

Trade



► KEY MESSAGES

- **Trade can play two crucial roles in supporting Africa's efforts to adapt to a changing climate.** In the short term, trade cushions the volatility of food markets by providing a vital flow of supplies to regions that may see a sudden reduction in domestic production of food crops due to a climate shock. Over time, trade enables producers and consumers to adapt to changes in comparative advantage, thereby helping the transformation of Africa's agricultural sector and the diversification of its broader economy.
- **International trade can also help create jobs and raise incomes, which strengthen households' resilience, not least by enhancing their ability to purchase food.** As many African countries are expected to become more heavily food-import dependent, increased trade in other sectors (including services, manufacturing, and other primary sectors) can help finance these food imports.



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- **Trade across African regions, underpinned by open and transparent trade policies as well as well-performing and climate-proof infrastructure (ports, roads, railroads), can contribute positively to Africa's efforts to build resilience to climate change.** The adaptation effect of trade is strongest for hunger-affected and import-dependent regions such as Sub-Saharan Africa, as trade reduces agricultural prices and increases food availability.
- **Africa is pursuing largely disjointed trade and climate adaptation policies and strategies.** One glaring example of this is the absence of any reference to climate change or the environment in the African Continental Free Trade Area (AfCFTA) agreement established in March 2018 and effective from 1 January 2021. Many African countries may be foregoing significant opportunities to bolster their climate adaptation strategies through proactive, forward-looking trade policies.

INTRODUCTION

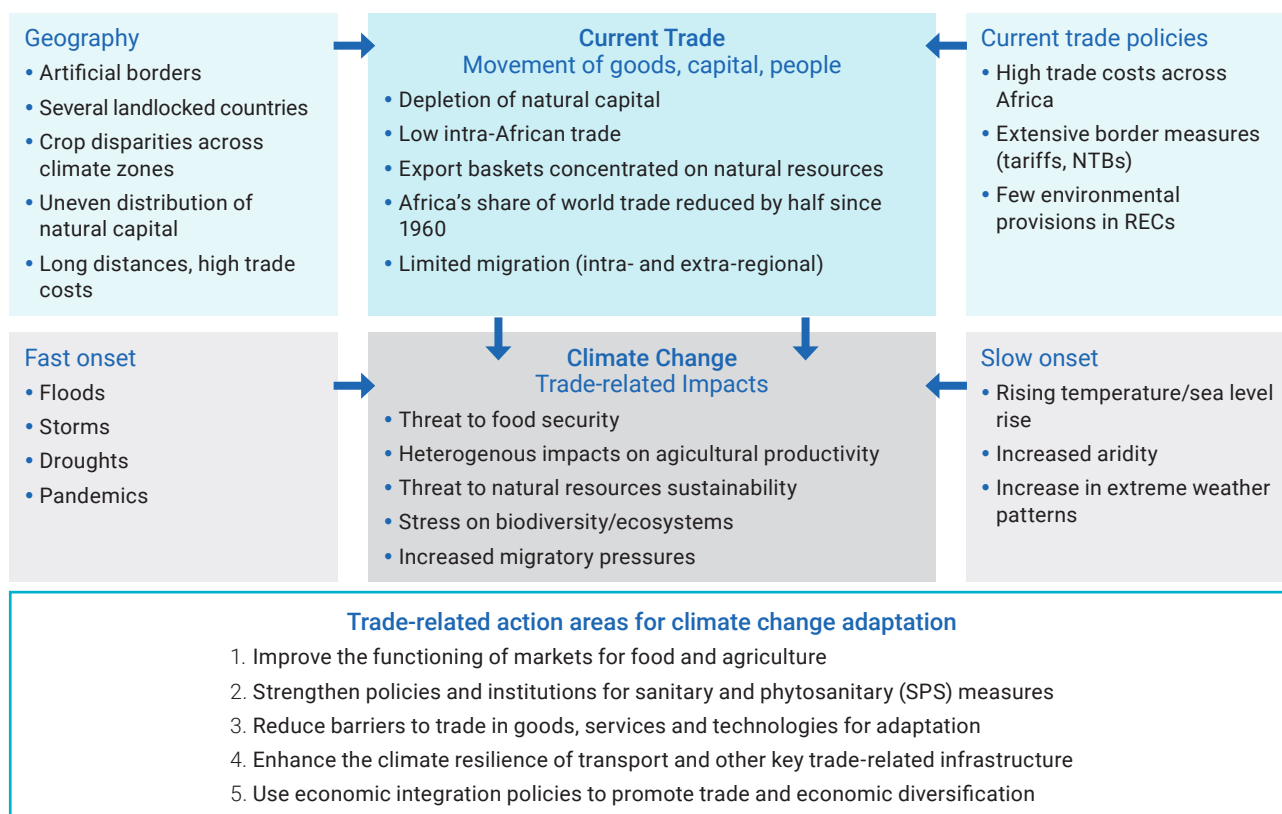
Africa's trade in goods and services has gradually increased over the last 15 years. Nonetheless, its share in global trade has remained relatively constant at about three percent. Even in the absence of climate change, the challenge of enabling a growing population to escape poverty is a formidable task for the many countries across the continent, which continues to have close to zero adjusted net savings per capita.¹ Embarking on a sustainable development path remains a huge challenge.

