Senegal

Senegal: Scenarios

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Senegal: Scenarios

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Relationship between scenarios

Chart 9: Current Path and scenarios

Chart 9 depicts the relationship between the Current Path forecast, the various sectoral scenarios and the Combined Agenda 2063 scenario.

The Current Path forecast is a dynamic scenario in the International Futures forecasting platform that imitates continuing current policies and environmental conditions.

The eight sectoral scenarios are each explained in the various themes on the website and the impact on each is compared.
with the Current Path forecast and a Combined Agenda 2063 scenario. The eight scenarios are:

• A more rapid **demographic** transition and investments in better **health** and water, sanitation and hygiene (WaSH) infrastructure

• Better and more **education** (looking at quantity, quality and relevance)

• Large **infrastructure** and **leapfrogging** (the impact of renewables, ICT and the more rapid formalisation of the informal sector)

• Food security and an **agricultural** revolution

• A low-end **manufacturing** transition

• The full implementation of the **African Continental Free Trade Area (AfCFTA)**

• More inward **financial flows** (consisting of aid, foreign direct investment, remittances and illicit financial flows) and

• Better **governance** (consisting of stability, capacity and inclusion).

The **Combined Agenda 2063** scenario is a combination of all eight sectoral scenarios.

The impact of these scenarios on **jobs/employment** and **greenhouse gas emissions and energy** are presented in separate themes.

A final theme models the effect of alternative **global scenarios** on Africa's development potential.

The interventions within IFs are detailed in an annexure at the end of this page.
Demographics and Health scenario

Chart 10: Demographics and Health scenario

Chart 10 presents the structure of the Demographics and Health scenario as modelled in IFs that advances the demographic dividend and improves health.

The Demographic and Health scenario consists of reasonable but ambitious reductions in child and maternal mortality ratio, increased access to modern contraception and reductions in the mortality rates associated with both communicable diseases (e.g. AIDS, diarrhoea, malaria and respiratory infections) and non-communicable diseases (e.g. diabetes), as well as improvements in access to safe water and better sanitation.

Visit the themes on Demographics and Health/WaSH for more detail on the scenario structure and interventions.

Over the past ten years, Senegal has achieved significant success in improving health outcomes in the country. The government has implemented various initiatives to improve maternal and child health, such as the National Health Development Plan, which focuses on reducing maternal and child mortality. Strategies include increasing access to skilled birth attendants, promoting antenatal care and providing postnatal support. To successfully address health challenges issues, the Senegalese government has bolstered the primary healthcare system. This includes extending the availability of high-quality care services, enhancing facilities and machinery, and developing healthcare personnel.

Together with global organisations, the government has worked to enhance health surveillance and create efficient reaction plans. In addition, the government has put in place initiatives that emphasise non-communicable disease prevention, health promotion and early detection. These initiatives include fostering a healthy lifestyle, educating people about the risk factors for non-communicable diseases and expanding the availability of screening and treatment options.
Despite these efforts by the government, the health sector is confronted with several challenges. These challenges include poor access to high-quality healthcare, and shortage of trained birth attendants. There are frequent geographic and socio-economic disparities in the availability of healthcare services in the country.

IFs uses the International Classification of Disease (ICD) to differentiate between three broad categories: communicable diseases, non-communicable diseases and injuries, as well as 15 subcategories of mortality and morbidity. In 1990, communicable diseases caused about 57,000 deaths, constituting about 65% of total deaths in that year. This was followed by non-communicable diseases that caused 26,000 deaths (29.5% of total deaths) and injuries that caused 5,000 deaths (5.6% of total deaths). Senegal achieved its epidemiological transition in 2014 (a point where deaths from non-communicable diseases outweigh deaths from communicable diseases). By 2019, deaths from non-communicable disease had risen to constitute almost half of all deaths (48,000). Deaths from communicable diseases had steadily declined to 41,000, representing 42% of all deaths.

Infectious illness outbreaks such as Ebola, HIV/AIDS, TB and malaria are some causes of mortality in Senegal. Malaria alone caused about 30,000 deaths in 2019. Deaths from injuries also rose to 8,000 (equivalent to 7.5% of all deaths). These illnesses place a heavy burden on the healthcare system and present serious health hazards. Additionally, the incidence of non-communicable diseases, such as cancer, diabetes and cardiovascular disease, is rising in Senegal. The prevalence of non-communicable diseases are attributable to factors such as urbanisation, sedentary behaviour and unhealthy diets.

Maternal and infant mortality also remains high in Senegal. According to IFs, there are an estimated 292 maternal fatalities for every 100,000 live births, compared to 32 infant deaths for every 1,000 live births.

On the Current Path, by 2043, non-communicable diseases will continue to be the highest cause of death in Senegal causing 88,000 deaths, representing about 72.4% of all deaths in the country. The transition to deaths from non-communicable diseases as the main cause of mortality will inevitably increase health sector costs as they are more expensive to treat. By then, deaths from communicable diseases will rapidly decline to 18,000, constituting 14.7% of all deaths, while deaths from injuries will rise to 16,000, constituting the remaining 12.9%.

Access to improved, safe, treated water, such as piped water, is an important means of preventing the spread of communicable diseases. The country has carried out initiatives to provide access to hygienic facilities and clean water, notably in metropolitan areas. The expansion of water supply networks by the National Water Company and the implementation of sanitation programmes to enhance hygiene and waste management. In 2019, 13.8 million people in Senegal (constituting 86.3% of the population) had access to improved water supply. This represents a significant improvement from the 64.8% in 2000. Out of this, 11.9 million people (representing about 74.1% of the population) had access to piped water supply in the country, far above the average of lower-middle-income countries in Africa. The country will make significant advancement towards the attainment of SDG goal 6.1 of universal access to safe drinking water on the Current Path. At the end of the SDG implementation, 91.3% of people in Senegal will have access to improved water. By 2043, it is projected that access to improved water will increase to about 97.6% of which piped water will constitute almost 88% connections.

Regarding sanitation, about 56% of the population (8.9 million people) had access to improved sanitation in 2019—slightly above the average of 53.2% for its income-group peers in Africa. The share of the population with access to shared sanitation at 17% is on par with Africa's lower-middle-income group average. On the Current Path, the proportion of the population with improved access to sanitation is estimated to rise to 85.7% by 2043, above the average of 66.5% for lower-middle-income countries in Africa. By this time, the share of the population with access to shared sanitation will decline to 7% below the average for its income-group peers.
Chart 11 compares urban and rural populations in the Current Path and the Demographics and Health scenario.

Senegal is at the cusp of transitioning from a rural to a mostly urban population. In 1990, 77% of Senegalese people lived in rural areas, above the average of 64.2% for lower-middle-income countries in Africa. However, over the years, urbanisation in Senegal has been quite rapid. As a result, by 2019, 8.2 million Senegalese people, equivalent to 52.3% of the population, lived in rural areas—slightly above the 50.4% average for lower-middle-income countries in Africa. Consequently, the urban population stood at 47.6% in 2019, making Senegal the 10th least urbanised country among the lower-middle-income African countries instead of the 11th in 1990.

