Central Africa Economic Outlook 2018

Macroeconomic developments and poverty, inequality, and employment

Managing forestry’s potential
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### ABBREVIATIONS

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<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
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<tbody>
<tr>
<td>AfDB</td>
<td>African Development Bank</td>
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<tr>
<td>CFA</td>
<td>Coopération Financière en Afrique centrale</td>
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<tr>
<td>CEMAC</td>
<td>Central African Economic and Monetary Community (includes Cameroon, Chad, Central African Republic, Congo, Equatorial Guinea, and Gabon)</td>
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<tr>
<td>DRC</td>
<td>Democratic Republic of Congo</td>
</tr>
<tr>
<td>ECCAS</td>
<td>Economic Community of Central African States (includes Burundi, Cameroon, the Central African Republic, Chad, Congo, Democratic Republic of Congo, Equatorial Guinea, Gabon, Rwanda, and São Tomé and Príncipe)</td>
</tr>
<tr>
<td>EU</td>
<td>European Union</td>
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<tr>
<td>FDI</td>
<td>Foreign direct investment</td>
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<tr>
<td>GDP</td>
<td>Gross domestic product</td>
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<tr>
<td>ILO</td>
<td>International Labour Organization</td>
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<tr>
<td>IMF</td>
<td>International Monetary Fund</td>
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<tr>
<td>PPP</td>
<td>Public–private partnership</td>
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<tr>
<td>US</td>
<td>United States of America</td>
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Economic growth in the region was sluggish from 2016 to 2017. Estimated average growth for the region in 2017 is 0.9 percent, barely up from 0.1 percent in 2016 and noticeably below the estimated African average of 3.6 percent. Low commodity prices accounted for much of the sluggishness of growth. The outlook for the region is positive, however, as commodity prices trend upward and domestic demand grows. Sound macroeconomic management and an improved institutional environment are expected to help maintain Central Africa’s growth resilience in 2018–19.

Growth is estimated to have reached 0.9 percent for 2017 and is projected to increase considerably in coming years, to 2.4 percent in 2018 and 3.4 percent in 2019. Growth in 2017 was driven mainly by increased infrastructure investment, resilient service sectors, and a recovering agricultural sector, particularly in economies that depend less on extractive (oil and mining) sectors. The positive economic outlook for 2018–19 is driven by the same factors.

Domestic demand has continued to boost growth in many countries in the region. External demand has remained subdued, more notably from advanced economies but also from emerging economies. The export values of primary commodities were depressed as a result of lower prices. However, Central African exports are expected to strengthen in 2018 and 2019 as the world economy improves.

Inflation in the Central Africa region is estimated at 10.1 percent for 2017, up from 2.6 percent in 2016. It is expected to edge up to 10.4 percent in 2018 and then to dip slightly to 9.1 percent in 2019.

As the euro zone continues its gradual recovery in 2018, the euro is expected to...
Much remains to be done to unlock the full economic potential of the countries of Central Africa.

Fiscal deficits in the Central Africa region fell from about 4.4 percent of GDP in 2016 to an estimated 2.1 percent in 2017. The deficit position is expected to continue to improve in 2018 and 2019. Most countries in the region are expected to have fairly low deficits, except Equatorial Guinea.

Gross national savings in the Central Africa region increased considerably, from 5 percent of GDP in 2016 to 12.4 percent in 2017, and is projected to rise to 16.3 percent in 2018 and 17.3 percent in 2019.

On average, government revenues seem to match expenditures in the Central Africa region. The average revenue to GDP ratio was about 19 percent in 2016, against public spending of about 22 percent of GDP, and is estimated to have increased slightly to about 20 percent in 2017, against public spending of almost 21 percent of GDP.

Much remains to be done to unlock the full economic potential of the countries of Central Africa. The negative consequences of the oil price decline for African economies highlight the need to accelerate and deepen structural reforms in order to create more jobs for youth and build more resilient economies. Despite the steps already taken and an abundance of natural resources, unemployment and economic exclusion remain high. Economic development has been held back by limited diversification and a sluggish private sector. Some countries are trying to redistribute oil wealth through a system of social benefits, including public employment and social safety nets. Countries can take several measures to advance the goal of more rapid and inclusive economic development.
ECONOMIC PERFORMANCE AND OUTLOOK

Eight countries make up the Central Africa region: Cameroon, Central African Republic, Chad, Congo, Democratic Republic of Congo (DRC), Equatorial Guinea, Gabon, and São Tomé and Príncipe. In 2017, Cameroon was the largest economy in the region, contributing nearly 29 percent of regional GDP, followed by DRC (24 percent), Gabon (13 percent), Equatorial Guinea (11 percent), Congo (11 percent), and Chad (11 percent; figure 1). The smallest economies were Central African Republic, which contributed 1.2 percent to regional growth, and the small island country of São Tomé and Príncipe, which contributed 0.3 percent.

Economic growth in the region was sluggish from 2016 to 2017. Estimated average growth for the region in 2017 is 0.9 percent, barely up from 0.1 percent in 2016 and noticeably below the estimated African average of 3.6 percent. Low commodity prices accounted for much of the sluggishness of growth. The outlook for the region is positive, however, as commodity prices trend upward and domestic demand grows. Sound macroeconomic management and an improved institutional environment are expected to help maintain Central Africa’s growth resilience in 2018–19.

In 2016, continuing low commodity prices and security threats in many Central African countries stalled economic growth in the region, which stood at 0.1 percent (figure 2). Growth is estimated to have reached 0.9 percent for 2017 and is projected to increase considerably in coming years, to 2.4 percent in 2018 and 3.4 percent in 2019. Growth in 2017 was driven mainly by increased infrastructure investment, resilient service sectors, and a recovering agricultural sector, particularly in economies that depend less on extractive (oil and mining) sectors. The positive economic outlook for 2018–19 is driven by the same factors.

