

Corridor-Based Development in Tanzania and Africa: An Expert Analysis of Economic, Infrastructure, Agricultural, and Wildlife Initiatives

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I. The Landscape of Corridor Development in Africa

A. Defining Development Corridors: Concepts, Evolution, and Typologies

Development corridors represent a significant and increasingly prevalent strategy in Africa's pursuit of economic transformation and regional integration. At its core, a development corridor is a geographical area designated as a priority for investment, primarily to catalyze economic growth and development, often through the establishment of substantial infrastructure projects such as railways, roads, or pipelines.¹ However, the concept has evolved beyond mere transport routes to signify areas with a concentrated presence of economic activity or explicit policy initiatives designed to leverage transport infrastructure for broader developmental aims.² This evolution marks a shift from viewing corridors as simple logistical channels to understanding them as complex socio-economic and spatial development tools.

The historical antecedents of development corridors in Africa can be traced to colonial-era routes, which predominantly connected inland resource-rich areas to coastal ports for export.³ In the post-colonial and particularly the post-apartheid era, the concept gained new traction, with initiatives like the 'African Development Corridors' launched in South Africa signaling a more deliberate focus on regional development and integration.³

The contemporary landscape of corridor development in Africa is characterized by a diversity of typologies, each with distinct objectives, components, and implications:

- **Economic Corridors:** These are conceived as integrated networks of infrastructure within a defined geographical expanse, designed to stimulate economic development by linking various economic agents.⁴ Coined by the Asian Development Bank in 1998, this term often refers to initiatives featuring highways, railways, and ports that connect manufacturing hubs, areas of high supply and demand, or producers of value-added goods.³ Economic corridors aim to foster economic integration by combining physical infrastructure with functional elements such as harmonized laws, policies, and institutional frameworks.³
- **Infrastructure Corridors:** These corridors are primarily focused on the

development of "hard" infrastructure, encompassing transport networks (roads, railways, ports, pipelines) and energy systems.² They often form the foundational backbone upon which broader economic activities are built. A prominent example is the Trans-African Highway network, which is sometimes explicitly referred to as "Trans-African Corridors" or "Road Corridors," aiming to connect all African nations.⁶

- **Agricultural Growth Corridors (AGCs):** AGCs represent a specialized form of development corridor focused on catalyzing agricultural transformation. They seek to coordinate public and private investment around an infrastructure backbone to boost agricultural production, enhance productivity, improve market linkages for agricultural commodities, and generate employment within the sector.⁸ This approach was endorsed by the World Economic Forum and is a component of the African Union's Malabo Declaration on Accelerated Agricultural Growth and Transformation.⁸
- **Wildlife Corridors:** Distinct from economically driven corridors, wildlife corridors are geographical areas, often unprotected or under-protected, that serve to connect two or more larger protected areas or fragmented habitat patches.⁹ Their primary purpose is to facilitate the movement of wildlife, enabling genetic exchange between populations, allowing access to seasonal resources like water and forage, and providing routes for dispersal or migration. These corridors are critical for the long-term survival of many species and the overall resilience of ecosystems.⁹

A crucial distinction within these development initiatives is between "hard" and "soft" infrastructure. "Hard" infrastructure refers to the tangible physical components like roads, railways, ports, and energy grids. "Soft" infrastructure, equally vital for success, encompasses the regulatory reforms, policy frameworks, institutional capacities, trade facilitation measures (such as one-stop border posts), and investment promotion initiatives that enable the physical infrastructure to function effectively and generate the desired economic and social outcomes.²

The very application of the "corridor" label can be seen as a strategic act. The term has become a potent branding mechanism, employed by governments and development partners to attract investment and garner political support for large-scale projects.² This labeling can simplify complex geographical and socio-economic landscapes into a more easily digestible and seemingly investable concept. While this can be effective in mobilizing resources, it also risks masking underlying complexities, potential negative impacts, or the specific interests that might be prioritized. The "win-win" narrative often associated with corridor

development² warrants careful scrutiny to understand which stakeholders are likely to win most, and whether all claimed benefits are likely to materialize equitably.

Furthermore, many development corridors are designed with multiple, sometimes overlapping, objectives. The Lamu Port South Sudan Ethiopia Transport (LAPSSET) Corridor, for instance, aims to facilitate oil transport, support livestock marketing, and create new agricultural growth zones.² While such multi-functionality can appear synergistic, it can also create inherent tensions and trade-offs. The pursuit of large-scale resource extraction or infrastructure development, as seen in LAPSSET, can lead to negative impacts on indigenous communities and their lands¹¹ or disrupt existing ecological systems and local livelihoods.² If these potential conflicts are not explicitly acknowledged and managed through integrated and inclusive planning processes from the outset, the "win-win" rhetoric can obscure the reality of certain objectives being prioritized at the expense of others.

B. Strategic Rationale: Economic Growth, Regional Integration, and Resource Access

The impetus behind the proliferation of development corridors across Africa is multifaceted, rooted in a combination of economic aspirations, regional integration goals, and the imperative to access and mobilize resources. A primary strategic rationale is the catalysis of **economic growth**. Corridors are envisioned as engines of economic activity, designed to reduce transportation costs and transit times, thereby improving market access for goods and services and attracting domestic and foreign investment.¹ By enhancing connectivity and logistical efficiency, these initiatives aim to unlock what are termed "Wider Economic Benefits (WEBs)," which extend beyond direct transport cost savings to include broader impacts on productivity, trade, and employment.¹³

Promoting regional integration stands as another cornerstone of corridor development strategy. For many African nations, particularly the continent's numerous landlocked countries, corridors offer vital pathways to international markets and enhance connectivity with neighboring states.⁶ This improved physical and economic linkage is seen as crucial for facilitating intra-regional trade, fostering economic interdependencies, and ultimately integrating Africa more effectively into the global economy.³ In some respects, development corridors are pursued as a tangible, infrastructure-led approach to regional integration, complementing or even serving as an alternative to traditional mechanisms like free trade agreements or customs unions.³

The **access to resources and markets** is a fundamental driver, especially for

corridors focused on natural resource extraction or agricultural production. Many corridors are specifically designed to enable the efficient movement of commodities – such as minerals, oil and gas, timber, or agricultural products – from often remote or landlocked production sites to processing zones, coastal ports, and subsequently to regional and international markets.² This function is critical for resource-dependent economies seeking to capitalize on their natural endowments.

Finally, corridor development is a strategic response to **Africa's significant infrastructure deficits**. The continent faces substantial shortcomings in transport, energy, and communication infrastructure, which are widely recognized as major impediments to economic growth, productivity, and social development.¹⁴ Development corridors, with their focus on creating integrated networks of infrastructure, represent a concerted effort to address these gaps and lay the groundwork for sustained development.

Beyond these explicit economic and logistical drivers, the strategic rationale for corridor development often encompasses significant geopolitical dimensions. The planning, financing, and implementation of major corridors are increasingly intertwined with the strategic interests of external actors. For example, China's Belt and Road Initiative (BRI) has a substantial footprint in Africa, with its maritime routes connecting to various African corridors.³ Similarly, the United States and the European Union are actively supporting initiatives like the Lobito Corridor, aiming to secure access to critical minerals and promote alternative models of infrastructure partnership.⁵ These involvements suggest that corridor development is not solely an internal African endeavor but is also shaped by global power dynamics, resource security concerns, and the pursuit of geopolitical influence. The choices made regarding which corridors to develop, their specific alignments, and their financing mechanisms can thus be influenced by these external strategic considerations, potentially impacting national sovereignty or leading to complex dependencies if not carefully navigated by African states.

While the focus of many corridor strategies is on the development of major trunk infrastructure, a critical consideration for achieving inclusive growth is the challenge of **"last mile" connectivity**. The substantial economic benefits anticipated from large-scale corridor investments may not automatically trickle down to populations in hinterland areas or remote rural communities if concomitant investments in feeder roads, local market infrastructure, and ancillary services are neglected.⁸ There is a risk that the focus on primary arteries could inadvertently exacerbate regional disparities, creating islands of modern infrastructure and economic activity while leaving vast areas disconnected.¹³ Therefore, a truly strategic approach to corridor development

must extend beyond the main spine to ensure that the benefits of improved connectivity are broadly shared and contribute to equitable development across entire regions.

C. Key Continental and Regional Frameworks: AU Agenda 2063, PIDA, and REC Initiatives

Corridor-based development in Africa is not occurring in a policy vacuum but is increasingly guided and influenced by overarching continental and regional frameworks. These frameworks provide strategic direction, facilitate coordination, and aim to mobilize resources for transformative infrastructure projects.