Urbanisation is concentrated in the coastal zone, especially around Dakar. The Dakar metropolitan area, which serves as the economic and administrative capital, has an urbanisation rate of 98%, leading to almost four million inhabitants. This is mainly due to the over concentration of economic activities in the region as it attracts most investment. Economic activity in the region alone accounts for 55% of GDP and 87% of national tax revenue. Additionally, 80% of all modern businesses and jobs are concentrated in the region. Almost a third (62%) of new businesses opening are in the capital city. The high urbanisation rate in these areas has led to a rise in insecurity and environmental risks such as pollution, flooding and erosion in the cities. There are also large areas of informal settlements estimated to house about 1.8 million people in the outskirts of Dakar and slums in the cities, particularly in areas such as Pikine, Guédiawaye and Rufisque.

On the Current Path, Senegal will achieve parity in urban–rural settlement by 2025 and by 2043, 16.3 million Senegalese people, constituting almost 57.6% of the population, will live in urban areas. This will be lower than the average of 59.4% projected for lower-middle-income countries in Africa. In the Demographics and Health scenario, the proportion of Senegalese people projected to reside in urban areas will slightly increase to 58.6% by 2043.
Chart 12 presents the infant mortality rate in the Current Path and the Demographics and Health scenario.

The infant mortality rate is the probability of a child born in a specific year dying before reaching the age of one. It measures the child-born survival rate and reflects the social, economic and environmental conditions in which children live, including their healthcare. It is measured as 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 infant mortality rate is an important marker of the overall quality of a country’s health system. In 2019, the infant mortality rate in Senegal was 31.5 deaths per 1,000 live births—a drop of more than half of the 72 deaths per 1,000 live births in 1990. This was 13 deaths fewer than the average of 43.7 deaths for lower-middle-income countries in Africa. On the Current Path, the infant mortality rate is expected to decline further, reaching 11 deaths per 1,000 live births by 2043, which is 2.8 times less than the average for lower-middle-income countries in Africa.

The Demographics and Health scenario will reduce infant mortality rate in Senegal further to 7.8 deaths per 1,000 births by 2043. This is 3.2 deaths fewer than in the Current Path forecast and almost a quarter of the Current Path average of lower-middle-income countries in Africa. In this scenario, Senegal will achieve the SDG target of 12 deaths per 1,000 live births by 2033 instead of by 2040 as in the Current Path forecast.
Chart 13 presents the demographic dividend in the Current Path and in the Demographics and Health scenario.

The dividend is the window of economic growth opportunity that opens when the ratio of working-age persons to dependants increases to 1.7-to-1 and higher.

Demographers typically differentiate between a first, second and even a third demographic dividend. The study focuses on the first dividend. There are different ways to conceptualise the first demographic dividend. For example, studies have shown that a promising demographic window occurs when less than 30% of the population falls within the ages 0–14 years (children), while those above the age of 65 years and above (elderly) make up less than 15%. Alternatively, a demographic dividend opens when a country attains an average median age of between 26 and 41 years. The study uses the ratio of working-age persons to dependants, i.e. the size of the labour force (between 15 and 64 years of age) relative to dependants (children and elderly people).

The demographic dividend is the economic growth generated by change in the population structure. It generally materialises when the ratio of the working-age population to dependants is at least 1.7-to-1, meaning that there are 1.7 workers for every one dependant. When there are fewer dependants to take care of, it frees up resources for investment in both physical and human capital formation. Studies have shown that about one-third of economic growth during the East Asia economic ‘miracle’ can be attributed to the large worker bulge and a relatively small number of dependants. However, the growth in the working-age population relative to dependants does not automatically translate into rapid economic growth unless the labour force acquires the needed skills and is absorbed by the labour market. Without sufficient education and employment generation to successfully harness their productive power, the growing labour force (especially those in urban areas) could increasingly become frustrated with the lack of job opportunities leading to social tension and even the emergence of civil instability.

In 2019, the ratio of the working-age population to dependants in Senegal was 1.2-to-1 which means that on average, there were only 1.2 persons of working age (15–64 years of age) for every dependant in Senegal. Although this represents an improvement from the ratio of 1-to-0 in 1990, it is lower than the 1.3-to-1 average for lower-middle-income countries in Africa. On the Current Path, Senegal will achieve the minimum ratio of 1.7 working-age persons for each dependant required for the materialisation of the demographic dividend or demographic gift by 2043.
The Demographics and Health scenario pushes the country above this target such that by 2043, the ratio of the working-age population to dependants is projected to be 1.9-to-1 in the scenario instead of the 1.7-to-1 as in the Current Path and above the average of 1.6-to-1 for the country's income-group peers in Africa by 2043. Indeed, in this scenario, the minimum ratio of 1.7-to-1 working-age persons for each dependant is achieved as early as 2038.

Increasing the size of the working-age population in Senegal can be a catalyst for growth if they are educated and employment opportunities are generated to successfully harness their productive power. Otherwise, it could turn into a demographic ‘bomb’, as many people of working age may remain unemployed and in poverty, potentially creating frustration, social tension and conflict.
Chart 14 sets out the composition of the Agriculture scenario to advance food security.

The Agriculture scenario represents reasonable but ambitious increases in yields per hectare (reflecting better management and seed and fertiliser technology), increased land equipped and under irrigation and reductions in food loss and waste. We use increased calorie consumption as a proxy for food self-sufficiency above food exports as a desirable policy objective.

The increase in forest protection reflects sustainable land use practices.

Visit the theme on Agriculture for our conceptualisation and details on the scenario structure and interventions.

The agricultural sector is one of the main pillars of the Senegalese economy. More than half of the total labour force in Senegal is employed in the agricultural sector, and about 80% of people in rural areas work in this sector. According to Senegal’s economic growth strategy, agriculture is one of the main factors to reducing poverty and boosting food security in the nation.[2] Rice, peanuts, cotton, fruits, vegetables, sugar cane and gum arabic are some of the agricultural goods grown in Senegal. The country exports cotton, which is a significant agricultural product.
In 1990, Senegal's average crop yield of 1 metric ton per hectare was 2.4 times lower than the average of 2.4 tons for its income-group peers in Africa. By 2019, the average crop yield per hectare of 3.4 metric tons in Senegal was 52.9% below the average for lower-middle-income countries in Africa. This ranks Senegal 10th lowest among lower-middle-income countries in Africa. On the Current Path, yield per hectare will slightly increase to 3.5 metric tons per hectare by 2043, which is far below the average of 6.4 for its income-group peers in Africa.

