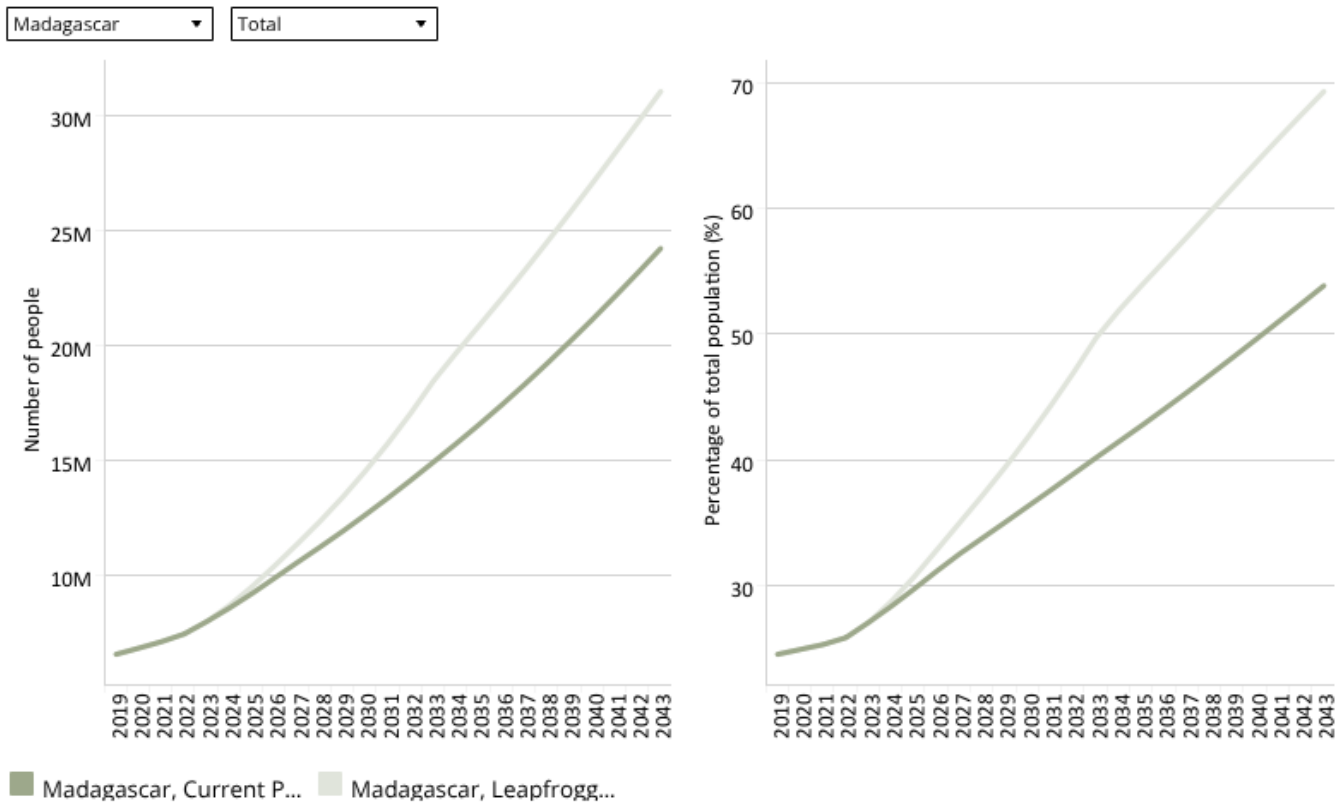
In 2019, Madagascar had 19.9 mobile broadband subscriptions per 100 people, a rate that is lower than the group average of 22.9 subscriptions per 100 people for Africa's low-income economies.

The Leapfrogging scenario has the potential to push mobile broadband subscriptions in Madagascar to 134 subscriptions per 100 people by 2043. However, even in the Current Path forecast the country is expected to arrive at 130.4 subscriptions by 2043. The greatest benefit of the interventions of the Leapfrogging scenario plays out in the medium term

between 2023 and 2031 when projected subscriptions are indeed tangibly higher than in the Current Path forecast. In other words, mobile broadband subscriptions in Madagascar are expected to increase rapidly either way but more quickly in the Leapfrogging scenario.

Chart 36: Electricity access in CP and Leapfrogging scenario, 2019–2043

Millions of people and % of population



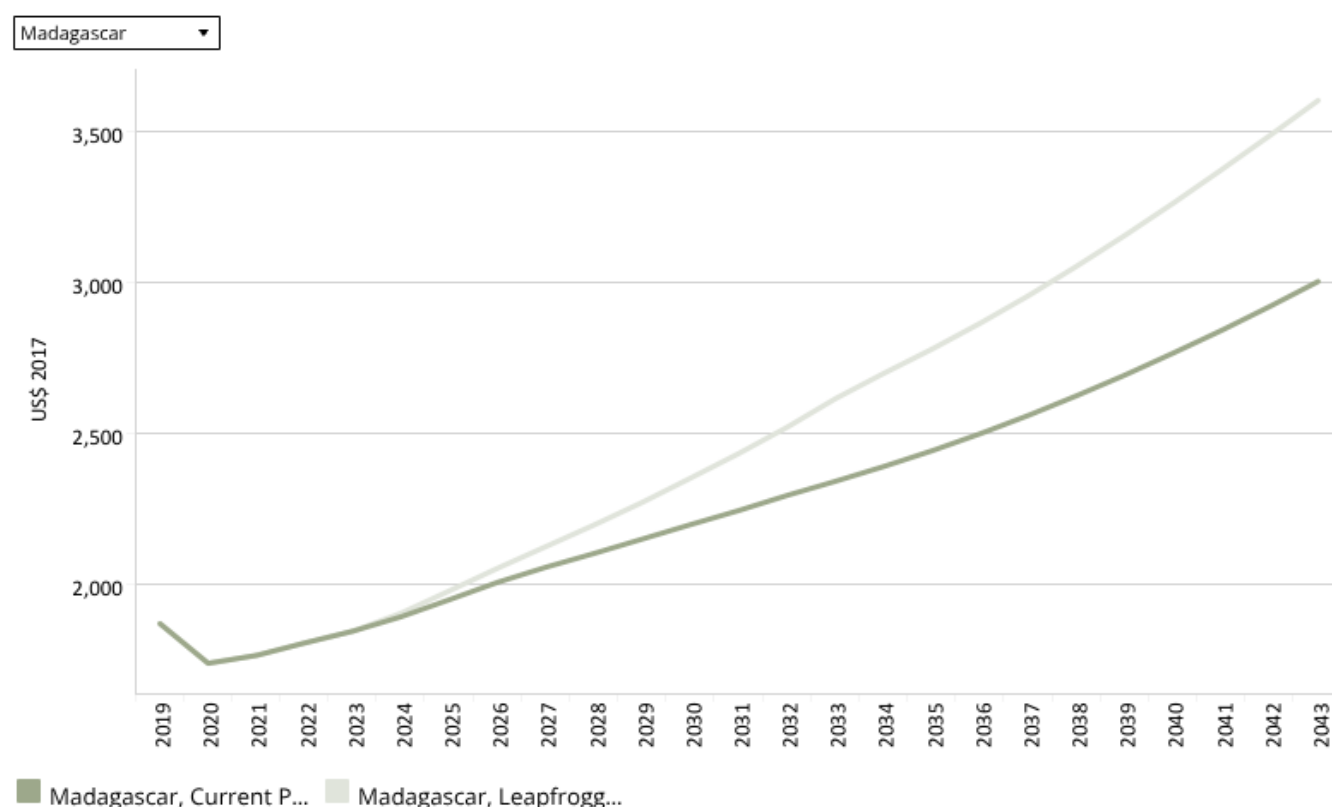
Source: IFs 7.63 initialising from World Development Indicators data

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Access to electricity remains a key challenge for Madagascar. In 2019, only 24.5% of the population had access to electricity. The average African low-income country had an average access rate of 32.2% — a difference of almost 8 percentage points. In the Current Path forecast, 53.9% of the population will have access to electricity in 2043. In the Leapfrogging scenario, access to electricity is projected to expand faster, giving 69.4% of the population access by 2043. On average, Madagascar's low-income peers will have an access level of 75.1% in the Leapfrogging scenario.

