Lower middle-income Africa
Sectoral Scenarios for Lower middle-income Africa

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Sectoral Scenarios for Lower middle-income Africa

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Stability scenario

Chart 13: Governance security in CP and Stability scenario, 2019–2043

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.

Using the governance security index within IFs, LMI Africa is below the average for LMI countries of 0.74 but above the average for Africa of 0.69. The LMI Africa Current Path forecast will see a modest improvement in governance security between 2019 and 2043. In 2019, Tunisia and Cape Verde had the highest score in the governance security index in the group of 0.85 and 0.81, respectively, while Angola, with its violent past, large youth bulge and high levels of corruption, had the lowest at 0.63. Although Tunisia was the trigger for the Arab Spring in December 2010, it rapidly transitioned from a relatively stable autocracy to high levels of democracy, explaining its good score, and Cape Verde is known for its high level of security. In the Stability scenario, group members will improve the 2043 Current Path forecast by 12% above the Current Path forecast. Changes range from an 18% improvement above the Current Path forecast in 2043 in Angola — due to its low base — to 0.11 in Tunisia and Cape Verde — due to their already high governance security level. With its turbulent history, the Republic of the Congo will also see a 14% improvement in its 2043 Current Path forecast of governance security due to the Stability scenario.

![Chart 14: GDP per capita in CP and Stability scenario, 2019–2043](image)

Stability is a general prerequisite for other aspects of development. The Stability scenario increases GDP per capita by US$504 in 2043 compared to the Current Path forecast. The increase ranges from US$927 in Algeria (the largest increase), US$896 in Eswatini and US$883 in Angola, to US$217 in Benin (least improvement).
By 2030, the Stability scenario will reduce the number of extremely poor people in LMI Africa by 17.3 million people in 2043, compared to the Current Path forecast (using US$3.20). The largest gains are made in Nigeria which will see a reduction of 6.1 million extremely poor people (1.5 percentage points) in 2043, while Cape Verde will see the smallest reduction of 361,177 people.

Instead of an extreme poverty rate (using US$3.20) of 38.3% in 2043, the 2043 extreme poverty rate for LMI Africa will be 36.8% in the Stability scenario.
Demographic scenario

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

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.

In 2019, the ratio of working-age persons to dependants in LMI Africa was only 1.3, and in the Current Path forecast, LMI Africa only enters the demographic dividend in 2053, given its population momentum and high fertility rates. This is two years later than the average for Africa. In the Demographic scenario, LMI Africa gets to a ratio of 1.7 working-age persons to every dependant by 2041.

In 2019, four of the 23 LMI Africa members (Cape Verde, Algeria, Djibouti and Morocco) entered a potential demographic dividend.
Compared to the Current Path forecast, Zimbabwe and Kenya will see the largest improvement in the ratio of working-age persons to dependants in the Demographic scenario by 2043.

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.

The average infant mortality rate for the group in 2019 was 46.4 deaths, and is set to decline to 26.7 in 2043, which is below the average for Africa at 25.6. In 2019, infant mortality rates range from 67.5 in Nigeria to 9.6 in Tunisia.

In the Demographic scenario, the average infant mortality rate for LMI Africa declines to 23.9 in 2043, with Nigeria experiencing the largest decrease of 8.5 fewer deaths per 1 000 live births in 2043 compared to the Current Path forecast.
By 2043, the Demographic scenario will increase average GDP per capita by US$252 compared to the Current Path forecast. Egypt and Eswatini will benefit the most from the Demographic scenario by 2043 (at US$558 and US$338, respectively, compared to the Current Path forecast) followed by Algeria, with an improvement of US$329. Coming off a high base, Tunisia and Cape Verde gain the least at US$12 and US$27 by 2043, respectively, compared to the Current Path forecast.
Compared to the Current Path forecast, the Demographic scenario will reduce extreme poverty in LMI Africa by 30.9 million (1.2 percentage points) using US$3.20 in 2043. In 2043, Zimbabwe will see the largest percentage point decrease in extreme poverty rate of 3.2, followed by Tanzania at 2.7 when compared to the Current Path forecast. In Nigeria and Tanzania, the Demographic scenario will reduce the number of extremely poor people by 9.5 million and 5.3 million, respectively, in 2043 compared to the Current Path forecast.
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.

