

# Botswana

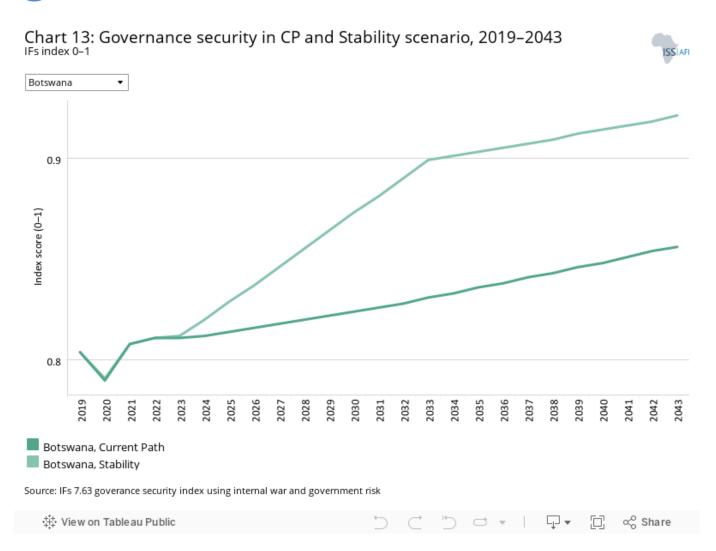
Sectoral Scenarios for Botswana

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# Sectoral Scenarios for Botswana

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

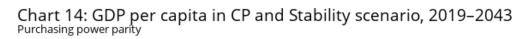
internal conflict. Stability is generally a prerequisite for other aspects of development and this would encourage inflows of foreign direct investment (FDI) and improve business confidence. Better governance through the accountability that follows substantive democracy is modelled separately.

The intervention is explained here in the thematic part of the website.

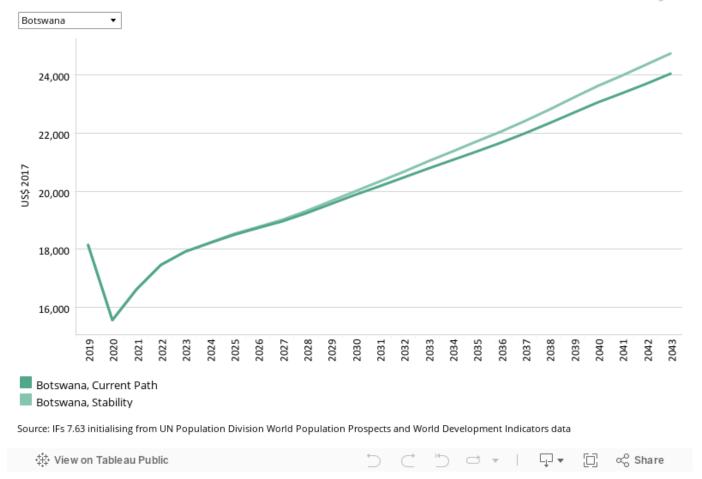
Botswana has enjoyed a stable political environment post-independence with little perceived historical internal friction. The country's prudent macroeconomic policies and good governance have generated significant wealth from its mineral (diamonds) resources and it has been spared the "resource curse". The Botswana Democratic Party (BDP) has been the governing party since independence but recent tension [1] between former president Khama and his successor Masisi has raised concerns about the future of the BDP and what this could mean for Africa's oldest continuous democracy. [2]

Botswana has and continues to enjoy a very high level of governance security compared to its regional neighbours and its upper middle-income peers. In 2019, it scored the second highest among its income peers with a score nearly 10 percentage points above the average for upper middle-income Africa. Botswana's governance security index score of 0.8 is also significantly above the 0.66 average for SADC and the 0.69 average for Africa. Botswana performs above the average for its income peers in governance transparency, effectiveness, security and economic freedom, and it was considered the second least corrupt country in Africa, behind only the Seychelles in 2019.

Due to this high overall governance security, the country will gain less from the stability interventions than its upper middle-income peers and its regional neighbours in SADC. Still, the country gains 6% on the governance security index by 2043 compared to SADC, while upper middle-income Africa stands to benefit from a 10% increase.



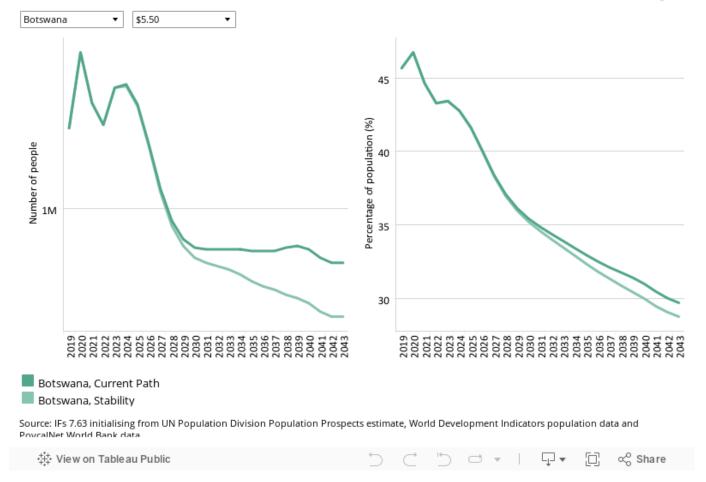




In the Stability scenario, GDP per capita will grow from US\$18 138 in 2019 to US\$24 754 in 2043, US\$698 more than in the Current Path forecast for the same year. In both the Current Path forecast and the Stability scenario, the GDP per capita remains significantly above the average for upper middle-income African countries throughout the forecast horizon to 2043.

Chart 15: Poverty in CP and Stability scenario, 2019–2043 Millions of people and % of total population



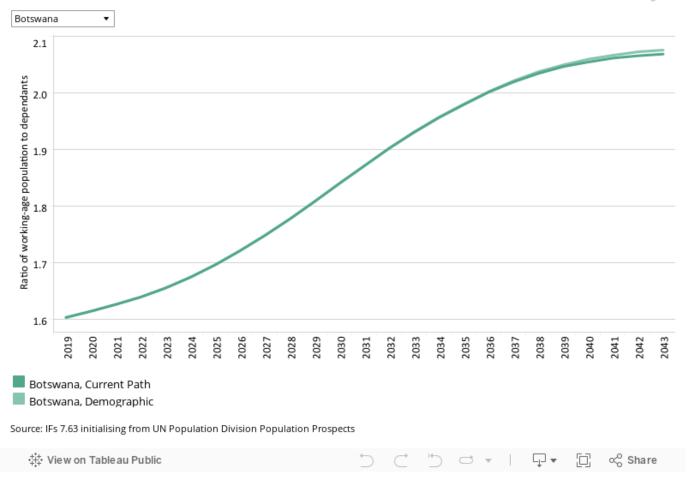


The Stability scenario has a positive but small impact on the poverty rate and will only benefit the country from 2030 onwards. Poverty rates in this scenario are likely to reach 28.8% by 2043, 0.9 percentage points lower than in the Current Path forecast. The Stability scenario would therefore lift an additional 30 000 people out of poverty. Poverty rates will remain significantly below the average for upper middle-income Africa.



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





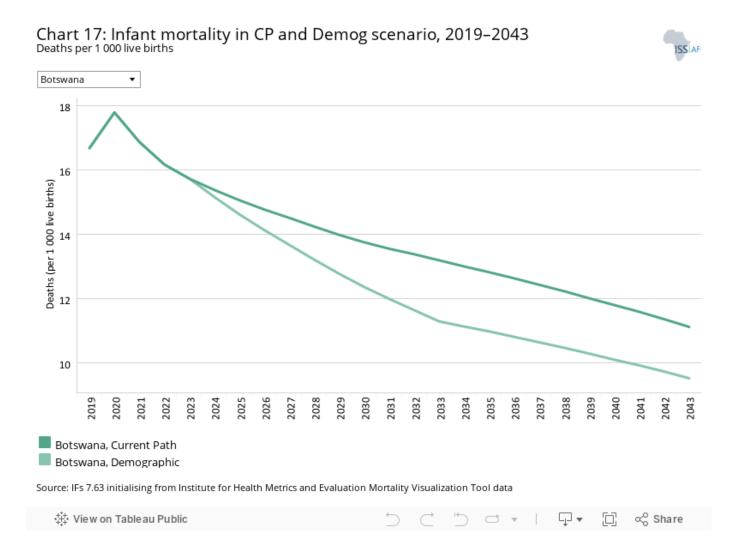
This section presents the impact of a Demographic scenario that aims to hasten and increase the demographic dividend through reasonable but ambitious reductions in the communicable-disease burden for children under five, the maternal mortality ratio and increased access to modern contraception.

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.