Chart 37: GDP per capita in CP and Leapfrogging scenario, 2019–2043
Purchasing power parity



Source: IFs 7.63 initialising from UN Population Division World Population Prospects and World Development Indicators data

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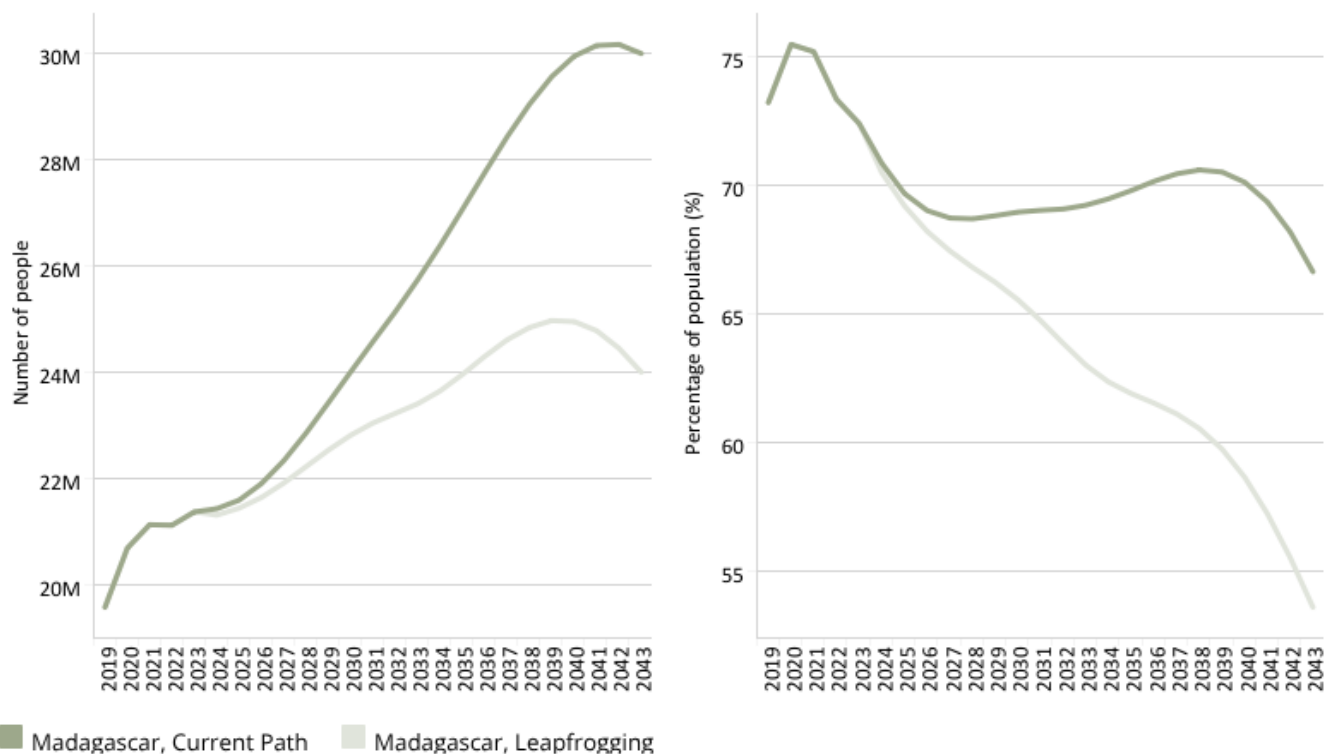
In the Leapfrogging scenario, Madagascar's GDP per capita is expected to experience a larger increase than in the Current Path forecast: from US\$1 867 in 2019 to US\$3 606 by 2043, compared to US\$3 004 in the Current Path forecast. In the Leapfrogging scenario, Madagascar's GDP per capita will still be below the expected average for Africa's low-income economies at US\$4 130 by 2043.

Chart 38: Poverty in CP and Leapfrogging scenario, 2019–2043

Millions of people and % of total population



Madagascar \$1.90



Source: IFs 7.63 initialising from UN Population Division Population Prospects estimate, World Development Indicators population data and PovcalNet World Bank data

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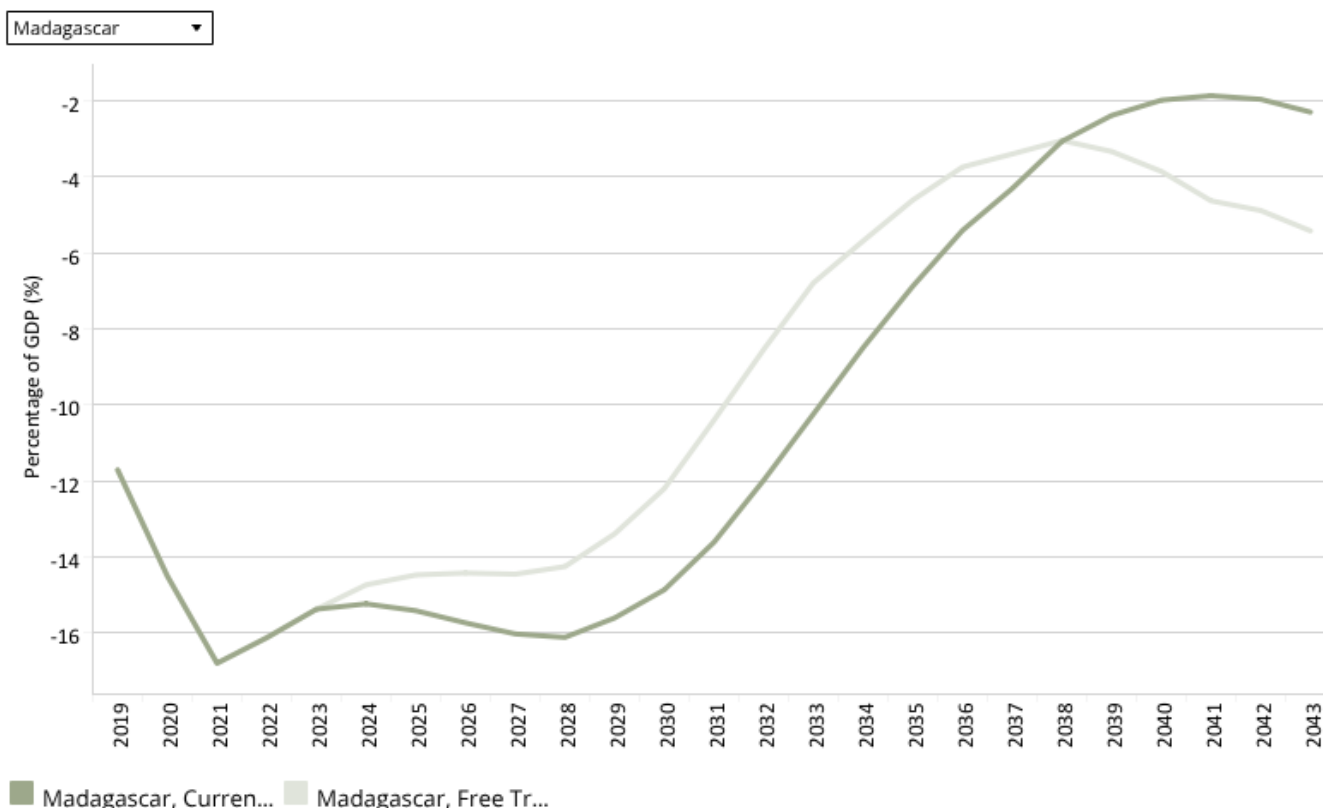
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The interventions in the Leapfrogging scenario are projected to benefit poverty reduction efforts in Madagascar. The poverty rate could drop from 73.2% to 53.6% by 2043 compared to 66.6% in the Current Path forecast trajectory, a gain of more than 13 percentage points. When assessing absolute numbers, the Leapfrogging scenario reduces the number of people living in poverty to 24 million versus 30 million in the Current Path forecast. In other words, 6 million people would escape poverty in the Leapfrogging scenario.



Free Trade scenario

Chart 39: Trade balance in CP and Free Trade scenario, 2019–2043
% of GDP



Source: IFs 7.63 initialising from World Development Indicators data

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The Free Trade scenario represents the impact of the full implementation of the African Continental Free Trade Area (AfCFTA) by 2034 through increases in exports, improved productivity and increased trade and economic freedom.

The intervention is explained [here](#) in the thematic part of the website.

The trade balance is the difference between the value of a country's exports and its imports. A country that imports more goods and services than it exports in terms of value has a trade deficit, while a country that exports more goods and services than it imports has a trade surplus.

In 2019, Madagascar had a trade deficit that accounted for 11.7% of GDP. In the Free Trade scenario, the country's trade balance is set to improve with the deficit accounting for 3.1% of GDP by 2038 before it starts growing again to reach 5.4% by 2043 compared to 2.3% on the Current Path. Essentially, in any case, Madagascar is expected to have a trade deficit by 2043, but in the Free Trade scenario the deficit would be higher than on the Current Path.

However, the implementation of the AfCFTA in the Free Trade scenario would improve the short- and medium-term trade deficit for Madagascar compared to the Current Path forecast. Furthermore, the scenario increases Madagascar's total

Chart 40: GDP per capita in CP and Free Trade scenario, 2019–2043
Purchasing power parity










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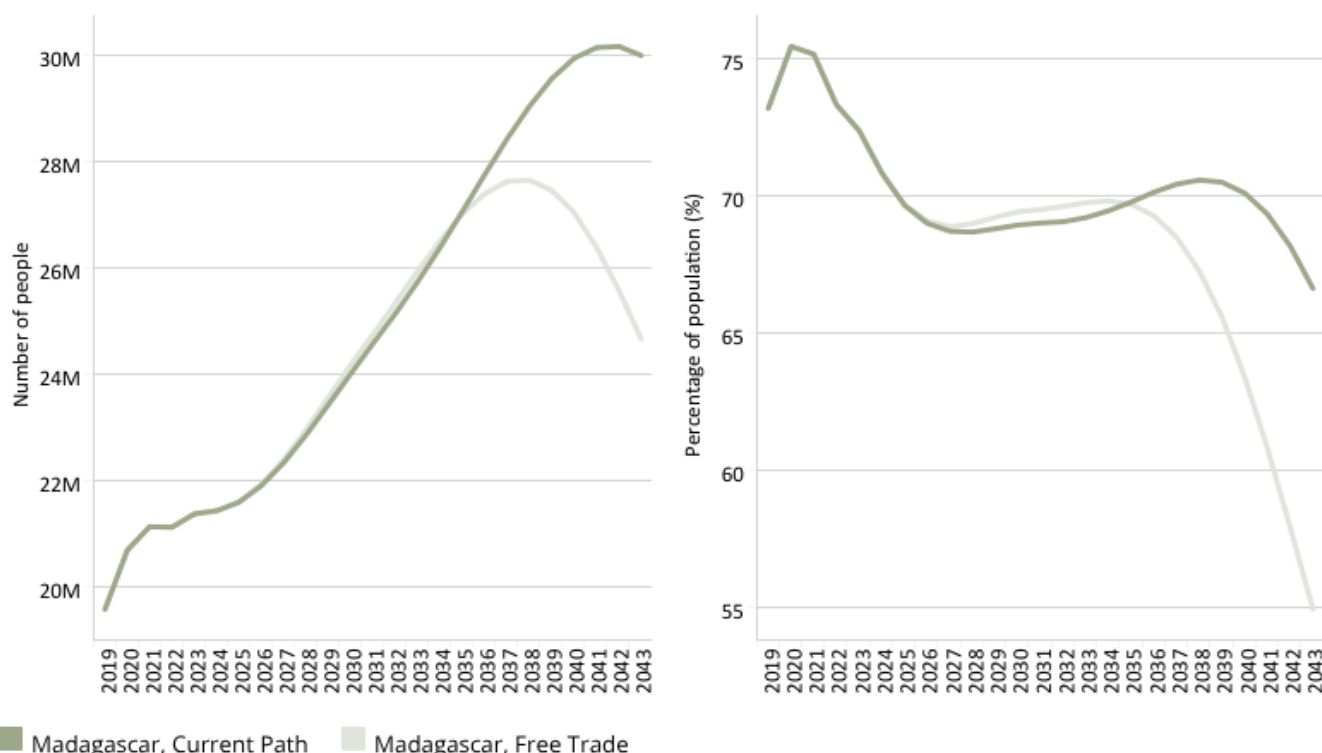
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Chart 41: Poverty in CP and Free Trade scenario, 2019–2043