The **African Union's (AU) Agenda 2063** stands as the continent's paramount long-term development vision, a blueprint for "an integrated, prosperous and peaceful Africa, driven by its own citizens and representing a dynamic force in the international arena".¹³ Aspiration 1 of Agenda 2063 specifically calls for "A Prosperous Africa based on Inclusive Growth and Sustainable Development," and Goal 10 under this aspiration targets the establishment of "World Class Infrastructure [that] criss-crosses Africa".¹⁶ Development corridors are seen as critical instruments for achieving these objectives, particularly in terms of fostering physical and economic integration, boosting intra-African trade, and connecting the continent's economies. The Programme for Infrastructure Development in Africa (PIDA) is explicitly recognized as a key delivery mechanism for the infrastructure goals of Agenda 2063.¹⁷

The **Programme for Infrastructure Development in Africa (PIDA)** is a continental strategic framework designed to guide the development of regional and continental infrastructure in four key sectors: transport, energy, Information and Communication Technologies (ICT), and transboundary water resources.⁵ Launched in 2012 by the AU Commission, the NEPAD Planning and Coordinating Agency (NPCA), and the African Development Bank (AfDB), PIDA aims to accelerate socio-economic development and facilitate Africa's integration into the global economy through strategic infrastructure investments.¹³ The PIDA Priority Action Plan (PIDA-PAP) adopts an integrated corridor development approach, seeking to harmonize various activities across diverse sectors along specific corridors to promote socio-economic growth.¹³ The AfDB has been a major proponent and financier of PIDA projects, underscoring the program's importance in its regional integration agenda.¹⁸ PIDA's vision is to connect Africa through modern, efficient infrastructure, thereby boosting trade, enhancing mobility, and fostering sustainable development.²⁰

To enhance transparency, coordination, and investment in PIDA projects, the **PIDA Virtual Information Centre (vPIC)** has been established. This digital platform offers

tools for tracking the progress of PIDA projects, facilitating stakeholder engagement, and showcasing investment opportunities within the PIDA portfolio.¹³ The vPIC includes features like real-time project monitoring, interactive maps, performance dashboards, and deal rooms, indicating a commitment to data-driven management and attracting private sector participation.²⁰

Regional Economic Communities (RECs), such as the Southern African Development Community (SADC), the East African Community (EAC), and the Economic Community of West African States (ECOWAS), play a pivotal role in the conceptualization, promotion, and implementation of cross-border development corridors.⁸ These regional bodies often act as catalysts, identifying priority corridors, fostering political consensus among member states, and coordinating joint development efforts. For instance, SADC was instrumental in promoting the corridor development approach in Tanzania and mandated member states to designate national institutions for coordinating regional corridor implementation.²¹ Similarly, ECOWAS is providing leadership for the ambitious Abidjan-Lagos Corridor project.²²

Despite these ambitious frameworks and the institutional architecture supporting them, a significant **implementation gap often exists between vision and reality**. While Agenda 2063 and PIDA articulate clear goals for infrastructure development, translating these into fully operational and impactful corridors on the ground faces numerous hurdles. The second continental report on Agenda 2063 implementation revealed that Goal 4 (Transformed Economies) was only 17% implemented by the end of the first ten-year plan, and while Goal 10 (World Class Infrastructure) showed better progress (over 70%), data gaps remain a challenge for accurate monitoring.¹⁶ The African Single Electricity Market (AfSEM), a flagship Agenda 2063 project, also faces challenges such as regulatory disparities and insufficient interconnection infrastructure.¹⁷ Identified barriers to corridor development across Africa include issues of funding, technical capacity, cross-border coordination, security, and political will.¹³ This persistent gap underscores the need for intensified efforts to address the practicalities of implementation, including strengthening national and regional institutional capacities, mobilizing diverse and sustainable financing, and tackling governance complexities.

Concurrently, the **role of RECs as corridor champions and coordinators is evolving and becoming increasingly critical**. As transboundary corridor projects grow in scale and complexity, RECs are moving beyond mere endorsement to assume more active roles in driving planning, harmonizing policies, mobilizing resources, and managing the intricate inter-state dynamics involved. The success of multi-country initiatives like the Abidjan-Lagos Corridor or the Nacala Corridor heavily relies on the

institutional strength, financial resources, and political leverage of the respective RECs to navigate competing national interests, ensure harmonized standards, and facilitate dispute resolution. This expanded role necessitates a corresponding enhancement in the capacity of RECs to effectively manage these multifaceted development endeavors.

II. Infrastructure and Economic Corridors: Forging Pathways for Pan-African Progress

Infrastructure and economic corridors are central to Africa's strategy for fostering economic growth, enhancing regional connectivity, and improving access to global markets. These initiatives typically involve large-scale investments in transport networks—roads, railways, and ports—often integrated into multimodal systems designed to streamline the movement of goods and people.

A. Trans-African Networks: Highways, Railways, and Multimodal Systems

The vision of a physically integrated Africa is most tangibly expressed through efforts to develop continent-spanning transport networks. The **Trans-African Highway Network** is a cornerstone of this vision, comprising a series of designated road corridors intended to connect all African nations.⁶ This network includes major arterial routes such as the Cairo-Dakar Highway, the Dakar-N'Djamena Highway (also known as the Trans-Sahelian Highway), and the Lagos-Mombasa Highway, among others.⁷ These highways are fundamental for overland trade and passenger movement, aiming to link major economic centers and provide access for landlocked countries.

Many contemporary development corridors are conceived as **multimodal systems**, integrating various modes of transport to optimize efficiency and connectivity. These often combine road and rail networks with port facilities and, in some cases, pipelines or inland waterways.² The Northern Corridor in East Africa, for example, is a multimodal system originating from the Port of Mombasa in Kenya and extending inland via roads, railways (including a standard gauge railway), and inland waterway connections to serve Uganda, Rwanda, Burundi, and other neighboring regions.¹³ This integrated approach aims to leverage the strengths of different transport modes for different types of cargo and distances.

Ports such as Lagos in Nigeria, Durban in South Africa, Mombasa in Kenya, and Dar es Salaam in Tanzania serve as critical nodes within these networks.⁶ They are not merely points of entry and exit but vital logistical hubs that connect Africa's hinterlands to global maritime trade routes, making their efficiency and capacity paramount to the

success of corridor strategies.

The primary emphasis in these networks is on "hard" infrastructure – the physical construction and upgrading of roads, railway lines, port terminals, and associated facilities.² However, the operational effectiveness of this hard infrastructure is often constrained by significant **challenges**. These include inadequate maintenance leading to deteriorating conditions, the prevalence of aging infrastructure requiring substantial modernization, and persistent inefficiencies at border crossings and gateways, which can cause lengthy delays and increase transport costs.¹³

The development of these extensive transport networks, particularly the interplay between road and rail, presents both opportunities and complexities. While often planned as complementary components of a multimodal system, road and rail can also find themselves in a **competitive relationship** for freight traffic and investment capital. The Northern Corridor, for instance, features both extensive road networks and a modern Standard Gauge Railway.¹³ Historically, particularly in the post-colonial era, there were arguments favoring roads over rail as the primary mode for economic development, as seen in early debates surrounding projects like the TAZARA railway.²³ Investment decisions, tariff structures, and regulatory policies can inadvertently or deliberately favor one mode over the other, impacting the financial viability and utilization rates of each. Integrated multimodal planning, therefore, requires careful consideration of optimal traffic allocation based on cargo type and distance, the establishment of fair competition policies, and coordinated investment strategies to ensure that both road and rail networks can contribute effectively to the corridor's overall efficiency and economic benefits.

Furthermore, the establishment of major transport arteries invariably acts as a powerful **catalyst for urbanization and the reshaping of economic geography**. As connectivity improves along these routes, they attract businesses, services, and populations, leading to the growth of existing urban centers and sometimes the emergence of new ones.² The TAZARA railway, for example, significantly influenced rural settlement patterns and spurred new forms of economic exchange along its path in southern Tanzania.²³ Similarly, the Abidjan-Lagos Corridor is projected to connect major economic hubs that will be home to an estimated 173 million urban residents by 2050.²² This profound link between infrastructure development and urbanization highlights the critical need for corridor planning to be closely integrated with urban and regional planning. Without proactive management, the rapid growth spurred by corridors can lead to uncontrolled urban sprawl, inadequate provision of essential services, increased pressure on resources, and the potential creation of new informal

settlements or the exacerbation of existing urban inequalities.

B. Flagship Economic Corridor Case Studies

Several large-scale economic corridor projects across Africa exemplify the continent's ambitions for transformative infrastructure development. These initiatives, while diverse in their specific objectives and geographical contexts, share common goals of enhancing connectivity, promoting trade, and stimulating economic growth.

1. The LAPSSET Corridor (East Africa): Ambitions, Progress, and Socio-Environmental Complexities

The Lamu Port-South Sudan-Ethiopia Transport (LAPSSET) Corridor is one of Africa's most ambitious and transformative infrastructure projects, a flagship initiative under Kenya's Vision 2030 national development blueprint.¹¹ Its overarching objectives are to enhance Kenya's role as a strategic gateway to East Africa and the Great Lakes region, provide reliable sea access for landlocked South Sudan and Ethiopia, reduce over-reliance on the existing Northern Corridor, and stimulate economic development across vast, historically underdeveloped regions of northern and eastern Kenya.¹¹ The project aims to improve the livelihoods of over 100 million people across the three core countries.¹¹

LAPSSET is a multi-component mega-project comprising: a new 32-berth deep-sea port at Lamu; an oil pipeline connecting Juba in South Sudan to Lamu for crude oil export; oil refineries in Lamu and Isiolo; a standard gauge railway linking Lamu to Isiolo and onward to South Sudan and Ethiopia; inter-regional highways; three resort cities in Lamu, Isiolo, and Turkana; new international airports at Lamu, Isiolo, and Lokichogio; and a major hydropower dam (High Grand Falls) on the Tana River.¹¹

As of recent updates, various components are at different stages of implementation. Construction of the first three berths at Lamu Port was launched, the Isiolo International Airport was completed, significant progress has been made on road links such as Isiolo-Moyale, and construction of the oil pipeline from South Sudan to Lamu had commenced.¹¹ An Integrated Master Planning & Investment Framework for Lamu Port City has also been developed to guide its growth as a key node of the corridor.²⁴ Key stakeholders include the governments of Kenya, South Sudan, and Ethiopia, local and indigenous communities residing along the corridor, civil society organizations (CSOs), private sector investors, and international partners.¹¹