Total agriculture production[^4] in 1990 stood at about 3.4 million metric tons. Of this, 2.8 million metric tons, representing 82.4%, were crops, with the remainder constituting meat production. By 2019, total agricultural production had grown to 8.8 million metric tons. Of this, crop production constituted 86.7%, equivalent to 7.6 million metric tons, meat production 7.2% and fish production constituted the remainder of the total production. Senegal faces huge agriculture loss and waste estimated at 24% of total production. This is largely due to post-harvest losses of crops estimated at 10% of production and transmission losses of crops estimated at 9.7%. Such losses can be a result of pest and disease infections, spoilage and a lack of adequate and effective storage facilities as well as transportation difficulties.

In terms of demand, the total demand for agricultural products in Senegal, like many African countries, has always been more than the total production. Total demand stood at about 4.2 million metric tons in 1990, of which 3.5 million metric tons, equivalent to 84% of total demand, were for crops. The remaining demand was for meat (425 000 tons) and fish (209 000 tons). Comparing this to the total production (about 3.4 million metric tons) in the same year reveals that Senegal had unmet demand for agricultural products in that year of about 800 000 metric tons. Since then, domestic demand has rapidly outgrown production, and by 2019, agricultural demand exceeded domestic production by almost 3 million metric tons, despite the increase in production. An overwhelming 91.5% of total demand (11.8 million tons) is for crops (10.8 million tons). This is followed by demand for meat (672 000 tons), and the lowest demand is for fish (335 000 tons).

The agricultural sector in Senegal faces numerous challenges that hinder productivity and growth. Senegal is located in the drought-prone Sahel region with erratic rainfall and generally subpar soils. About 90% of agricultural land in Senegal is worked by small-scale, family-based farms engaged in subsistence agriculture and farming systems are mostly rainfed. The majority of producers are smallholder farmers who have limited access to high-quality seeds, fertiliser, machinery, market access, climatic information and financial services, all of which limit their capacity to raise yields and profitability. Limited private sector investment in agricultural and post-harvest operations has also resulted in a shortage of rural infrastructure, including irrigation, post-harvest storage and warehouses, transformation equipment and subpar road conditions.

According to estimates, inadequate infrastructure results in a loss of 20–50% of the production of fruits and vegetables. Constraints to market access include physical infrastructure, as most markets are found along the main, paved roads in the country, limiting access to farmers who live in remote and more isolated areas. Smallholder farmers cannot process, store or distribute products; and processors in Dakar have limited information on the types of crops and quality of production. Beyond these, environmental factors, such as land degradation, affect 34% of the total area, and acidification affects 50% of farmlands in the inner Casamance region, the River Valley, the Sine-Saloum and the Niayes areas. Salinisation affects 9% of degraded lands, mostly in the River Valley.

However, there are efforts to improve agricultural productivity in the country. New initiatives like the Programme d’Accélération de la Cadence de l’Agriculture Sénégalaise (PRACAS) are working in a challenging global context to reach the objective set up by the government to improve the lives and livelihoods of the rural population. In the Senegal River Valley, The Syngenta Foundation for Sustainable Agriculture (SFSA) has been engaged since 2014. The main emphasis of the activity is rice production. The Farmers’ Hub model and the Research Center for Environmental Modeling and Application (CEMA) model contribute to expanding employment options for young people in rural areas. Three Farmers’ Hubs (FHs) were also piloted by SFSA in Senegal in 2017. For agricultural inputs and outputs like tomatoes, onions and chilli seedlings, the FHs offer concentrated commercial units that allow farmers to aggregate products and gain from fairer prices.

On the Current Path, despite the projected increase in domestic production reaching 14.3 million metric tons in 2043, it
will not be enough to meet the domestic demand that will rapidly grow to 25.3 million metric tons. As a result, excess demand for agricultural products will reach 10.8 million by 2043. This suggests that Senegal faces the risk of food shortages in the future if drastic measures are not taken to revamp the agricultural sector to increase domestic production. With total agricultural demand outgrowing domestic production, Senegal is likely to depend on imports to meet its domestic consumption. In 2019, Senegal’s net import for crops stood at a whopping 20.7% of total crop demand, which was above the average of 11% for lower-middle-income countries in Africa. Also, net import for meat stood at 3.5% of total fish demand although net exports for meat were estimated at just 73% of total meat demand. In the Current Path forecast, net crop imports will grow rapidly in Senegal to 47.3% of total crop demand by 2043. This suggests a growing level of national food insecurity, which can also result from changes in dietary preferences.

Chart 15 presents import dependence in the Current Path forecast and the Agriculture scenario.

Despite Senegal’s topographical challenges, in the Agriculture scenario, yield per hectare is projected to increase to 5.4 metric tons by 2043—a 54% improvement, compared to the projections of the Current Path, although it will still be less than the average of 6.4 metric tons per hectare for lower-middle-income countries in Africa. The improvements in yields are expected to lead to an improvement in total agricultural production. By 2043, in the Agriculture scenario, total agricultural production will increase to 17 million tons—almost 2.7 million metric tons or 19% more than the Current Path forecast by 2043. Annual crop production in Senegal will rise by 24% over the Current Path to 14.5 million tons in the Agriculture scenario by 2043.

The projected increases in crop production in the Agriculture scenario reduce the import dependency for crops in the country compared to the Current Path. By 2043, net imports of crops are projected to reach 36.4% in the Agriculture scenario—ten percentage points lower than the Current Path average but slightly above the projection for the average of 34.7% for Senegal’s income-group peers in Africa.
Chart 16 presents the structure of the Education scenario as modelled in IFs. The scenario improves the quantity and quality of education and its relevance to job requirements.

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

Visit the theme on Education for our conceptualisation and details on the scenario structure and interventions.

The Senegalese educational system is based on the French system. The state is responsible for creating an educational system that gives each citizen access to education. Education in Senegal is free and compulsory until the age of 16. Articles 21 and 22 of the Constitution, ratified in January 2001, guarantee all children access to education. The primary school phase is six years, and the lower and upper secondary levels each last four years.
Senegal, like most African countries, spends a significant proportion of its budget on education. In 2019, the country spent US$1.2 billion, equivalent to 4.2% of GDP, on its education system. At this rate, Senegal’s spending on education was slightly below the average of lower-middle-income countries in Africa. On the Current Path, total expenditure on education in Senegal is projected to reach US$7.1 billion, constituting 5.4% of GDP, by 2043. By this time, Senegal’s spending on education will overtake the average for its income-group peers in Africa.

Given the large annual influx of pupils, a whopping 40% of spending on education in Senegal is on the primary level. This is followed by 35.2% on tertiary level, 18.8% on the upper secondary level and the remainder on the lower secondary. The high expenditure at the tertiary level can be attributed to the high cost of educating a student at that level and growing number of new entrants. On average, it costs US$2 106 to educate a student at the tertiary level. This is almost 4 times what was spent on upper secondary students, 27 times the cost of educating a child at the lower secondary level and 11 times more than the costs of educating a primary level student.

The education system can be viewed as a long funnel, where children enter at the primary level and exit after completing tertiary-level education. However, the education funnel in Senegal, like in many sub-Saharan African countries, is leaky with various cracks along the way. Many children enter the system at the mouth of the funnel, but few complete the entire journey—from primary to secondary school and then university—to eventually graduate with a tertiary or equivalent education at the other end.