São Tomé and Príncipe, Central African Republic, Cameroon, and DRC are expected to record the highest growth rates in the region in 2017 and in the next two years (figure 3). Among countries whose economies contracted, Equatorial Guinea experienced the largest estimated GDP decline, at −7.3 percent in 2017, followed by Congo, at 4 percent. These contractions in growth are due partly to a heavy dependence on oil, whose price and production both declined, as well as to security threats. Little change in these circumstances is expected in the near future, putting a strain on the region.

On a sectoral basis, industry accounted for the largest share of the regional economy in 2016, contributing about 42 percent of regional GDP, followed by services, which contributed 41 percent (figure 4). Agriculture contributed 17 percent.
Industry accounted for the largest share of the regional economy in 2016, contributing about 42 percent of regional GDP.

Major sources and drivers of growth on the demand side
Domestic demand has continued to boost growth in many countries in the region. External demand has remained subdued, more notably from advanced economies but also from emerging economies. The export values of primary commodities were depressed as a result of lower prices. However, Central African exports are expected to strengthen in 2018 and 2019 as the world economy improves. In 2015, domestic demand in most countries was led by private consumption and public infrastructure investments, often financed by international bond issues. Increased consumer confidence and an expanding middle class helped sustain growth in private consumption, which accounted for 60 percent of GDP in 2015 (figure 5). Investments in expanding the region’s productive capacity and productivity accounted for 28 percent of GDP, up from 24 percent in 2008. Government consumption contributed the least to GDP, accounting for about 14 percent of GDP in 2015.

In 2015, the region imported more (38 percent of GDP) than it exported (32 percent of GDP), resulting in a trade deficit of –6.6 percent of GDP. As mentioned, export values were depressed by the low price of commodities, on which most of these countries depend heavily.

Opportunities and risks
The global economy is facing several key challenges: uncertainty brought about by Brexit, price

![FIGURE 1 Countries' contribution to regional GDP in Central Africa, 2017](image1)

**Source:** AfDB statistics.

![FIGURE 2 Real GDP growth rates for the Central Africa region, 2016–19](image2)

**Source:** AfDB statistics.
**FIGURE 3** Real GDP growth rates for Central African countries, 2016–19

![Graph showing GDP growth rates for Central African countries.](image)

Source: AfDB statistics.

**FIGURE 4** Average sectoral contribution to regional GDP in Central Africa, 2012–16

![Graph showing sectoral contributions to GDP.](image)

Source: AfDB statistics.
Long-term growth prospects for Central Africa remain encouraging. Shocks on the world commodity markets, and security threats across the globe and in Africa. The threat of economic stagnation in advanced economies and ongoing fears of rapid declines in growth in China are also downside risks. On the positive side are some growth hotspots, especially among emerging market economies, which promise growth opportunities for economies in the Central Africa region.

Despite the weakening performance of African economies in 2016, long-term growth prospects for Central Africa remain encouraging. Rising world commodity prices should ease budget constraints in many countries. Increases in global prices of copper (16 percent) and cobalt (88 percent) between December 2016 and September 2017 led to higher production (9.3 percent higher for copper and 18 percent higher for cobalt in DRC). Countries in the Central Africa region are also implementing business reforms to drive structural change. For instance, Gabon’s new industrial policy focuses on developing special economic zones and attracting foreign direct investment (FDI). One outcome has been a public–private partnership with OLAM, a multinational agro-business.

Opportunities for economic development in the region include oil reserves in the Gulf of Guinea, vast metal and mineral deposits, enormous water resources in the Congo-Obouangui-Sangha basin and the Great Lakes, and a large tropical forest in the Congo Basin (see part II). These resources, largely untapped and underutilized, can be leveraged to boost growth in the region.

Economic and political uncertainty present risks to growth and have discouraged investments in many countries, particularly Cameroon, Central African Republic, and DRC. Although Cameroon continues to enjoy relative political stability, the growing sociopolitical crisis affecting the English-speaking area and tensions in border areas linked to Boko Haram and incursions by rebel groups in the Central African Republic and Chad could delay the beneficial effects of policies to encourage diversification and growth. In addition, the lack of economic diversification, particularly the heavy dependence on oil and mining, make the region’s economies more vulnerable to external shocks. All these conditions may lead to a more volatile macroeconomic environment.

FIGURE 5 Demand decomposition of GDP in Central Africa, 2008 and 2015

Source: AfDB statistics.
MACROECONOMIC STABILITY

Price movements

Inflation

Inflation in the Central Africa region is estimated at 10.1 percent for 2017, up from 2.6 percent in 2016 (figure 6). It is expected to edge up to 10.4 percent in 2018 and then to dip slightly to 9.1 percent in 2019. Regional inflation will be driven mainly by DRC, where inflation is projected to be in the double digits—43 percent in 2017 and 2018. DRC and São Tomé and Príncipe are the only countries in the region that are not in the Coopération Financière en Afrique centrale (CFA) franc zone. For most countries in the region, inflation rates for 2018 and 2019 are projected to be above the 3 percent target under the Central African Economic and Monetary Community (CEMAC) convergence criteria for the CFA franc zone.

Exchange rates

Six of the eight countries in Central Africa belong to the CFA franc zone (Cameroon, Central African Republic, Chad, Congo, Equatorial Guinea, and Gabon), whose currency is pegged to the euro (CFA franc 655.96 = €1). As the euro zone continues its gradual recovery in 2018, the euro is expected to strengthen against the US dollar. This will lead to appreciation of the CFA franc, which is likely to put pressure on the competitiveness of these economies. For DRC, which is outside the CFA franc zone, depreciation and inflationary pressures are expected instead, because of growing political instability.