Key drivers of this outcome are indicated in Figure 1. Trade is vital for many African countries with limited domestic markets. However, Africa's geography, characterized by long distances to markets, many landlocked economies, and low population densities across climate zones, constitutes a powerful barrier to trade. Furthermore, restrictive border measures, including informal ones like road checks, have contributed to high trade costs. Measures to protect the environment are largely absent in the Regional Economic Communities (RECs) along which continental integration is taking place.

Intra-African merchandise exports have grown over the last 15 years, but they still account for only 15 percent of total African exports. Goods export baskets remain highly concentrated in primary products. Over half of the region's merchandise exports are estimated to be fuel and mining products; about a quarter of them, manufactured goods; and 15 percent, agricultural products. Limited migration so far is another characteristic of Africa's current position in global trade.

Figure 1 also sketches the trade-related impacts resulting from selected slow and fast onset components of climate change.² Slow-onset events include a rise in average temperatures (and associated sea level rise) that will be accompanied by increased aridity. Notwithstanding this general trend, local variability implies that some regions may become wetter and cooler. A modification in local climate conditions will shift precipitation patterns, temperature, and the overall seasonality of weather events. Climate change is also expected to alter the natural ranges of pests and diseases, and to disrupt the "predator-prey" relationships that normally keep pest populations in check. In terms of fast-onset

Figure 1: The climate change challenge to African trade



Source: Authors

events, the occurrence of extreme events such as heat waves and torrential rains is expected to continue to increase as it has in the recent past.³ While slow and fast-onset shocks will have mostly negative impacts on Africa, they can be dampened by trade and by changes in trade policies, the focus of this chapter.

As discussed in the Agriculture and Food Systems chapter, for Africa, the threat to food security will be paramount.⁴ Africa is the region with the largest share of hungry people among the population. About one in five people (21 percent of the population) was facing hunger in Africa in 2020, more than double the proportion of any other region.⁵ Climate change is expected to have implications for both rural and urban populations and may have differing effects on the food security of different types of actors in rural areas, depending for example on the extent to which the source of their livelihoods is exposed to the impacts of climate change. Yet close to 60 percent of Sub-Saharan Africa's population lives in rural areas, with many engaged in subsistence agriculture, while close to 10 percent of the rural population lives in remote less-favored agricultural land or on remote land with poor market access (lack of roads, railways, navigable waterways). These factors complicate any prospective role for trade in agricultural goods to alleviate the threat to food security in rural areas unless there is a substantial improvement in trade-related infrastructure.

The role of trade in adaptation to climate change is complicated by an additional factor. While Africa is endowed with abundant natural resources (renewable like forests, and non-renewable like subsoil), property rights for these resources tend to be poorly defined, making them vulnerable to 'tragedy of the commons' outcomes prone to be exacerbated by international trade. Threats to biodiversity, already present, will increase. Here, under weak environmental governance, increased international trade presents a challenge.

Figure 1 also lists five trade-related action areas for climate change adaptation which are discussed in the fourth section. This chapter focuses on evidence about the role of trade policies to support climate adaptation efforts with a focus on the agricultural sector.

TRADE FOSTERS RESILIENCE BY LIMITING AFRICA'S SENSITIVITY TO GROWING EXTREME EVENTS

This section discusses the channels through which trade can attenuate the effects of fast-onset climate shocks (such as droughts and floods), whose frequency and intensity are expected to increase over time due to climate change (for more details, see the chapter on Present and Projected Climates in Africa. Past and current examples show how trade helped cushion the impact of extreme weather events (the arrival of the railroad in colonial India and the 2015–16 Southern African drought) and global crises (the 2008 food crisis and the COVID-19 pandemic) but also how uncoordinated policies amplified the shocks.

Climate change in Africa is a multi-sectoral threat: to agriculture, tourism, trade infrastructure (ports and other trade-related infrastructure) and coastal communities, especially urban ones. Here we focus on the impacts of climate shocks on the agricultural sector. The specific details of climate impacts on agricultural production and possible adaptation solutions are discussed in the Agriculture and Food Systems chapter.