The LAPSET project holds the promise of significant economic benefits, including enhanced trade, job creation, and regional integration.¹¹ However, it is also fraught

with profound socio-environmental complexities. A major area of concern revolves around the impacts on indigenous peoples and local communities, including potential loss of ancestral lands, territories, and vital natural resources; increased conflicts over land and resources; disruption of traditional livelihoods such as pastoralism; and negative impacts on cultural heritage.² Issues of inadequate consultation, lack of free, prior, and informed consent (FPIC), and limited benefit-sharing have been prominently raised by community representatives and CSOs.¹¹ For instance, the construction of the LAPSSET highway has reportedly led to incidents of livestock being injured while attempting to cross, highlighting the disruption to existing mobility patterns for pastoralist communities.² Environmentally, the project poses risks to the sensitive marine ecology of the Lamu archipelago, a UNESCO World Heritage site, and to terrestrial ecosystems, including forests, along its extensive path.¹¹ While the Kenyan government has initiated some measures to address these concerns, including land adjudication processes and commitments to environmental impact assessments, the scale and complexity of LAPSSET necessitate continuous and robust safeguard mechanisms and genuinely inclusive planning processes.¹¹

2. The Nacala Development Corridor (Southern Africa): Trade Facilitation and Connectivity

The Nacala Development Corridor is a critical transport and economic artery in Southern Africa, connecting landlocked Zambia and Malawi to the deep-water Port of Nacala in Mozambique.²⁵ Its primary objectives are to improve road transportation efficiency, facilitate regional and international trade, and support local economic activities, particularly in agriculture, agro-forestry, fisheries, and tourism, in the regions it traverses.²⁵ The World Bank's Southern Africa Trade and Connectivity Project (SATCP) builds upon earlier investments in the Nacala Corridor, aiming to further reduce trade costs and time, develop regional value chains, and improve access to infrastructure.²⁶

The corridor's development has involved multiple phases and components, including the rehabilitation of key road sections (e.g., the Liwonde-Mangochi road in Malawi), the construction and operationalization of One-Stop Border Posts (OSBPs) at critical border crossings like Mchinji/Mwami (Malawi/Zambia) and Chiponde (Malawi/Mozambique) to streamline customs procedures, and social inclusiveness initiatives such as the development of feeder roads and local markets.²⁵ Beyond road infrastructure, the broader Nacala system also includes significant rail and port components, with over US\$7 billion in public and private investments reported in the Beira and Nacala corridors combined.¹⁹

The project is ongoing, with different phases at various stages of completion. For example, Phase IV of the AfDB-supported Nacala Road Corridor Development Project saw the completion of main civil works for road sections and the Mchinji/Mwami OSBP, while Phase V, focusing on other road sections and the Chiponde OSBP, was under procurement.²⁵ Key stakeholders include the governments of Malawi, Mozambique, and Zambia, multilateral development banks like the African Development Bank (AfDB) and the World Bank, the Southern African Development Community (SADC), transport operators, and local communities.²⁵

The Nacala Corridor has demonstrated positive impacts, including improved transport services, better access to social amenities and markets for local populations, enhanced trade facilitation with reduced border processing times, and direct job creation during construction phases (e.g., approximately 870 direct jobs in AfDB's Phase IV).²⁵ The AfDB project component reported an Economic Rate of Return (EIRR) of 17.9%, exceeding appraisal estimates, due to increased traffic and reduced vehicle operating costs.²⁵ The reduction in import costs for essential goods like fuel and fertilizer is also expected to benefit consumers, particularly smallholder farmers in the region.²⁶ However, challenges such as inadequate financing leading to delays in some components (e.g., the Zambian side of an OSBP) have been noted.²⁵ The World Bank's SATCP emphasizes an "infrastructure-plus" approach, combining physical upgrades with targeted trade-related reforms to maximize benefits, highlighting the need for a holistic strategy.²⁶

3. The Abidjan-Lagos Corridor (West Africa): Powering Economic Transformation

The Abidjan-Lagos Corridor Highway is a transformative project poised to revolutionize connectivity and economic activity across a vital coastal stretch of West Africa.²² This 1,028-kilometer transnational highway will link five countries: Côte d'Ivoire, Ghana, Togo, Benin, and Nigeria, connecting major economic hubs such as Abidjan, Accra, Lomé, Cotonou, and Lagos.²² The region traversed by the corridor is home to approximately 75% of West Africa's commercial activities, making its development strategically crucial for regional trade and economic integration.²² The highway is planned as a four to six-lane carriageway, expanding to eight lanes in the densely populated Lagos section.²²

The primary objectives are to create a seamless economic corridor, spur regional trade and development, and significantly improve transport connectivity.²² An AfDB-supported study is underway to identify the necessary hard and soft infrastructure components to effectively address regional trade and integration

challenges along this corridor.²⁷ Beyond the highway itself, an AfDB-sponsored Spatial Development Initiative has identified numerous complementary interventions in sectors like renewable energy, manufacturing, and agriculture, requiring substantial additional investment.²²

Construction of the highway is scheduled to commence in 2026, with a projected completion by 2030.¹⁹ The project has garnered significant political backing from the Economic Community of West African States (ECOWAS) and the leaders of the five participating nations.²² It has also attracted substantial investment interest, with \$15.6 billion pledged at the 2022 Africa Investment Forum Market Days.²² The AfDB has been a key facilitator, providing \$25 million for the preparatory phase and a supplementary grant of UA 9.9 million (approx. USD 13.2 million) for the detailed feasibility and engineering design studies.²² Other development finance institutions (DFIs) like the European Investment Bank (EIB), the World Bank, and the Islamic Development Bank (IsDB) are also involved as potential partners.²²

The projected economic impacts are substantial, with estimates suggesting \$16 billion in overall economic benefits and the creation of over 70,000 direct and 160,000 indirect jobs from the highway and associated spatial development initiatives.²² The corridor is also expected to stimulate the development of regional value chains.²⁷ The Abidjan-Lagos Corridor stands as a testament to the potential of collaborative, multi-country infrastructure projects driven by strong regional leadership and supported by a coalition of DFIs and private sector interest, aiming to unlock one of Africa's most dynamic economic regions.

4. The Lobito Corridor (Central/Southern Africa): Strategic Mineral Routes and New Alliances

The Lobito Corridor is an increasingly prominent multimodal transport project connecting Angola's Atlantic coast port of Lobito, through the Democratic Republic of the Congo (DRC), to the Copperbelt region of Zambia.¹⁵ Its strategic importance is underscored by its potential to facilitate the efficient transport of critical minerals (such as copper and cobalt), which are vital for the global green energy transition, from the resource-rich interiors of the DRC and Zambia to international markets.¹⁵ Beyond mineral transport, the corridor aims to boost overall regional trade, diversify supply chains for global partners, and offer a competitive westward export route, providing an alternative to traditional eastward flows through ports like Dar es Salaam.¹⁵

The project involves the rehabilitation and upgrading of the existing Benguela railway

line in Angola, the construction of new rail lines in Zambia to connect to the Angolan network, port modernization at Lobito, and the development of feeder roads.¹⁵ Complementary investments are also planned in sectors such as clean energy, agriculture, and digital infrastructure along the corridor's path.¹⁵

The Lobito Corridor has gained significant international backing, particularly from the United States as part of its Partnership for Global Infrastructure and Investment (PGII) initiative, and the European Union, which are co-leading the effort.⁵ This support is often framed as offering African nations a transparent and sustainable partnership model for infrastructure development, contrasting with other international financing approaches.¹⁵ An agreement to advance the corridor was signed by the governments of Angola, the DRC, and Zambia in January 2023.¹⁵

Funding commitments are substantial, with the US Development Finance Corporation (DFC) approving a loan of up to \$553 million for the Lobito Atlantic Railway in Angola and providing other financial support.¹⁵ PGII partners had reportedly allocated over \$3 billion to the corridor by September 2023.¹⁵ The AfDB is also a key financial partner, committing \$500 million and aiming to help mobilize an additional \$1.6 billion.¹⁵ The Africa Finance Corporation (AFC) has been designated as the lead developer for the new rail line section.¹⁵ The project emphasizes a Public-Private Partnership (PPP) model to leverage private sector expertise and capital while aiming to minimize financial risks for the participating African nations.¹⁵

The projected impacts include enhanced market access for the mineral-rich economies of the DRC and Zambia, significant job creation, and stimulation of investment in diverse economic sectors along the corridor.¹⁵ The Lobito Corridor is thus not only an economic undertaking but also a project with considerable geopolitical resonance, reflecting a new era of strategic interest in Africa's resources and infrastructure by global powers.

These flagship corridors, while diverse, share common threads. LAPSSET, with its oil and regional influence objectives, and Lobito, focused on critical minerals and offering a US/EU-backed alternative to China's BRI, are increasingly seen as **"geostrategic corridors."** Their development is imbued with importance that transcends their immediate economic functions, reflecting broader global power dynamics, competition for resources, and the desire to shape regional influence.¹¹ This implies that the trajectory of such corridors—their funding, alignment, and even their ultimate success—can be significantly influenced by these external strategic interests. Host nations must navigate this complex landscape carefully to ensure that these projects align with their own long-term development priorities and do not compromise national

interests or environmental and social safeguards.