Historically, Senegal has struggled with the prospect of developing human capital. The high proportion of youth, coupled with widespread poverty, has left more than 40% of the total population illiterate in recent years. Only 17% of children nationwide attend preschool, with large variations between children in rural and urban areas. Even though the number of children in Senegal who have access to basic education has greatly increased over the past two decades, four out of ten children drop out of primary school.

There has been donor support to improve learning outcomes in Senegal. The Ministry of Education, USAID and UNICEF are partnering to improve children’s foundational reading skills. For instance, USAID provides funding for the national reading programme (Lecture Pour Tous) of the Ministry of Education in the regions of Diourbel, Kaffrine, Kaolack, Louga, Matam and Fatick. This programme aims to enhance children’s fundamental reading skills starting in the earliest learning years. By improving reading instruction, building capacity, boosting processes and increasing the involvement of parents and communities, USAID initiatives are improving reading performance in more than 4 000 schools to help almost half a million primary school students learn how to read.

In 2019, the gross enrolment rate for primary school learners in Senegal was 88.6%—an improvement from 54.7% in 1990 but below the average of 100.4% for lower-middle-income countries in Africa. Comparing this to the net enrolment rate of 76.1% in the same period suggests that a number of children in Senegal who are of school-going age are not in school. Also, many classrooms in Senegal are likely to be crowded by older students. With a net enrolment of 76.1%, the country has the fourth lowest net enrolment rate among the 23 lower-middle-income countries in Africa, only better than Nigeria, Angola and Djibouti. On the Current Path, Senegal’s gross and net enrolment rates are projected to reach 97.6% and 90.6%, respectively, by 2043. At this rate of progress, the country will still lag behind the average of its income-group peers in Africa.

Senegal has the lowest gross primary completion rate among the lower-middle-income countries in Africa. In 2019, its gross primary completion rate stood at almost 56%, indicating that a sizable number of children who enrolled did not complete the last grade of primary school in Senegal. On the Current Path, Senegal’s progress in ensuring more children complete primary school will still lag behind its income-group peers in Africa. By 2043, the primary completion rate in Senegal is expected to rise to 81.3%, and it will still be the lowest among Africa’s lower-middle-income countries at 84.3%.
Of those who complete the primary level, it is expected that some will transition immediately to the lower secondary level, some will enrol in the lower secondary level after some years out of school, and some will never enter the lower secondary level and so on through the upper secondary and tertiary levels.

Slightly more students transition from primary level to lower secondary level than they do from lower secondary level to upper secondary level in Senegal. In both cases, the rates are higher than the country’s income-group peers in Africa. Gross enrolment for lower and upper secondary levels in the country stood at 58.9% and 39.1% in 2019, compared to 58.7% and 43.2% in the same period for its income-group peers. By 2043, gross enrolment for the lower secondary level is projected to rise to 79.5%, while that of the upper secondary level will rise to 63.3%. Completion rates drop from 39.6% in the lower secondary phase to 25.5% in the upper secondary phase, indicative of a contraction in the educational funnel in Senegal. Even by 2043, only 63.4% of students are expected to complete their lower secondary education compared to 51.9% at the upper secondary level.

At the tertiary level, the situation is even worse. In 2019, only 12.1% of people within the age group were enrolled in tertiary institutions in Senegal, which is a third of the average rate among the country’s income-group peers. This will only improve to about 26% by 2043 on the Current Path. Worryingly, only 6.1% of the relevant age group in Senegal graduated from a tertiary institution with at least a first degree in 2019. This is below the average of 9.6% for lower-middle-income countries in Africa. On the Current Path, gross tertiary graduation will steadily rise to 16% by 2043, at which time it will catch up with progress within its income-group peers in Africa.

Enrolments in vocational, science and engineering education, which is considered crucial to the future of work, is quite low. In 2019, only 5.4% of upper secondary school students were enrolled in vocational programmes in Senegal. This is less than a quarter of the average for lower-middle-income countries in Africa. At tertiary level, in 2019, 18% of tertiary graduates in Senegal enrolled in science and engineering programmes. This rate is slightly above the average of Senegal’s income-group peers at 16.6%. The majority of Senegalese ethnic groups follow a structured system of apprenticeship, and children begin formal occupational training at the age of five or six.

There is also unequal access to education in terms of gender. Girls have better access to education at preschool and primary levels than young boys, who are typically assigned to the Qur’anic schools or to labour. However, due to gender and school-based violence and discrimination, including early marriage and pregnancy, females transition to higher education at a lesser rate. As a result, there have been efforts to support females in their transition to lower secondary education and work to remove obstacles that prevent both boys and girls from effectively participating in and learning at school, with a focus on preventing violence, reducing opportunity costs, fostering positive social norms and developing gender-sensitive school environments.

In 2019, 114 females were enrolled in primary school for every 100 males in Senegal compared to the almost gender parity in primary enrolment for the average of lower-middle-income countries in Africa. This suggests that unlike most African countries, where access to primary education is limited for females, the reverse is the case in Senegal. At the secondary level also, there were 111 females enrolled in lower secondary schools for every 100 males in Senegal, as opposed to the average of 106 females for every 100 males in lower-middle-income Africa. At the upper secondary level, there are only 103 females for every 100 males in Senegal compared to 99 females to 100 males average for its income-group peers in 2019. However, female enrolment drops at the tertiary level with a ratio of 64 female students for every 100 male students. This is far below the average of 97 female students for every 100 male students for Senegal’s income-group peers on the continent.

Beyond the limited access to education in the country, there are also problems with the quality of education. Most students in the first three grades of school are not learning to read at that level. In 2019, the literacy rate stood at a dismal 53.5%. This has impacted negatively on the academic performance of students. Conflict in southern Senegal has affected enrolment and survival rates in these areas. In addition, despite efforts to build new schools, infrastructure is still lacking
and classrooms are frequently overcrowded.\(^8\) In 2019, the average test score for primary students in Senegal stood at 24.8%, which was below the average of 33% for its income-group peers in Africa. The secondary test score for Senegal of 34.6% in 2019 was also below the average of 41.5% of its income-group peers on the continent.

Thus, although Senegal has tried to improve its education system, significant challenges still need to be addressed. These challenges include limited access to education, particularly for males at lower levels and females at higher levels, and low-quality and inadequate resources. These challenges, if not addressed, can reduce the human capital stock in the country and affect the productivity of labour in the country, particularly as the country seeks to benefit from its demographic dividend in the decades to come.

Chart 17 presents mean years of education in the Current Path forecast and the Education scenario for the 15 to 24-year age group.

The average years of education in the adult population aged 15 to 24 is a good first indicator of how the stock of knowledge in society is changing.