As discussed in the Present and Projected Climates in Africa chapter, the distribution of hazards differs across regions and is expected to do so in the future. Trade across African regions, underpinned by open and transparent trade policies as well as well-performing and climate-proof infrastructure (ports, roads, railroads), can contribute positively to Africa's efforts to build resilience to climate change.

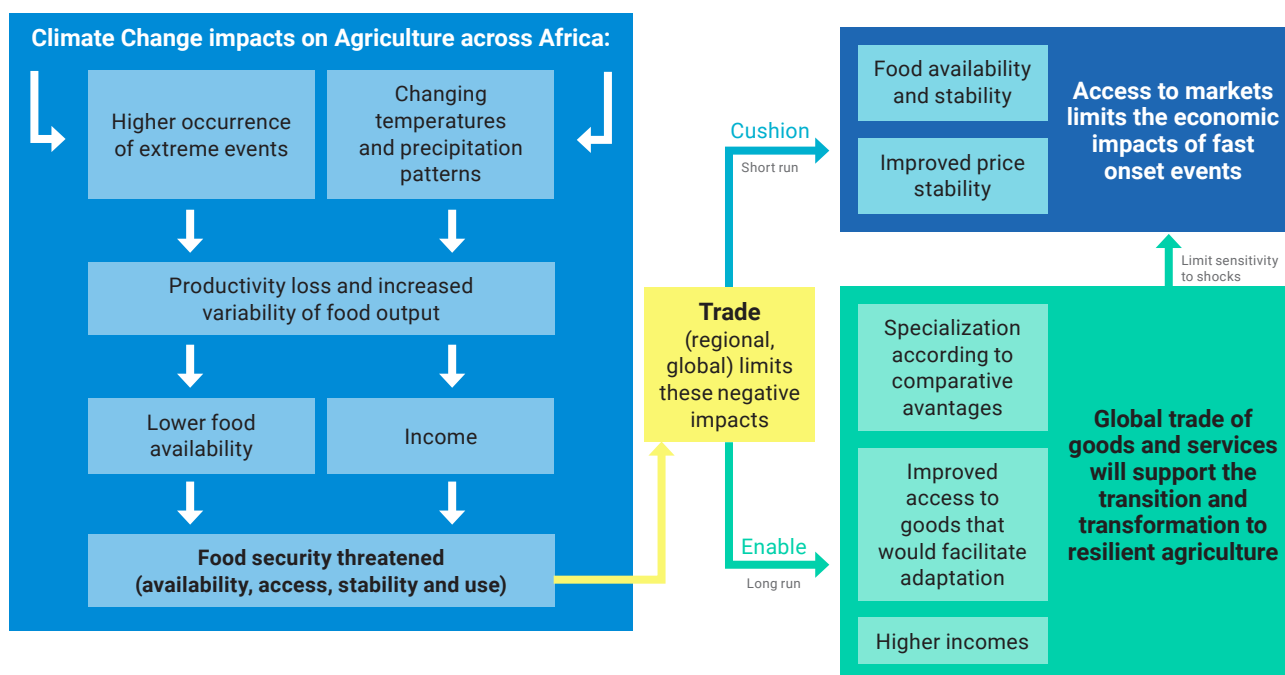


International trade and supply chains must be an integral part of our efforts to build climate resilience. Mainstreaming trade into climate adaptation strategies will lower the cost of adaptation while ensuring that countries can continue to use trade as a driver of development and poverty reduction.”

Ngozi Okonjo-Iweala, Director-General, World Trade Organization

High-Level Dialogue “An adaptation acceleration imperative for COP26”, September, 2021

Figure 2: Agriculture as cushion and enabler in developing resilience to climate change



Connections between climate change, food security, and trade

The adaptive capacity of populations in rural Africa, where poverty is greatest, is low. Extreme events will disproportionately affect poor populations in remote, arid and semi-arid areas.⁶ For example, when a cyclone, flood, or drought hit Mozambique, per capita food consumption dropped by up to 30 percent—about 0.4 fewer meals per day per person.⁷ In Zambia, the drought that accompanied the 2015–16 El Niño season decreased affected households’ maize yields by about 20 percent and their income by up to 37 percent.⁸ More broadly, the adverse impacts of natural disasters tend to disproportionately affect vulnerable groups of society: the poor and marginalized; women; and micro, small and medium-sized enterprises, many concentrated in rural areas.⁹

Climate change is projected to negatively impact the four pillars of food security—availability (e.g., through reduced yields on crop and livestock), access (e.g., through higher prices), utilization (e.g., through impacts on food safety due to increased prevalence of microorganisms and toxins) and stability (e.g., through increased frequency and severity of weather events).¹⁰

Figure 2 illustrates the channels through which climate change affects food security, and how trade contributes to adaptation. Specifically, trade can play two crucial roles in supporting Africa’s food systems in the context of a changing climate. In the short run, trade cushions the volatility of food markets by providing a vital flow of supplies to regions that may see a sudden reduction in domestic production of food crops due to a climate shock. In the long run, the effects of a changing climate, along with ongoing urbanization, call for changes in crop and livestock patterns. Trade enables changes in comparative advantage, thereby helping the transformation of Africa’s agricultural sector and broader economic diversification.