Millions of people and % of total population



Madagascar \$1.90



Source: IFs 7.63 initialising from UN Population Division Population Prospects estimate, World Development Indicators population data and PovcalNet World Bank data

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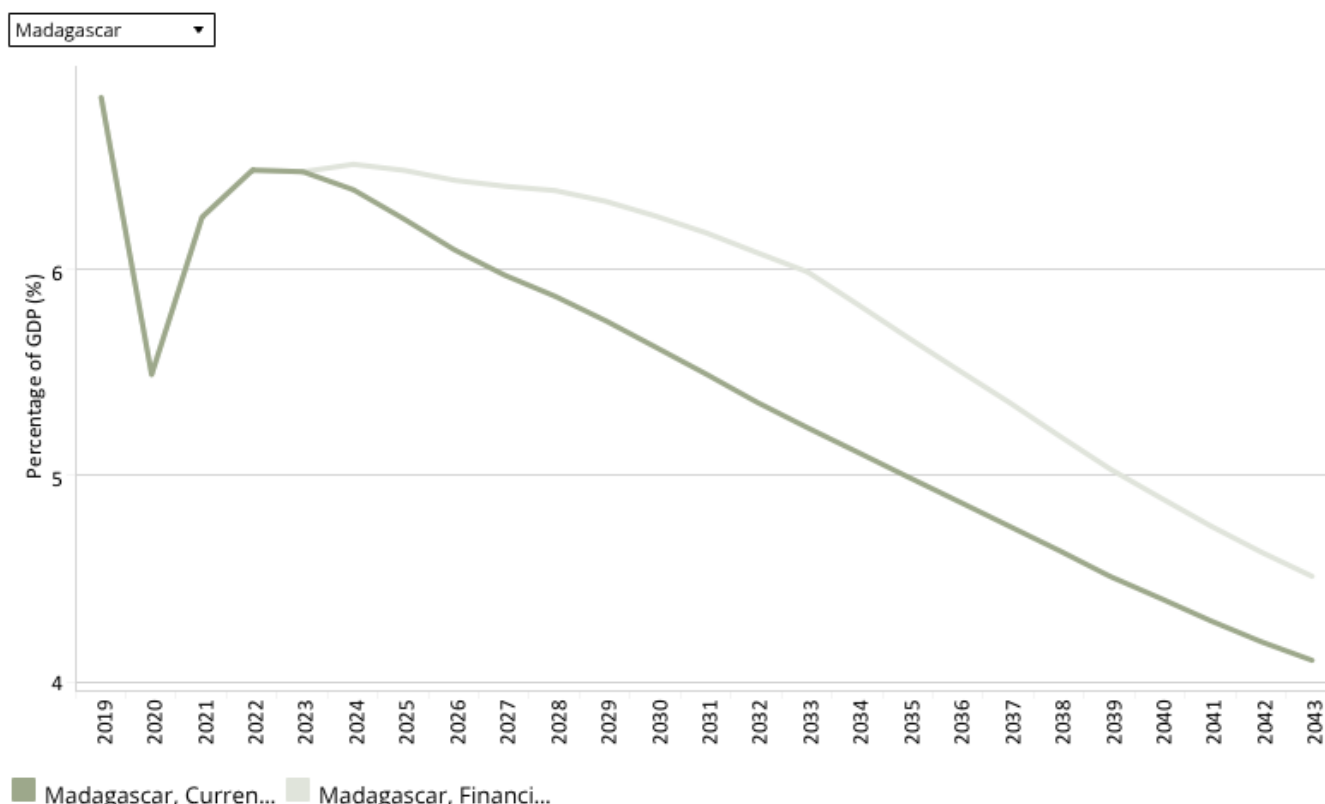
Trade openness will reduce poverty in the long term after initially increasing it due to the redistributive effects of trade. Most African countries export primary commodities and low-tech manufacturing products, and therefore a continental free trade agreement (AfCFTA) that reduces tariffs and non-tariff barriers across Africa will increase competition among countries in primary commodities and low-tech manufacturing exports. Countries with inefficient, high-cost manufacturing sectors might be displaced as the AfCFTA is implemented, thereby pushing up poverty rates. In the long term, as the economy adjusts and produces and exports its comparatively advantaged (lower relative cost) goods and services, poverty rates will decline.

In the Free Trade scenario, extreme poverty in Madagascar is expected to decrease more rapidly than in the Current Path forecast. By 2043, 55% of the population will live in extreme poverty in the Free Trade scenario compared to 66.6% in the Current Path forecast. The 11.6 percentage point difference translates into 5.3 million people who will escape poverty in the Free Trade scenario. However, in that scenario, the average poverty level in Africa's low-income economies is projected to be 20.3% by 2043.



Financial Flows scenario

Chart 42: Foreign aid in CP and Financial Flows scenario, 2019–2043
% of GDP



Source: IFs 7.63 initialising from Development Assistance Committee of the OECD data, and World Bank and OECD GNI estimates.

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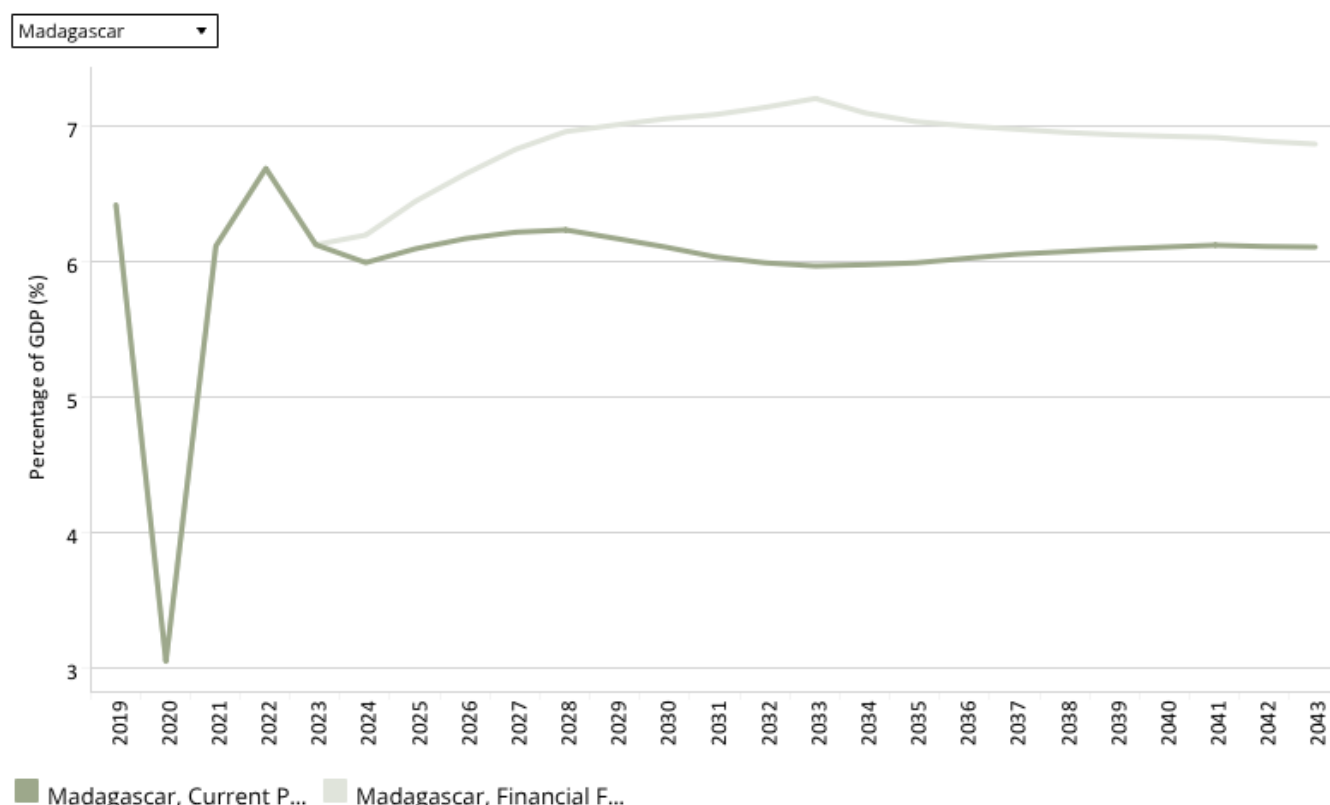
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The Financial Flows scenario represents a reasonable but ambitious increase in worker remittances and aid flows to poor countries, and an increase in the stock of foreign direct investment (FDI) and additional portfolio investment inflows to middle-income countries. We also reduced outward financial flows to emulate a reduction in illicit financial outflows.