In 2019, the mean years of education attained by adults between 15 and 24 years in Senegal stood at 5.5 years—far below the average of 8.5 years for lower-middle-income countries on the continent. On average, males received 0.5 years more schooling than females. On the Current Path, the average Senegalese person between the age of 15 and 24 years is expected to have received 7.7 years of schooling by 2043. This will be 1.6 years less of schooling compared to the average for its income-group peers in Africa. In the Education scenario, Senegal will close this gap as the mean years of adult education rises to 8.4 by 2043. This reduces the gap with its income-group peers to 0.9 years by that period.

The Education scenario further improves average test scores for primary learners to 35.7 in 2043, which is 16% more than in the Current Path forecast, and puts it slightly above the projected average of 34.9% for lower-income countries in Africa in the same year. Likewise, the average test scores for secondary learners in Senegal will increase to 46.2%, which is 15% higher than the Current Path forecast and 11% more than the average for its income-group peers in Africa. It means that the Education scenario has the potential to improve both the quality of education (reflected in the test scores) and literacy rate in Senegal.
Chart 18 presents the structure of the Manufacturing scenario as modelled in IFs.

The Manufacturing scenario represents reasonable but ambitious manufacturing growth through greater investment in the manufacturing sector, in research and development (R&D) as well as improvement in government regulation of businesses. It increases total labour participation rates with a larger increase in female participation rates where appropriate. It is accompanied by increased welfare transfers (social grants) to unskilled workers to moderate the initial increases in inequality typically associated with a manufacturing transition.

Visit the theme on Manufacturing for our conceptualisation and details on the scenario structure and interventions. Chart 18 presents a summary chart that sets out the composition of the scenario.

The manufacturing sector is crucial for the productive transformation of a country's economy towards sustained high growth, employment creation and improved prosperity. It has backwards and forwards linkages with other sectors, such as the agriculture and service sectors. Senegal has established itself as an emerging industrial centre in West Africa thanks to its consistent growth in manufacturing over the past few years. The sector consists of low-end manufactured goods, such as food processing and handcraft. Senegal is home to a variety of industrial facilities, including flour mills, a textile plant, a sugar refinery, a tobacco factory, a brewery, a navy shipyard, chemical plants and an automobile assembly facility.

Over the years, the government of Senegal has implemented various strategies and policies to promote industrialisation and attract investments in the manufacturing sector. Its industrialisation policy emphasises economic diversification to reduce over-reliance on imports and generate job opportunities. Industrial parks and special economic zones have been developed by the government to offer manufacturing businesses support services, incentives, and infrastructure. The country's skilled workforce, growing domestic market, and preferential trade agreements further contribute to its manufacturing potential. The agro-industry has been designated as a priority sector, which includes food processing and beverage production.
However, the sector is constrained in many ways. The industry's main challenges include the small size of its industrial units, high factor costs, underutilisation of production capacity and limited, expensive access to financing for the private sector, which consists of Senegalese citizens. Also, strategies to decentralise industrial activities in other regions to lessen the oppressive concentration of businesses in and around Dakar have also not been implemented successfully. Other challenges include inadequate infrastructure, access to finance and limited technological capabilities.

The major contributor to GDP in Senegal is the service sector. In 2019, the service sector contributed US$16.7 billion to the economy, equivalent to 56.3% of GDP. This is followed by the contribution of the manufacturing sector valued at US$6.4 billion, equivalent to about 21.5% of GDP. The agricultural sector contributed US$4.3 billion, representing 14.6% of GDP in 2019. In the same period, the ICT sector contributed US$1.5 billion, constituting 5.2% of GDP, while the contributions of the materials and energy sectors were valued at US$698.1 million (2.4% of GDP) and US$3237 million (0.1% of GDP), respectively.

On the Current Path, the service sector will extend its dominance in the economy with its contribution to GDP expected to increase more than fivefold in size to US$81.9 billion by 2043 (62.3% of GDP). By 2043, the manufacturing sector will continue to be the second largest contributor and will be valued at US$31.5 billion (23.9% of GDP). The ICT sector will overtake agriculture as the third largest contributor to GDP with its contribution valued at US$8.2 billion equivalent to 6.2% of GDP.

At this rate, ICT's contribution to GDP will be about three percentage points more than agriculture at US$5.5 billion. The remarkable performance of the ICT sector in Senegal can be an opportunity for the country to leapfrog and advance in digitalisation and innovation provided there is adequate electricity access. By 2043, the material and energy sectors' contributions will be valued at US$4.7 billion and US$114.4 million, corresponding to 3.6% and 0.9% of GDP, respectively.

Typically when countries embark on a manufacturing transition, inequality and poverty may initially increase. This is because resources and investments are diverted to more capital and knowledge-intensive sectors, which leads to an initial crunch in consumption. However, in the long term, these efforts stimulate inclusive growth with a greater impact on poverty and inequality reduction. Policies aimed at industrialisation, therefore, need to be accompanied by measures to mitigate these initial adverse effects. These could include efforts to directly support extremely poor families through social programmes or welfare spending to cushion vulnerable people.

Senegal has implemented a number of safety net programmes for the poorest households, including free meals at school, food aid, care for the elderly and those with disabilities, and cash transfers for the persistently poor. For instance, in 2014, the International Development Association (IDA), the World Bank Group’s fund for the poorest people, approved a US$40.5 million credit to support the government in establishing a national social safety net system. The programme aimed to improve the livelihoods of poor farmers in Senegal through increased and more efficient investment in their farms. All of these initiatives aimed to make life better for low-income families, encourage them to invest in their human resources and shield them against shocks. But until recently, these initiatives had a narrow focus and were not always successful in focusing on the most vulnerable people. The government also disbursed emergency cash transfers to more than half a million households to ameliorate the impacts of the COVID-19 pandemic and Russia's invasion of Ukraine.

Despite these efforts, welfare transfers in Senegal are low compared to its income-group peers on the continent. In 2019, the total welfare transfers to households in Senegal amounted to 4.5% of GDP, which was 2.5% lower than average rates in lower-middle-income African countries. On the Current Path, government welfare transfers to households will increase to about 6.5% of GDP. Despite this increase, it will still be below the projected average of 7% of GDP of Senegal’s income-group peers in Africa.
Chart 19 presents the contribution of the manufacturing sector to GDP in the Current Path and in the Manufacturing scenario. The IFs platform uses data from the Global Trade and Analysis Project (GTAP) to classify economic activity into six sectors: agriculture, energy, materials (including mining), manufacturing, services and information and communication technologies (ICT). Most other sources use a threefold distinction between only agriculture, industry and services, with the result that data may differ.

In the Manufacturing scenario, Senegal makes substantial progress on industrialisation such that, by 2043, the share of the manufacturing sector in GDP is about 27.2% (US$41.1 billion), about 3.4 percentage points of GDP above the Current Path forecast and equivalent to an extra US$9.6 billion.