More broadly, international trade can also help create jobs and raise incomes, which strengthens individuals’ resilience, not least by enhancing poor people’s ability to purchase food. As many African countries are expected to become more heavily food-import dependent, increased trade in other sectors (including services, manufacturing, and other primary sectors) can help finance these food imports. The remainder of this section reviews evidence on trade and trade policy in fast-onset events from past and current episodes.



Evidence on food security under droughts and global crises: evidence from the past

A landmark historical example of the power of trade to alleviate food insecurity comes from the arrival of the railroad in colonial India. This example also serves to underscore the importance of hard infrastructure (ports, railroads, roads) to allow trade to cushion the effects of disaster events. Specifically, a study by Burgess and Donaldson (2010) showed that productivity shocks in the form of rainfall shortages—estimated to have caused between 15 and 30 million deaths during the period 1875–1919—almost entirely disappeared with the arrival of the railroad in colonial India.¹¹ The arrival of the railroad also significantly reduced the exposure of agricultural prices and real incomes to rainfall shocks.¹²

To play an essential role in supporting food security, trade must be underpinned by open, transparent and predictable policies that improve how food markets function, not least by allocating resources more equitably and sustainably. The role of trade policy in two recent examples of shocks to the food system is further discussed.



Photo: Kostenyukova Nataliya/Shutterstock

Food security under droughts: the Southern African drought of 2015–16

Box 1 illustrates the changes in trade patterns and policy reactions during the acute 2015–16 drought in Southern Africa. The region switched from being a net food exporter to being a net food importer. Policy responses to help consumers included the lowering of barriers on food imports. For cattle herders and farmers, policies included increases in support to key inputs and the temporary removal of the export ban on live cattle in Botswana, which aggravated the situation of cattle herders in other countries in the region.

The example in Box 1 shows how policy reactions to large shocks generate strong spillovers that require collective action to be controlled. This was also the case with the global crisis of 2008 and the COVID-19 pandemic.

Price hikes during global crises: the 2008 food crisis and the COVID-19 pandemic

During the 2006–08 food crisis, the major exporters of rice and wheat restricted exports. Export restrictions on medical equipment were enforced during the early phases of the COVID-19 crisis, and of vaccines more recently. Both episodes harmed African countries and illustrate the need for collective action to dampen global shocks. For example, the insulating behavior adopted by major exporters is estimated to have been responsible for 45 percent of the price increase of rice and 30 percent of the price increase of wheat contributing to the price hikes during 2006–08.¹³

Compared with the 2008 food crisis, export restrictions during the Covid-19 pandemic were short-lived and less pervasive. The affected goods only accounted for 5 percent of the world market of calories, down from 18 percent during the 2008 global food crisis. Critically, restrictions were short-lived, as most of them had been lifted or had expired by the end of April 2020. Major exporters of rice in ASEAN quickly removed restrictions on rice exports. These measures helped to prevent the pandemic from triggering a more far-reaching food crisis. Simulations show that an export ban on rice and wheat during 2020 (accompanied by relief in importing countries via a reduction in import tariffs of 25 percentage points) would have raised the average world price of these cereals by over 10 percent, resulting in an increase of 5 million at risk of hunger in Sub-Saharan Africa.¹⁴

The COVID-19 crisis also illustrates the importance of cooperation. Faced with a fall in the availability of essential goods (medical supplies, but also food) in international markets, some countries have tried to secure these goods by reducing import barriers while simultaneously restricting exports.¹⁵ Global level estimates by Espitia et al. (2020) for food suggest that uncooperative trade policies could have multiplied the initial COVID-19 shock on trade by a factor of 3, with food-dependent low-income countries in Africa hit hardest.¹⁶ Fortunately, many import-restrictive measures in the agricultural sector were short-lived.¹⁷