The intervention is explained [here](#) in the thematic part of the website.

At 6.8% of GDP in 2019, foreign aid played a slightly less important role for Madagascar's GDP than for the average low-income economy on the continent where aid accounted for 8.6%. In both the Current Path forecast and the Financial Flows scenario, the contribution of foreign aid to the economy is projected to become less significant by 2043, dropping to 4.5% of GDP in the Financial Flows scenario and to 4.1% on the Current Path. In absolute terms, foreign aid will grow in importance: in the Current Path forecast, aid will rise from US\$1.1 billion in 2019 to US\$2.2 billion by 2043, while in the Financial Flows scenario foreign aid will increase to US\$2.4 billion. In Africa's low-income economies, aid will account for on average 3.8% of GDP in the Current Path forecast and 8.2% in the Financial Flows scenario.

Chart 43: Inflow of FDI in CP and Financial Flows scenario, 2019–2043
% of GDP



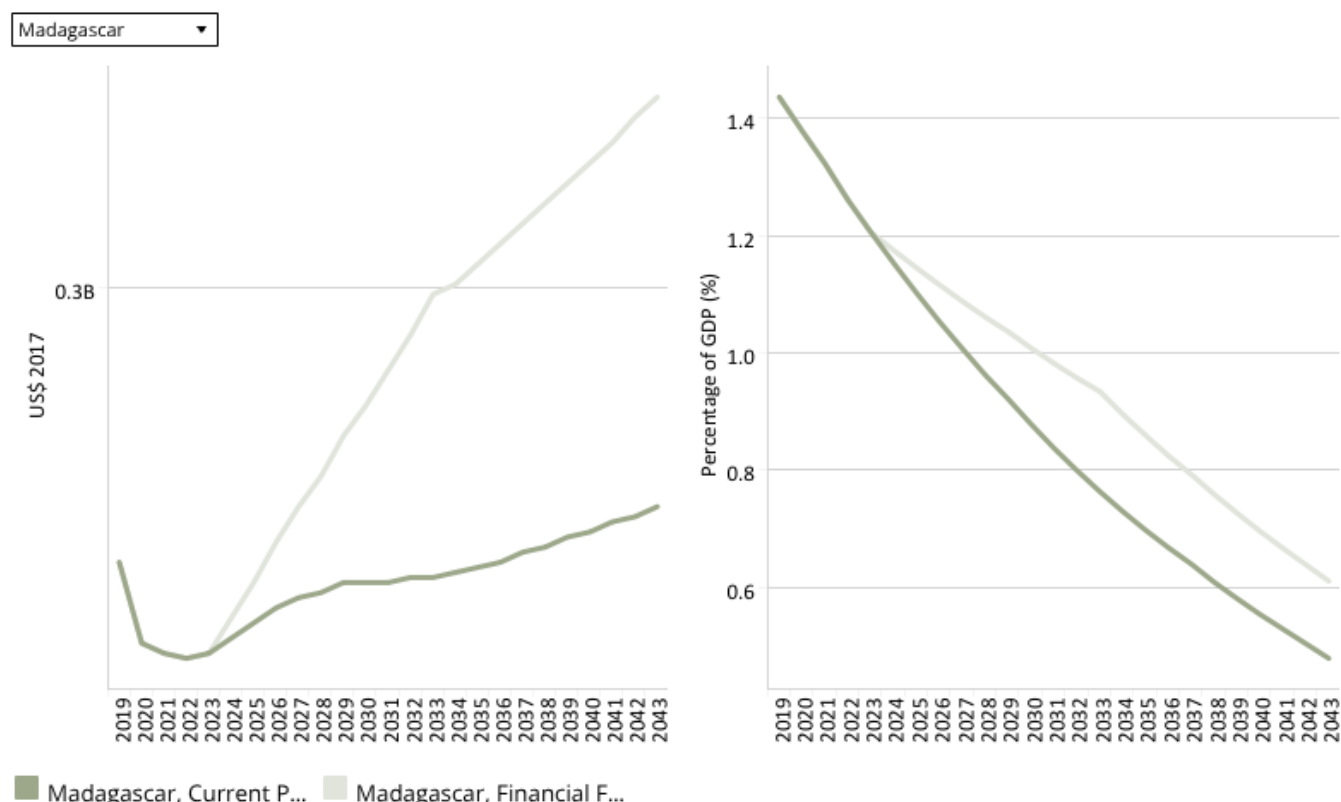
Source: IFs 7.63 initialising from International Monetary Fund World Economic Outlook database

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FDI flows to Madagascar accounted for almost 6.4% of GDP in 2019 versus 4.3% for the group of Africa's low-income economies. The impact of the COVID-19 pandemic on FDI flows pushed FDI inflows down to 3.1% in 2020. In the Financial Flows scenario, FDI as a share of GDP is projected to recover and surpass pre-pandemic levels so that by 2043 FDI flows will account for 6.9% of Madagascar's GDP compared to 6.1% in the Current Path forecast. In Africa's low-income economies, FDI is expected to account for 5.2% of GDP in the Financial Flows scenario and 4.7% in the Current Path forecast.

Chart 44: Remittances in CP and Financial Flows scenario, 2019–2043
Billions US\$ 2017 and % of GDP



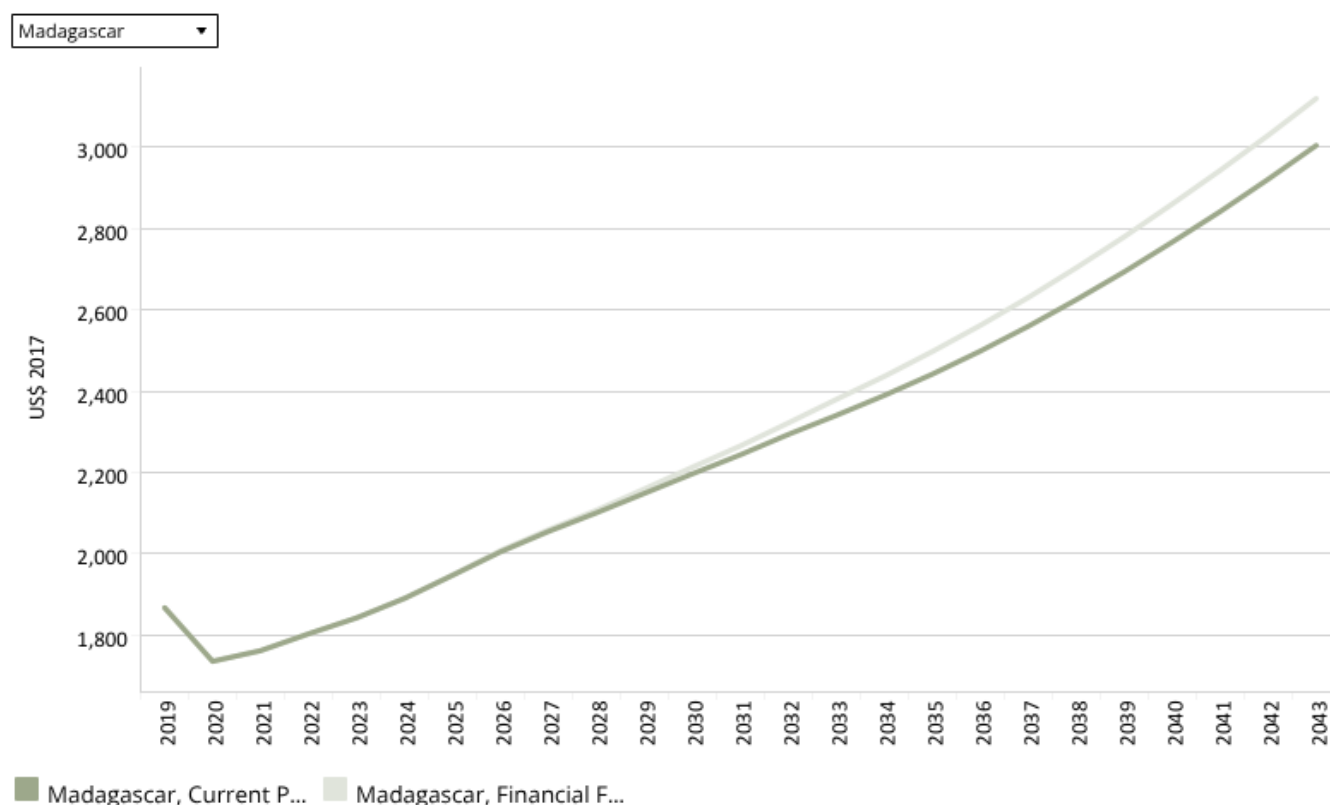
Source: IFs 7.63 initialising from World Development Indicators data

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In 2019, remittances accounted for 1.4% of Madagascar's GDP. In the Current Path forecast, this figure will drop by more than 0.9 percentage points to 0.5% by 2043. In the Financial Flows scenario, remittances are expected to account for 0.6% of the country's GDP by 2043. In absolute terms, remittances would amount to US\$0.3 billion in both the Current Path forecast and the Financial Flows scenario by 2043, up from US\$0.2 billion in 2019.