Terms of trade

Economies that depend on primary commodities tend to have unfavorable terms of trade (price of exports relative to imports) compared with economies that trade in high value-added commodities. Except for Central African Republic, most countries in the region have had terms of trade indices generally above 100 over 2010–16, suggesting a value of exports larger than the value of imports (figure 7). However, the terms of trade worsened severely in 2014 as commodity prices plunged. Most countries in the region are exporters of primary products (specifically oil and mining products), and weak diversification and economic integration among the countries in the region are also contributory factors. Relatedly, the terms of trade are volatile (measured by the standard deviation of the terms of trade) among Central African oil-exporting countries.

*FIGURE 6 Inflation in Central African countries, 2014–19*

Inflation is expected to edge up to 10.4 percent in 2018 and then to dip slightly to 9.1 percent in 2019.
Fiscal deficits in the region fell to an estimated 2.1 percent in 2017.

### Fiscal and current account deficit and sources of finance

#### Fiscal balances and public expenditures

Fiscal deficits in the Central Africa region fell from about 4.4 percent of GDP in 2016 to an estimated 2.1 percent in 2017. The deficit position is expected to continue to improve in 2018 and 2019 (figure 8). Most countries in the region are expected to have fairly low deficits, except Equatorial Guinea.

Government expenditures in the Central Africa region are estimated to average about 20 percent...
Gross national savings in the Central Africa region increased considerably, from 5 percent of GDP in 2016 (figure 11) to 12.4 percent in 2017 and is projected to rise to 16.3 percent in 2018 and 17.3 percent in 2019. In large part, the regional trend is being driven by Congo, which has benefited from the partial recovery in oil prices; gross national savings are projected to rise to 30 percent of GDP in 2018 and 31 percent in 2019.

On average, government revenues seem to match expenditures in the Central Africa region. The average revenue to GDP ratio was about 19 percent in 2016, against public spending of about 22 percent of GDP, and is estimated to have increased slightly to about 20 percent in 2017, against public spending of almost 21 percent of GDP (figure 12). São Tomé and Príncipe, a small island economy that relies mainly on agriculture and tourism, had one of the highest revenue ratios in the region in 2017 (29 percent), second only to Congo (32 percent), an oil producer. Projected increases in government revenue in 2018

Gross national savings in the Central Africa region increased considerably, from 5 percent of GDP in 2016 to 12.4 percent in 2017
and 2019 will be slight relative to projected fiscal balances. This suggests that improvement in fiscal outcomes for countries in the Central African region will be driven largely by reductions in government spending. For example, Cameroon has entered into a three-year program with the International Monetary Fund (IMF) that combines fiscal consolidation with structural reforms aiming to increase the efficiency and effectiveness of public investments.
The percentage of people living on less than $1.90 a day declined steadily from about 76 percent in 1996 to 60 percent in 2013.

**Debt dynamics**

Central Africa’s gross public debt has risen steadily since 2014, reaching 28.7 percent of GDP in 2016 (figure 13). Gross public debt is projected to continue to rise in the short and medium terms, driven by rising debt in Congo, Cameroon, Equatorial Guinea, and Gabon. The debt to GDP ratio in the region is estimated at 33.3 percent in 2017 and is projected at 36.3 percent in 2018.

The debt position of countries in the region varies considerably. Congo has the highest debt to GDP ratio, at 95.7 percent in 2017, and its ratio is projected to rise in coming years, reaching 95.8 in 2018, which is almost three times the average for the Central Africa region. Congo’s stock of public debt has followed an upward trajectory since debt relief in 2010, driven by new borrowing contracted earlier with foreign partners including China. São Tomé and Príncipe has the second highest debt to GDP ratio in Central Africa, at 74.2 percent in 2017. Although its economy grew at a robust 4.0 percent in recent years (higher than many other small island countries), its high public debt, low revenue collection, and narrow export base remain key challenges. Its public debt (including arrears) is projected to decrease to 71.7 percent of GDP in 2018. Both Congo’s and São Tomé and Príncipe’s risk of debt distress is classified as high (despite receiving debt relief under the Highly Indebted Poor Countries Initiative).

**POVERTY, INEQUALITY, AND EMPLOYMENT**

**Trends in poverty and inequality**

Poverty levels have declined considerably in Africa in the last decade. In the Central Africa region, the percentage of people living on less than $1.90 a day (the international poverty line, in 2011 purchasing power parity terms), declined steadily from about 76 percent in 1996 to 60 percent in 2013 (figure 14). However, ongoing conflicts in the region, such as in Central African Republic and DRC, could reverse the progress made so far.

The poverty gap, which measures the depth of poverty (the mean distance below the poverty line as a proportion of the poverty line), has also decreased (see figure 14). Based on limited available data, inequality also appears to have been rising in the Central Africa region, as measured by the Gini index. Among countries in the region with available data, the Gini index appears to have
**FIGURE 13** Gross public debt in Central African countries, 2014–19


*Note:* The poverty gap is the mean distance below the poverty line as a percent of the poverty line.
Industry’s contribution to employment is estimated at 7 percent, while its contribution to GDP has been above 50 percent.

TABLE 1  Trends in income inequality in Central African countries, available years, 1992–2014  (Gini index)

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<tr>
<td>Cameroon</td>
<td>—</td>
<td>44.5</td>
<td>42.1</td>
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<td>—</td>
<td>42.8</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>46.5</td>
</tr>
<tr>
<td>Central African Republic</td>
<td>61.3</td>
<td>—</td>
<td>—</td>
<td>43.6</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>56.2</td>
<td>—</td>
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<tr>
<td>Chad</td>
<td>—</td>
<td>—</td>
<td>39.8</td>
<td>—</td>
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<td>—</td>
<td>43.3</td>
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<tr>
<td>Congo</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>47.3</td>
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<td>48.9</td>
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<tr>
<td>Democratic Republic of Congo</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>42.2</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>42.1</td>
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<tr>
<td>Gabon</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>42.2</td>
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<td>—</td>
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— not available.