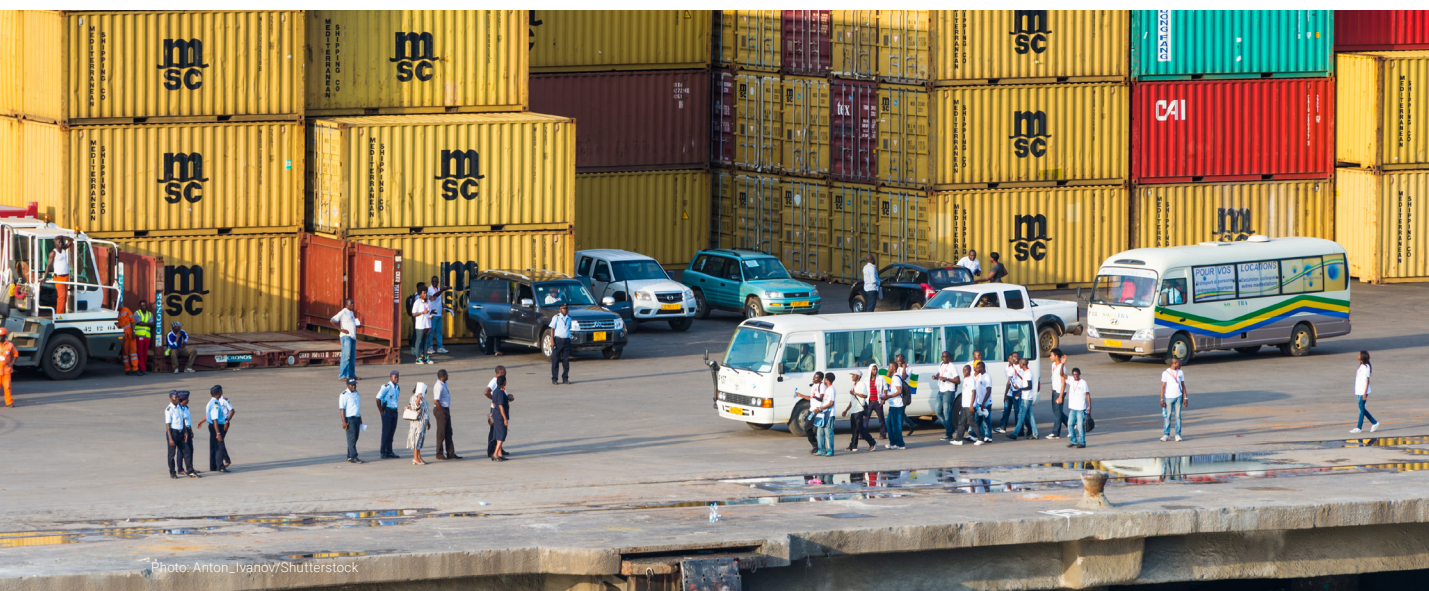
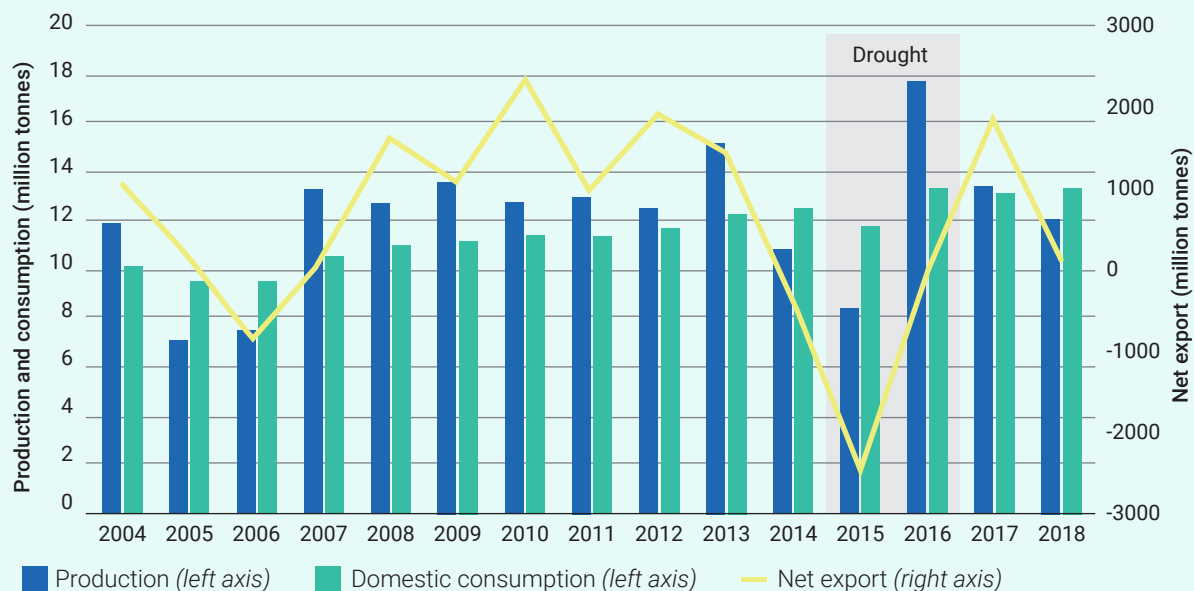


Photo: Anton Ivanov/Shutterstock

Box 1: Agriculture during the Southern African Drought 2015–16

Southern Africa's maize imports rose as domestic output fell during the 2015-2016 drought



Source: Hepburn et al. (2021)
 Note: Southern Africa includes Botswana, Eswatini, Lesotho, Namibia, and South Africa.