Life expectancy among LMI Africa member states ranged from 77.8 years in Tunisia to 51.9 years in Lesotho in 2019. In 2019, average life expectancy was 67.5 years and in the Current Path forecast it will increase to 73.3 years in 2043. The Health/WaSH scenario results in a marginal life expectancy increase above the Current Path forecast of less than one year. Lesotho, with its low life expectancy of 51.9 years in 2019 as a result of HIV/AIDS, experiences the largest increase of two years and Djibouti the least (0.06 years). Average life expectancy in LMI Africa remains above the average for Africa, with 2 years more in 2043 in the Health/WaSH scenario.
The rate of infant mortality in LMI Africa in 2019 was 46.5 deaths per 1,000 live births and will reduce to 29.7 in the Current Path forecast by 2043. In the Health/WaSH scenario, the average by 2043 is 25.9 — 3.8 deaths fewer compared to the Current Path forecast. These rates remain above the average for Africa to 2043. Nigeria experiences the largest decline in infant mortality in the Health/WaSH scenario of 6.4 fewer deaths per 1,000 live births, followed by Angola at 4.3.
Agriculture scenario

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, the average crop yield in LMI Africa was 5.1 metric tons, which is above the average for Africa of 3.9 tons. In the Current Path forecast, LMI Africa will improve yields to 6.1 metric tons by 2043 and to 8.8 tons in the Agriculture scenario — a difference of almost 45%.

Eswatini has the highest pre-loss crop yields per hectare among the LMI Africa members by a large margin, reflecting its rich soils, higher rainfall average, the intensity of farming and better utilisation of technology. Yields per hectare for Eswatini increase from 43.7 tons in 2019 to 44.6 tons in 2043 in the Current Path forecast and to 50 tons in the Agriculture scenario. Lesotho and Mauritania have the lowest pre-loss crop yields per hectare at 1.6 tons and 1 ton, respectively, in 2019.
Compared to the Current Path forecast, Eswatini will experience the largest improvement (5.5 tons by 2043) in the Agriculture scenario, followed by São Tomé and Príncipe (4 tons), Tanzania (3.8 tons) and Comoros 3.6 tons. Tunisia and Algeria will experience the least improvements of 0.1 tons and 1.2 tons, respectively, in the Agriculture scenario.

In the Current Path forecast, the contribution of agriculture to the GDP of LMI Africa will decline from 17.3% in 2019 to 7.4% in 2043. In the Agriculture scenario, agriculture will still contribute almost 9.6% to GDP by 2043, and LMI Africa group will produce 358.1 million metric tons more crops by 2043, compared to the Current Path forecast.

In the Current Path forecast, the contribution of agriculture to the GDP of LMI Africa will decline from 17.3% in 2019 to 7.4% in 2043. In the Agriculture scenario, agriculture will still contribute almost 9.6% to GDP by 2043, and LMI Africa group will produce 358.1 million metric tons more crops by 2043, compared to the Current Path forecast.

In the Agriculture scenario, import dependence in LMI Africa is set to decrease to 11.2% instead of 38% in the Current Path forecast, resulting in US$261 million fewer imports than in the Current Path in 2043. Agricultural exports will sky rocket in 2043 in the Agriculture scenario to 115.1 million metric tons from 14.3 million metric tons. Compared to the Current Path forecast, Tanzania (at 49 million tons), followed by Ghana (at 15.2 million tons) will see the greatest increments in agricultural exports. The least improvement will come from Cape Verde and Djibouti in 2043.
The average improvement in GDP per capita in the Agriculture scenario is US$440 in 2043, compared to the Current Path forecast for that year. Tanzania will benefit the most: its GDP per capita in 2043 will be US$813 larger than in the Current Path forecast for that year, followed by Mauritania and Morocco, while Egypt and Eswatini will benefit the least.
Agriculture traditionally has a significant effect on extreme poverty. While LMI Africa would still have 448.4 million people living below US$3.20 in the Current Path in 2043, in the Agriculture scenario the number comes down to 390.9 million, mainly from Nigeria and Tanzania. In the Agriculture scenario, the number of extremely poor people in Tanzania and Nigeria will decline by 18.2 million and 15.6 million people, respectively, in 2043 compared to the Current Path forecast for that year.