Furthermore, while these corridors aim to open up vast regions, there is a persistent risk of creating **"corridor economies"** that function as enclaves, somewhat detached from the broader national or regional economies.² LAPSET's plans for resort cities and specialized industrial zones¹¹, and the development of logistics hubs along the Nacala Corridor²⁶, point towards a concentration of investment and economic activity along the primary transport arteries. If not managed with proactive policies to foster linkages with surrounding areas, promote broader economic diversification, and ensure equitable benefit distribution, these corridors could inadvertently lead to new forms of spatial inequality, where the immediate corridor zone thrives while hinterlands remain marginalized.

Finally, the success of these massive investments in **"hard infrastructure"**—ports, railways, and roads—is critically dependent on complementary advancements in **"soft infrastructure."** Streamlined customs procedures, harmonized regulatory frameworks across borders, efficient border management systems (like OSBPs), stable governance, and robust legal institutions are essential for the physical infrastructure to deliver its projected economic benefits.² These "soft" components are often more complex and slower to implement than physical construction, requiring sustained political will, institutional capacity building, and regional cooperation. Without them, even state-of-the-art infrastructure can become underutilized or inefficient, failing to achieve the transformative impact envisioned by these flagship corridor projects.

C. Cross-Cutting Dimensions: Smart Technologies, Public-Private Partnerships, Funding Dynamics, and Geopolitical Influences

Several cross-cutting dimensions significantly shape the planning, implementation, and ultimate impact of infrastructure and economic corridors across Africa. These include the adoption of smart technologies, the increasing reliance on Public-Private Partnerships (PPPs), complex funding dynamics, and pervasive geopolitical influences.

The **Smart Corridor concept**, often encapsulated by frameworks like "SMART + I" (Safety, Mobility, Automation, Real-time data, Trade facilitation, and Innovation), represents a trend towards modernizing corridor operations through the integration of Information and Communication Technologies (ICT).¹³ This approach aims to optimize traffic flow, automate administrative and customs procedures, enhance infrastructure maintenance through real-time monitoring, facilitate smoother trade, and foster innovation in transport and logistics services.¹³ While promising significant efficiency gains, the effective implementation of smart corridor technologies necessitates

robust foundational digital infrastructure, adequate technical capacity, and strategies to ensure equitable access and prevent the creation of a new "smartness divide" that could exclude smaller operators or less developed regions.¹³ Data privacy, cybersecurity, and the interoperability of systems across borders also emerge as critical considerations.

Public-Private Partnerships (PPPs) are increasingly promoted and utilized as a key mechanism for financing, developing, and operating corridor infrastructure.³ The substantial capital requirements of these large-scale projects often exceed public sector capacities, making private sector involvement attractive for bringing in investment, technology, and operational expertise. Examples abound, from the planned revitalization of the TAZARA railway through a 30-year concession to a private corporation²⁸ to the emphasis on PPPs in the development of the Lobito Corridor¹⁵ and the Abidjan-Lagos highway.²² However, PPPs are a "double-edged sword." While they can unlock significant resources and efficiencies, they also carry inherent risks. These include challenges in ensuring equitable benefit sharing, maintaining the affordability of services (e.g., tolls or tariffs), the potential for governments to incur contingent liabilities if guarantees are called upon, and the overarching need to ensure that the public interest is rigorously safeguarded alongside commercial objectives.¹⁵ Robust regulatory frameworks, transparent procurement processes, strong government oversight, and capacity for complex contract management are crucial to harnessing the benefits of PPPs while mitigating these potential downsides, particularly in institutional environments that may still be developing.

Funding dynamics for African corridors are complex and multifaceted, typically involving a blend of domestic public resources, concessional loans and grants from Development Finance Institutions (DFIs) like the AfDB and the World Bank, bilateral financing from partner countries (such as China, the US, and EU member states), and, increasingly, private sector investment through PPPs or direct investments.⁵ Mobilizing private capital is a central objective for many corridor initiatives, given the scale of investment required.²⁰ The success of these funding models depends on factors such as project bankability, perceived risk levels, the policy and regulatory environment, and the availability of innovative financing instruments.

Geopolitical influences are an undeniable and increasingly prominent feature of corridor development in Africa. As highlighted previously (Insights 3 & 9), major global and regional powers view infrastructure corridors not only as economic development tools but also as instruments for projecting influence, securing access to strategic resources (like critical minerals or energy), and promoting their respective geopolitical

and economic models.³ China's Belt and Road Initiative (BRI), the US-led Partnership for Global Infrastructure and Investment (PGII), and various EU initiatives all have significant implications for corridor development on the continent. This geopolitical competition can, at times, spur increased investment and offer African nations more financing options. However, it also carries risks. There is the potential for fragmented or duplicative infrastructure if projects are driven more by external strategic rivalries than by integrated regional planning priorities. Furthermore, financing may come with political conditionalities or lead to unsustainable debt burdens if not managed prudently. African nations and regional bodies therefore require strong coordination mechanisms and clear national development strategies to ensure that externally financed corridor projects align with their own long-term interests and contribute to sustainable and equitable development, rather than merely serving the strategic calculus of external powers.

Overarching **challenges** continue to impede the full realization of corridor potential. These include the "barrier of distance and time," particularly for landlocked countries; the often poor quality and inadequate maintenance of existing transport infrastructure; inefficient procedures at gateways and border crossings leading to costly delays; widening regional disparities between well-served urban centers and underserved rural areas; and what has been termed the "barrier of people and consciousness," encompassing issues like harassment at borders, slow progress in women's economic participation in corridor-related activities, and a lack of environmental awareness among some stakeholders.¹³ Additionally, gaps in policy coherence, insufficient technical expertise, and poor multi-sectoral coordination at national and regional levels further complicate implementation efforts.²¹

Table 1: Comparative Overview of Major Economic and Infrastructure Corridor Initiatives in Africa

Corridor Name	Key Countries Involved	Primary Objectives	Main Infrastructure Components	Lead Promoters/Funders (Examples)	Current Status (General)	Key Document IDs
LAPSSET Corridor	Kenya, South Sudan, Ethiopia	Regional integration, trade facilitation, resource export (oil), opening up underdeveloped regions	Port (Lamu), Oil Pipeline, Refineries, Railway, Highways, Resort Cities, Airports, Hydropower Dam	Governments of Kenya, South Sudan, Ethiopia; Private Sector; (Implied) International Partners	Various components under construction or planning; Lamu Port partially operational	²
Nacala Development Corridor	Mozambique, Malawi, Zambia	Trade facilitation, transport cost reduction, access to port for landlocked countries, local economic development	Port (Nacala), Railway, Road rehabilitation, One-Stop Border Posts (OSBPs), Logistics Hubs	Governments of Mozambique, Malawi, Zambia; AfDB; World Bank; Private Sector (e.g., Vale for rail/port)	Ongoing in phases; significant road, rail, and port upgrades completed or underway	²
Abidjan-Lagos Corridor	Côte d'Ivoire, Ghana, Togo, Benin,	Economic integration, trade enhancement,	1,028 km transnational coastal highway (4-6	ECOWAS; Governments of 5 countries; AfDB;	Preparatory studies ongoing/completed; Constructi	¹⁹

	Nigeria	connectivity for major economic hubs along West African coast	lanes), Spatial Development Initiatives (energy, manufacturing, agriculture)	other DFIs (EIB, WB, IsDB); Private Sector interest	on planned to start in 2026, completion by 2030	
Lobito Corridor	Angola, DRC, Zambia	Critical mineral export, regional trade, supply chain diversification, alternative to eastward mineral flows	Port (Lobito), Railway (Benguela rehab & new construction), Feeder Roads, investments in energy, agriculture, digital	Governments of Angola, DRC, Zambia; US (PGII/DFC); EU; AfDB; Africa Finance Corporation (AFC)	Agreements signed; funding mobilized; railway rehabilitation and new construction planning/underway	5
Central Corridor (Tanzania)	Tanzania, Burundi, Rwanda, Uganda, Eastern DRC	Trade facilitation, transit route for landlocked countries, domestic connectivity	Port (Dar es Salaam), Road network, Railway (including SGR), Inland waterways, OSBPs	Government of Tanzania; AfDB; World Bank	Ongoing upgrades and expansion; SGR construction in progress; urban transport projects (DIST) in key nodes	19
TAZARA Railway	Tanzania, Zambia	Resource export (copper), regional	Railway line (Dar es Salaam to Kapiri	Governments of Tanzania & Zambia;	Undergoing major revitalization	21

		trade, historical political significance	Mposhi), Rolling Stock	China (CCECC for revitalization)	through a 30-year concession agreement with CCECC	
Trans-African Highway Segments	Multiple (e.g., Lagos-Mombasa: Nigeria, Cameroon, CAR, DRC, Uganda, Kenya)	Continental connectivity, trade facilitation	Road networks (various standards and conditions)	National Governments; AU/PIDA; AfDB; other partners	Varying degrees of completion and quality across different segments; ongoing upgrades and missing link projects	⁶

III. Agricultural Growth Corridors: Cultivating Prosperity and Food Security

Agricultural Growth Corridors (AGCs) have emerged as a significant strategy in Africa's quest to modernize its agricultural sector, enhance food security, and stimulate rural economic development. These initiatives aim to create geographically focused zones where public and private investments are coordinated around an infrastructure backbone to unlock agricultural potential.