However, industrialisation is a difficult and long-term process. It requires constructive relationships between the private sector and the state, which encourages and supports them. Firms need a state with strong capabilities in setting an overall economic vision and strategy, efficiently providing supportive infrastructure and services, maintaining a regulatory environment conducive to entrepreneurial activity, and making it easier to acquire new technology and enter new economic activities and markets.
AfCFTA scenario

Chart 20: AfCFTA scenario

Chart 20 presents the structure of the AfCFTA scenario as modelled in IFs. The AfCFTA scenario represents the impact of fully implementing the continental free trade agreement by 2034. The scenario increases exports in manufacturing, agriculture, services, ICT, materials and energy. It also includes an improvement in multifactor productivity growth emanating from trade and a reduction in tariffs for all sectors.

Visit the theme on AfCFTA for our conceptualisation and details on the scenario structure and interventions.

Trade has been a vital component of Senegal’s economy contributing to its growth and development. The country’s trade policies aim to reduce the trade deficit, ensure regular supplies to the domestic market, promote local value chains, strengthen regional integration and access international markets. Senegal’s ratification of regional and international trade agreements has further facilitated its trade integration and provided opportunities for market access. Senegal is a part of many regional trade accords, including the Economic Community of West African States (ECOWAS) and the West African Economic and Monetary Union (WAEMU), which have promoted trade integration within the region of West Africa.

Additionally, Senegal has actively participated in fostering commerce with foreign partners through bilateral and multilateral agreements. It has ratified trade agreements with several advanced countries, including the EU, US, Switzerland, South Korea, Japan and Australia. Furthermore, Senegal’s exports to China have increased, making China an even more vital partner. However, limited and unstable electricity access coupled with the high transportation cost and customs clearance fees are some factors that hinder trade and economic integration in the country.
Historically, Senegal’s economy is less open to trade compared to its income-group peers in Africa. In 1990, the sum of Senegal’s exports and imports stood at 44.8% of GDP, which was below the average of 48.1% for low-income countries in Africa. However, from 2012, this trend reversed so that by 2019, trade openness in Senegal jumped to 62.8% of GDP — far above the 49.9% average for lower-middle-income countries on the continent.

In 1990, the total export value in Senegal stood at US$1.7 billion, constituting 17.1% of GDP, which was below the average of 24% for its income-group peers. Since then, exports from Senegal have grown rapidly. By 2019, Senegal’s exports stood at US$7.2 billion, equivalent to 24.3% of GDP, overtaking the average of 22.8% for lower-middle-income African countries.

The agricultural sector has traditionally been a significant contributor to the country’s export earnings, but recent efforts to diversify into new sectors have been successful. It exports commodities such as fish, horticultural goods and peanuts.

The country has also seen the rise of new export industries, such as textiles, ready-made clothing and chemicals, as a result of government initiatives to draw in outside capital and advance industrialisation. Other exports including cement, gold, phosphates and nut oil are among Senegal’s main exports. About 21% of all Senegalese exports are destined for Mali, 14.4% for Switzerland, 9.8% for India, 6.7% for China and 4.2% for Côte d’Ivoire. On the Current Path, total exports from Senegal are projected to reach 24.1% of GDP, equivalent to US$31.8 billion, in 2043 — slightly exceeding the 23.5% average of the country’s income-group peers in Africa.

Regarding imports, Senegal’s total imports grew from US$2.8 billion, equivalent to 27.7% of GDP, in 1990 to US$11.4 billion, representing 38.5% of GDP, in 2019. At that rate, Senegal’s total imports as a proportion of GDP was higher than the estimated 27.1% average for lower-middle-income African countries in the same year. The country imports large volumes of refined petroleum, rice, cars, crude petroleum and packaged medicaments. Imports from France account for 11.4% of total imports into the country, followed by imports from China (accounting for 9.7% of total imports), India (7.1% of total imports), Russia (5.7% of total imports) and Nigeria (5.4% of total imports). On the Current Path, Senegal’s total imports are projected to reach US$45.2 billion, equivalent to 34.3% of GDP.

Like most African countries, Senegal imports large volumes of mostly finished or processed goods. Its export quantities are small, and most of it is raw materials, with little or no value addition occurring within the country. This results in low export revenues and higher import expenditures. The country’s trade deficit in 2019 constituted 14.2% of GDP, which was above the average of 4.3% for lower-middle-income African countries.
Chart 21 compares the trade balance in the Current Path forecast with the AfCFTA scenario.

In the AfCFTA scenario, the sum of Senegal’s exports and imports as a percentage of GDP will reach 77.2% by 2043. This will be about 19 percentage points above the Current Path and 25.6 percentage points more than the Current Path average for its income-group peers.

Throughout the forecast period, the AfCFTA scenario leads to a faster improvement in Senegal’s trade balance than the Current Path forecast. By 2043, Senegal’s trade deficit in the Current Path will constitute about 10.2% of GDP, whereas, in the same year, the AfCFTA scenario will mitigate this situation leading to a slightly lower deficit of 9.2% of GDP — but far higher than the average for its income-group peers in Africa. Exports as a value of GDP can increase to 34% of GDP in 2043, stating the benefit of the full implementation of the AfCFTA. These figures suggest that Senegal stands to benefit from the full implementation of the AfCFTA, which will improve competitiveness, particularly in growing the country’s manufacturing sector.
Large Infrastructure and Leapfrogging scenario

Chart 22: Infrastructure and Leapfrogging scenario

Chart 22 presents the structure of the Large Infrastructure and Leapfrogging scenario as modelled in IFs.

The Large Infrastructure and Leapfrogging scenario represents a reasonable but ambitious investment in road infrastructure, renewable energy technologies and improved 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. A final intervention emulates investments in large infrastructure such as rail, port and airports.

Visit the themes on Large Infrastructure and Leapfrogging for our conceptualisation and details on the scenario structure and interventions. Chart 24 presents a summary chart that sets out the composition of the scenario.

Modern infrastructure can improve productivity, augment healthy lifestyles, boost educational outcomes and facilitate government effectiveness. The study focuses on both physical and digital infrastructure, including roads, electricity access and ICT. Physical infrastructure, such as roads and railways, is a critical driver of economic growth and an important component of development. It facilitates the movement of people, goods and services, promotes intra-country trade and serves as an enabler of social service provision such as education and health.

Senegal has developed its infrastructure significantly in recent years, particularly in the areas of transportation, telecommunications, electricity and water delivery systems. There have been efforts to improve road networks in the country. The Dakar-Diamniadio Toll Highway and the Dakar-Touba Highway, as well as the construction of a toll highway and other interdepartmental highways, have all improved traffic flow. The construction of road networks in six communes...
has also received funding from the African Development Bank. In 2019, the total length of roads in Senegal was estimated to be 15,324 km of which only 5,516 km, equivalent to 36.6%. This was higher than the average of 31.4% for lower-middle-income countries in Africa. Most of the roads are concentrated in urban areas, particularly Dakar. On the Current Path, by 2043, the total road network in Senegal will increase to 35,090 km, of which 21,494 km, equivalent to 61.3%, will be paved. By this time, paved roads as a percentage of total roads in Senegal will, however, be lower than the average of 61.9% for the country’s income-group peers in Africa.