Botswana is at a more advanced stage of the demographic transition compared to Africa and is on the cusp of a demographic dividend. Botswana has a high ratio of working-age population to dependants and in 2019 this ratio was 1.6. In the Current Path forecast, the large working-age population is expected to continue to grow from 1.4 million, 61.6% of the total population, in 2019 to 2.2 million, or 67.4% of the total population, in 2043. Botswana lags behind the 1.85 average ratio for upper middle-income Africa but is substantially above the 1.27 average for Africa and the 1.23 average for SADC. In the Current Path forecast, the country will enter its demographic dividend window by 2025, although a recent study has argued that Botswana has already entered this window of opportunity. [3]

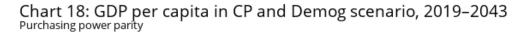
Due to the advanced stage of the demographic transition in Botswana, the Demographic scenario does not significantly impact population growth rates. In both the Current Path forecast and the Demographic scenario, Botswana enters a ratio of 1.7 by 2025 and remains within this window throughout the forecast horizon, surpassing the average ratio for upper middle-income Africa in 2040.



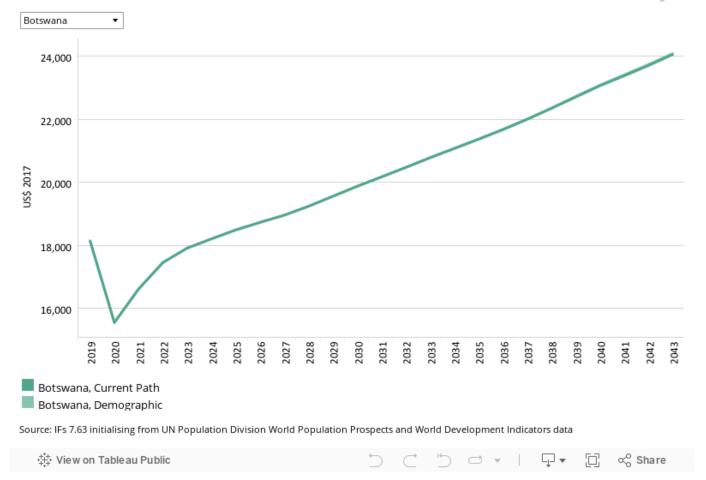
The infant mortality rate is the number of infant deaths per 1 000 live births and is an important marker of the overall quality of the health system in a country.

Infant mortality rates in Botswana have significantly and remarkably dropped since 1960. In 1960, deaths per 1 000 live births stood at 78 and by 2019 this figure had dropped to 17, the sixth lowest in Africa. The infant mortality rate in Botswana is 14 deaths per 1 000 live births lower than the average for upper middle-income Africa and nearly 30 lower compared to SADC.

Botswana has performed remarkably well in this development area, however, the period from the mid-1990s to 2004 was marked by a noticeable increase in infant deaths as a direct result of the HIV/AIDS pandemic that ravaged the country. The trends have been reversed since the roll-out of access to ART and a programme that focused on the prevention of mother to child transmission. In the Current Path forecast, infant mortality will be reduced to 11 deaths per 1 000 live births by 2043, still significantly below the 25 expected for upper middle-income Africa. The Demographic scenario positively influences this trajectory and will result in 1.6 fewer deaths per 1 000 live births by 2043.



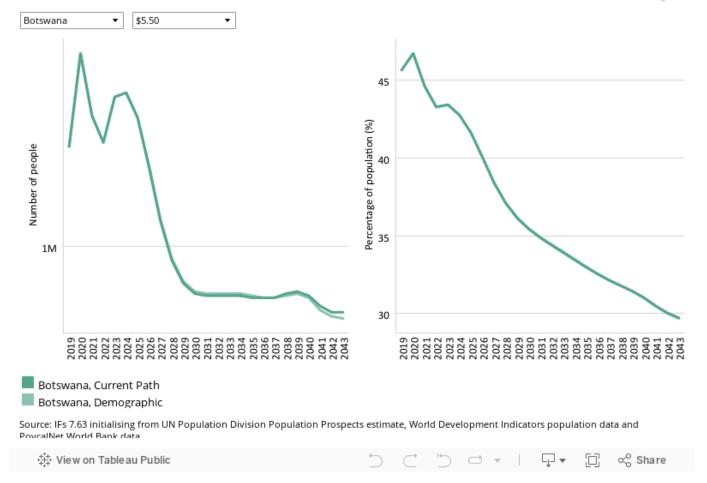




Botswana's demographic composition has already transitioned to a more advanced stage due to much lower fertility rates over an extended time. The interventions proposed in the Demographic scenario therefore offer little to no impact on the income of the population as Botswana enters (or continues) its first demographic dividend. By 2043, Botswana's GDP per capita is expected to increase by only US\$33 above the Current Path forecast resulting in a per capita income of US\$24 089. The GDP per capita gap between Botswana and the average for upper middle-income countries is forecast to grow in the Demographic scenario from US\$3 903 in 2019 to US\$6 300 by 2043.

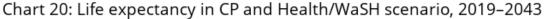


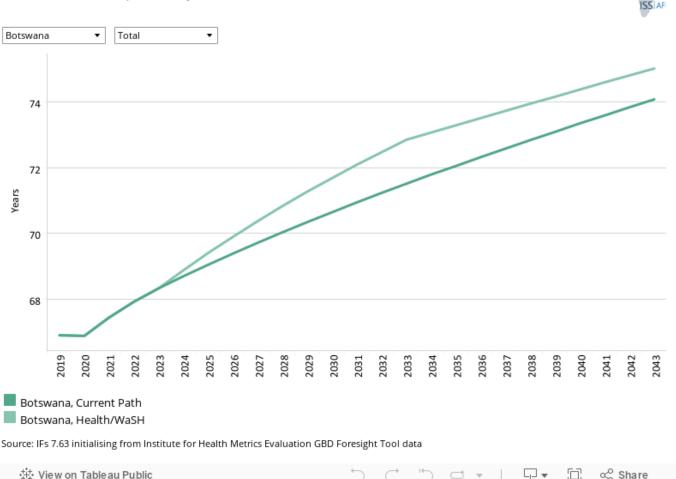




The interventions proposed in the Demographic scenario offer little benefit to poverty reduction in Botswana as these interventions have a negligible impact on demographic transitioning since Botswana is already enjoying the benefits of a large workforce.







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.

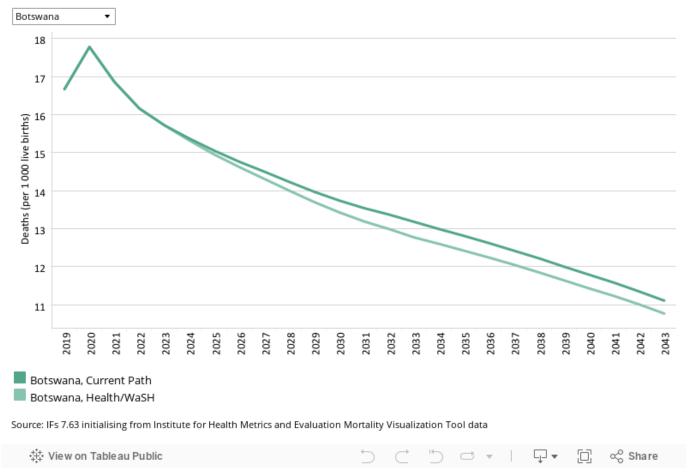
The intervention is explained here in the thematic part of the website.

At the turn of the century, during the height of the HIV/AIDS pandemic in Botswana, the country's life expectancy plummeted to 45 years and was ranked 50th on the continent. It has since improved significantly, and in 2015 it reached 65 years — the same levels attained in 1990 before the pandemic took hold. In 2019, life expectancy stood at 67 years, the third highest among upper middle-income Africa, a remarkable improvement of 22 years since the turn of the century. Currently, Botswana's life expectancy is 4 years above its regional neighbours in SADC.

In the Current Path forecast, Botswana's life expectancy is expected to continue improving, reaching 74.1 years by 2043, 4 years above the average for upper middle-income countries in Africa. Continued investment in the reduction of both communicable diseases (AIDS) and non- communicable diseases will reduce mortality rates and, in the Health/WaSH scenario, it is expected that life expectancy will increase by nearly a year in 2043 compared to the Current Path forecast.

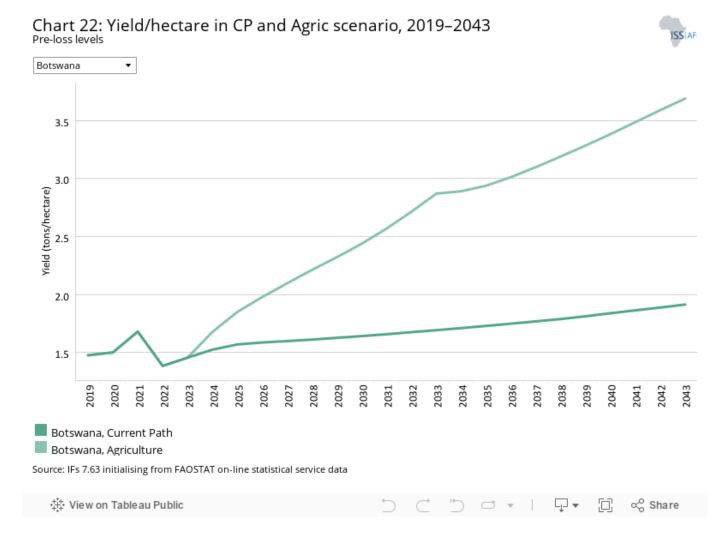
Chart 21: Infant mortality in CP and Health/WaSH scenario, 2019–2043 Deaths per 1 000 live births





The Health/WaSH scenario will have a positive impact on reducing infant deaths compared to the Current Path forecast, although only by a small margin. This scenario will lower the infant mortality rate to 10.8 deaths per 1 000 live births by 2043, 0.3 deaths fewer compared to the Current Path forecast.