Whereas, in 2019, 50.1% of people in LMI lived below US$3.20 per day, it will decline to 38.3% by 2043 in the Current Path forecast and 33.5% in the Agriculture scenario. The impact of the Agriculture scenario is such that it reduces the extreme poverty rate by 17.1 and 12.9 percentage points in Tanzania and Côte d’Ivoire compared to the Current Path forecast. Lesotho and Egypt would record the least impact from the Agriculture scenario on extreme poverty.
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.

Education is a key development booster but comes with long lags in impact. In 2019, the adult population of LMI Africa had, on average, 6.7 years of education, set to increase to 8.1 years in 2043. In the Education scenario, the mean years of education of LMI Africa would increase to 8.4 years. While the mean years of male education was 7.5 years in 2019, for females it was 5.8 years, a gap of 1.7 years. In the Education scenario, the gap in mean years of male and female education is forecast to modestly decline to 1.2 years by 2043, as gender inequality improves. Tanzania will experience the largest increase in education years of 0.38 and Côte d’Ivoire of 0.31 years.
In 2019, average test score for primary learners was 28.4, set to increase to 31.8 in 2043. The Education scenario will increase average primary test scores by 20% to 34.1 compared to the Current Path forecast.

Secondary education quality in the Current Path forecast ranges from 37 in 2019 to 39.4 in 2043, which only increases to 42.5 in the Education scenario. The largest increases will be in Zimbabwe and the Republic of the Congo of additional 4.2 and 3.9 in 2043 compared to the Current Path forecast, whereas the lowest increases will result in Djibouti and Tunisia of 2.5 and 2.4, respectively.
The impact of the Education scenario on GDP per capita is an average improvement for LMI Africa of US$310 in the Current Path forecast to US$9,451 in 2043. The impact is the largest in Eswatini of US$614 and Egypt of US$527 compared to the Current Path forecast for that year. The impact is lowest in Zimbabwe — only US$12 above the Current Path forecast in 2043.
The Education scenario will lift 23.4 million more people out of extreme poverty in 2043 compared to the Current Path forecast, with most in Nigeria (8 million) and Tanzania (4.1 million). Due to starting from a high low base, the impact of education on extreme poverty is lowest in São Tomé and Príncipe and Cape Verde.

In the Education scenario, extreme poverty would be 1.9 percentage points lower by 2043 compared to the Current Path forecast for that year. Viewed as a percentage point reduction in rates of extreme poverty from the Current Path forecast, Tanzania and Senegal will experience the largest decline of 3.7 and 3.3 percentage points, respectively, whereas Tunisia and Morocco will see the least decline in extreme poverty due to the Education scenario in 2043.
**Manufacturing scenario**

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.

Because of its forward and backward linkages to other sectors, the manufacturing sector is unique in its contribution to productivity improvements in most economies. In 2019, the service sector represented 48.8% of GDP in LMI Africa, agriculture 17.3%, manufacturing 18.9%, energy 7.3%, ICT 5.6% and materials 2.1%. By 2043, the percentage contributions to GDP in the Current Path forecast are agriculture 7.4%, manufacturing 22.8%, energy 4.9%, ICT 6.7% and materials 2.9%.

The increased contribution from manufacturing peaks by 0.67 percentage points above the Current Path forecast by 2037 before modestly declining to 0.43 in 2043. Increases in the contribution of services peak in 2034 (0.47 percentage points),
decline to 0.35 in 2038, before finally rising to 0.46 percentage points in 2043. The relative contribution of the energy and agriculture sectors generally decline, while the ICT and materials sectors largely remain stable. The dynamics differ across countries. In Nigeria, the manufacturing sector’s relative contribution increases consistently across the 2043 forecast horizon, while the contribution from the service sector follows a declining trend starting in 2033, when its contribution falls by 0.9, till 2043. In Tunisia, the contribution of manufacturing increases, agriculture declines, while all other sectors remain modestly stable in the Manufacturing/Transfers scenario compared to the Current Path forecast.

All sectors increase in absolute size in the Manufacturing/Transfers scenario compared to the Current Path forecast. The service sector is, by 2043, US$354.3 billion larger than the Current Path forecast for that year, followed by the manufacturing sector which is US$164.6 billion larger; ICT is US$42.1 billion larger. The increases in size for the agriculture, material and energy sectors are marginal. Though the magnitude of increases in the sectors differ across countries, the general trend is for a larger contribution from the service sector, followed by manufacturing and ICT for all major economies in LMI Africa.