Note: A Gini index of 0 represents perfect equality; an index of 100 represents perfect inequality.
Economic growth and employment generation
An analysis of the responsiveness of employment to higher growth using a dynamic panel dataset for 41 African countries over 2008–14 found weak positive elasticity of employment to growth of

(65 percent), and Cameroon (62 percent), and services in Equatorial Guinea (63 percent), Gabon (64 percent), and São Tomé and Príncipe (64 percent). Industry’s role is marginal except in Congo (26 percent), Equatorial Guinea (18 percent), and Gabon (19 percent), which have large oil sectors.
Central Africa’s labor productivity growth has been mostly positive, about 0.06 in the Central Africa region. In other words, for every 1 percentage point increase in growth, Central African economies increased employment by 0.06 percentage point. This elasticity is lower than estimates for other African regions (figure 17), of 0.35, and for Africa overall, of 0.26. This result highlights the need for structural policies that can influence the pattern of growth in a way that yields larger employment dividends.

**Structural transformation and labor productivity growth**

Decomposing labor productivity into two components—within-sector productivity growth and labor reallocation from low-productivity to high-productivity sectors, or structural labor productivity growth (following McMillan and Rodrik 2011)—can elucidate the nature of growth in the region and reveal whether the changing structure has affected the region’s economic growth. The first component, within-sector productivity growth, can be affected by periodic technological and price shocks, such as weather and commodity price volatility. When changes in sectoral employment shares are positively correlated with productivity levels, structural change will contribute to economywide productivity growth. The second component captures a longer term process of structural transformation. As countries grow, reallocating resources from low-productivity to high-productivity sectors is essential for determining countries’ long-term economic performance, including their capacity to reduce poverty and create jobs that pay a decent wage.

Central Africa’s labor productivity growth has been mostly positive, though uneven among countries, rising at an average annual rate of 1.9 percent between 2005 and 2016, with a peak of 5.2 percent in 2007 (figure 18). This growth was driven mainly by within-sector productivity growth, which is typically much larger than the structural component. Labor productivity gains were recorded mainly in the services sector until 2014–16. Productivity growth has been mostly negative or very small in industry and inconsistently positive in agriculture.

The structural component of labor productivity growth was positive over 2005–12 and negative in 2015–16, meaning that employment in Central Africa has been moving from low-productivity sectors (agriculture) to higher productivity sectors (services and industry), particularly in recent years. Services have been the most dynamic, particularly in urban areas, attracting labor from agriculture and industry. While the industrial sector has also been absorbing additional labor, most of the region’s economy is still heavily dependent on primary commodities, with very minimal industrial and manufacturing activities.

**KEY POLICY RECOMMENDATIONS**

Much remains to be done to unlock the full economic potential of the countries of Central Africa. The negative consequences of the oil price decline for African economies highlight the need to accelerate and deepen structural reforms in order to create more jobs for youth and build more resilient economies. Despite the steps already taken and an abundance of natural resources, unemployment and economic exclusion remain high. Economic development has been held back by...
Creating more jobs and resilience begins with diversifying the economy away from the heavy reliance on oil and other commodities. Some countries are trying to redistribute oil wealth through a system of social benefits, including public employment and social safety nets. Countries can take several measures to advance the goal of more rapid and inclusive economic development.

**Enhance job creation and increase resilience to external shocks**

Creating more jobs and resilience begins with diversifying the economy away from the heavy reliance on oil and other commodities and making space for a vibrant private sector. A 2012 AfDB study on the business environment in Central African countries noted that these countries had paid inadequate attention to stimulating the growth of small and medium-size firms, which are the engines of job growth. The study recommended that countries improve institutional frameworks and the business climate (beyond taking formal measures to boost their Doing Business ranking), implement measures to reduce the cost of production factors, adopt an appropriate exchange rate policy, and develop transport infrastructure and public utilities.

In addition, to reduce poverty and income disparities in the region, countries should consider introducing more progressive taxation, improving equitable access to land and its products, and establishing targeted social protection programs. Policies are also needed to create a business environment that encourages private investment, especially FDI, in the region. That includes improving security and focusing attention on value-added activities that take advantage of the region’s vast agricultural and mineral resource endowments (see part II).

**Strengthen regional integration**

Diversification in Central Africa could be strengthened by promoting regional economic integration, particularly by accelerating the establishment of the Economic Community of Central African States (ECCAS) free trade area, which was initiated in 2004. The economic impact of this free trade area would be large. Economic integration would provide opportunities for growth in productive sectors that could stimulate employment and enable more equitable wealth distribution. These opportunities are even greater in oil-producing countries, since the oil and gas sector is not very labor intensive. For example, in Equatorial Guinea and Gabon, the sector contributes more than...
Macroeconomic reform must include strengthening public expenditure management and mobilizing tax revenues.

Create the fiscal space to finance the High 5s
Countries in the Central Africa region need to pursue macroeconomic consolidation and promote good governance to create the fiscal space needed to finance the AfDB’s top five development objectives (High 5s: light up and power Africa, feed Africa, industrialize Africa, integrate Africa, and improve the quality of life for the people of Africa). (See part II for a discussion of the High 5 priorities as related to the forestry sector.)

To counteract the negative impact on public finances and macroeconomic balance resulting from low commodity prices in recent years, most countries in the region are undertaking stabilization and adjustment measures. CEMAC countries have recently agreed to a framework for action called the Economic and Financial Reform Program (PREF-CEMAC) aimed at reversing the negative trends holding back the region’s economies. Member countries were urged to conclude a budget consolidation and economic recovery program with the IMF based on the PREF-CEMAC.

DRC, though not a CEMAC member, has submitted a request to the IMF to establish a fast credit facility.