Chart 45: GDP per capita in CP and Financial Flows scenario, 2019–2043
Purchasing power parity



Source: IFs 7.63 initialising from UN Population Division World Population Prospects and World Development Indicators data

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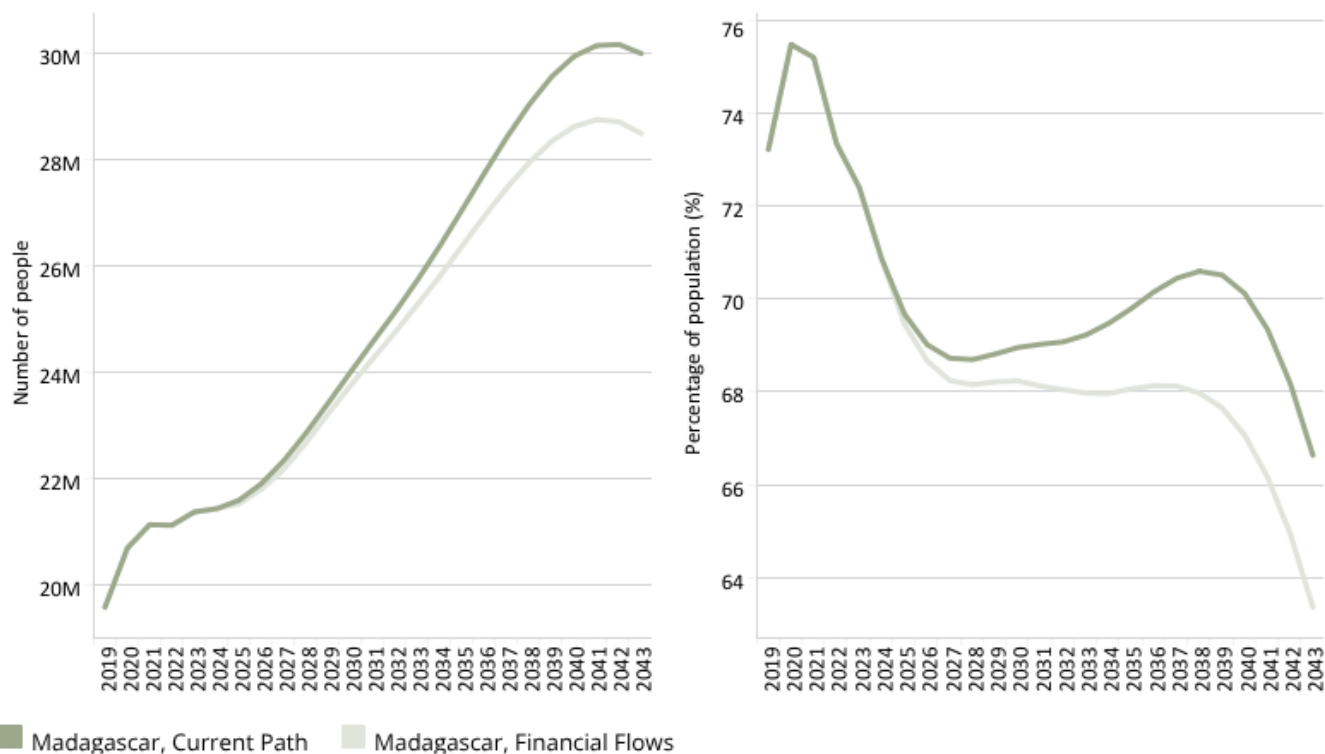
In the Financial Flows scenario, Madagascar's GDP per capita is expected to experience a larger increase than in the Current Path forecast — the difference being US\$116 by 2043. In the Financial Flows scenario, at US\$3 120, Madagascar's future GDP per capita is still projected to be significantly lower than the expected average for Africa's low-income economies at US\$4 130 by 2043.

Chart 46: Poverty in CP and Financial Flows scenario, 2019–2043

Millions of people and % of total population



Madagascar \$1.90



Source: IFs 7.63 initialising from UN Population Division Population Prospects estimate, World Development Indicators population data and PovcalNet World Bank data

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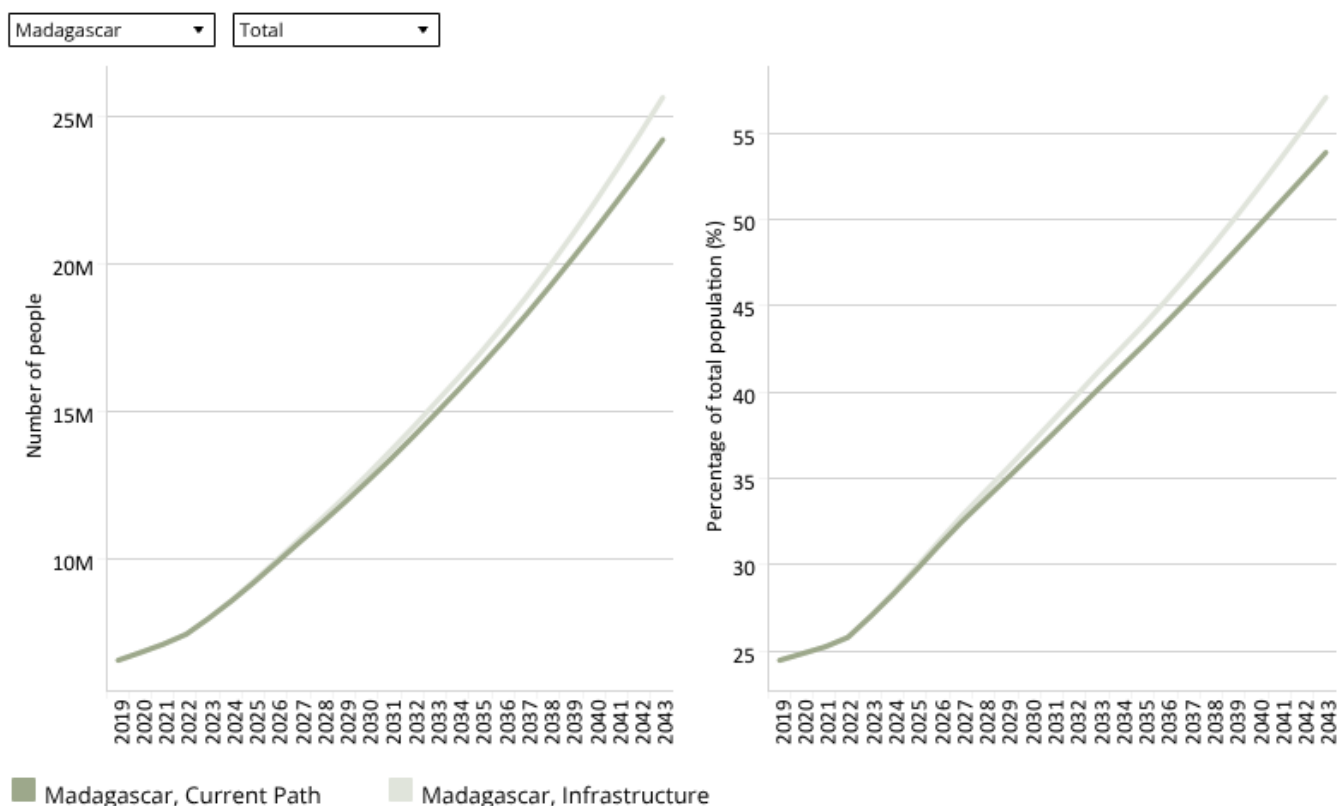
The interventions in the Financial Flows scenario have the potential to modestly reduce the share of Madagascar’s population living in extreme poverty to 63.4% by 2043 compared to 66.6% in the Current Path forecast. This means that 28.5 million instead of 30 million people will live below the poverty line by 2043.



Infrastructure scenario

Chart 47: Electricity access in CP and Infrastructure scenario, 2019–2043

Millions of people and % of population



Source: IFs 7.63 initialising from World Development Indicators data

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The Infrastructure scenario represents a reasonable but ambitious increase in infrastructure spending across Africa, focusing on basic infrastructure (roads, water, sanitation, electricity access and ICT) in low-income countries and increasing emphasis on advanced infrastructure (such as ports, airports, railway and electricity generation) in higher-income countries.

Note that health and sanitation infrastructure is included as part of the Health/WaSH scenario and that ICT infrastructure and more rapid uptake of renewables are part of the Leapfrogging scenario. The interventions there push directly on outcomes, whereas those modelled in this scenario increase infrastructure spending, indirectly boosting other forms of infrastructure, including those supporting health, sanitation and ICT.