Droughts in Africa affect more people than any other natural hazard, especially the poor. With 43 percent of its area classified as arid, Southern Africa was particularly hard-hit by the 2015–16 El Niño-induced drought. At least 11 million people required urgent assistance as the decline in food production brought food insecurity, malnourishment, and stunting, affecting 30 percent of all children. Deficits in staple crops like maize (30 percent of caloric intake) forced poor pastoral households to purchase imported maize (see figure), the price of which had increased sharply because of the drought-induced currency depreciation. Nonetheless, sufficiently developed infrastructure allowed trade to help cushion the drought shock. Import restrictions on maize were lifted, improving food availability on domestic markets and attenuating price hikes.

The drought also sharply affected livestock, which is estimated to account for 35 percent of African agriculture. Government support relief packages included support for livestock feed and support for

crop production inputs such as improved seeds, fertilizers, and farming implements. For example, in Botswana, the government doubled its subsidies to livestock feed to 50 percent and the export of live cattle was allowed to avoid cattle mortality. This put further pressure on struggling farmers in South Africa.

This episode shows that easing restrictions on food imports is an important policy response that governments can use to help consumers respond to sudden shortages by improving the availability of food on domestic markets and helping to attenuate sudden price spikes. Governments also need the flexibility to be able to temporarily increase support to producers when a shock occurs. In the longer run, governments need to support the provision of national and regional public goods like research for more resilient plant varieties to help boost yields sustainably, and early warning systems to better inform about extreme weather events (and other disasters like locust invasions).



Lessons from fast-onset events

Historical and contemporary evidence shows that in the short run, trade reduces the amplitude of a drought by moving food from places that have a food surplus to places that have a food deficit. In the case of the Southern African drought of 2015–16, the lifting of import restrictions led to an increase in maize imports, which helped poor consumers meet their food security needs. Historical evidence from colonial India also illustrates the key role of hard infrastructure in allowing trade to cushion the impact of rain shortfalls. However, policy responses to large contemporary shocks have sometimes increased the amplitude of a shock and undermined the role of

international trade in matching supply and demand. During the Southern African drought of 2015–16, policies had spillover effects in neighboring countries. During the 2007–09 financial and economic crisis, export restrictions by major crop exporters amplified the shock. Similarly, during the COVID-19 pandemic, faced with a fall in the availability of essential goods (medical supplies, but also food) in international markets, some countries tried to secure these goods by reducing import barriers while simultaneously restricting exports. Collective action and policy coordination are essential to increase countries' resilience to shocks and avoid negative spillovers.

TRADE AS AN ADJUSTMENT MECHANISM TO CLIMATE-INDUCED REDUCTIONS IN CROP YIELDS

The slow onset of climate change is projected to harm agricultural production by reducing the yields of crops such as maize, rice, wheat, and others. Sub-Saharan Africa is expected to be the world's most severely affected region, with average crop yields estimated to decrease by 40 percent by 2080.¹⁸

Using spatial data on climate-induced reductions in crop yields, a number of recent studies have analyzed the related economic and social impacts, pointing to the importance of trade as an adaptation mechanism to climate change, alongside adjustments in production and urbanization.

As climate change has different impacts on crop yields within and across countries, this changes comparative advantage patterns in the production of crops. Related adjustments in production and trade can contribute to reducing welfare losses from climate change. A recent study shows that production adjustments in line with changed comparative advantage can substantially mitigate the negative effects of climate change.¹⁹

Gouel and Laborde (2021) estimate that climate-induced changes in crop yields could reduce welfare globally by one percent.²⁰ Adjustments in trade patterns and the choice of crop production contribute to reducing global welfare losses by 23 percent and 37 percent, respectively. In the case of trade, the ability to adjust import sources plays an important role in adapting to climate change. However, it is important to note that the impact of climate change differs substantially across countries. Net-food-importing tropical countries are severely harmed by negative productivity shocks and increased global food prices, while countries exporting agricultural products tend to gain thanks to improved terms of trade. Sub-Saharan Africa is estimated to experience an average welfare loss of around 6.5 percent, the largest among all regions, due to large decreases in potential yields on some key African crops such as cocoa and tropical roots, its dependence on food imports, as well as the high importance of agriculture for its economies.