Strengthen the quality of public spending for economic recovery
Macroeconomic reform must include strengthening public expenditure management and mobilizing tax revenues to finance investments in priority sectors such as energy, agriculture, and industry; regional integration; and improved living standards. In 2014, crude oil prices plunged more than 50 percent from their pre-crisis level, and the slow recovery in prices since then has highlighted the structural vulnerability of the Central African economies. The heavy dependence on the oil sector is illustrated by the share of oil revenues in the government budget, which rose from a regional average of 16 percent in 1994 to 70 percent in 2008, before dropping to around 60 percent in 2014. For DRC, the steep drop in the price of copper, its key export, in 2015 and 2016 halted its growth momentum; GDP growth dropped from an average of 7.7 percent over 2010–15 to 2.4 percent in 2016.

Before the 2008–09 global financial crisis, economic policies in the region were expansionary, financed by domestic hydrocarbon resources and external debt. While investments in infrastructure are economically justified, ensuring high quality investments is equally important, particularly in high value-added sectors where the quality of previous investments has been poor, such as energy, transport, and information and communication. Focusing on the quality of investments is all the more important in the current climate of lower commodity prices, to improve the efficiency and effectiveness of public expenditure, support economic recovery, and avoid falling back into a new cycle of indebtedness.

Involve the private sector in financing and managing market infrastructures and public services
Public financing of infrastructure is pushing up against fiscal limits. External shocks have reduced fiscal resources and export earnings, exposing countries to a risk of deteriorating debt ratios and higher needs for borrowing. Meanwhile, infrastructure is deteriorating due to a lack of investment in maintenance and the underpricing of infrastructure services stemming from poor public management. New options need to be explored for financing and managing market infrastructure and public utility services, such as public–private partnerships (PPPs), to create budget margins and improve the quality of services. The combined
effects of reduced budget outlays and increased government revenue from royalties and taxes related to PPPs could make room in budgets to invest in enhancing human capital, making growth stronger and more inclusive.

Attracting private sector participation in financing and managing infrastructure and public utility services will require institutional and regulatory reform. The AfDB is offering support to countries in Central Africa to establish national PPP arrangements and strengthen national PPP capabilities through a Regional PPP Hub and offering legal assistance for PPP contract negotiations through its Legal Support Facility.
With an area covering about 2 million square kilometers and an exploitable area representing more than 72 percent of the total forest cover, the Congo Basin has considerable forestry potential. Forest resources, especially wood, are undeniably an opportunity for economic and social development in the six countries in the basin. However, despite the proven comparative advantages of diversity and the high endowment in forest resources, the Congo Basin countries remain highly dependent on oil and mining. In none of the basin countries is the share of the forestry sector in GDP more than 10 percent, except Central African Republic, where it was 13 percent in 2009 (OFAC 2012; FAO 2011); the average for the six countries is 5 percent. Despite the sector’s labor-intensive nature, its contribution to job creation in the basin countries remains modest, at less than 5 percent. As a consequence, the contribution of the sector to economic diversification has been marginal.

**FORESTRY AND THE HIGH 5s**

Responsible management of forests in Central Africa could contribute to the realization of economic, social, and environmental benefits in harmony with the top five development objectives (High 5s) of the AfDB: light up and power Africa, feed Africa, industrialize Africa, integrate Africa, and improve the quality of life for the people of Africa.

**Light up Africa**

Central Africa has abundant biomass resources from agriculture and forestry. Woody biomass is the main source of energy in Sub-Saharan Africa. Some 93 percent of rural households and 58 percent of urban households depend on it in some way. In addition to creating jobs for the poorest people in society, who generally do not have access to formal employment, the woody biomass sector is important to national...
economic growth, and its contribution could easily outpace that of other economic sectors. The economic value of the charcoal industry alone in Sub-Saharan Africa could exceed $12 billion by 2030, employing nearly 12 million people.

Biomass energy is renewable, carbon neutral, and cost effective relative to coal, hydro, wind, and natural gas energy. Biomass power plants could contribute to power generation in Africa and have economic potential in the global energy industry as well.

**Feed Africa**

In addition to wood production, silviculture can improve the food security and nutrition of households in forest-dependent communities in Africa in five important ways:

- Contribute directly to subsistence food production through the richness of forest soils and the harvesting of wild edible plants, nuts, condiments, mushrooms, tubers, leaves, and fruits that are rich in essential nutrients.
- Supply energy, especially for cooking.
- Complement other supplies of animal proteins.
- Generate income and employment.
- Provide ecosystem services (soil fertility, water storage, pollination, windbreak, shelter) that are essential for health and well-being.

In addition to providing wood and forest foods and environmental and ecosystem services, forests contain arable land reserves that can be used for agricultural expansion and infrastructure. The potential for using trees to improve soil fertility and increase agricultural productivity through landscape restoration is substantial in Africa.

**Industrialize Africa**

Both wood and non-wood forest products are potential drivers of industrialization through upstream and downstream linkages, capital accumulation and investment, value added, green growth, and job creation. In addition to forest industries linked to logging concessions in natural forests, private commercial forest plantations operate large industrial complexes in eastern and southern Africa. A large proportion of wood is exported from Africa in the form of logs or primary products. Adding value to timber harvested in tropical forests is an important element of sustainable forest management and can generate many jobs and increase foreign exchange earnings. Forestry offers opportunities for processing raw wood to manufacture doors, windows, furniture, and joinery, which are also an important source of jobs. In addition to expanding the industrial sector, the benefits of value addition related to forest products in Africa include green jobs, food security, income generation, increased export earnings, and improved livelihoods.

**Integrate Africa**

Forest products can be a strategic resource for trade and regional integration in Africa, where some countries are forest-rich and others are not. For example, most African countries that import large amounts of timber from Cameroon, Congo, DRC, and Gabon have less than 10 percent of their lands covered by forests. Some 26 percent of the population live in the 12 least forested countries in Africa, with a total forest cover of about 1.5 percent. Thus, a large part of the African population must meet their timber needs from elsewhere. Côte d’Ivoire, Ghana, and South Africa export their timber products to some 30 other African countries, accounting for 13–30 percent of the share of intra-African timber trade. For countries in Central Africa such as Cameroon, the Central African Republic, DRC, and Gabon, the number of intra-African partner countries and market shares is smaller but nonetheless important. This suggests opportunities for expansion of timber trade for the forest-rich countries in Central Africa.