The efforts to use welfare transfers to unskilled workers offset the increase in poverty/inequality that is often associated with investments in manufacturing. Whereas LMI Africa countries transferred US$195.3 billion in welfare transfers in 2019, the 2043 amount in the Manufacturing/Transfers scenario, at US$737.6 billion, is US$175 billion more than in the Current Path forecast. Without these transfers, extreme poverty would be significantly higher. Because of the size of their economies, Egypt, Algeria and Nigeria have the largest transfers in the Manufacturing/Transfers scenario compared to the Current Path forecast. Egypt will add US$44.3 billion more to transfers, while both Algeria and Nigeria will add US$27 billion.
Instead of a GDP per capita of US$9142 in 2043, LMI Africa could have a GDP per capita of US$9778.4 in the Manufacturing/Transfers scenario. In dollar values, the scenario has the most positive impact on Egypt where GDP per capita in 2043 is US$1194 higher than the Current Path forecast for that year, followed by Eswatini (US$860) and Tunisia (US$814). Mauritania (US$106), Lesotho (US$228) and Zambia (US$249) benefit the least.
In the Manufacturing/Transfers scenario, LMI Africa would have 414.1 million extremely poor people in 2043 (using US$3.20) instead of 448.4 million, a difference of 34.3 million people. Given its large population, most of that decline (11.5 million people in 2043) is in Nigeria, followed by Egypt (5 million fewer in 2043).

In the Manufacturing/Transfers scenario, LMI Africa would have 35.4% extremely poor people (using US$3.20) in 2043 instead of 38.3% in the Current Path forecast. Much of the decline is due from Djibouti (4.8 percentage point decline) and Senegal (4.4 percentage points).
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.).

In 2019, fixed broadband access per 100 people in LMI Africa was at 3.7, and is set to increase to 26.5 in the Current Path by 2043. In the Leapfrogging scenario, that rate almost doubles to 47.5 with large country to country variations.

Ten out of the 23 LMI African states will add more than 20 subscriptions per 100 people in the 2043 Leapfrogging scenario compared to the Current Path forecast, with the most rapid growth in Angola (25.9) and Senegal (25.6). The least growth will occur in Djibouti (9.1) and the Republic of the Congo.
Mobile broadband refers to wireless Internet access delivered through cellular towers to computers and other digital devices.

Even more rapid than increased subscriptions to fixed broadband is the improved access to mobile broadband, which may be reaching saturation levels. In 2019, 49 out of every 100 persons in LMI Africa were connected to mobile broadband. The ratio rises faster in the Leapfrogging scenario than in the Current Path forecast. In the Current Path forecast, LMI Africa will reach saturation in 2045 (150 subscriptions per 100 people).

The Leapfrogging scenario accelerates the already aggressive forecasts on mobile broadband access within IFs, though the growth registered in Leapfrogging scenario for mobile broadband is mild compared to fixed broad subscriptions. In 2043, the greatest growth will occur in Eswatini of additional 4.8 subscriptions compared to the Current Path forecast, followed by Côte d’Ivoire at 1.9. Due to its very high number of subscriptions in the Current Path, the least growth will occur in Ghana of 0.032 subscriptions per 100.
The SDG target for 2030 (Indicator 7.1.1) is 98% electricity access. Only the North African nations of Algeria, Tunisia, Morocco and Egypt will reach this target by 2030, with the rest of LMI Africa trailing behind. In 2019, the LMI Africa average was 66.3%, forecast to increase to 71% in 2030 and 81.7% by 2043 in the Current Path forecast. In the Leapfrogging scenario, the average for LMI improves to 75.8% in 2030 and 90.2% by 2043. Zimbabwe has the largest improvement at 17.4 percentage points above the Current Path forecast by 2043, followed by Tanzania (13.4) and Lesotho (13.1). Due to their already high electricity access rates, the four North African countries in LMI Africa (Algeria, Tunisia, Morocco and Egypt) yield the least Leapfrogging scenario impact in 2043.