In 2019, 70.4% of Senegalese people had access to electricity — slightly above the average of 68.3% for lower-middle-income countries in Africa. Consistent with the trend in most African countries, in 2019, an overwhelming 95.2% of urban dwellers had access to electricity compared to 47.8% of rural dwellers. This depicts a locational disparity in favour of urban areas.

The nation has made investments in green energy initiatives, including the Taïba N’Diaye Wind Farm and the increase of rural communities’ access to electricity through the Rural Electrification Agency. On the Current Path, access to electricity is projected to reach 89.4% of the population by 2043, which is above the average of 81.7% for Senegal’s income-group peers. The disparity in electricity access in favour of urban residents will continue as all urban residents will have access to electricity by 2038 compared to 75.3% of rural residents by 2043. Also, electricity transmission and distribution loss in Senegal stands at about 11.7% of all electricity produced meaning that nearly 12% of all electricity produced is lost during transmission and distribution. On the Current Path, this is expected to remain, with no effort to avert these losses.

Aside from physical infrastructure, technological advancement is essential for economic growth. Technology improves productivity and reduces the transaction costs and bottlenecks associated with doing business. Senegal’s communications infrastructure has seen substantial advancements. Rapid growth in mobile phone networks, increasing accessibility to Internet services and adoption of 4G technology to increase Internet connectivity speeds have all taken place in recent times.

However, Senegal’s progress in fixed broadband access, like many other African countries, has lagged. In 2019, the total number of fixed broadband subscriptions in Senegal was estimated at about 1.4 per 100 people. This is less than half the average of 3.3 per 100 people for lower-middle-income countries in Africa. In the Current Path forecast, Senegal will progress in the use of fixed broadband and will be quicker than its income-group peers in Africa. By 2043, fixed broadband subscriptions will rise to 41.6 per 100 people, which is above the average of 28 subscriptions per 100 people for lower-middle-income African economies.

In contrast, mobile broadband subscription in Senegal performs better. In 2019, Senegal had a mobile broadband subscription rate of 31.6 per 100 people, though below the average of 46.5 for lower-middle-income countries on the continent. On the Current Path, mobile broadband subscriptions will rise to 152 per 100 people which is 5.2% higher than the average of its income-group peers. In terms of Internet usage, 40% of Senegalese people had access to the Internet in 2019, which is almost on par with the average for its income-group peers in Africa. On the Current Path, Senegal’s progress is projected to lag behind its income-group peers such that by 2043, the proportion of people with access to the Internet in Senegal will be 27.2% below the average for its income-group peers in Africa at 29.4%.
Chart 23 presents cook stove usage in the Current Path and the Large Infrastructure and Leapfrogging scenario.

The IFs model distinguishes between three types of cookstoves: traditional, improved and modern. In 2019, 48.3% of households in Senegal used traditional stoves such as firewood, charcoal for cooking, while 50.8% used modern stoves for cooking. Only a negligible 1% of the population used improved cookstoves. This is disproportionately low considering the current access rate in the country. A similar trend is observed in most lower-middle-income countries in Africa with 48.5% of people using traditional cookstoves and 47.7% using modern fuel for cooking. The usage of traditional stoves for cooking contributes to pollution and carbon emissions, and negatively impacts the health of these households. However, as access to electricity in urban and rural areas increases, more households will likely switch from traditional cookstoves to improved and modern fuel stoves, such as electric and gas cookers.

Based on the Infrastructure scenario, it is expected that 96.7% of Senegalese people will have access to electricity by 2043, compared to 89.4% in the Current Path forecast. Also, all Senegalese people living in urban areas will have access to electricity in the scenario and the proportion of people with access to electricity in rural areas will improve to 92.2% in the scenario instead of to only 75.3% as in the Current Path.

Consequently, only 13.8% of households will use traditional stoves compared to 17.9% in the Current Path forecast by 2043. As a result, 86% of households in Senegal are expected to use modern fuel for cooking in the Infrastructure scenario. This is above the average of the country’s income-peers at 71.3%, compared to 81.6% in the Current Path forecast by 2043. The high usage of modern fuel for cooking reflects the improvement in the electricity access rate, particularly to rural areas in the scenario. Clearly, this will reduce health-related diseases and carbon emissions arising from the use of traditional cookstoves in the country.
Chart 24 presents access to mobile and fixed broadband in the Current Path and the Large Infrastructure and Leapfrogging scenario.

The Infrastructure scenario will lead to a larger increase in fixed broadband access, so that, by 2043, subscriptions will likely be at 50 per 100 people compared to 40.2 subscriptions on the Current Path, and above the average of 28.2 for lower-middle-income African countries. Due to the high performance in improving access to mobile broadband in the country, in the Current Path forecast, reaching 153 subscriptions by 2043, the Infrastructure scenario has only a marginal impact. In the Infrastructure scenario, the subscription rate will reach 153.3 subscriptions per 100 people by 2043 — higher than the average of 144.7 for Africa’s lower-middle-income countries.
Financial Flows scenario

Chart 25: Financial Flows scenario

Chart 25 presents the structure of the Financial Flows scenario as modelled in IFs.

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

Visit the theme on Financial Flows for our conceptualisation and details on the scenario structure and interventions. Chart 25 presents a summary chart that sets out the composition of the scenario.

FDI can act as a catalyst for economic development as it brings much-needed capital and technology to recipient countries. Senegal offers a stable political environment, a favourable geographic position and strong institutions with growing opportunities for foreign investment. The Senegalese government welcomes foreign investment and has prioritised efforts to improve the business climate.

FDI inflows to Senegal are historically low. In 1990, the total FDI inflow to Senegal was equivalent to a paltry 0.8% of GDP, though slightly higher than the average for lower-middle-income countries in Africa. By 2019, FDI inflows to Senegal reached 4.6% of GDP, which was above the average of 1.3% of GDP for the country's African income-group peers. On the Current Path, FDI inflows to Senegal are expected to marginally decline to 3.1%, below the Current Path average of 3.5% for lower-middle-income countries on the continent by 2043.

Many countries in sub-Saharan Africa like Senegal are still dependent on foreign aid to provide basic services such as education and healthcare. Historically, foreign aid to Senegal has been relatively high compared to the average of its income-group peers in Africa. In 1990, the total aid received by Senegal constituted 11.5% of GDP, which was more than twice the average of 5.7% received by lower-middle-income African countries in the same period. By 2019, total aid as a
percentage of GDP in the country had dropped to 5.1%, equivalent to US$1.5 billion. This was more than three times the average of 1.6% for lower-middle-income countries in Africa. On the Current Path, foreign aid is projected to decline to constitute 1.5% of GDP. The absolute value will increase to almost US$2 billion, which is higher than the average of 0.6% of GDP for its peers in Africa.