**Improve the quality of life for the people of Africa**

Forest products and services contribute to the overall well-being of the African people by furnishing income, housing, cultural integrity, biodiversity conservation, sanitation, health services, and ecosystem services (including micro-climates due to shelterbelts, pollination of agricultural crops, watershed protection, and erosion and sedimentation controls). Forest resources also serve as subsistence safety nets, a fallback resource in
Forest products can be a strategic resource for trade and regional integration in Africa.
Gabon and Equatorial Guinea have set minimum processing rates at 100 percent, Congo at 85 percent, and Central African Republic and DRC at 70 percent. Rather than integrating all the ecosystem, economic, environmental, cultural, and social dimensions of sustainable forest management. Consideration of environmental impacts notably involves challenges linked to climate change. If development of the forest wood sector is to be a source of sustainable growth, an upstream vision of the forest centered on the natural and societal good of preservation must be reconciled with a downstream vision centered on the economic uses and enhancement of wood.

Slow progress by Congo Basin countries in developing value-added wood production has led several governments to limit log exports to encourage the domestic processing of wood. Gabon and Equatorial Guinea have set minimum processing rates at 100 percent, Congo at 85 percent, and Central African Republic and DRC at 70 percent. Despite these measures, the sophistication and quantity of wood processing have changed little. Processing capacities remain limited to primary processing (sawing timber, debarking, cutting for plywood and veneer), and most of the processing is done by informal firms and artisanal workers, with very little investment or industrial added value (FAO, ITTO, and ATIBT 2013). The resulting poor quality products are not competitive in international or even regional markets and are sold mainly in local, often informal markets, which results in tax losses as well as forgone opportunities to promote economic and job growth.

**Demand for wood**

With the local market supplied mostly by the artisanal sector, large industrial operators have only a marginal share of domestic markets, with a few notable exceptions, such as the plywood sector in DRC. The regional and continental market in tropical wood from Congo Basin forests is also highly undeveloped. Large industrial companies in the formal wood industry engage mainly in exporting logs and semi-processed products (sawn timber).

The main destinations for timber exports from Congo Basin countries are the European Union and Asia. Asian countries accounted for about 60 percent of export volume in the market for tropical wood (especially sawn timber) from the Congo Basin over 2005–08 and for 70 percent in 2009, and that market should continue to grow (OFAC 2012). Chinese imports of logs and sawn timber fell somewhat in 2012 before recovering in 2013 as sales of commercial buildings, a major engine of demand for millwork and office furniture, increased in 2012 (ITTO 2013). Meanwhile, the European market is tightening as a result of ethical and efficiency constraints linked to the new European Union Timber Regulation, which came into effect in March 2013 and concentrates on a few species.

**Supply of wood**

The large operators dominating wood production in the Congo Basin are mostly industrial companies working with foreign capital. Although the leading companies are still European, Asian corporations are gaining a foothold in the Congo Basin forests. Asia, as both an increasingly powerful investor and an expanding market, can play a leading role in developing wood resources in the Congo Basin.

With international demand likely to continue to grow, especially in Asia, everything on the supply side indicates negligible risk of surplus production of tropical wood from Congo Basin countries in the years ahead. In all the basin countries except DRC, most productive forests have already been allocated to producers, and many have already been exploited or even overexploited. Most of the remaining exploitable forests are located in remote areas, greatly increasing the costs of production and reducing its profitability. Finally, better forest management methods seem likely to reduce the unrestrained production practices of the past.

Despite the positive commercial outlook for the market, the substantial value of the wood, and the progress achieved in sustainable forest management, Congo Basin countries remain small actors in international wood production. Wood produced in Central Africa accounts for less than 3 percent of world topical roundwood production, far behind Asia-Pacific and Latin America (OFAC 2012). Central Africa’s share of processed wood trade is even smaller. Competition may also increase, as numerous large industrial plantations in Asia and Latin America reach maturity and as producers and buyers turn to nontropical species and replacement materials. However, exploitation of the wide...
range of inadequately commercialized secondary species, in which Congo Basin countries have a measurable advantage, especially in regional markets, offers ready opportunities. Investment in modernizing secondary and tertiary processing capacities could generate greater added value and more jobs from existing forest resources and exploit regional demand for quality furniture.

POLICY RECOMMENDATIONS FOR THE FORESTRY AND WOOD SECTOR

Despite rich forestry resources, the sector has had mediocre economic performance and has made only meager contributions to the economic development of Congo Basin countries. This is largely because of upstream and downstream heterogeneity, weak integration, and inadequate infrastructure and coherence between links in the value chain for wood. The sector’s poor upstream integration also impairs environmental performance downstream, particularly related to impacts on climate change.

Improving the sector’s efficiency requires better integrating the sector, to harmonize various upstream and downstream elements. Smooth articulation between upstream and downstream elements of the wood industry is also key to the development challenge of turning the sector into a sustainable source of economic diversification and resilience and of inclusive and equitable green growth.

Achieving these development objectives requires attention to the sector’s components and to the network of relationships connecting them upstream and downstream. Implementation of sustainable management upstream must take into account the importance of green growth downstream (balance among markets and species, niche products for greater competitive advantage and maximized economic and financial profitability). Integration of the various elements in the forest wood sector value chain must also consider social equity and inclusion to ensure that downstream green growth contributes not only to poverty reduction but also to lessening risks of instability and fragility arising from the attempts by clientelist groups to wrest control over the income from these natural resources.