The average urban electrification rate in LMI Africa was 82.7% in 2019 and is forecast to improve to 84.7% in 2030 and 90% in the Current Path forecast. In the Leapfrogging scenario, urban electricity access improves to 94.3% in 2043. Zambia is forecast to improve most at 9.7 percentage points in 2043, followed by Nigeria at 6.5. Six LMI countries will not see any improvement in urban electrification because of reaching 100% electricity access, mainly the North African group member states.

The rural–urban gap in electricity access is high in LMI Africa at more than 30 percentage points in 2019. Electricity access in rural LMI Africa is set to increase from 50.7% in 2019 to 69.3% in 2043 (in the Current Path forecast) and 83.7% in the Leapfrogging scenario. The impact of the Leapfrogging scenario on rural electrification is highest in Zimbabwe at 23.4 percentage points above the Current Path forecast, followed by São Tomé and Príncipe at 21.5 percentage points. Overall, six of the LMI countries will see a more than 20 percentage point improvement in rural electricity access due to the Leapfrogging scenario in 2043.
In 2019, GDP per capita was at US$6,989 and is forecast to increase to US$9,142 by 2043 in the Current Path. In the Leapfrogging scenario, GDP per capita will increase by US$ to US$9,619 in 2043. Compared to the Current Path forecast, the largest increase is forecast for Eswatini at US$811, followed by Egypt (US$711), Nigeria (US$603) and the Republic of the Congo (US$521). The countries with the least improvement are Kenya, Cameroon and Lesotho (at US$232).
In the Leapfrogging scenario, Tanzania will experience the largest decline in the number of extremely poor people (using US$3.20) among the LMI countries by 2043, compared to the Current Path forecast. It will reduce extreme poverty by 4 percentage points, compared to the Current Path forecast. This reduces to 3.3 for Senegal. Algeria, Tunisia and Morocco will register the least poverty impacts of the Leapfrogging scenario since all have already achieved the SDG target.

In 2019, 349.3 million people in LMI Africa lived in extreme poverty, set to increase to 448.4 million in 2043 in the Current Path forecast even as the poverty rate declines from 50.1% in 2019 to 38.3% in 2043. Instead of 233.4 million extremely poor people in 2043, Nigeria will have 221.6 million, a difference of 11.8 million people; in 2030, the difference will be 1.6 million people. Using US$3.20, Tanzania, the country that will experience the second highest impact, will reduce poverty by 4.3 million people in 2043, compared to the Current Path forecast for that year. Whereas LMI Africa was forecast to have 448.4 million extremely poor people in 2043, that number would only be 420.4 million in the Leapfrogging scenario.
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, LMI Africa had a negative trade balance of 6.6% of GDP, expected to marginally improve to 3.2% in 2043. The impact of the Free Trade scenario is to reduce this negative trade balance down to 3% in 2043. By 2043, the group would be exporting the value of US$2 109 billion in Free Trade scenario instead of US$1 235 billion in the Current Path forecast and importing US$2 288 billion instead of US$1 418 billion. LMI Africa will see its imports share of GDP decrease in the Current Path forecast, while in the Free Trade scenario, it will start to increase from 2028 after its initial decline. In 2043, the import share of GDP will be 35% in the Free Trade scenario.

Compared to the Current Path forecast, the Free Trade scenario will increase imports per cent of GDP by 24 percentage points in Djibouti in 2043, 23 in Cape Verde, 21 in Eswatini and 20.9 in Tunisia. At the same time, the Free Trade scenario
will boost exports per cent of GDP by an additional 23 percentage points in Djibouti compared to the Current Path forecast in 2043, and in Côte d’Ivoire by just 8.1 percentage points.

The GDP per capita for LMI Africa was US$6,989 in 2019 and is set to increase to US$9,142 in the Current Path forecast. In the Free Trade scenario, this will increase to US$10,050 in 2043, a difference of US$908. The countries that do best are Cape Verde, Eswatini and Egypt. The countries that gain the least from the Free Trade scenario are Zimbabwe, Benin and Lesotho.
In the Current Path forecast, rates of extreme poverty (using US$3.20) in LMI Africa are set to decline from 50.1% in 2019 to 47% in 2030 and to 38.3% in 2043. In the Free Trade scenario, rates of extreme poverty decline to 34.2% in 2043, 4.2 percentage points below the Current Path forecast. Tanzania will see the largest decline of 8.8 percentage points (compared to the Current Path), followed by Eswatini with a decline of 8.7 percentage points by 2043.