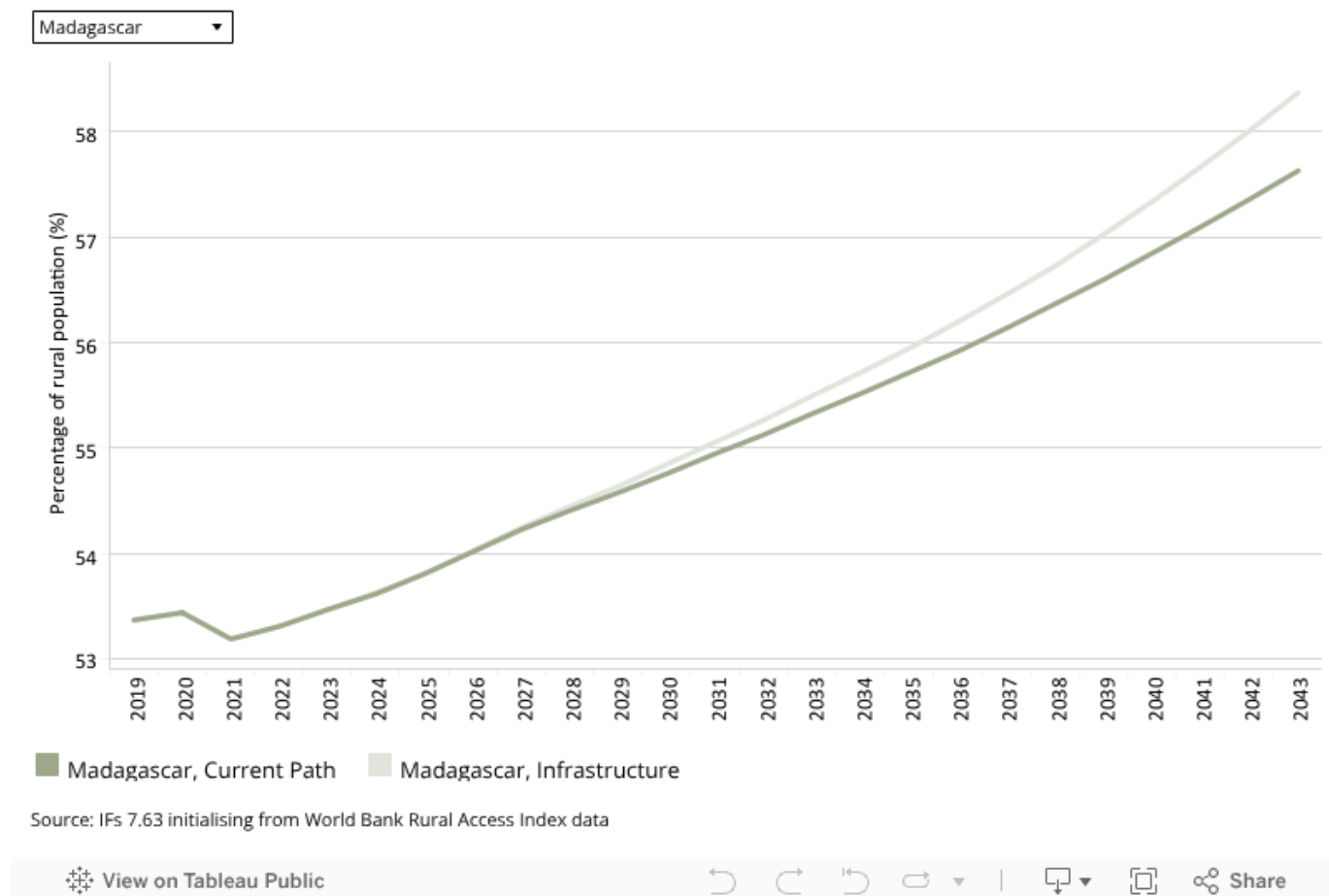
The intervention is explained [here](#) in the thematic part of the website.

In 2019, only 6.6 million people in Madagascar had access to electricity, accounting for about 24.5% of the population. In urban areas, access rates were almost seven times as high, reaching 60%. The interventions in the Infrastructure scenario will increase Madagascar's overall electricity access rate to 57.1% by 2043 compared to 53.9% in the Current Path forecast. This means that about 1.4 million more people could benefit from access to electricity by 2043.

Rural areas would benefit more from the interventions in the Infrastructure scenario than urban areas because they are

coming from a much lower baseline. Access rates in rural areas would increase from 3.4% to 31.3% by 2043 compared to 27.5% in the Current Path forecast. In urban areas, the Infrastructure scenario accounts for an additional improvement of 2.6 percentage points pushing the expected access rate to 80.1% by 2043.

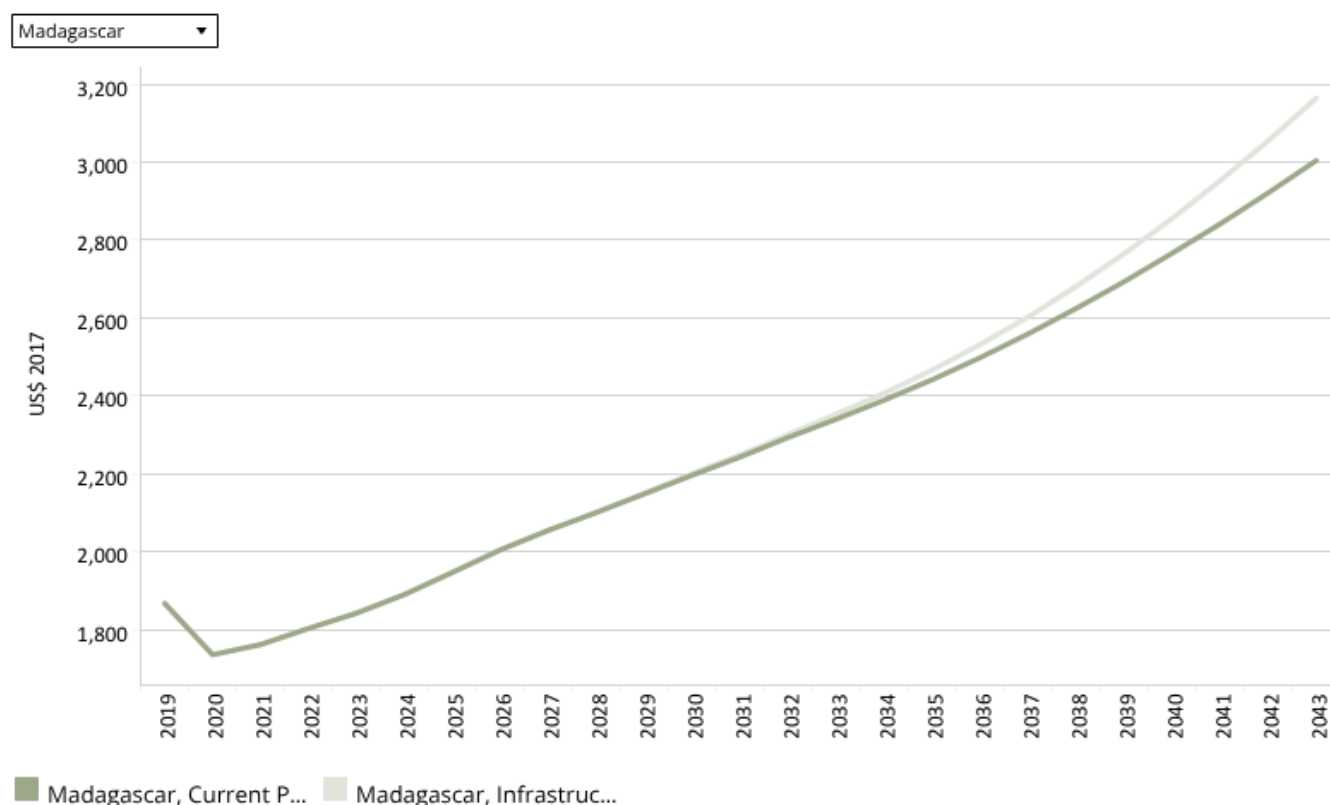
Chart 48: Rural road access in CP and Infrastructure scenario, 2019–2043
% of rural population within 2 km of an all-weather road



Indicator 9.1.1 in the Sustainable Development Goals refers to the proportion of the rural population who live within 2 km of an all-season road and is captured in the Rural Access Index.

Investments in rural road infrastructure are associated with positive socio-economic impacts, such as increased rural incomes and poverty reduction, improving maternal health as well as paediatric health and increasing agricultural productivity. In 2019, 53.4% of Madagascar's rural population had access to an all-weather road within a distance of 2 km. This is more than 10 percentage points above the average access rate of its low-income peer group which stood at 43% in 2019. The relatively high baseline explains the more modest impact of the Infrastructure scenario on rural road access. By 2043, it is projected that 58.4% of Madagascar's rural population will have access to an all-weather road within a distance of 2 km compared to 57.6% in the Current Path forecast.

Chart 49: GDP per capita in CP and Infrastructure scenario, 2019–2043
Purchasing power parity



Source: IFs 7.63 initialising from UN Population Division World Population Prospects and World Development Indicators data