Ensure transparency in procurement transactions

A major difficulty in communication between upstream and downstream actors is that it often occurs in a context where the seller has no knowledge of the final uses of the product. Effective marketing requires adequate data on product specifications. That promotes optimal economic returns for forest product producers (upstream) while taking account of the needs of manufacturers (downstream). These links need to be reinforced in both forest exploitation and the sawn timber industry, in particular through formal contracts that offer greater visibility in the organization of work and purchasing. In order to raise prices and the quality competitiveness of local companies, supply mechanisms for downstream industries, and consequently the valorization of forest potential, will also have to be improved by centralizing management of wood supply, modernizing transactions based on formal contracts, and improving forest infrastructure services.

Any new policy for developing the forestry sector efficiently must meet the needs of all market participants. In particular, downstream actors must be able to protect their markets from information asymmetries that would undermine their economic performance. The need for information is equally important for upstream actors, whose management goals must be based on detailed knowledge of available resources, downstream needs, and market conditions.

Develop local companies for processing and valorizing wood

Long neglected, the artisanal sector is now being recognized as a vital part of forestry development. The artisanal sector is a larger downstream source of direct and indirect local employment than the formal sector, and its benefits are distributed more equally at the local level. The links between international companies, local small and medium-size enterprises (SMEs), and the artisanal sector need to be strengthened. For example, wood drying could be subcontracted to SMEs involved in forest exploitation. More broadly,
governments could establish a program of incentives and other public support to encourage economically profitable, ecologically sustainable, and socially equitable and inclusive integrated management of the forestry sector.

**Introduce participatory planning in the use of land**

Current land tenure systems in Congo Basin countries do not encourage sustainable forestry management. Forests are considered free-access areas that belong to the state. But land legislation in most Congo Basin countries establishes a direct link between promoting forests and recognizing land ownership, thus encouraging people to transform forested land into agricultural land, to gain title. New legislation is needed to disassociate recognition of land ownership from forest clearance. Adopting the principles of participatory planning in the use of land could help maximize economic and environmental goals and reduce problems arising from overlapping land use titles and conflicting land uses. Such a process could identify forest areas for preservation, areas that can co-exist with other uses, and areas that can be exploited. New legislation should be based on sound socioeconomic analysis, close coordination between ministries, and arbitration of land disputes at the highest level.

**Strengthen institutional capacities and governance**

For land development and land reform to bring about real change will require strong institutions for planning, monitoring, and controlling forest resources and forging alliances within a complex political economy. Strong institutions are necessary to prevent illegal activities and to undertake the difficult task of formalizing artisanal wood production, the value chain for fuelwood and charcoal, and artisanal exploitation in critical eco-systems. Public administrations must also have access to new technologies (based on geographic and data management systems) so that information systems and regulations are supported by data. To understand the challenges involved in developing the forest product value chains and to draw maximum benefit from sustainable use of wood resources, Congo Basin governments need a clear understanding of the relationships between transparent and accountable governance and the capacities of forestry institutions, certification of compliance with ethical standards and those of origin, and valorization of products. Dealing appropriately with these issues is particularly important for access to the European market, one of the two main export outlets for Congo Basin countries.

**Emphasize equity and inclusiveness in downstream green growth**

The ultimate goal for developing the wood industry in the Congo Basin is green growth that becomes a downstream source of economic development reducing poverty and lowering the risk of monopolization of benefits by a clientelist minority. Reforms should ensure equity in the distribution of the dividends derived from the exploitation of the sector’s resources, with particular attention to impacts on vulnerable populations living in exploitation areas. A related goal is to avoid conflicts between operators and populations in these areas, such as those experienced in oil and mining exploitation areas in other countries in Africa.

The gap between traditional decision-making processes at the village and community levels and decision-making at the national level can be a serious source of conflict between the central government and local communities. Acknowledgement of the population’s traditional values and expertise can contribute to the sustainable management of Congo Basin forest resources, including conservation of its rich fauna and flora, which may become an income-generating tourist attraction.

Access rights of local populations to natural resources are receiving new attention from Congo Basin governments. Most forestry codes include provisions to increase participation by local populations in planning and implementing commercial exploitation and sharing the benefits. These efforts should be intensified and consolidated. For example, some forest management plans now recognize the usage rights of local populations. Similarly, countries are developing mechanisms for the redistribution of tax revenues from forest concessions to local populations.
Promote intraregional cooperation and coordination

Optimal development of the wood industry requires a regional approach that accounts for the complexity and cross-border characteristics of ecosystems and regional and continental markets. Of the more than $4 billion in wood products imported by African countries, only 10 percent come from other African countries. With a population of more than 1 billion, 400 million of whom live in villages, Africa will have high demand for wood products, especially for house construction. The wood industry could constitute a significant source of skilled jobs. In particular, the growing markets of the large wood-consuming African countries, such as Egypt, Kenya, Morocco, Nigeria, and South Africa, whose standards are less demanding than those of European and Asian markets, offer considerable opportunities for Congo Basin countries to expand their wood production.10

One step in this direction would be to accelerate implementation of the 1999 Yaoundé Declaration signed by the heads of state of the Congo Basin countries. This historic declaration and the Convergence Plan that emerged from it, including the Congo Basin Forest Partnership,11 created a framework for developing common goals in forest conservation and for adopting an integrated and multidimensional regional approach to the development of the wood sector in Congo Basin forests.