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.

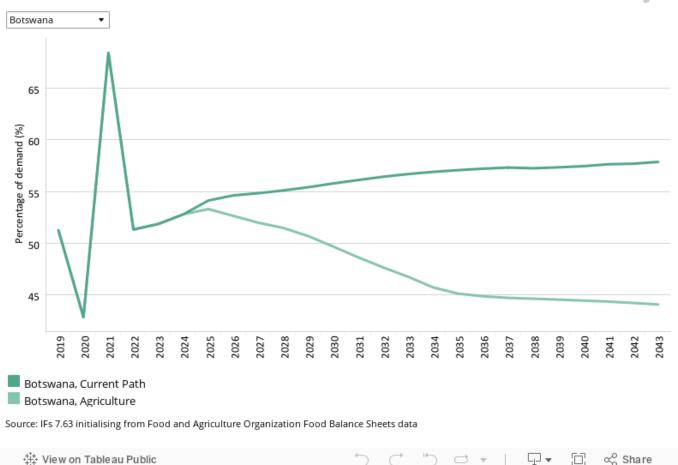
Botswana does not boast great agricultural crop production potential. The country only cultivates 0.3 million hectares of crop land, and with limited access to water resources and cyclic droughts, the country is likely to remain dependent on the importation of basic foodstuffs. In 2019, crop production stood at 0.4 million metric tons with a demand of 1.2 million metric tons. Beef is Botswana's primary agricultural product with meat production standing at 0.5 million metric tons in 2019 and a demand of 0.6 million metric tons. Only 45% of Botswana's surface area is considered suitable for grazing.

In 1970, the agricultural contribution to GDP stood at 43.7%, but by 2019 the sector's contribution had dropped to 3.6%. While this is a reflection of the changing nature of Botswana's economy after the exploration of minerals (diamonds), it also reflects the reluctance of the sector to innovate and become more resilient against climate shocks.

In 2019, agricultural yields in Botswana stood at 1.5 metric tons per hectare, 3.2 tons per hectare less than the average for upper middle-income countries in Africa and 2.4 metric tons per hectare less than the average for Africa. In the Agriculture scenario, it is forecast that yields will increase to 3.7 metric tons per hectare by 2043. The Agriculture scenario will improve yields with 1.8 metric tons per hectare compared to the Current Path forecast in 2043.





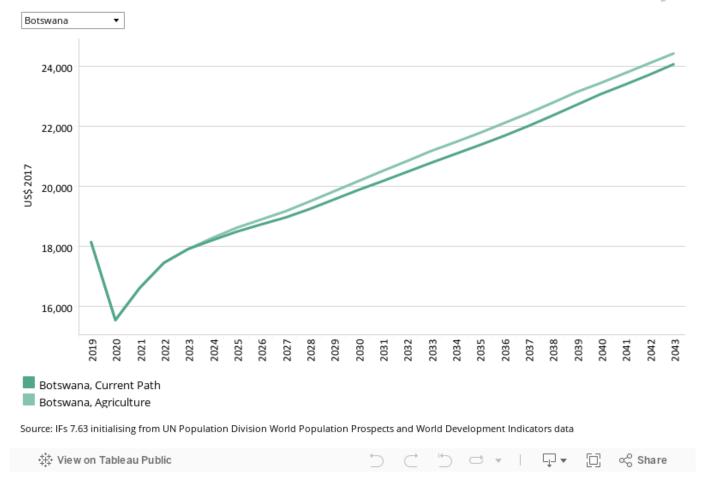


Botswana is extremely vulnerable to food insecurity and relies heavily on South Africa and Zambia for food imports. In 2019, total agricultural demand exceeded production, accounting for a 51.2% import dependency. In the Current Path forecast, demand is projected to continue exceeding production, resulting in a significant import dependency of 57.9% by 2043.

The Agriculture scenario will benefit Botswana by increasing land access to irrigation and improving yields. In this scenario, Botswana can lower its import dependency to 44% by 2043, down from 57.9% in the Current Path forecast. This, however, still paints a picture of a food-insecure country with heavy dependency on the importation of crops.

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

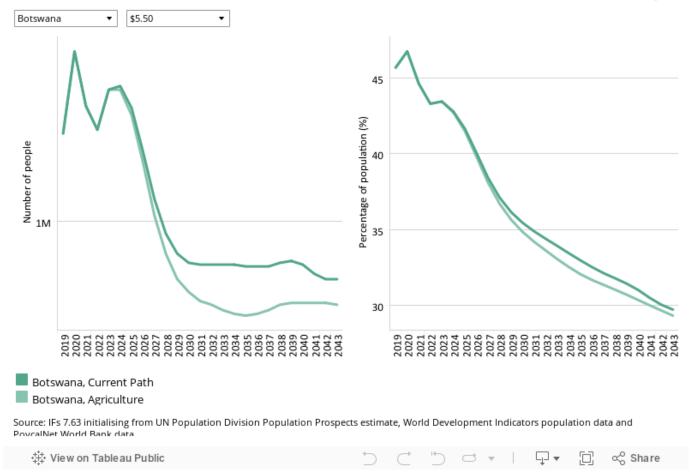




By 2043, the Agriculture scenario will have a modest impact on GDP per capita, increasing income by US\$360 over the Current Path forecast. This will result in a GDP per capita income of US\$24 416 in 2043. Income will remain significantly above the average for upper middle-income countries in Africa with a growing income gap throughout the forecast horizon.







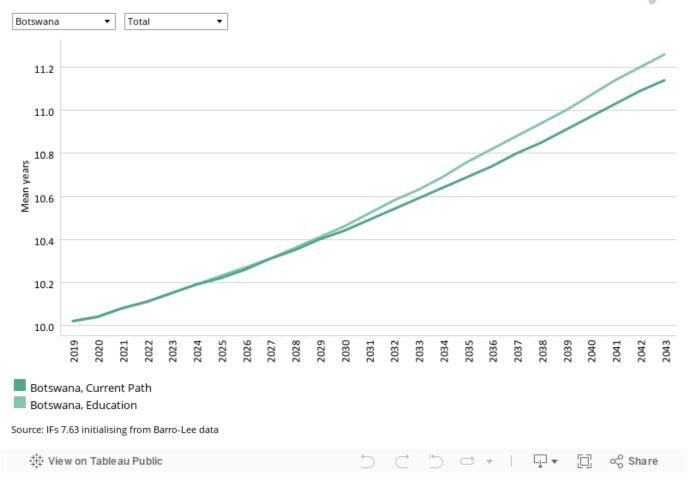
Botswana has limited agricultural potential due to a lack of arable land and limited water resources. Additionally, only 11.4% of the labour force was employed in the agriculture sector in 2019, and this share is projected to drop to 7.2% by 2043. The livestock sector is already performing well, limiting the potential impacts of agricultural interventions. The Agriculture scenario will therefore have a small impact on poverty reduction in the country by 2043. The scenario has an immediate impact on reducing poverty in the short term but will only reduce poverty by 0.4 percentage points compared to the Current Path forecast in 2043, lifting an additional 20 000 people out of poverty.



Chart 26: Mean years of education in CP and Educ scenario, 2019–2043

Mean years of adult (+15) education





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.

Botswana spends a gigantic 11.7% of its GDP on education, the highest percentage globally. [4] Foundational phase education is provided in Setswana to optimise learning comprehension, after which the education system embraces English as the main medium. Literacy rates are high, measuring 87.6% in 2019 and are expected to reach 98% by 2043 in the Current Path forecast. Primary and the first three years of secondary education are provided for free and there is a very low learner to teacher ratio. [5]

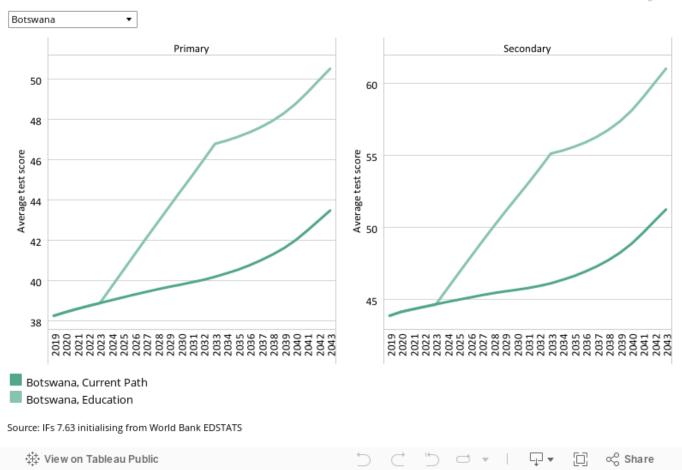
The mean years of education in Botswana, measuring 10 in 2019, is slightly higher than the 9.8 average for upper middle-income Africa and significantly higher than the 6.2 average for Africa. Mean years of education among the female population group is however 0.3 years lower than male attendance.