A. Conceptual Foundations: Linking Agricultural Hubs to Value Chains

At their core, AGCs are designed to catalyze agricultural development by systematically addressing bottlenecks in production, processing, and market access.⁸ The fundamental aim is to increase investment in the agricultural sector, boost production levels and productivity, generate employment, and more effectively link African agriculture to both regional and global markets.⁸ A key conceptual underpinning is the idea of overcoming coordination failures among various actors (government, private sector, farmers, service providers) and resolving critical market linkage deficiencies that often hinder agricultural commercialization.⁸

The drivers behind AGCs are diverse. Some are primarily **government-led**, integrated into national development plans. Others are significantly **private-sector driven**, often initiated or championed by large agribusiness companies seeking to secure supply chains or expand operations; the Southern Agricultural Growth Corridor of Tanzania (SAGCOT), for instance, was initially championed by the fertilizer company Yara.⁸

Donors and International Financial Institutions (IFIs) also play a crucial role in promoting and financing AGCs, viewing them as vehicles for poverty reduction and food security enhancement. Furthermore, many AGCs operate as **Public-Private Partnerships (PPPs)**, seeking to leverage the strengths of both sectors.⁸ The G7 nations, for example, have promoted AGCs as a means to boost agricultural production in Sub-Saharan Africa and attract investment into rural areas.³⁰

Key components of AGCs typically include investments in essential **transport infrastructure** (roads, rail, ports to connect production zones to markets), **power and communication networks**, improved **market facilities**, development of **processing zones** to add value to agricultural commodities, and the establishment of **out-grower schemes** that link smallholder farmers to larger commercial operations or processors.⁸ The historical context for the rise of AGCs is noteworthy; they gained considerable momentum following the global food price crisis of 2007-2008, as governments and development partners sought new approaches to expand food production and as capital sought new frontiers for agricultural investment.³⁰

Many AGCs, including prominent examples like SAGCOT, are implicitly or explicitly structured around a **"nucleus estate-outgrower" model**.³⁰ In this model, a large commercial farm or agribusiness (the "nucleus") provides a central point for processing, market access, and often technical support or inputs, while surrounding smallholder farmers (the "out-growers") supply commodities to this central entity.⁸ While this model can offer smallholders crucial access to markets, technology, and inputs they might otherwise lack, it is not without its complexities. It can create significant dependencies for smallholders on the nucleus enterprise and may lead to unequal power relations in terms of contract negotiations, pricing, and quality standards.³² The success of such models in genuinely benefiting smallholders and ensuring their empowerment, rather than leading to their marginalization, hinges on strong institutional frameworks, transparent and fair contract terms, robust support for farmer organizations and cooperatives, and mechanisms to mitigate risks for the more vulnerable out-growers.

Similar to the concerns raised about broader economic corridors, there is a risk that AGCs, if not carefully designed and implemented, could lead to the creation of **"agricultural enclaves."** These might be highly productive and well-connected zones

of commercial agriculture that thrive within the immediate geographical footprint of the corridor but remain largely disconnected from the broader rural economy.⁸ If investments are too narrowly focused on the main infrastructure spine and the largest commercial players, surrounding hinterland areas and the smallholders within them might be bypassed, potentially deepening spatial inequalities within agricultural regions rather than fostering widespread rural development. Strategies for AGCs therefore need to consciously incorporate plans for broader rural development linkages, including investment in feeder roads, local market infrastructure beyond the main corridor, and accessible extension services that reach a wide range of farmers.

B. In-Depth Focus – The Southern Agricultural Growth Corridor of Tanzania (SAGCOT):

The Southern Agricultural Growth Corridor of Tanzania (SAGCOT) stands as one of Africa's most ambitious and extensively documented agricultural growth corridor initiatives. Launched in 2010, it offers a rich case study of the opportunities, complexities, and challenges inherent in transforming a vast agricultural landscape through a multi-stakeholder, corridor-based approach.

1. Origins, Objectives, and Multi-Stakeholder Architecture

SAGCOT was officially launched by the Government of Tanzania (GoT) as a public-private partnership (PPP) with the overarching goals of ensuring national food security, reducing poverty, and spurring broad-based economic development within Tanzania's expansive Southern Corridor.³¹ The initiative set ambitious targets, including attracting over US \$3 billion in private and public investment, significantly increasing annual farming revenues (by over US \$1.2 billion), substantially benefiting small-scale farmers and the rural poor, and positioning southern Tanzania as a key regional food exporter.³³ A core operational strategy is to improve the linkages for both large and small-scale farmers to local and export markets, leveraging a central "spine" of existing and upgraded road and rail infrastructure.³¹

Geographically, SAGCOT covers an immense area, approximately one-third of mainland Tanzania (around 287,000 km²), extending from the port city of Dar es Salaam westward to the country's borders with Zambia, the Democratic Republic of Congo, and Malawi.¹² The strategy focuses on developing specific high-potential agricultural "clusters" within this vast region, identified based on their commercial development potential for various crops and livestock.³¹

The multi-stakeholder architecture of SAGCOT is complex, involving a wide array of actors. Key **government entities** include central ministries (e.g., Ministry of

Agriculture, Ministry of Finance) and local government authorities, as well as specialized agencies like the Rufiji Basin Development Authority (RUBADA), which was slated to be reorganized as the SAGCOT Basin Development Authority to coordinate policy and infrastructure across the corridor.³¹ The **private sector** is a cornerstone of the SAGCOT model, encompassing large agribusiness investors, input suppliers, processors, and logistics providers, as well as small and medium-sized enterprises (SMEs) and, crucially, both large and small-scale **farmers**.³¹ **Development partners** have been instrumental in providing financial and technical support, with notable involvement from the World Bank, the UK's Department for International Development (DFID), Norway, and private sector entities like Yara International, which played a key role in championing the initial concept.⁸

Several dedicated coordinating bodies were established. The **SAGCOT Centre Ltd.** acts as a partnership broker, facilitating collaboration between agricultural companies, investors, government, and farmer groups, and promoting sustainable and inclusive growth across the corridor and its active clusters.¹² The **SAGCOT Catalytic Fund**, established as an independent Trust, was designed to provide capital (through matching grants and potentially equity funding) to support the establishment and expansion of commercially viable agribusinesses, particularly those building commercial relationships with smallholder out-growers.³¹ The National Development Corporation (NDC) of Tanzania also has a broader mandate for coordinating development corridors in the country, which would include aspects of SAGCOT.²¹

Funding for SAGCOT has been envisaged as a blend of public and private investment. The World Bank, for example, committed support to the Catalytic Fund's matching grants window.³¹ However, the funding landscape has also been subject to political dynamics. During the administration of President John Magufuli (2015-2021), there was a notable shift in national policy, with a greater emphasis on state-led industrialization and a more cautious stance towards foreign and private sector-led agricultural initiatives. This led to the Tanzanian government reportedly rejecting a US \$50 million World Bank credit intended for private agribusiness development within SAGCOT, as the state preferred to redirect such funding towards public entities.³⁰ This episode underscores the political sensitivities and potential volatility that can affect the implementation and financing of long-term corridor initiatives.

2. The "Greenprint" Strategy: Pursuing Sustainable and Inclusive Agriculture

Recognizing the potential environmental and social risks associated with large-scale agricultural intensification, the SAGCOT initiative developed a "Greenprint" strategy. This framework was designed to refine the original SAGCOT vision to explicitly ensure

that development within the Corridor is environmentally sustainable, socially equitable, and practical to implement.³³ The Greenprint was the outcome of extensive consultations involving over 150 stakeholders from business, farming communities, conservation organizations, civil society, and government.³³

At the heart of the Greenprint is the concept of **Agriculture Green Growth (AGG)**. AGG aims to achieve a "triple bottom line" by simultaneously reducing poverty and improving food security, strengthening the resilience of agricultural systems and rural communities to climate change, and conserving the natural resource base (including forests, water resources, and biodiversity) that underpins agricultural productivity and provides essential ecosystem services.³³

Smallholder farmers are positioned as key actors within the Greenprint strategy. Given that a significant majority of the population in the Corridor resides on smallholder farms, the AGG approach seeks to support large numbers of these farmers in transitioning towards more productive and sustainable practices, enabling them to generate marketable surpluses and improve their livelihoods.³³ The strategy also explicitly acknowledges the crucial and growing role of **women** as agricultural producers and stewards of natural resources, emphasizing the need for their inclusion and empowerment.³³

The Greenprint outlines several specific initiatives to promote AGG across different segments of the agricultural economy:

- **Sustainable Crop and Livestock Intensification:** This includes promoting practices like conservation agriculture, the System of Rice Intensification (SRI), agroforestry, and the integration of high-value horticulture and livestock into smallholder farming systems to increase yields, diversify income, and reduce economic and ecological risks.³³
- **Sustainable Farm Inputs and Management:** This focuses on improving resource use efficiency, for example, through precision agriculture on larger farms, rainwater harvesting for irrigation, the use of commercial bio-inputs (bio-fertilizers and bio-pesticides), and ensuring access to high-quality seeds for diversified and resilient production systems.³³
- **Forest, Energy, and Eco-enterprises:** This component recognizes forests and energy as investable assets, promoting sustainable management of natural forests, development of plantation and community forestry enterprises, and the adoption of green energy sources (like biogas and solar power) for agricultural and agro-processing activities. It also includes exploring opportunities for Payments for Ecosystem Services (PES) and agroecotourism to provide additional

income streams for farmers and communities who conserve natural resources.³³

- **Greening the Value Chain:** This involves creating market-based incentives for farmers to adopt sustainable practices, such as through eco-certification schemes for products like tea, coffee, sugar, and rice. It also emphasizes investment in resource- and energy-efficient post-harvest infrastructure, including storage, agro-processing, and distribution networks, and establishing standards for green infrastructure development within the corridor.³³

The SAGCOT Greenprint represents a commendable and sophisticated attempt to proactively embed principles of sustainability and inclusivity into a major agricultural development program. Its successful translation from strategy into widespread practice on the ground remains a critical area for ongoing assessment and learning.