Studies have also pointed to the important role played by trade in preventing hunger. One study estimates that under the current level of trade integration, climate change could add up to 55 million people globally who suffer from hunger by 2050.²¹ The phasing out of agricultural tariffs, and other such trade-facilitating measures, could reduce the impact of climate change on undernourishment by 64 percent, which would correspond to around 35 million people not suffering from hunger because of climate change. The adaptation effect of trade is strongest for hunger-affected and import-dependent regions such as Sub-Saharan Africa as trade reduces agricultural prices and increases food availability. One study estimates that increases in global crop prices could raise malnutrition among households not employed in the farm sector by around 45 percent globally in a less integrated world economy, compared with a rise of less than 30 percent in a more integrated world where the most affected regions are able to import food from regions where climate change impacts are relatively less severe.²²

Besides production and trade, labor mobility within and across countries is a third adjustment mechanism to climate change. A recent study estimates that climate-induced changes in crop yields could displace 12 percent of the population in Sub-Saharan Africa and reduce real GDP by 4 percent.²³ Lower trade frictions would strengthen agglomeration effects and lead to greater sectoral specialization between locations, reducing economic losses from climate change and fostering structural transformation in Africa through increased urbanization.



Let's join hands in partnerships, in working together and addressing the calamities and challenges of the pandemic, but also the issue of adaptation to the changing climate."

H.E. Prime Minister Abdalla Hamdok of Sudan

Leader's Dialogue on the Africa Covid-Climate Emergency, April, 2021



Photo: Fredy Thuerig/Shutterstock

POLICY RECOMMENDATIONS

International trade in goods and services can help lower the cost of climate adaptation in the short term and promote economic and export diversification in the long term. In addition to helping countries adapt to the impacts of extreme climate events and changing climate conditions, trade also strengthens countries' resilience to climate change by fostering economic growth and reducing poverty.²⁴ Yet, trade considerations have been largely absent from the adaptation components contained in countries' Nationally Determined Contributions (NDCs) under the 2015 Paris Agreement, let alone the National Adaptation Plans produced to date.

Africa is no exception in pursuing largely disjointed trade and climate adaptation policies and strategies. One glaring example of this is the absence of any reference to climate change or the environment in

the African Continental Free Trade Area (AfCFTA) agreement established in March 2018 and effective from 1 January 2021. As a result, many African countries may be foregoing significant opportunities to bolster their climate adaptation strategies through proactive, forward-looking trade policies. In some cases, the pursuit of trade policies that are not aligned with the urgent need to adapt to a changing climate may even be undermining African countries' climate adaptation efforts.

The following action areas offer opportunities to help integrate trade and climate adaptation policies in Africa and ensure that international trade can support the continent's climate adaptation and economic diversification strategies. Integrating trade and climate adaptation policies calls for action by African countries, both at national and regional levels, along with action by all WTO members.

- **Improve the functioning of markets for food and agriculture:** In an interconnected global economy where global value chains span national boundaries, policy action, including in response to climate shocks, can affect producers and consumers in other countries. Governments should ensure that policies adopted in response to climate shocks do not undermine the competitiveness and resilience of food producers and consumers in other jurisdictions, while still achieving better climate and development outcomes. For example, governments that subsidize their farm sectors can seek to repurpose support in ways that improve delivery of public goods, and which minimize impacts on trade and markets. Major trading economies can usefully reform restrictions on food exports and imports to address objectives around food security and farm livelihoods both at home and abroad—for example, by ensuring that policies foster fair competition, help boost productivity and raise rural incomes, and contribute to climate mitigation and adaptation. Many types of policies that boost productivity sustainably are allowed without limits under WTO rules, such as farmer extension and advisory services, research, rural infrastructure, or pest and disease control. Governments can use these programs to redress historic underinvestment in the farm sector and improve resilience to future shocks.

- Strengthen policies and institutions for sanitary and phytosanitary (SPS) measures:** As intra- and extra-regional trade in agricultural commodities is likely to increase with climate change, regulatory bodies that set SPS measures will have to be strengthened to deliver safe trade at least cost. This will be particularly critical in the face of new challenges brought about by climate change. Increasing temperatures, changing rainfall patterns and more frequent extreme weather events are expected to change the natural ranges of pests and diseases and disrupt the “predator-prey” relationships that normally keep pest populations in check. Sound SPS policies and institutions are a prerequisite for safe and efficient trade. Countries that are unable to provide traceability in the value chain and the necessary trading infrastructure such as certification and inspection services to ensure that their products meet SPS and other requirements may be excluded from markets overseas. The same challenges apply to trade in agricultural products within Africa. The Standards and Trade Development Facility (STDF) is a global partnership between the WTO and other international organizations that is helping African countries meet some of these challenges.