In 2019, Senegal received US$2.2 billion in remittances, equivalent to 7.4% of GDP above the average of 4.1% for lower-middle-income African countries. This represents a tremendous increase from the US$68.7 million, representing 0.7% of GDP, that the country received in 1990. The high remittances inflow in Senegal indicates that there are more Senegalese migrants than of income-group peers or that Senegalese migrants sent relatively higher remittances home than those from other lower-middle-income countries. On the Current Path, remittances to Senegal are expected to increase to US$7.9 billion (6% of GDP). This is almost four times the average of 1.5% of GDP projected for lower-middle-income countries.

Chart 26 presents government revenues in the Current Path and Financial Flows scenario.

Wagner's law, or the law of increasing state activity, is the observation that public expenditure increases as national income rises. It is, therefore, reasonable to expect that government revenues will increase as a per cent of GDP in the Financial Flows scenario compared to the Current Path forecast.

Higher external inflows in the form of FDI, aid and remittances have increased government revenue. For instance, increased FDI means higher GDP growth which in turn increases revenues accrued to the government through corporate and income taxes, royalties and indirectly through value-added tax. In 2019, the government’s total revenue in Senegal amounted to US$7.4 billion, equivalent to 25% of GDP. This amount was higher than the average of its income-group peers in Africa at 21.2%.

Similarly, Senegal’s revenue without aid, estimated at 19.9% of GDP, is slightly above the average of 19.6% for low-income countries in Africa. In the External Financial Flows scenario, government revenue is projected to rise to US$34.8 billion in
2043, representing 25.2% of GDP. This amount is above the average of 23.4% for low-income countries in Africa in the same year. Compared to the Current Path, the External Financial Flows scenario can improve government revenue in Senegal by an extra US$1.9 billion by 2043.
Governance scenario

Chart 27: Governance scenario

Chart 27 presents a summary chart that sets out the composition of the Governance scenario as modelled in IFs. Thinking of governance in terms of security, capacity and inclusion provides a useful lens to compare how countries have progressed over time, as well as the state of governance between countries and groups of countries.

Visit the theme on Governance for a full conceptualisation and details on the scenario structure and interventions.

In brief, the stability dimension uses data from the Political Instability Task Force on:

- the probability and magnitude of state failure/internal war,
- the probability and magnitude of abrupt regime change, and
- social violence consisting of reductions in conflict and terror and police conflict.

Capacity is enhanced by improving the quality of government regulation, government effectiveness (both from the Worldwide Governance Indicators) and reductions in corruption using data from Transparency International.

Inclusion improves as a result of:

- an improvement in levels of democracy using the Polity IV index applied to those countries that evidence a democratic deficit,
- an improvement in gender empowerment using the gender empowerment measure (GEM) from the United Nations Development Programme (UNDP), and
- more economic freedom (using the associated index from the Fraser Institute).
These IFs indices compare well with the results from others, although IFs adopt a more structural/long-term approach. For example, the Worldwide Governance Indicators published by the World Bank measures six dimensions of governance, many of which overlap with the three IFs indices. These are: voice and accountability; political stability and absence of violence/terrorism; government effectiveness; regulatory quality; rule of law; and control of corruption.

Stability and better governance are generally prerequisites for other aspects of development as they ensure accountability, efficient allocation and distribution of state resources and encourage inflows of foreign direct investment (FDI). To emulate the sequential evolution of governance over time, IFs draw on the establishment of nation-states in the Westphalian tradition that first created a security community (through internal oppression and war with others), built capacity (largely through the collection of taxes and the establishment of a coercive social contract) and then, in time, became more inclusive and eventually, democratic. Traditionally, these transitions occurred sequentially with progress in one dimension providing a basis for the next.

The process of externally imposed state formation during colonialism in Africa did not follow this process. The result was that many African countries do not comprise a security community and have limited capacity. Yet, they are required to democratis without the fundamentals of sufficient security and capacity being in place. The composite ‘governance triangle’ in IFs measures a state’s progress using the average of these three indices. To this end, it includes an index (0 to 1) for each dimension, with higher scores indicating improved outcomes.

Being one of the most stable countries in Africa, Senegal’s performance on the governance security index is marginally better than that of its peers on the continent. Its score of 0.75 for 2019 was 4.3% above the average of 0.72 for lower-middle-income countries in Africa. However, since last year Senegal has been experiencing political tension and some form of instability associated with the decision to postpone its general elections which was initially scheduled for February 2023. Prior to that, clashes between the opposition leader Ousmane Sonko and the police led to the deaths of sixteen people with over hundred other people sustaining injuries in June 2023. This was after the sentencing of Mr Sonko for corrupting the youth. In February 2024, protest over delayed elections caused the death of three people with several others injured. These unfortunate recent developments coupled with terrorist groups’ activities in neighbouring countries and cross-border trafficking may fuel the risk of instability in Senegal. On the Current Path, it is projected that Senegal’s score on the governance security index will reach 0.82, which is well above the average of 0.76 for lower-middle-income African countries by 2043.

Regarding governance capacity, Senegal’s score in 2019 of 0.45 was about 29% higher than the average of lower-middle-income African countries. By 2043, the country’s score of 0.49 on the governance capacity score will be 20% higher than its income-group peers in Africa. This is reflected in its government revenue as a percentage of GDP (without aid), which was slightly ahead of that of Senegal’s income-group peers in Africa. Similarly, the country’s performance on the World Bank government effectiveness index is better than its peers. Its score of 1.4 in 2019 ranks Senegal 11th rank out of the 23 low-income countries and above the group average. Moreover, Senegal is among the ten least corrupt countries in Africa. Its score of 43 on the 2023 Transparency International Corruption Perception Index is the eight highest in Africa and only behind Cabo Verde in the West African region.

Just like the security and capacity index, Senegal’s performance on the Governance Inclusion Index is higher than its income-group peers in Africa. In 2019, Senegal scored 0.56 on the inclusion index, about 17% above its income-group peers on the continent at 0.48. This is not surprising given that the country has experienced three peaceful political transitions since independence in 1960. President Macky Sall has been in power since 2012 and was elected to a second five-year term in February 2019. However, the decision to postpone its February 2024 general elections has dented its imagine at the beacon of democracy in West Africa. There are now fears as to whether the country can consolidate its democratic gains. On the Current Path, Senegal will progress slowly so that by 2043, the country’s score on governance inclusion of 0.59 will be 16.3% above the average of 0.51 for lower-middle-income countries in Africa.
Chart 28 presents progress with the three governance dimensions by 2043 in the Current Path and Governance scenario compared to 2019.

In the Governance scenario, Senegal’s score on the governance security index will improve to 0.84, which is 3.1% above the Current Path forecast by 2043 and about 10.8% above the Current Path average of lower-middle-income African countries in the same year. Governance capacity is also expected to also improve in the Governance scenario, with its score increasing to 0.54 by 2043, constituting a 10.6% improvement above the Current Path forecast and 31.7% above the average of its income-group peers on the continent. Regarding inclusion, the Governance scenario will improve Senegal’s score on the Governance Inclusion Index by 12.8% above the Current Path forecast, reaching 0.67 by 2043. In the scenario, Senegal’s score is 31.2% higher than the average of lower-middle-income countries in Africa in 2043.
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