3. Assessing SAGCOT's Socio-Economic Footprint and Environmental Stewardship

Evaluating the impacts of a multifaceted and long-term initiative like SAGCOT is complex, with evidence suggesting a mixture of positive outcomes, persistent challenges, and significant risks.

On the **socio-economic front**, localized projects within the SAGCOT framework have demonstrated positive impacts. For instance, the CARE-WWF Alliance SAGCOT program, implemented between 2021 and 2023 in 21 villages in the Mufundi and Iringa districts, reported a 102% average increase in household income for participating families, with an even more significant 157% increase for female-headed households. This program reached 9,597 households and focused on financial stability through savings groups and sustainable agricultural production through Farmer Field and Business Schools.³⁴ Furthermore, a Sustainable Asset Valuation (SAVi) study focusing on irrigation options in the Kilombero Valley projected that a shift to more efficient drip irrigation (the "Green Economy" scenario) could create approximately 10,000 jobs, increase agricultural production by 20%, generate an additional USD 51 million in revenues over a 25-year period, and yield higher net benefits compared to traditional flood irrigation.³⁵ These examples illustrate the potential for targeted interventions within SAGCOT to improve livelihoods and economic returns.

However, significant socio-economic risks and concerns also persist. A primary concern, articulated from the early stages of AGC conceptualization, is the potential for **smallholder farmers to be marginalized**. This could occur through the loss of land to large-scale investors, increased land competition driving up prices, or an inability to compete effectively with large commercial farms that have better access to

capital, technology, and markets.⁸ There is also the risk that the benefits of corridor development might be concentrated in the most accessible and high-potential clusters, bypassing smallholders in more remote "hinterland" areas.⁸ The initial SAGCOT concept, with its emphasis on large-scale investments and nucleus-outgrower schemes, carried the inherent risk of such marginalization if not meticulously managed with pro-poor and inclusive strategies.³⁰ The political shifts during the Magufuli era, which saw a decreased emphasis on foreign and private sector-led agricultural investment, also highlighted the **vulnerability of the corridor's development trajectory to political risk**, leading some investors to scale back or close their operations.³⁰

In terms of **environmental stewardship**, SAGCOT has made explicit commitments to sustainability, most notably through its Greenprint strategy³³ and a broader "Green Corridor" approach.¹² Efforts have been made to integrate environmental considerations into planning, including conducting a Strategic Regional Environmental Assessment (SREA) and developing an Environmental and Social Management Framework (ESMF) to guide investments.³¹ The aforementioned CARE-WWF program in Mufundi and Iringa reported positive environmental outcomes, such as improved water flow in the Mkikifu river (a 105% increase in dry season flow and a 178% increase in wet season flow) attributed to the implementation of Integrated Land and Water Management (ILWM) practices and Village Land Use Plans (VLUPs).³⁴ The SAVi study on irrigation also highlighted the significant environmental benefits of adopting water-efficient technologies like drip irrigation, which could reduce overall water use by 14% in the long term and mitigate water stress in critical areas like the Kilombero Valley.³⁵

Despite these positive efforts and intentions, substantial **environmental risks and challenges** remain. The sheer scale of planned agricultural expansion under SAGCOT (an envisioned 350,000 hectares) inevitably places increased pressure on natural resources, particularly water.³⁵ The declining flow of major rivers like the Great Ruaha has been linked, at least in part, to unsustainable farming practices and the expansion of agricultural activities into sensitive forest and watershed areas within the broader SAGCOT region.³⁴ If not managed with extreme care, the intensification of agriculture can lead to the degradation and fragmentation of natural ecosystems, loss of biodiversity, and displacement of communities.¹² The corridor traverses areas with sensitive wetlands and important protected areas, making careful land-use planning and adherence to environmental safeguards paramount.³¹ Furthermore, the success of environmental management is contingent upon overcoming broader systemic challenges, such as policies that may not fully support sustainable agribusiness,

insufficient technical expertise for promoting green practices, and poor multi-sectoral coordination in land and resource management.²¹

The trajectory of SAGCOT vividly illustrates the **malleability of large-scale, long-term development initiatives to shifting political winds**. The change in national leadership and ideology under President Magufuli (2015-2021) led to a discernible shift in emphasis away from the private sector and foreign investor-driven model that had initially characterized SAGCOT.³⁰ This resulted in the rejection of some development partner funding earmarked for private agribusiness and a general cooling of investor sentiment, directly impacting the corridor's momentum and operational approach.³⁰ This experience underscores a critical lesson: the long-term sustainability and success of corridor projects require not only sound technical and financial planning but also broad, cross-party political consensus and robust institutional mechanisms that can provide a degree of stability and continuity, buffering them against the vicissitudes of short-term political changes. Without such resilience, ambitious corridor visions can be significantly curtailed or altered mid-course.

Another important consideration arising from the SAGCOT experience is the potential for a **"scale mismatch" in impact assessment and benefit distribution**. While localized projects within the vast SAGCOT area, such as the CARE-WWF intervention in 21 villages³⁴, can demonstrate impressive and positive impacts at a micro-level, these successes may not be automatically representative of the impact across the entire corridor. There is a risk that benefits may not scale up uniformly or be distributed equitably across such a large and diverse geographical region, which encompasses varied agro-ecological zones, different farming systems, and communities with differing levels of access to resources and markets.⁸ This highlights the need for systematic, corridor-wide monitoring and evaluation frameworks that can disaggregate impacts by different social groups (e.g., smallholders, women, youth, pastoralists) and geographical areas. Such detailed M&E is crucial for identifying disparities and for designing targeted interventions to ensure that the benefits of corridor development are inclusive and reach those most in need, particularly in the more remote hinterland areas.

Finally, **water scarcity looms as a critical limiting factor and a potential driver of conflict** for an initiative as water-intensive as SAGCOT. The planned expansion of irrigated agriculture will inevitably increase pressure on already stressed water resources, particularly in key basins like the Kilombero Valley and the Great Ruaha catchment.³⁴ The SAVi study explicitly modeled the negative impacts of water shortages on agricultural production if inefficient irrigation methods persist.³⁵

Declining river flows, as observed in the Great Ruaha, not only threaten agricultural productivity but also have severe consequences for downstream ecosystems, wildlife, and other water users, potentially leading to increased competition and conflict between large-scale commercial agriculture, smallholder farmers, pastoralists, and environmental needs.³¹ This underscores that sustainable water management—including the widespread adoption of water-efficient irrigation technologies³⁵, integrated water resource planning at the basin level, and fair and transparent water allocation mechanisms—is not merely an environmental consideration but a fundamental prerequisite for SAGCOT's long-term viability and for preventing social and ecological crises.

C. Comparative Perspectives: Agricultural Corridor Initiatives Across Africa (e.g., Sahel Pastoral Corridors, Central African Programs)

While SAGCOT in Tanzania is a prominent example, various other agricultural corridor and support initiatives are underway across Africa, each tailored to specific agro-ecological contexts, socio-economic conditions, and development priorities. Comparing these provides valuable insights into the diverse approaches being adopted.

In **West Africa**, the World Bank-supported **Regional Sahel Pastoralism Support Project (PRAPS)** offers a distinct model focused on the unique challenges and opportunities of pastoral systems across countries like Burkina Faso, Chad, Mali, Mauritania, Niger, and Senegal.³⁶ The primary objectives of PRAPS are to secure the livelihoods of pastoral populations and increase their income from livestock activities.³⁶ Key accomplishments by November 2024 included the training of veterinarians, the establishment of 415 vaccination parks which facilitated the vaccination of over 600 million animals, the demarcation of 4,200 kilometers of transhumance corridors to secure mobility and improve access to resources, the creation of 559 additional water points, and the development of over 362 new livestock markets. These interventions have reportedly empowered nearly 56,000 individuals, a significant majority (86%) of whom are women, by enabling them to diversify income sources and build economic resilience.³⁶ PRAPS focuses on critical aspects for pastoralism such as animal health, secure mobility (transhumance), access to essential resources like water and pasture, improved market development for livestock products, and conflict resolution mechanisms related to resource use. It also aims to address ecological threats and enhance the climate resilience of pastoral systems.³⁶ This initiative is significant because it diverges from models centered on settled agriculture, instead prioritizing the support and strengthening of mobile pastoral systems, which are vital for the livelihoods of millions in Africa's vast

semi-arid and arid regions and require extensive transboundary cooperation.

In the **Central African Republic (CAR)**, a nation grappling with fragility and conflict, World Bank projects like the **Agricultural Recovery and Agribusiness Development Support Project (PRADAC)** and the **Emergency Food Crisis Response Project (PRUCAC)** illustrate an approach focused on recovery, resilience, and food security.³⁷ PRADAC aims to increase the agricultural productivity of smallholder farmers and promote the development of micro, small, and medium-sized agribusiness enterprises. PRUCAC focuses on boosting food production and enhancing the resilience of food-insecure households.³⁷ Jointly, these projects had reached over 583,000 beneficiaries by early 2025, distributed thousands of tons of agricultural inputs, and facilitated the organization of over 21,000 smallholder farmers into nearly 800 legally recognized producer organizations, which then received capacity-building support.³⁷ The significance of these CAR initiatives lies in their emphasis on foundational support for smallholders and institutional capacity building (such as farmer groups) within a challenging post-conflict and ongoing fragility context, where the immediate goals are often recovery and stabilization alongside longer-term development.