Turn the huge carbon reservoir of the basin forest into financial dividends

Because of its large size, the Congo Basin forest is a carbon reservoir of global significance in regulating greenhouse gases. These forests store approximately a quarter of the total carbon sequestered in the world’s tropical forests, thus mitigating the climate impact of greenhouse gas emissions. Congo Basin countries need to identify ways to realize the large financial dividends from this immense ecological capital, beginning with the auctioning of carbon dioxide quotas in the European carbon market, despite the current difficulties in the market. Other sources of inspiration can be found in the exchanges of experience and recommendations of the 6th Africa Carbon Forum, in Windhoek in July 2014, co-sponsored by the AfDB, with the goal of identifying ways of supporting Africa’s participation in the global carbon market and other opportunities for green investment.
APPENDIX 1.
METHODOLOGY FOR EMPLOYMENT ELASTICITY ESTIMATE

The primary concern in our modeling process is the sustainability of job creation, as expressed by the degree of persistence of employment over the years. Hence, assuming that all the dynamics could be captured by the first lag, then AR (1) would be specified as:

\[ L\text{emp}_t = \Phi L\text{emp}_{t-1} + \alpha i + \epsilon_t \]

In effect, many more exogenous factors condition the evolution of employment in Africa. For instance, external demand could be taken as a substitute for domestic demand. Indeed, it is often stated that low domestic demand occurs as a result of declining job opportunities in a given economy (Saget 2000). And a strong international demand could be an important source of job creation. More specifically, openness could offer opportunities for expanding domestic employment, while FDI creates potential sources of job creation. That is especially the case when FDI includes considerable productive investment.

Another important source of employment creation is the financial system, as clearly pointed out in relevant economic literature. The system’s specific channels are credits made available to the private sector. More specifically, if the efficiency of financial institutions could be guaranteed, they would contribute greatly to the development of productive capacities in general and to employment creation in particular. Following Kamgnia (2009), by using trade index as openness trade and domestic credit of private sector (percent GDP) as exogenous variables with the Log of real GDP our interest variable, we estimate this equation:

\[ L\text{emp}_t = \sum_j \Phi_j L\text{emp}_{t-j} + \sum_j \delta_j \text{gdp}_{t-j} + \sum_j \beta_j \text{trade}_{t-j} + \sum_j \gamma_j \text{dcps}_{t-j} + \alpha i + \epsilon_t \]

We use Arellano and Bond’s (1991) method and estimate for 41 African countries (full sample) over 2008–14, dummy of Central African countries is used to estimate just in the local sample of Central Africa. Countries in the full sample are: Algeria, Benin, Botswana, Burkina Faso, Burundi, Cape Verde, Cameroon, Central African Republic, Chad, Comoros, Congo, Côte d’Ivoire, Democratic Republic of Congo, Egypt, Equatorial Guinea, Gabon, Gambia, Ghana, Guinea, Kenya, Lesotho, Liberia, Madagascar, Malawi, Mali, Morocco, Mozambique, Namibia, Niger, Nigeria, Rwanda, São Tomé and Príncipe, Senegal, Sierra Leone, South Africa, Swaziland, Tanzania, Togo, Tunisia, Uganda, Zambia.

The employment variable comes from the International Labour Organization database; the others come from World Bank (2017).

Short term elasticity = \( \delta_0 \)

Long term elasticity = \( \frac{\sum_i \delta_i}{1 - \sum_i \delta_i} \)
NOTES

1. Such a broad definition clearly oversimplifies the economic reality. Agriculture can be high-productivity and high-tech thanks to precision farming, automation, and genetic engineering. Similarly, informal manufacturers or traders can have low productivity and skills, keeping them small and inefficient.

2. Employment data for Africa tend not to include the informal sector.


4. For a number of years, the industry leader has been the French Rougier Group, which in 2010 completed the development of almost 2 million hectares of concessions. Other European companies include IFB (France), CEB Precious Wood (Switzerland), SOFORMA Group (Portugal), and Pallisco (France). The next three largest groups, all from Asia, are Vicwood (China), Taman and Rimbunan Hijau (Malaysia), and the Olam Group (Singapore), which has just purchased Timber International from the DLH group (with forest and industrial assets in the Republic of the Congo and Gabon). Sources: Karsenty 2016; OFAC (Observatoire des Forêts d’Afrique Centrale) and SEPBG (Société d’exploitation des parcs à bois du Gabon).

5. While this will reduce the areas that can really be exploited, it will also limit the volume that can be extracted per hectare by increasing the minimum felling diameter and protecting seed-tree reserves and certain endemic species.

6. In Cameroon and Congo, informal wood production already surpasses formal production; in Congo, it represents over 30 percent of total national production (Lescuyer et al. 2012).

7. The Action Plan for the European Union’s Forest Law Enforcement, Governance, and Trade (FLEGT) prohibits the sale of illegally harvested wood in the EU market and requires operators to show proof of due diligence when placing forest products on the market. Furthermore, the Voluntary Partnership Agreements (VPAs) negotiated between the EU and producer countries (in the context of FLEGT) require that the supply of wood be from legal harvesting.

8. Unlike the still-underdeveloped ecotourism industry, hunting tourism in forests manages to reconcile and accommodate the requirements of economic development with the goals of biodiversity conservation.

9. Successful win-win partnerships between operators and communities in other African countries where natural resources are exploited could serve as models, such as the support program village communities in the bauxite and gold exploitation areas in Guinea.

10. A preliminary analysis of trends in the demand for wood and wood products and market opportunities in consumer countries could be carried out, to be expanded in the context of future studies.

11. The United States, South Africa, and 27 public and private partners launched the Congo Basin Forest Partnership in September 2002 during the Earth Summit on Sustainable Development held in Johannesburg.

REFERENCES


This *Central Africa Economic Outlook* analyzes the recent economic situation and prospects for the region. Part I focuses on the evolution of key macroeconomic indicators, including GDP growth, inflation, fiscal and current account balances, terms of trade, employment, and inequality. It also assesses short- and medium-term economic prospects based on key economic fundamentals, including structural and policy factors. In addition, it investigates employment generation, looking in particular at whether growth has created jobs and reduced poverty and inequality.

Part II focuses on development of the huge forest and timber resources in the Congo Basin, which could be an important driver of diversification, economic resilience, and green growth for the six countries in the basin. Inclusive and sustainable development of the sector can also reduce the vulnerability to external shocks linked to commodity price volatility that results from Central African countries’ heavy reliance on nonrenewable oil and mineral resources.