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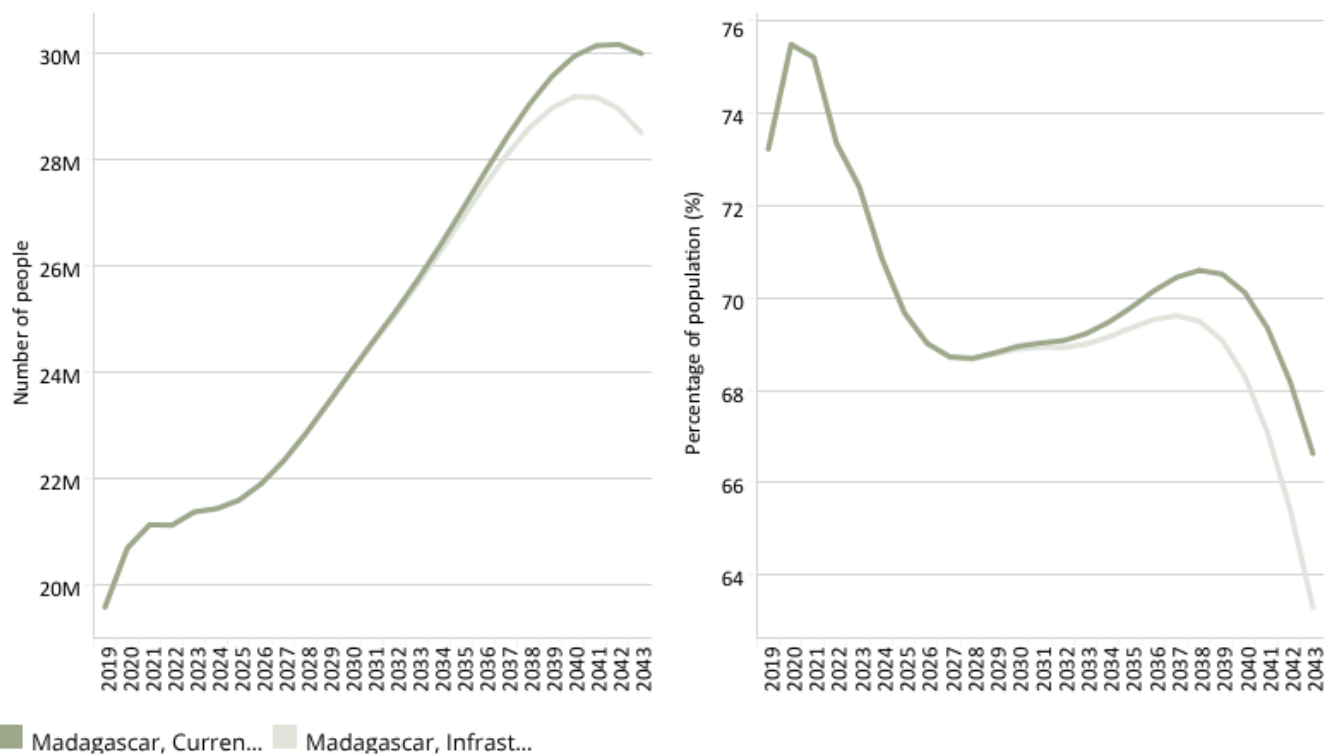
Improvements included in the Infrastructure scenario will push GDP per capita from US\$1 867 in 2019 to US\$3 164 in 2043, US\$160 above the Current Path forecast. Despite the expected increases in both scenarios, Madagascar's GDP per capita is forecast to remain below the average of its low-income peer group on the continent. By 2043, the latter is expected to reach US\$3 949 in the Infrastructure scenario.

Chart 50: Poverty in CP and Infrastructure scenario, 2019–2043

Millions of people and % of total population



Madagascar \$1.90



Source: IFs 7.63 initialising from UN Population Division Population Prospects estimate, World Development Indicators population data and PovcalNet World Bank data

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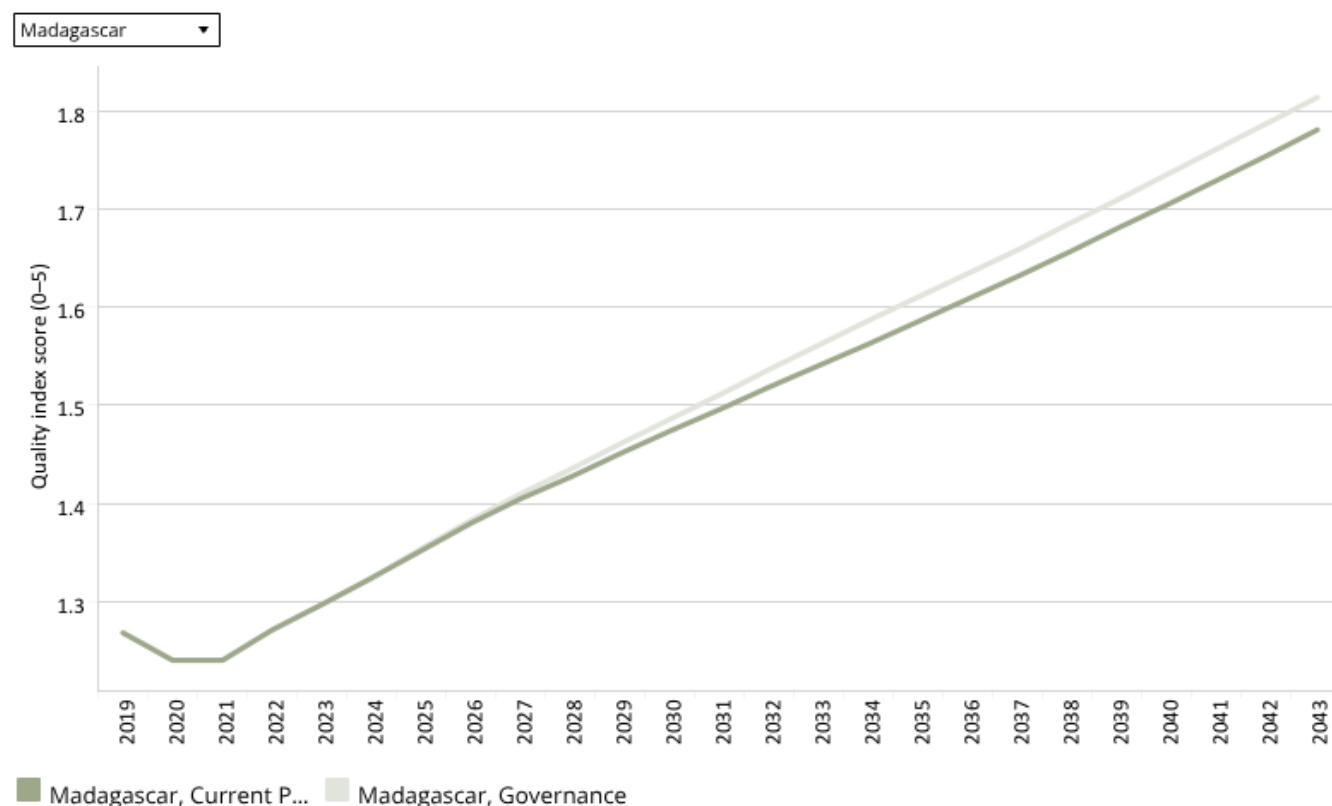
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In the Infrastructure scenario, the share of Malagasy living in extreme poverty is expected to drop from 73.2% in 2019 to 63.3% in 2043. This is an improvement of about 3.3 percentage points relative to the Current Path forecast of 66.6% for 2043. It means that 1.5 million people could escape poverty over the coming two decades due to the interventions in the Infrastructure scenario.



Governance scenario

Chart 51: Gov effectiveness in CP and Governance scenario, 2019–2043
World Bank quality index score for government effectiveness



Source: IFs 7.63 initialising from Kaufmann, Kraay and Mastruzzi (2010) data

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The Governance scenario represents a reasonable but ambitious improvement in accountability and reduces corruption, and hence improves the quality of service delivery by government.

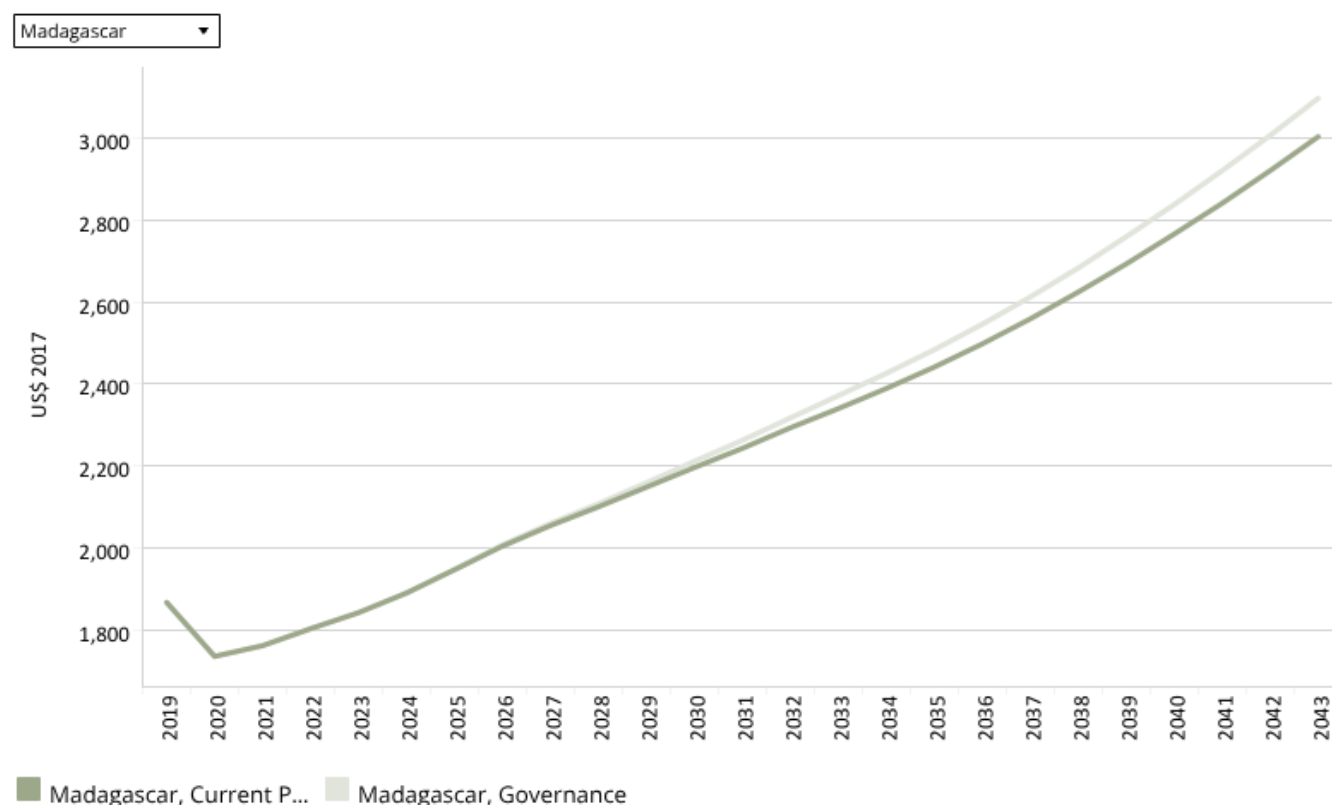
The intervention is explained [here](#) in the thematic part of the website.