Botswana's investment in education, as a share of GDP, is the highest in the world and by 2043 this will bear dividends, as

mean years of education reaches 11.1 years in the Current Path forecast. In the Education scenario, Botswana will reach a mean of 11.3 years in 2043, 0.2 years above the Current Path forecast.

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

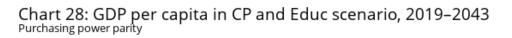




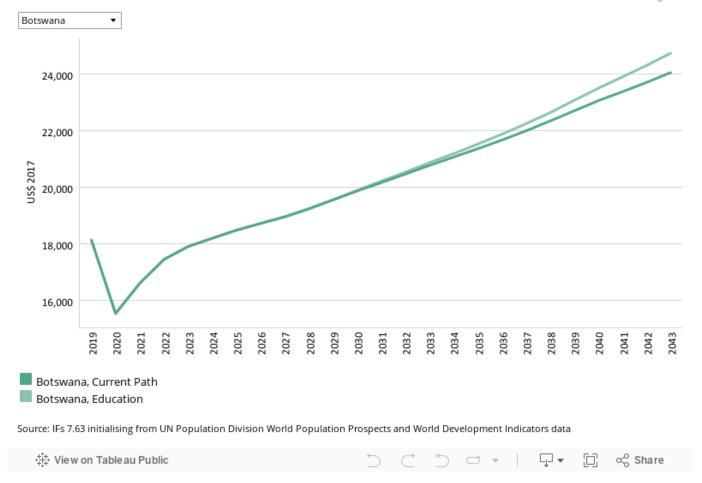
However, while Botswana provides great access to education, its learning outcomes are poor, albeit slightly better than the average for upper middle-income Africa. Education quantity is sufficient but Botswana must focus on quality education. [6]

In 2019, Botswana's primary test score was 38.3, and by 2043, it is expected to increase to 43.5 in the Current Path forecast. Botswana is expected to benefit from the Education scenario and is forecast to attain average test scores for primary learners of 50.5 by 2043, 7 percentage points higher than the Current Path forecast.

In the Education scenario, the test score for Botswana at the secondary level is 61 in 2043, up from 43.9 in 2019. The Education scenario is expected to result in test scores for secondary learners to be 10 percentage points higher by 2043 compared to the Current Path forecast at 51. Average test scores for secondary learners were above the average for upper middle-income countries in Africa in 2019 and will remain significantly above this average by 2043 in the Education scenario.



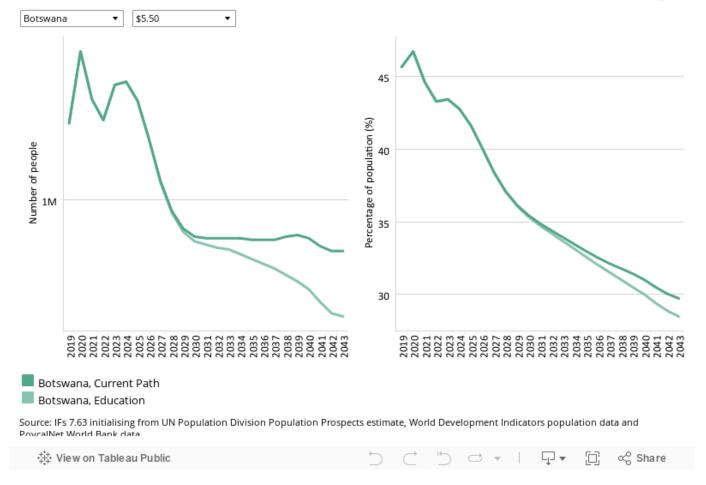




By 2043, the GDP per capita in Botswana in the Education scenario is expected to increase by US\$687 resulting in income levels of US\$24 743, compared to US\$24 056 in the Current Path forecast. The GDP per capita for Botswana is expected to continue to perform above its upper middle-income peers in Africa with a growing income gap throughout the forecast horizon to 2043.

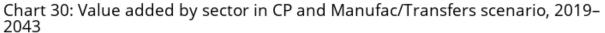




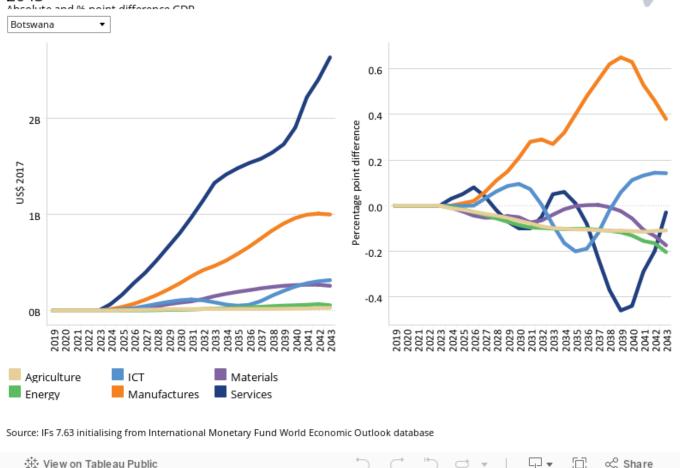


In the Education scenario, it is expected that poverty in Botswana will decrease to 28.5% by 2043, down from 45.7% in 2019. This is a 1.2 percentage point improvement compared to the Current Path forecast that is expected to be 29.7% by 2043. The scenario has the potential to lift an additional 40 000 people out of poverty.









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.

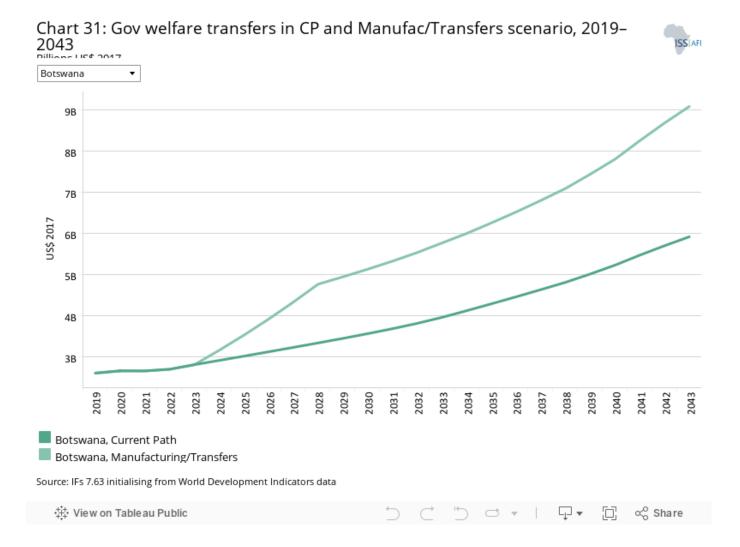
The intervention is explained here in the thematic part of the website.

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 continue to be the largest contributor to the economy, contributing an additional US\$2.6 billion to the GDP by 2043 but experiencing a 0.03 percentage point decline compared to the Current Path forecast.

The Manufacturing/Transfers scenario will significantly improve the contribution of the manufacturing sector, which will contribute an additional US\$1 billion (a 0.38 percentage point improvement) to GDP by 2043 compared to the Current Path forecast. ICT will also see an increase of 0.14 percentage points above the Current Path forecast, equating to a rise of

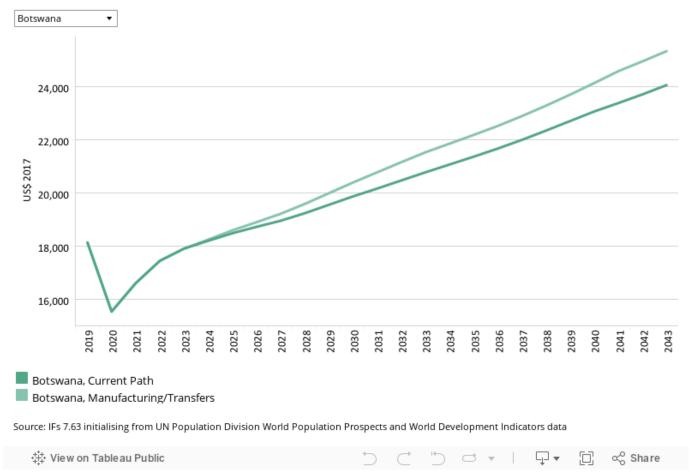
US\$0.3 billion. All three of the other sectors, materials, energy and agriculture, will experience a decline in contributions compared to the Current Path forecast.



In 2019, social welfare spending (government welfare transfers to unskilled workers) equated to US\$2.6 billion. In the Manufacturing/Transfers scenario, social welfare expenditure will increase to US\$9.1 billion, US\$3.2 billion higher than in the Current Path forecast. The purpose of these transfers is to target those workers who will be most affected by the restructuring of the economy, as more capital intensive investments are made and the demand for unskilled labour decreases.