In 2019, 349.3 million people were considered to live on less than US$3.20 per person per day in LMI Africa. In the Current Path forecast it will increase to 448.4 million in 2043. In the Free Trade scenario, extreme poverty numbers will decline to 399.4 million in 2043. This means that the impact of the Free Trade scenario is to lift an additional 48.9 million people out of extreme poverty. Nigeria, with its large poor population, will see the greatest improvement at a reduction of 15.2 million fewer extremely poor people, followed by Tanzania at 9.4 million people.
Financial Flows scenario

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.

Historically, more aid goes to low-income and fragile states than to middle-income countries. In 2019, the LMI group received US$32.8 billion net aid that would increase to US$30.6 in 2043 in the Current Path forecast. However, as a per cent of GDP, aid continually reduces from 1.7% of GDP in 2019 to 1.3% in 2030 and 0.5% in 2043. This is because the increase in aid does not keep pace with economic growth within the group.

The impact of the Financial Flows scenario on LMI Africa is marginal, reducing aid as a percentage of GDP by 0.04 percentage points compared to the Current Path forecast in 2043, a difference equivalent to US$1.5 billion in that year.

Aid as a percentage of GDP is highest in small LMI African countries of São Tomé and Príncipe (at 14.6% of GDP), Cape Verde, Comoros and Djibouti. Larger economies get much less aid, for example, in Nigeria where aid is just 1.4% of GDP in 2019, although its income from oil also plays a role in low levels of aid.
As a result, in the Financial Flows scenario, the reduction in aid as a per cent of GDP is slower than in the Current Path. By 2030, aid constitutes 1.3% of GDP and is at 0.5% of GDP in 2043. In 2030, LMI Africa will receive US$296 million more aid in the Financial Flows scenario than in the Current Path forecast and US$1.4 billion less in 2043.

Whereas the percentage of aid flows decreases for LMI African countries, in the non-resource rich sub-Saharan member countries the absolute dollar values increase both in the Current Path forecast and the Financial Flows scenario by 2043.

FDI typically goes to middle- and high-income countries rather than low-income countries. In 2019, São Tomé and Príncipe, Mauritania, and Djibouti receive the largest FDI inflows of >9% of GDP. Algeria and Comoros received the least. The impact of the Financial Flows scenario will be greatest in São Tomé and Principe where it will boost FDI by additional 1.3 percentage points compared to the Current Path, followed by Djibouti (1.1) and the Republic of the Congo (1.0). Within the LMI Africa group, FDI inflows will increase to 3.5% in 2043 from 2.6% in 2019 in the Current Path forecast. The Financial Flows scenario will increase FDI inflows to 4% in 2043.
LMI Africa is a net receiver of remittances at US$50 billion in 2019, set to more than double to US$114.4 billion in 2043, and in the Financial Flows scenario this will further rise to US$131.9 billion in 2043. In 2019, 18 out of the 23 LMI countries were net receivers of remittance with Nigeria topping the list at US$22.4 billion, followed by Egypt at just half of Nigeria (US$11.4 billion). A number of countries experienced net outflows in 2019, namely the Republic of the Congo, Zambia, Mauritania, Côte Ivoire and Angola.

By 2043, Nigeria will benefit most from the Financial Flows scenario by boosting remittances receipt by an additional US$9.6 billion, followed by Egypt at US$2.7 billion.
In 2019, the GDP per capita in LMI Africa was US$6,989. In the Current Path forecast, GDP per capita will come to US$9,142 in 2043. Instead, in the Financial Flows scenario, it comes to US$9,321, a difference of US$178. Compared to the Current Path forecast, Eswatini receives the largest increase at US$385 in 2043, followed by Egypt and Tunisia. Mauritania, Comoros and Algeria achieve the smallest improvement at below US$50 per person.
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 difference between the Current Path forecast and the Financial Flows scenario is equivalent to 1.5 million fewer extremely poor people in 2030 (using US$3.20) and 12.6 million fewer in 2043. The largest decline is in Nigeria (5.2 million people) and Tanzania (1.6 million).