- Reduce barriers to trade on goods, services, and technologies for adaptation:** Open and transparent trade policies are an integral part of a broader strategy to access high quality and low-cost goods and services that are essential to help the agricultural and other economic sectors to adapt to climate change. Examples of such goods and services include stress-tolerant cultivars, pesticides for weed control, early warning systems, equipment for renewable off-grid power generation, irrigation technology and related engineering and technical services, as well as agricultural extension services. Additional policy efforts—by African countries individually and by WTO members collectively—to reduce remaining tariffs and other trade barriers and facilitate trade could further enhance supply chains for climate adaptation goods and services, reduce costs, and accelerate the dissemination and deployment of climate adaptation technologies around the world.

For Africa specifically, eliminating barriers to trade in adaptation goods and services would significantly reduce the cost of acquiring efficient, innovative, and competitive inputs that are critical to carry out countries’ adaptation priorities.²⁵ Take import tariffs. In the case of lower and lower-middle income African countries, import tariffs on an illustrative list of 56 goods relevant to adaptation averaged close to 10 percent.²⁶ For specific goods, tariffs can be as high as 50 percent in some African countries. A group of WTO members is considering ways to advance work on liberalizing trade in environmental goods and services based on past efforts in this area, including the negotiations towards an Environmental Goods Agreement which were suspended in 2016.



Photo: SAPHotog/Shutterstock

- **Enhance the climate resilience of transport and other key trade-related infrastructure:** As discussed in the Transport and Energy chapter, climate change is projected to take a particularly heavy toll on the road system. To cope with heat and rainfall extremes, Africa will require substantial investment in transport as well as energy and communications infrastructure over the next few decades. To ensure spending on trade-related infrastructure delivers the best possible return and brings lasting development benefits, it is critical that investment plans consider the consequences of a changing climate. This calls for better understanding of risks and vulnerabilities, availability of more tailored data and information, as well as the development of guidance, standards, best practices, methodologies, and other tools in support of climate-proof infrastructure investment.

The WTO-led Aid for Trade initiative, launched in 2005, can help mobilize investment in climate-resilient infrastructure. Aid for Trade aims to help developing countries, particularly LDCs, build the supply-side capacity and trade-related infrastructure that they need to implement and benefit from WTO agreements and more broadly to expand their trade. Since its launch in 2005, the Aid for Trade initiative has helped mobilize investments for building climate-resilient infrastructure. Aid for trade to build energy, transport and telecommunications infrastructure amounted to US\$ 25 billion in 2019, representing 55 percent of overall aid for trade disbursements.²⁷

- **Use economic integration policies to promote trade and economic diversification to reduce reliance on sectors that are highly exposed and vulnerable to climate change:** The proliferation of regional and global value chains has important implications for African countries and their ability to diversify their economies. Value chains provide an opportunity for African countries to integrate into global and regional markets by exporting just one part or component of a product, instead of having to develop the industrial base required to manufacture the entire finished product from scratch.

Africa's participation in regional and global value chains is determined by factor endowments, geography, market size and institutions. But these fundamentals alone need not determine patterns of specialization across countries. To remedy the scarcity of capital, technology, and management skills needed to develop new economic activities, African countries should improve policies to attract foreign direct investment. To free domestic enterprises from the limits of domestic demand and local inputs and improve their access to new and expanding regional and global markets, governments should adopt trade facilitating and trade opening policies at home and negotiate better market access conditions abroad. Improving connectivity through transportation and communications infrastructure and introducing competition in these services can help African countries overcome remoteness or the disadvantage of being landlocked. Implementation of the AfCFTA offers opportunities to further develop regional value chains, including in more climate-resilient agricultural and manufacturing sectors. And participating in deep integration agreements can be a catalyst for institutional reform, especially when complemented by technical and financial assistance.²⁸

The Aid for Trade initiative focuses on economic diversification as being key to development and can therefore play a supportive role in helping African countries create an enabling environment to diversify their economies. In the context of the Aid for Trade monitoring exercise conducted in 2019, 97 percent of African respondents pointed to economic diversification as a priority.²⁹ African countries also recorded the highest share of responses saying they had seen progress in economic diversification since the launch of the Aid for Trade initiative.

In summary, African countries and their agricultural sectors are among the most at risk from the impacts of climate change. International trade in goods and services can help lower the cost of climate adaptation in the short term and promote economic and export diversification to reduce their reliance on vulnerable sectors in the long term.

To fully capture the potential benefits of international trade for climate adaptation, governments must work with individuals, SMEs, corporations, financial actors, and civil society to put in place trade policies that are fully aligned with, and supportive of, climate adaptation strategies and policies. Five action areas offer opportunities to do this: (i) improve the functioning of markets for food and agriculture; (ii) strengthen policies and institutions for sanitary and phytosanitary measures; (iii) reduce barriers to trade in adaptation goods and services; (iv) enhance the climate resilience of transport and other key trade-related infrastructure; and (v) use economic integration policies to promote economic diversification. Each area of opportunity can and should be tailored to the specific circumstances of African countries and to specific forms of participation in the regional and global economies.



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