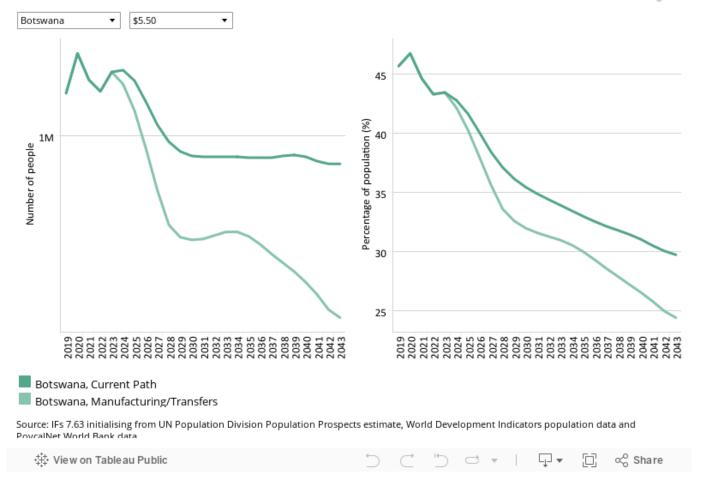




The interventions proposed in the Manufacturing/Transfers scenario will have a significant impact on the GDP per capita of Botswana in 2043, increasing it by US\$1 276 above the Current Path forecast. GDP per capita is expected to increase to US\$25 332 in this scenario compared to US\$24 056 in the Current Path forecast. In both the Current Path forecast and the Manufacturing/Transfers scenario, GDP per capita will still be significantly above the average for upper middle-income countries in Africa by 2043. The Manufacturing/ Transfers scenario also has a bigger impact on Botswana's income compared to the impact it has on upper middle-income countries in Africa. This shows the continuing and growing importance of investments needed for expanding Botswana's manufacturing sector.

Chart 33: Poverty in CP and Manufac/Transfers scenario, 2019–2043 Millions of people and % of total population



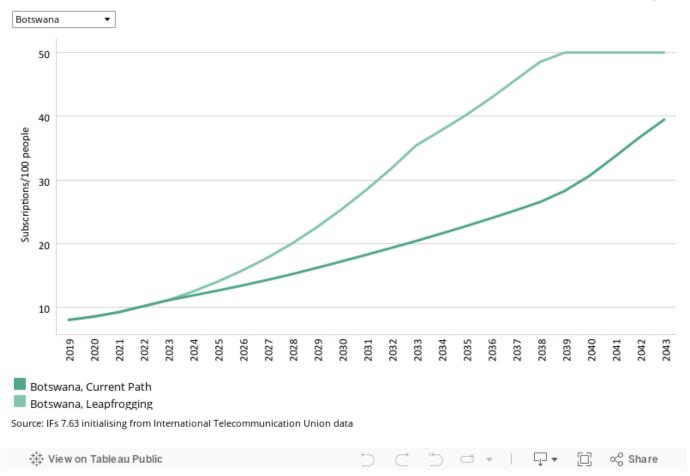


The Manufacturing/Transfers scenario will also have a significant impact on poverty reduction in the country by 2043. In this scenario, the poverty rate is reduced to 24.4%, a 5.3 percentage point reduction compared to the Current Path forecast by 2043. An additional 180 000 people will be lifted out of poverty in the Manufacturing/Transfers scenario compared to the Current Path forecast in 2043.



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





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.

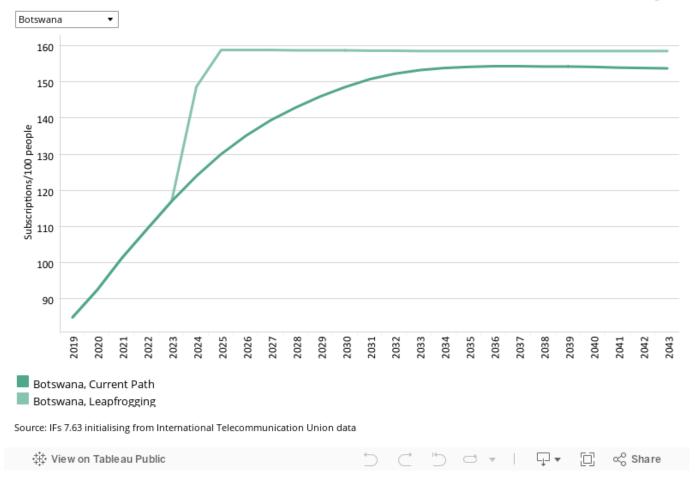
The intervention is explained here in the thematic part of the website.

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.).

Botswana's fixed broadband subscriptions at 8 per 100 people in 2019 was nearly double the average for upper middle-income countries in Africa and 4.8 subscriptions more than the average for Africa. The concentration of urban clusters towards the east and south-east of the country and generally small population size contribute to the performance of this sector. In the Leapfrogging scenario, fixed broadband subscriptions increase to 50 subscriptions per 100 people by 2039. In the Current Path forecast, Botswana only reaches 39.5 subscriptions per 100 people by 2043. The interventions proposed in the Leapfrogging scenario therefore accelerate access from 2024 onwards.

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



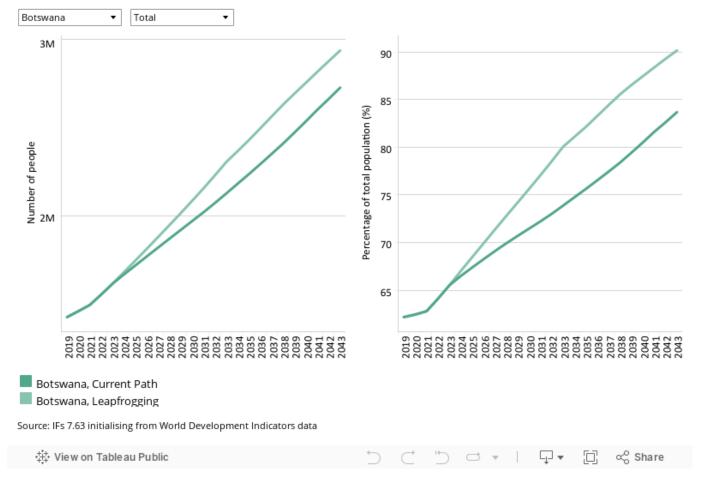


Mobile broadband refers to wireless Internet access delivered through cellular towers to computers and other digital devices.

At 84.7 subscriptions per 100 people, Botswana has slightly fewer mobile broadband subscriptions than the 86.4 subscriptions for upper middle-income Africa, but it has significantly more than the 40.5 subscriptions for Africa in 2019. In the Leapfrogging scenario, mobile broadband subscriptions will increase to 158.9 subscriptions per 100 people by as early as 2025.

Chart 36: Electricity access in CP and Leapfrogging scenario, 2019–2043 Millions of people and % of population





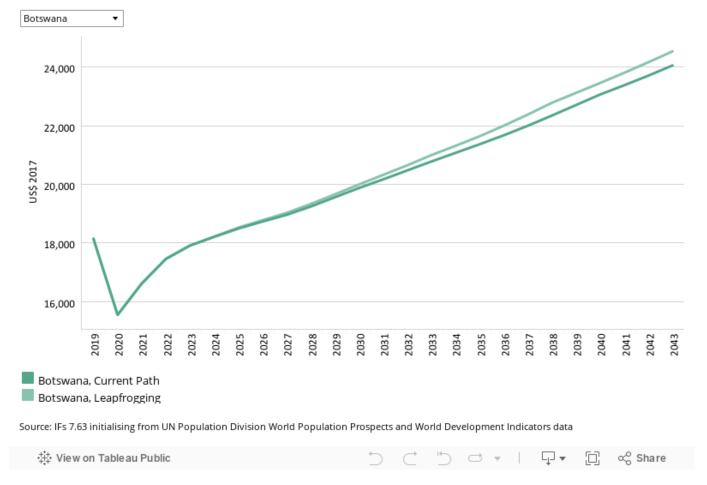
Electricity access in Botswana is low compared to the average for upper middle-income Africa. The country has limited in-house production capability and is heavily dependent on energy imports from neighbouring South Africa. In total, only 62.2% of the country's population had access to electricity in 2019, nearly 20 percentage points lower compared to upper middle-income Africa but 9 percentage points higher than the average of Africa.

This is the result of an ageing single coal-fire station, inadequate investment in transmission and distribution lines and historical underinvestment in renewable energies. In the Current Path forecast, it is projected that 83.7% of Botswana's population (translating to 2.7 million people) will have access to electricity by 2043. In the Leapfrogging scenario, electricity access is projected to reach 90.2% by 2043, benefiting an additional 210 000 people.

The projection indicates that in the Leapfrogging scenario, rural electricity access will increase from 33.1% in 2019 to 79.2% by 2043, 10.7 percentage points higher than in the Current Path forecast. For populations living in urban spaces, it is projected that in the Leapfrogging scenario, electricity access will increase from 75.5% in 2019 to 93.8% by 2043, 5.1 percentage points above the Current Path forecast. Without alternative and sustainable energy solutions, socio-economic development will be constrained.