These comparative examples highlight the diversity in AGC approaches across the continent. The design and focus of these initiatives are shaped by the specific agro-ecological context (e.g., intensive settled farming in high-potential zones versus extensive mobile pastoralism in arid lands), the prevailing political and security situation (stable development environments versus fragile or conflict-affected states), and the primary development objectives (e.g., export-oriented commercialization versus local food security and livelihood resilience).

The demarcation of transhumance corridors under projects like PRAPS, while intended to secure pastoral mobility against encroachment from settled agriculture and other land uses, can also be viewed as a form of "**corridorization**" of pastoralism.³⁶ Pastoralism has traditionally relied on fluid and adaptive movement patterns, guided by seasonal availability of water and pasture and deep ecological knowledge. While formal demarcation can offer a degree of legal protection and predictability, it also risks imposing a degree of rigidity that might curtail the flexibility and adaptability inherent in traditional pastoral systems. To be truly effective and sustainable, such initiatives must be highly participatory, deeply respectful of local governance systems and customary land rights, and designed to accommodate the adaptive needs of pastoral communities, rather than imposing top-down, inflexible routes.

Furthermore, in regions affected by conflict and fragility, such as parts of the Sahel or the Central African Republic, agricultural support projects like PRAPS and

PRADAC/PRUCAC often take on a **dual mandate of development and peacebuilding**. By aiming to restore livelihoods, improve food security, enhance access to shared resources like water and pasture, and establish conflict resolution mechanisms, these initiatives implicitly address some of the root causes and drivers of conflict, such as resource scarcity and economic marginalization.³⁶ The design, implementation, and monitoring of AGCs in such contexts should therefore explicitly incorporate conflict sensitivity analyses, peacebuilding indicators, and adaptive management approaches that can respond to evolving security situations and contribute positively to social cohesion and stability.

D. Critical Challenges: Land Tenure Security, Smallholder Integration, Market Access, and Climate Resilience

Despite the diverse approaches and potential benefits of Agricultural Growth Corridors, several critical challenges consistently emerge across different initiatives, threatening their viability, sustainability, and equity.

Land tenure security is arguably one of the most fundamental and pervasive challenges. The large-scale land requirements for AGCs, whether for nucleus estates, commercial farms, or infrastructure development, often lead to increased competition for land. Smallholder farmers, pastoralists, and other vulnerable rural communities with insecure or undocumented land rights are particularly at risk of losing access to their land through acquisition by larger investors or through market-driven displacement as land values rise within the corridor.⁸ Unresolved land tenure issues were a significant concern in the LAPSSET corridor, impacting indigenous communities¹¹, and the CGIAR has identified research on land tenure institutions as vital for ensuring smallholders benefit from corridor developments.⁸ Without clear, equitable, and legally enforceable land rights, the risk of dispossession and social conflict is high.

Smallholder integration into the value chains promoted by AGCs is a central objective but remains a complex undertaking.⁸ While corridors aim to provide improved market access and opportunities for commercialization, smallholders often face numerous barriers to effective participation. These can include limited access to finance, inputs, and technical knowledge; difficulties in meeting the quality and volume requirements of larger buyers or processors; and the risk of being marginalized or outcompeted by better-resourced large commercial farms.⁸ Developing genuinely inclusive business models that ensure fair terms of engagement and tangible benefits for smallholders is a persistent challenge.³⁸

While AGCs are designed to improve **market access** through infrastructure

development, this does not automatically translate into effective and equitable market participation for all producers, especially smallholders. Challenges often persist in terms of "last mile" connectivity from farms to the main corridor infrastructure, the availability of affordable transport and storage facilities, access to timely market information, meeting increasingly stringent quality and safety standards for formal markets, and ensuring fair and transparent pricing mechanisms.⁸

Climate resilience is an increasingly critical challenge for agriculture-based corridors. The agricultural sector is inherently vulnerable to the impacts of climate change, including rising temperatures, erratic rainfall patterns, increased frequency and intensity of droughts and floods, and the spread of pests and diseases.¹² AGCs, with their often significant investments in infrastructure and agricultural production systems, must proactively incorporate climate change adaptation and mitigation strategies to ensure their long-term sustainability. This includes promoting climate-resilient crop varieties and farming practices, developing water-efficient irrigation systems, investing in climate-resilient infrastructure, and strengthening climate information services for farmers.¹² Initiatives like SAGCOT have explicitly aimed to build climate resilience¹², and PRAPS in the Sahel also emphasizes this aspect for pastoral systems.³⁶

Beyond these, other systemic challenges include insufficient technical expertise to provide adequate extension services and training to farmers, particularly smallholders; poor multi-sectoral coordination between government agencies responsible for agriculture, infrastructure, land, and environment; persistent financial constraints for both public infrastructure and private agricultural investment; and national policies that may not always be fully supportive of sustainable and inclusive agribusiness development.²¹

A significant, often overlooked, challenge is the **"missing middle" in agricultural finance**. While large agribusinesses operating within corridors may have access to commercial finance, and micro-credit schemes (like the Village Savings and Loan Associations (VSLAs) noted in a SAGCOT project³⁴) can cater to the very small-scale needs of individual farmers, there is frequently a gap in financing for small and medium-sized agribusiness enterprises (SMEs). These SMEs – such as local food processors, input suppliers, or logistics providers – are crucial for value addition, job creation, and building robust local economies within the corridors.⁸ However, they are often perceived as too large or complex for microfinance institutions and too small or risky for traditional commercial banks or large investment funds. Corridor financing strategies, therefore, need to develop and promote targeted financial instruments and support mechanisms specifically designed to meet the needs of this vital "missing

middle" to unlock their potential for driving inclusive agricultural transformation.

Furthermore, **climate change acts as an existential threat multiplier** for AGCs, capable of undermining the very foundations of agricultural production and the long-term viability of infrastructure investments within these corridors.¹² The impacts of climate change – such as prolonged droughts leading to crop failure and water scarcity, or intense rainfall causing floods, soil erosion, and damage to infrastructure – are not merely additional challenges to be managed but fundamental threats that can negate development gains. As noted for SAGCOT, extreme weather events could severely decrease agricultural yields, with profound economic and social consequences, and also impact the natural capital and ecosystem services upon which the corridor depends.¹² This implies that climate resilience cannot be an add-on or an afterthought in AGC planning. It demands transformative adaptation strategies that are deeply embedded in the design of farming systems (e.g., promoting drought-tolerant crops, agroecology), investment choices (e.g., prioritizing water-efficient irrigation as highlighted by the SAVi study for SAGCOT³⁵), infrastructure development (e.g., climate-proofing roads and storage facilities), and the provision of robust climate information services and adaptive research to support farmers and other stakeholders in navigating an increasingly uncertain climate future.

Table 2: Profile of Selected Agricultural Growth Corridors in Africa

Corridor Name/Initiative	Geographic Focus/Countries	Core Agricultural Focus	Key Interventions/Strategies	Target Beneficiaries	Reported Socio-Economic & Environmental Outcomes/Challenges (Summarized)	Key Document IDs
SAGCOT (Southern Agricultural Growth Corridor of Tanzania)	Southern Tanzania	Mixed commercial crops (e.g., rice, maize, horticulture, sugar), livestock	Cluster development, value chain integration, infrastructure	Smallholder farmers, large-scale commercial farmers, agribusiness	Outcomes: Income increases in localized projects, improved water flow	8

			improvement (road/rail spine), PPPs, Greenprint strategy (sustainable intensification, eco-certification)	ss investors, local communities	(some areas), job creation (projected). Challenges: Land tenure, smallholder marginalization risk, water scarcity, environmental degradation risk, political volatility impacting investment, hinterland exclusion.	
PRAPS (Regional Sahel Pastoralism Support Project)	Sahel region (Burkina Faso, Chad, Mali, Mauritania, Niger, Senegal)	Pastoral livestock (cattle, sheep, goats)	Transhumance corridor demarcation & management, animal health (vaccination), water point development, livestock market improvement, conflict resolution,	Pastoral communities, veterinarians, livestock traders, women (empowerment focus)	Outcomes: Millions of animals vaccinated, thousands of km of corridors demarcated, new water points & markets, income diversification. Challenges: Ongoing security	36

			climate resilience		issues in Sahel, climate change impacts, need for transboundary cooperation, ensuring sustainability of interventions.	
PRADAC & PRUCAC (CAR Agricultural Projects)	Central African Republic (CAR)	Food staples (e.g., cassava, maize, rice), horticulture	Input distribution (seeds, tools), smallholder productivity enhancement, farmer group formation & capacity building, agribusiness MSME support, emergency food response	Smallholder farmers, vulnerable households, food-insecure populations, agribusiness MSMEs	Outcomes: Increased local food production, thousands of beneficiaries reached, farmer organizations established. Challenges: Extreme fragility & conflict context, logistical difficulties, limited state capacity, ensuring long-term impact	37

					beyond emergenc y response.	
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IV. Spotlight on Tanzania: A Multiplicity of Corridor Initiatives

Tanzania serves as a compelling case study in corridor-based development, hosting a range of initiatives that span economic, transport, agricultural, and, increasingly, wildlife conservation objectives. The country's strategic geographical location, with a long coastline on the Indian Ocean and borders with eight other nations (six of which are landlocked or semi-landlocked), positions it as a natural hub for regional trade and transit. This section synthesizes information on key Tanzanian corridors, particularly the Central Corridor and the TAZARA Railway, and touches upon emerging corridors like Mtwara and Tanga, drawing connections between them and the nation's broader development strategy.