The extreme poverty rate in 2019 (at US$1.90) was 26.9%, which is likely to decline to 23.9% in 2030 and 18% in 2043. In the Financial Flows scenario, the rate of extreme poverty declines to 17.3% in 2043.
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, electricity access in LMI Africa was 66.3%; in 2030 it will increase to 71.5%, and in the 2043 Current Path forecast it reaches 81.7%. Because of its high income level, average LMI Africa will in the Infrastructure scenario enjoy 1.3 percentage points more electricity access in 2030 compared to the Current Path forecast, which increases to 3 percentage points in 2043. The Infrastructure scenario has the effect of boosting electricity access across member countries by an average of 3 percentage points in 2043 compared to the Current Path forecast. This amounts to 34 million more people with access to electricity, of which 24.6 million will live in urban areas. Zambia and Zimbabwe will see the greatest boost in access to
electricity due to the Infrastructure scenario of 10.9 and 10.7 percentage points in 2043. At the same time, Tunisia and Morocco will see the least improvements.

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.

In 2019, 61.4% of the population in rural areas in LMI Africa were within 2 km of an all-weather road. The Current Path forecast is that this will improve to 63.6% by 2030 and 67.8% by 2043. The LMI African countries with the best access are Algeria (86%) and Egypt (83%). The worst performing countries are Senegal (32.9%) and Cameroon (25.2%). In the Infrastructure scenario average access improves to 68.7% in 2043. The Republic of the Congo gains most from the Infrastructure scenario, improving access by 6.4 percentage points above the Current Path forecast by 2043, followed by Comoros. In the two East African neighbouring countries of Tanzania and Kenya, and in Ghana, Infrastructure scenario has the least impact on rural access to all-weather roads of less than 0.6 percentage points.
The GDP per capita for LMI Africa was US$6,989 in 2019 and set to increase to US$9,142 in the Current Path forecast, compared to US$9,338 in the Infrastructure scenario by 2043. Eswatini gains the most in GDP per capita that increases US$605 above the Current Path forecast by 2043, followed by Angola (US$528). Ghana, which benefits the least, will only add US$75 per person by 2043 from the Infrastructure scenario.
The Current Path forecast is that extreme poverty in LMI Africa (using US$3.20) will increase from 349.3 million people (50.1% of the population) in 2019 to 423.5 million in 2030 and 448.4 million in 2043, representing 47% and 38.3% of the population, respectively. The number of extremely poor people in the Infrastructure scenario in 2030 is 423.5 million and 436.9 million in 2043. These numbers represent 46.9% and 37.4% of the total population. The decline in poverty is most significant in the Côte d’Ivoire and Zambia with 3.7 and 3.2 percentage points less poverty rates in 2043 compared to the Current Path forecast.
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.

The Governance scenario improves government effectiveness by 4.7% in 2043 above the Current Path forecast. The Republic of the Congo improves the most, 13%, and Cape Verde the least (less than 1% improvement). Chart 51 shows the government effectiveness in the Current Path forecast and the Governance scenario for the LMI Africa countries.
In 2019, GDP per capita in LMI Africa was US$6,989 and is set to improve to US$9,142 in 2043. In the Governance scenario, GDP per capita increases to US$9,391. Egypt will gain the most in the Governance scenario compared to the Current Path forecast at US$494. Zimbabwe will gain the least at a meagre US$86 above the Current Path forecast in 2043.
The rate of extreme poverty (using US$3.20) was 50.1% in LMI Africa in 2019, equivalent to 349.3 million people. In the Governance scenario, extreme poverty will decline to 37.2% (435.5 million people) by 2043, compared to 38.3% (448.4 million people) in the Current Path forecast. Extreme poverty in Senegal and Djibouti will decline most by 1.7 and 1.8 percentage points, respectively, in 2043 compared to the Current Path forecast. In Cape Verde and Morocco, extreme poverty at US$3.20 will decline the least as a result of the Governance scenario.
Impact of scenarios on carbon emissions

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

In 2019, the LMI Africa group released only 229 million tons of carbon of which 69% was released by only three countries (Egypt, Algeria and Nigeria). In the Current Path forecast, LMI Africa will release 629 million tons of carbon in 2043, as a result of greater economic activity and its larger population.

The Free Trade scenario is the most carbon-intensive scenario (678 million tons in 2043), followed by Manufacturing/Transfers scenario (661 million tons) and the Agriculture scenario (651 million tons), while in the Demographic scenario, carbon emissions in 2043 will be 11 million tons below the Current Path forecast.
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