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

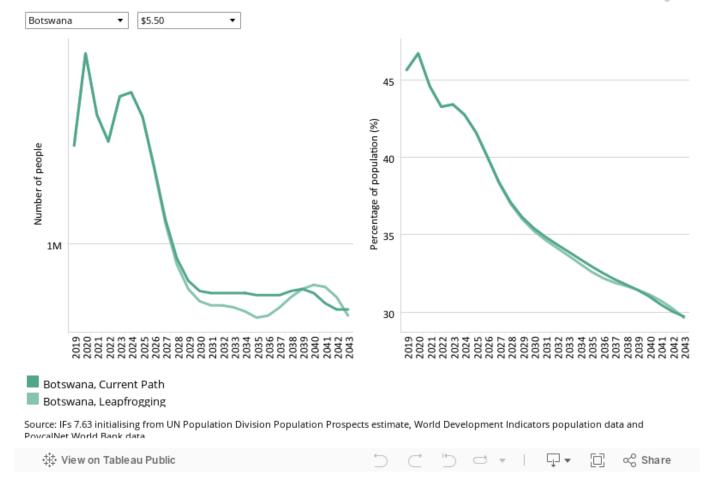




By 2043, the GDP per capita in Botswana is expected to increase to US\$24 536 in the Leapfrogging scenario, compared to US\$24 056 in the Current Path forecast — an increase of US\$480. The GDP per capita for Botswana is expected to continue to be above those from upper middle-income Africa.

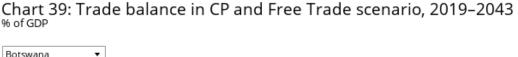
Chart 38: Poverty in CP and Leapfrogging scenario, 2019–2043 Millions of people and % of total population





The Leapfrogging scenario has a negligible impact on poverty reduction by 2043, lowering it by only 0.1 percentage point compared to the Current Path forecast. The poverty rate remains significantly below the average for upper middle-income Africa throughout the forecast horizon.









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.

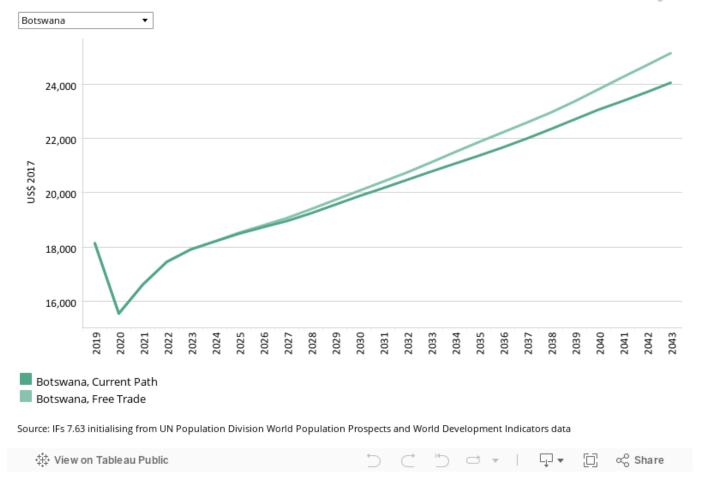
The intervention is explained here in the thematic part of the website.

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.

The full implementation of the AfCFTA not only enables countries to export more easily but also opens them up to increased imports, endangering those sectors where they lack competitive advantage. Botswana's trade surplus in 2019 stood at 0.4% of GDP. This is expected to worsen significantly in the near future, peaking at a deficit of 4.5% in 2026. The COVID-19 pandemic impacted the trade of luxury goods and Botswana's dependence on the importation of energy and foodstuff subjects the country to external price fluctuations. The longer-term forecast shows a recovery and improvement with a surplus of 1.2% in 2043 in the Current Path forecast. The Free Trade scenario intervenes in the short term, reducing the deficit to 3% in 2026 and improving the trade balance to a surplus of 4% in 2039.



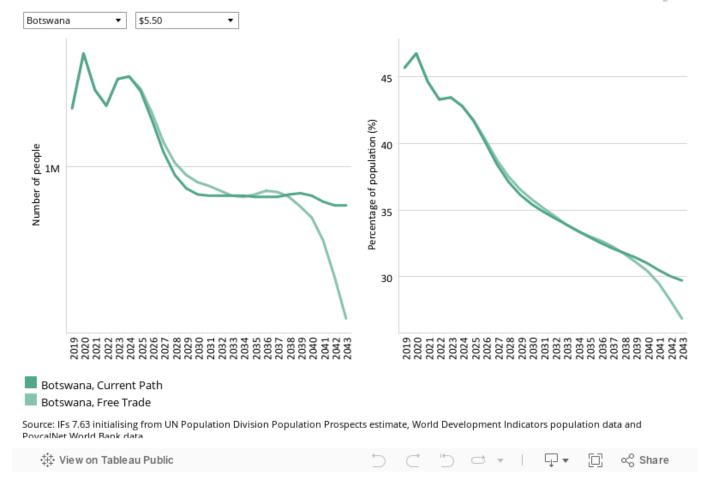




The interventions proposed in the Free Trade scenario have a positive impact on per capita income in Botswana. By 2043, GDP per capita in Botswana is expected to increase to US\$25 146 in the Free Trade scenario, compared to US\$24 056 in the Current Path forecast — an increase of US\$1 090. GDP per capita for Botswana is expected to continue to perform better compared to its upper middle-income peers.

Chart 41: Poverty in CP and Free Trade scenario, 2019–2043 Millions of people and % of total population



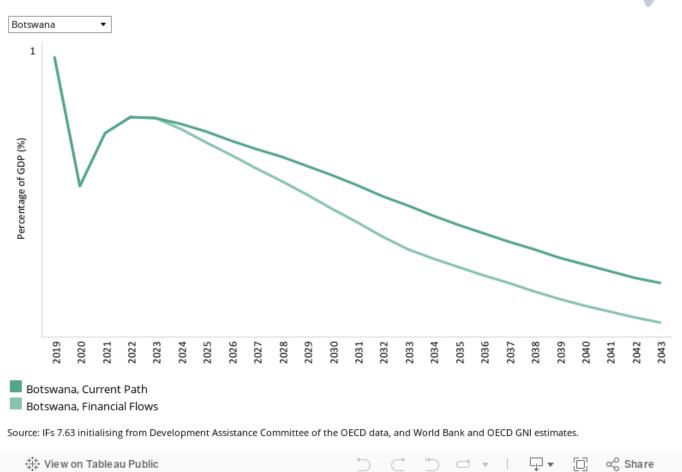


By 2043, poverty will drop from 29.7% in the Current Path forecast to 26.9% in the Free Trade scenario. This scenario therefore contributes a 2.8 percentage point reduction in the poverty rate compared to the Current Path forecast, lifting an additional 90 000 people out of poverty.









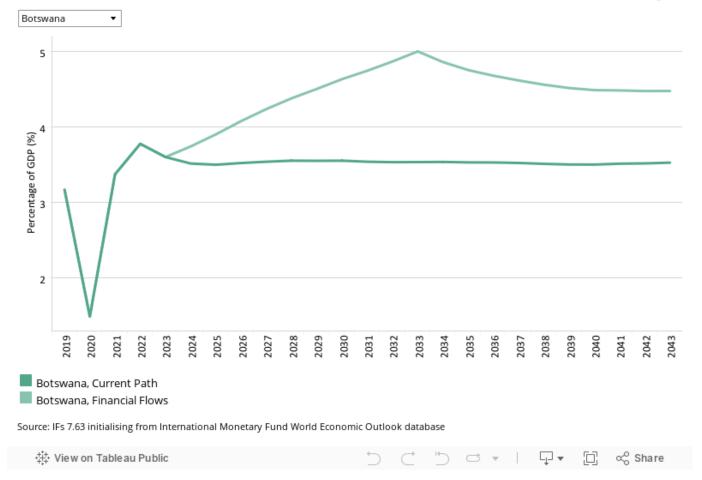
The Financial Flows scenario represents a reasonable but ambitious increase in worker remittances and aid flows to poor countries, and an increase in the stock of foreign direct investment (FDI) and additional portfolio investment inflows to middle-income countries. We also reduced outward financial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

The intervention is explained here in the thematic part of the website.

The economy of Botswana benefits only marginally from foreign aid inflows, and in 2019 foreign aid contributed 0.6% to the country's GDP, on par with the average for upper middle-income Africa. Botswana, and most of upper middle-income Africa, rely much less on foreign aid compared to the average of African countries. Foreign aid flows are projected to decrease in both scenarios, equating to 0.32% in the Financial Flows scenario, compared to 0.36% for the Current Path forecast by 2043.