As defined by the World Bank, government effectiveness ‘captures perceptions of the quality of public services, the quality of the civil service and the degree of its independence from political pressures, the quality of policy formulation and implementation, and the credibility of the government’s commitment to such policies’.

Chart 51 presents the impact of the interventions in the Governance scenario on government effectiveness.

In 2019, Madagascar ranked 14th for government effectiveness within its low-income peer group of 23 countries with Rwanda as the group’s frontrunner. Madagascar’s score of 1.3 lies slightly below the average group score of 1.4. In the Current Path forecast and the Governance scenario, Madagascar’s government effectiveness quality score is projected to improve to 1.7 and 1.8, respectively, by 2043. Africa’s low-income economies could reach an average score of 2 in the Governance scenario compared to 1.9 in the Current Path forecast.

Chart 52: GDP per capita in CP and Governance scenario, 2019–2043
Purchasing power parity



Source: IFs 7.63 initialising from UN Population Division World Population Prospects and World Development Indicators data

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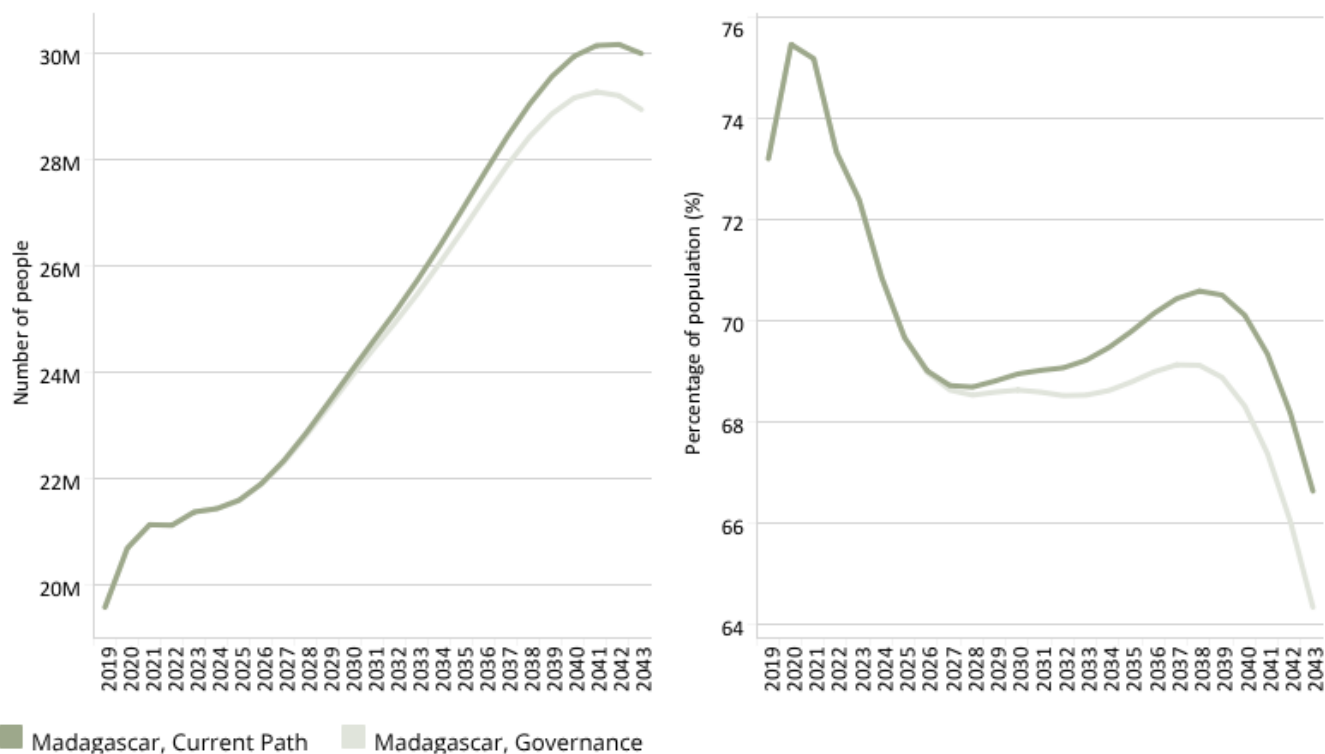
In the Current Path forecast, GDP per capita is expected to increase to US\$3 004 while the Governance scenario will increase GDP per capita to US\$3 098 by 2043. In any case, Madagascar is expected to lag behind the average GDP per capita for Africa's low-income economies, which is projected to be US\$3 790 in the Current Path forecast and US\$3 917 in the scenario by 2043.

Chart 53: Poverty in CP and Governance scenario, 2019–2043

Millions of people and % of total population



Madagascar \$1.90



Source: IFs 7.63 initialising from UN Population Division Population Prospects estimate, World Development Indicators population data and PovcalNet World Bank data

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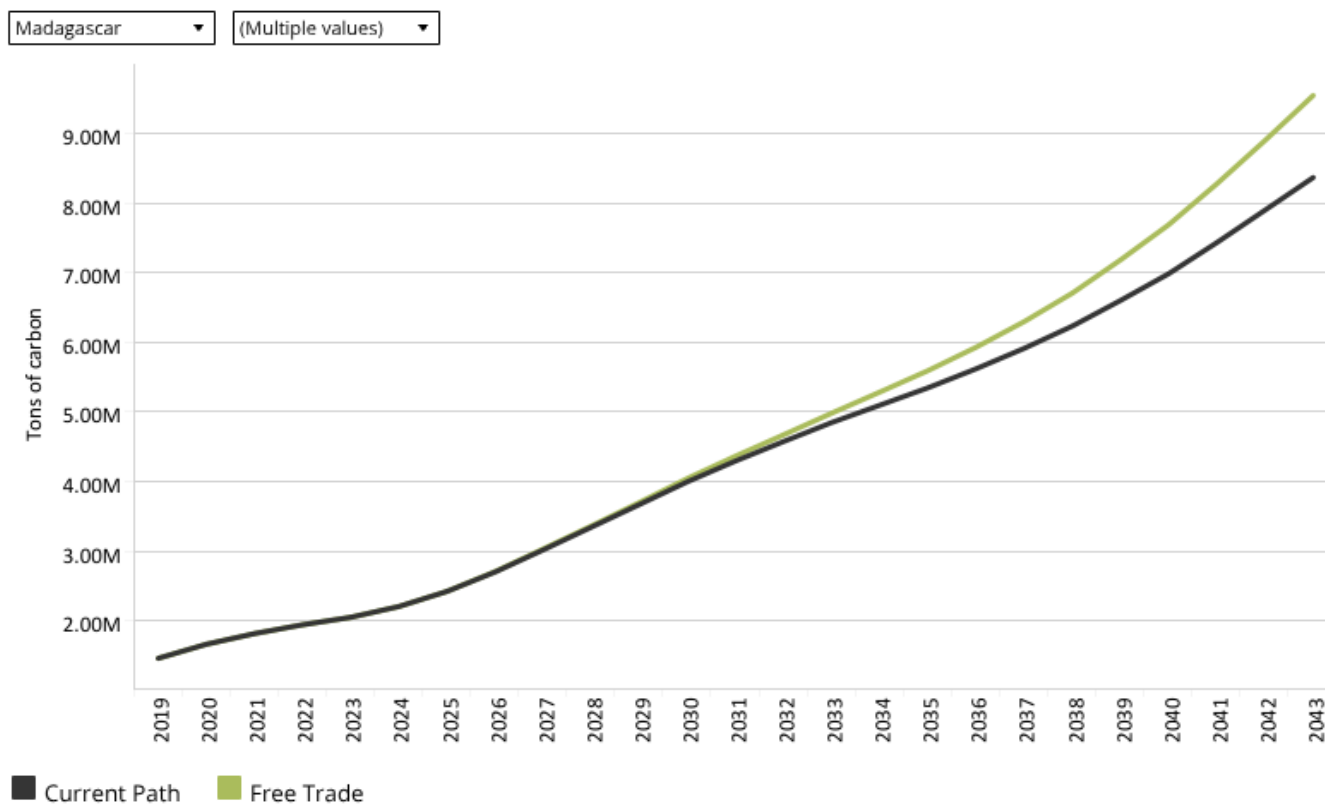
In the Governance scenario, Madagascar could reduce the share of the population living below the poverty line to 64.3% by 2043 compared to 66.6% in the Current Path forecast. The interventions in the Governance scenario could prevent about 1 million people in Madagascar from living in extreme poverty by 2043.



Impact of scenarios on carbon emissions

Chart 54: Carbon emissions in CP and scenarios, 2019–2043

Million tons of carbon (note, not CO₂ equivalent)



Source: IFs 7.63 initialising from Carbon Dioxide Information Analysis Center data

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This section presents projections for carbon emissions in the Current Path for Madagascar and the 11 scenarios. Note that IFs uses carbon equivalents rather than CO₂ equivalents.

Madagascar's carbon emissions are projected to increase the most in the Leapfrogging and the Free Trade scenarios by 2043, resulting in additional emissions of close to 10 million tons each.

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