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

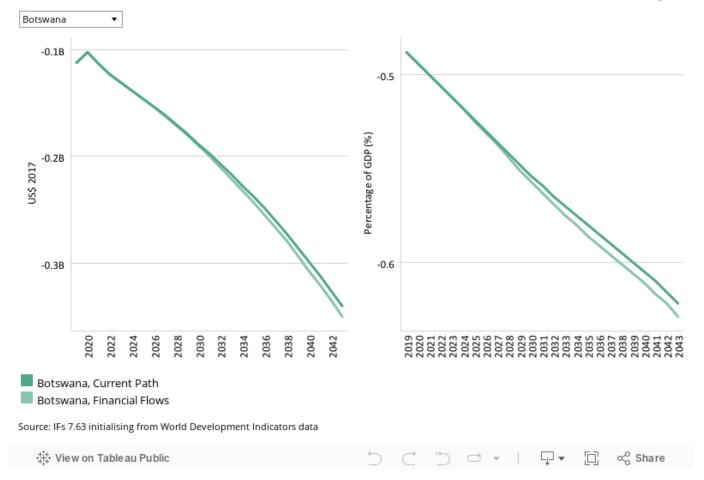




In 2019, foreign investment in Botswana measured above the average for upper middle-income Africa by 0.9 percentage points. The country's stable political environment and wealth of natural resources are attractors of investment. In the Financial Flows scenario, FDI inflows increase to 4.5% of GDP by 2043, 1 percentage point higher than the Current Path forecast. The COVID-19 pandemic has impacted inflow of FDI significantly, but it is expected to recover in the short term.

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

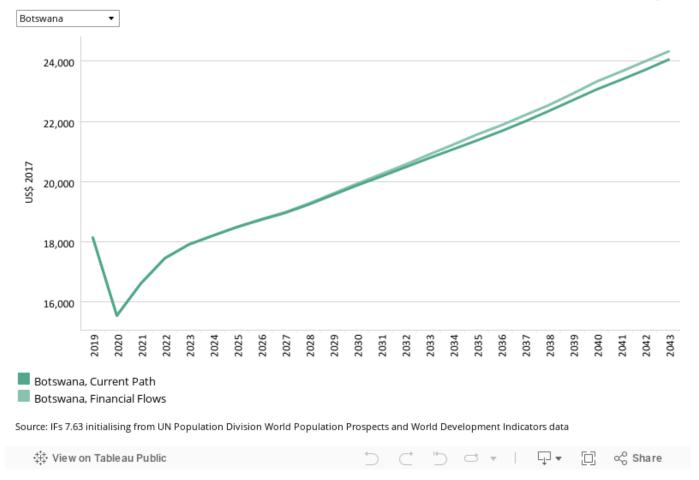




Botswana is a net sender of remittances. The strong economy attracts migrant workers from neighbouring Zimbabwe, South Africa and Zambia. This remittance trend is likely to continue throughout the forecast horizon as Botswana's economy outperforms many of its neighbouring countries. In 2019, remittances as a % of GDP equated to -0.49% and will decline further to -0.63% by 2043 in the Financial Flows scenario, 0.01 percentage points below the Current Path forecast.

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

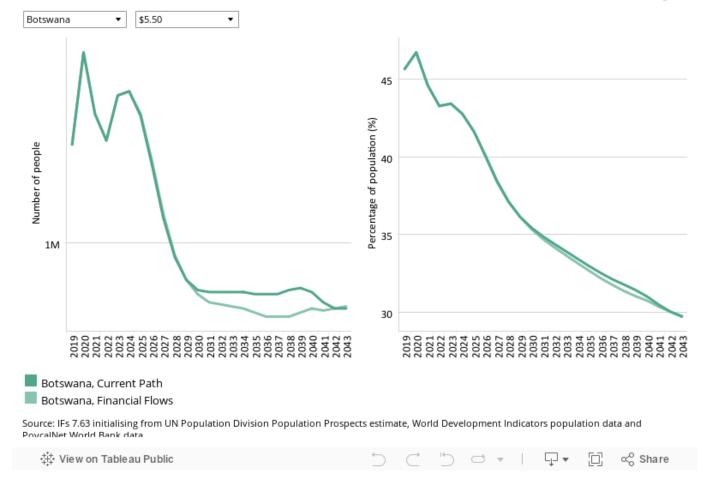




By 2043, the GDP per capita is expected to increase to US\$24 329 in the Financial Flows scenario, compared to US\$24 056 in the Current Path forecast, an increase of US\$273. The GDP per capita for Botswana will remain significantly higher compared to the average for upper middle-income Africa.

Chart 46: Poverty in CP and Financial Flows scenario, 2019–2043
Millions of people and % of total population





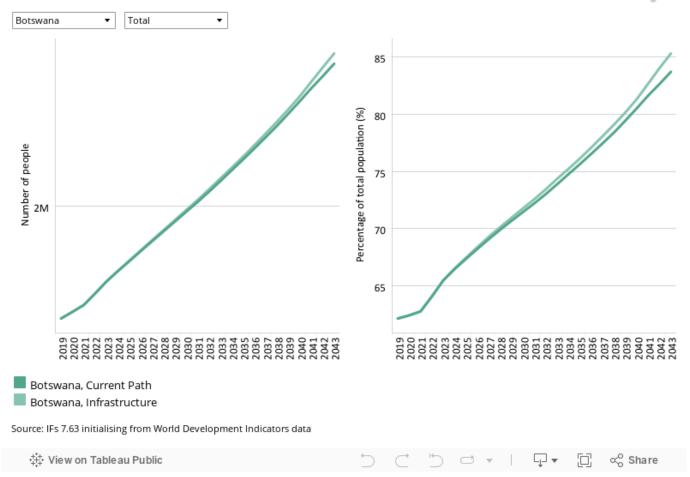
Trade openness will reduce poverty in the long term after initially increasing it due to the redistributive effects of trade. Most African countries export primary commodities and low-tech manufacturing products, and therefore a continental free trade agreement (AfCFTA) that reduces tariffs and non-tariff 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.

The Financial Flows scenario has no long-term benefit above the Current Path forecast with both reducing the poverty rate from 45.7% in 2019 to 29.7% in 2043. In 2043, 970 000 people will remain below the poverty line of US\$5.50.



Chart 47: Electricity access in CP and Infrastructure scenario, 2019–2043
Millions of people and % of population





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.

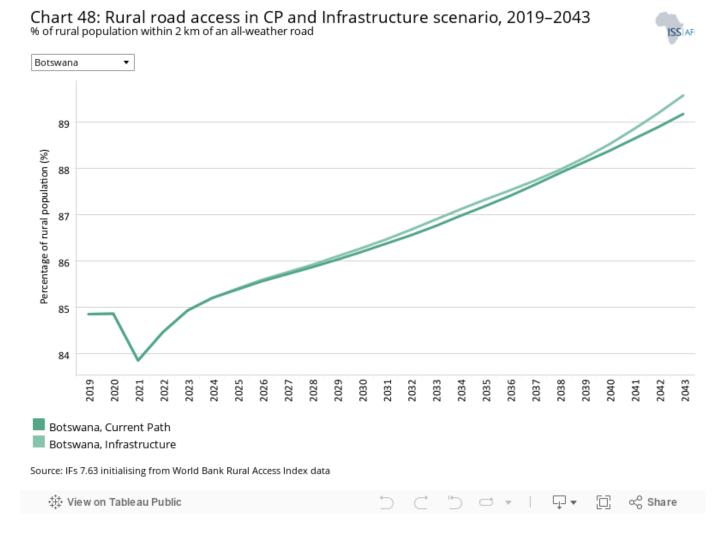
Note that health and sanitation infrastructure is included as part of the Health/WaSH scenario and that ICT infrastructure and more rapid uptake of renewables are part of the Leapfrogging scenario. The interventions there push directly on outcomes, whereas those modelled in this scenario increase infrastructure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

The intervention is explained here in the thematic part of the website.

The country performs significantly below the average level of electricity access for upper middle-income African countries. In 2019, 75.8% of urban and 33.1% of the rural population had access to electricity. The national grid remains very sparse and outdated.

The Infrastructure scenario stands to benefit Botswana by increasing electricity access to 85.3% in 2043, 1.6 percentage points above the Current Path forecast. It will also address the rural access inequality and raise rural access to 71.7% by

2043, 3.1 percentage points above the Current Path forecast. The Infrastructure scenario will benefit urban areas by increasing access with 1.1 percentage points above the Current Path forecast by 2043.



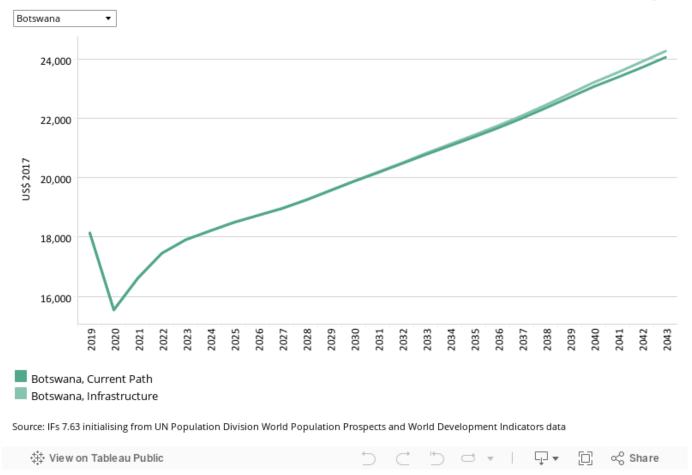
Indicator 9.1.1 in the Sustainable Development Goals refers to the proportion of the rural population who live within 2 km of an all-season road and is captured in the Rural Access Index.

Measuring rural accessibility is a very important development indicator. There is a strong link between investing in rural access roads and positive socio-economic impacts, such as improving rural income, reducing poverty, reducing maternal deaths, improving paediatric health and increased agricultural productivity. [7]

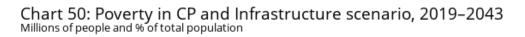
Botswana has a good quality road network, with strong arterials connecting South Africa with Namibia. Its sparse rural population also contributes to overall high accessibility. In 2019, 85% of Botswana's rural population had access to an all-weather road, compared to an average of 83.5% for upper middle-income countries in Africa and 53% for the average of Africa. The Infrastructure scenario will only marginally influence rural accessibility and by 2043 it is projected that 89.6% of the rural population will have access to an all-weather road, compared to 89.2% for the Current Path forecast.

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

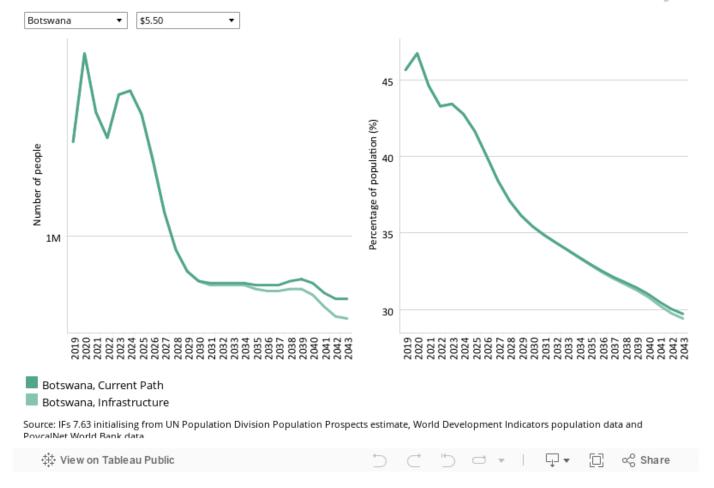




By 2043, the GDP per capita in Botswana is expected to increase to US\$24 263 in the Infrastructure scenario, compared to US\$24 056 in the Current Path forecast, an increase of US\$207. The GDP per capita for Botswana will remain above the average for upper middle-income Africa with a growing per capita gap throughout the forecast horizon.





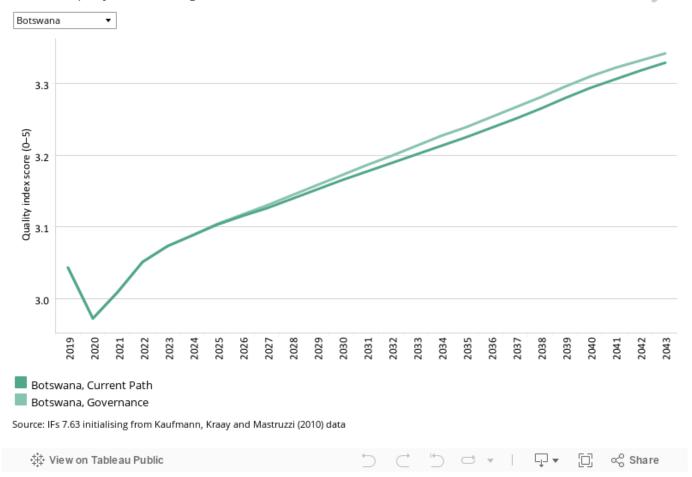


The Infrastructure scenario has a negligible impact on poverty reduction, lowering poverty by only 0.3 percentage points by 2043 compared to the Current Path forecast and lifting an additional 10 000 people out of extreme poverty. The poverty rate remains significantly below the average for upper middle-income Africa throughout the forecast horizon.



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





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.

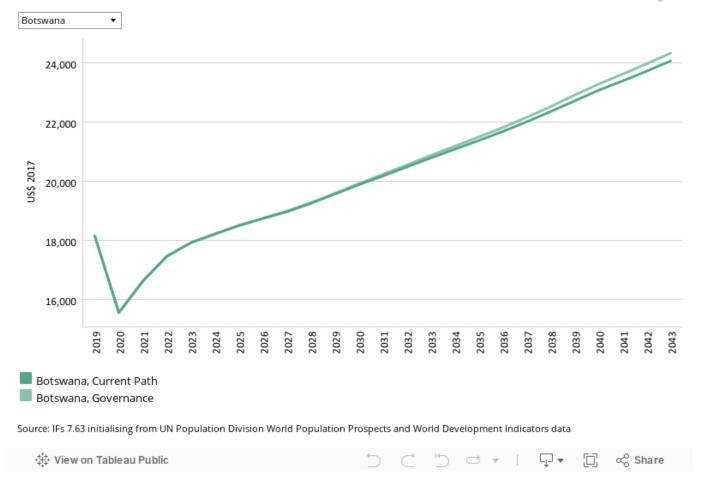
As defined by the World Bank, government effectiveness 'captures perceptions of the quality of public services, the quality of the civil service and the degree of its independence from political pressures, the quality of policy formulation and implementation, and the credibility of the government's commitment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

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

Botswana scores significantly higher than the average of upper middle-income Africa, Africa and its regional neighbours in SADC. In 2019, Botswana had the second highest government effectiveness score in Africa, second only to Mauritius. Botswana's government is considered to be an effective government and boasts a capable state with strong and functioning institutions. The Governance scenario therefore improves the score only marginally from a quality score of 3 in 2019 to 3.3 by 2043.

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

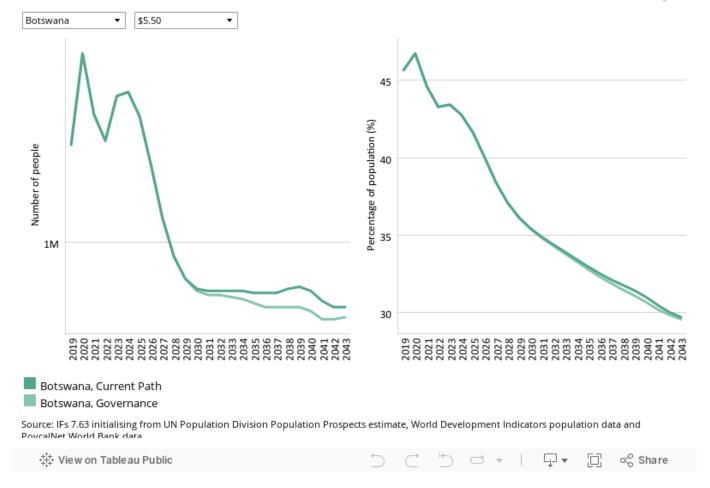




By 2043, the GDP per capita in Botswana is expected to increase to US\$24 318 in the improved Governance scenario, compared to US\$24 056 in the Current Path forecast, an increase of US\$262. The GDP per capita for Botswana will remain above the average for upper middle-income Africa with a growing per capita gap throughout the forecast horizon.



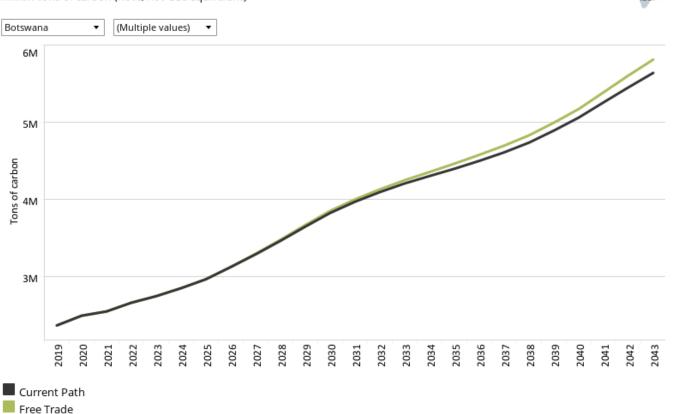




The Governance scenario has a negligible impact on alleviating poverty by 2043. The scenario will reduce poverty by a mere 0.1 percentage points compared to the Current Path forecast in 2043. The poverty rate will remain below the poverty rates for upper middle-income Africa and Africa.



#### 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



Chart 54 displays projected tons of carbon emissions for Botswana in the Current Path and the 11 intervention scenarios. Note that IFs uses carbon equivalents rather than CO2 equivalents.

Botswana's carbon emissions are projected to increase most in the Manufacturing/Transfers scenario, emitting an additional 3.4 million tons of carbon by 2043 compared to 2019, and 0.2 million tons of carbon more than the Current Path forecast for 2043. The Free Trade scenario will lead to the second highest level of emissions, followed by the Stability scenario. In the Demographic scenario, emissions are forecast to be the same as in the Current Path forecast. In 2043, emissions in the Demographic scenario are likely to be 5.6 million tons, up from 2.4 million tons in 2019.

fons of carbon

∀ View on Tableau Public

### **Endnotes**

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