A. The Central Corridor: Tanzania's Economic Artery – Projects, Performance, and Prospects (including DIST)

The Central Corridor is a vital economic artery for Tanzania and the East/Central African region, connecting the Port of Dar es Salaam via road, rail, and inland waterways to Burundi, Rwanda, Uganda, the eastern Democratic Republic of Congo (DRC), as well as serving the central and north-western regions of Tanzania itself.²¹ It forms a critical part of the regional transportation system, handling a substantial proportion of imports and exports for Tanzania and its landlocked neighbors. The Central Corridor also intersects with or provides foundational infrastructure for other initiatives, such as the Southern Agricultural Growth Corridor of Tanzania (SAGCOT).²¹

Several key projects are underway to upgrade and modernize the Central Corridor:

- The **Dodoma Integrated Sustainable Transport (DIST) project**, supported by the World Bank, aims to improve connectivity within Dodoma, Tanzania's capital city, and enhance institutional capacity in the urban transport sector.³⁹ Its components include the development of strategic multimodal corridors (expanding arterial roads into dual carriageways with dedicated bus lanes, cycle ways, and pedestrian walkways), improving climate-resilient access through neighborhood road upgrades and expanded walking/cycling networks, enhancing public transport facilities (like bus terminals), and building institutional capacity for urban mobility management.³⁹ This project is aligned with the World Bank's Country Partnership Framework for Tanzania and the government's goal of developing Dodoma as a functional capital city.³⁹

- The **Second Central Transport Corridor Project (Additional Financing)**, also backed by the World Bank, focused on improving the efficiency and safety of the transport network along the corridor.⁴⁰ Environmental and Social Impact Assessments (ESIAs) for such projects have identified potential negative impacts typical of large infrastructure works, including soil erosion, risk of soil and water contamination, loss of vegetation and habitat, and socio-economic effects such as land acquisition, displacement of people, and disruption to livelihoods during construction.⁴⁰
- The **African Development Bank (AfDB)** has also been a significant investor in the Central Corridor, funding the upgrading of 513 kilometers of roads between 2004 and 2022 and supporting studies for new road developments.¹⁹ Crucially, in 2024, the AfDB Board approved a partial credit guarantee of USD 696 million to facilitate the financing of the Central Corridor Standard Gauge Railway (SGR), a transformative project that will connect Tanzania with Burundi and the DRC, significantly enhancing rail freight capacity.¹⁹

Key stakeholders in the Central Corridor's development include the Government of Tanzania (through agencies like the Tanzania National Roads Agency - TANROADS, the Tanzania Rural and Urban Roads Agency - TARURA, and the Land Transport Regulatory Authority - LATRA), multilateral development banks (World Bank, AfDB), local communities along the corridor, and various transport operators and businesses.¹⁹

The Central Corridor is undeniably critical for Tanzania's domestic economy and its role as a transit nation. Ongoing investments aim to enhance its capacity, efficiency, and sustainability. Projects like DIST reflect an important recognition of the **urban dimension of national corridors**. As major transport arteries pass through or connect to significant urban centers like Dodoma, they profoundly impact urban development, traffic dynamics, public transport needs, and the overall quality of life for urban residents.³⁹ This necessitates that national corridor strategies increasingly integrate comprehensive urban planning and sustainable transport solutions for cities along their routes. Failure to do so can lead to severe congestion, increased pollution, inequitable access to services and opportunities, and the creation of urban bottlenecks that ultimately undermine the corridor's overall efficiency and the livability of these urban nodes.

Furthermore, the massive investment in the **Standard Gauge Railway (SGR) along the Central Corridor** represents a potential game-changer for the region's logistics landscape.¹⁹ The SGR aims to shift a significant volume of freight from road to rail, which could lead to substantial reductions in transport costs, transit times, and road

maintenance burdens, while also potentially offering environmental benefits. However, the success of such a large-scale rail investment hinges on several factors: attracting sufficient and consistent freight volumes to ensure financial viability, achieving high levels of operational efficiency, ensuring seamless integration with port operations at Dar es Salaam and at border crossings, and effectively competing with the flexibility and established networks of road transport. The long-term financing and management of the SGR will be critical to realizing its transformative potential for the Central Corridor and the wider region.

B. The TAZARA Railway: A Legacy of Liberation – Revitalization Efforts and Enduring Socio-Economic Significance

The Tanzania-Zambia Railway Authority (TAZARA) railway, historically known as the "Uhuru Railway" or "Freedom Railway," is a landmark infrastructure project with deep political and socio-economic significance for both Tanzania and Zambia, as well as the Southern African region.²¹ Jointly owned by the governments of Tanzania and Zambia, the 1,860-kilometer railway line connects the Port of Dar es Salaam in Tanzania with Kapiri Mposhi in Zambia's Copperbelt province, providing a crucial alternative export route for Zambia's copper and other commodities.²¹

After years of declining performance due to aging infrastructure, rolling stock deficiencies, and operational challenges²³, TAZARA is now poised for a major **revitalization**. This is set to be driven by an investment of over USD 1.4 billion from the China Civil Engineering Construction Corporation (CCECC) under a 30-year concession agreement, structured as a Public-Private Partnership (PPP).²⁸ The investment plan allocates USD 1.0 billion for the comprehensive rehabilitation of the railway track infrastructure and an additional USD 0.4 billion for the procurement of 32 new locomotives and 762 new wagons.²⁸ The concession agreement outlines an initial three-year phase focused on construction and rehabilitation, followed by 27 years of full operational management by CCECC.²⁸

The **historical socio-economic impacts** of TAZARA, particularly in southern Tanzania, have been profound, often in ways not fully captured by conventional large-scale economic assessments. Research conducted between 1998 and 2003 revealed that TAZARA became an important resource for local traders, farmers, and workers, fostering a thriving entrepreneurial economy along its route, especially between Kilosa and Mbeya.²³ The railway facilitated the movement of agricultural produce to local and regional markets, enabling farmers to shift from traditional subsistence crops to more marketable "fast" crops like vegetables and wetland rice, particularly in fertile areas like the Kilombero Valley. It also enabled new patterns of

rural settlement and migration, connecting communities and providing essential physical, social, and economic mobility for rural populations navigating unpredictable economic conditions.²³

The **current and projected impacts** of the TAZARA revitalization are significant. The renewed railway is expected to enhance regional trade between Tanzania and Zambia, reduce transportation costs for bulk commodities, improve connectivity across the Dar es Salaam corridor (which serves multiple countries), and once again position TAZARA as a key enabler of economic growth for both nations.²⁸ Historically, TAZARA faced numerous **challenges**, including frequent landslides and track washouts, slow transshipment times at interchange points, inefficiencies and corruption at the port, and seasonal bottlenecks during peak agricultural shipping periods.²³ The current revitalization aims to address these longstanding issues.

TAZARA's history is a powerful illustration of the **cyclical nature of large infrastructure fortunes and the enduring role of geopolitics**. Its initial construction in the 1970s with Chinese assistance was a landmark of South-South cooperation and a potent symbol of African liberation, providing landlocked Zambia with an alternative route to the sea that bypassed apartheid-era South Africa and Rhodesia.²³ Its subsequent decline due to underinvestment and operational difficulties, followed by the current large-scale Chinese-led revitalization effort, demonstrates how the trajectory of such major infrastructure projects can be closely tied to broader geopolitical alignments and the shifting economic and strategic priorities of both host nations and external partners.²⁸ This cyclical pattern underscores that the long-term sustainability of such vital infrastructure requires not just initial capital investment but also robust bilateral or multilateral governance structures, continuous commitment to maintenance and modernization, and the ability to adapt to changing economic and technological landscapes, extending beyond short-term geopolitical objectives.

Moreover, TAZARA's past offers valuable lessons on the emergence of an **"informal corridor economy"** as a resilient and often underestimated byproduct of large infrastructure projects.²³ Even when the railway's formal, large-scale freight operations faced significant challenges, local entrepreneurs, small-scale traders, and farmers creatively utilized TAZARA for their own economic activities, creating vibrant railway-platform markets and fostering local economic exchange.²³ This informal economy proved to be a vital source of livelihoods and resilience for many communities along the railway line. This suggests that corridor planning should not solely focus on large-scale formal businesses and freight volumes but should also recognize and potentially support these informal economic activities, as they can

make significant contributions to local development, poverty reduction, and the overall socio-economic vitality of the corridor region.

C. Emerging and Strategic Corridors: Mtwara and Tanga – Objectives and Development Trajectories

In addition to the well-established Central Corridor and the historic TAZARA railway, Tanzania is also focusing on the development of other strategic corridors, notably the Mtwara Development Corridor in the south and the Tanga Development Corridor in the north-east. These initiatives aim to unlock the economic potential of different regions and enhance Tanzania's connectivity with its neighbors.

The **Mtwara Development Corridor** was conceptualized under an initiative by the Southern African Development Community (SADC) in 1992, involving Tanzania, Malawi, Mozambique, and Zambia.²¹ This corridor is designed to run from the Port of Mtwara in southern Tanzania inland, generally alongside the Ruvuma River, towards the borders with Mozambique and Malawi. Its primary aims are to facilitate regional integration within the SADC bloc, stimulate broad-based economic growth by expanding industrial production and agricultural output in the corridor region, enhance exports, and ultimately contribute to poverty reduction.²¹ The AfDB has been involved in supporting infrastructure along this corridor, having funded 1,002 kilometers of roads between 2004 and 2022.¹⁹ The Mtwara Corridor holds the potential to open up the southern regions of Tanzania, which have historically been less developed, and to strengthen economic ties with neighboring SADC member states.

The **Tanga Development Corridor**, located in northeastern Tanzania, is primarily aimed at enhancing regional integration among the countries surrounding Lake Victoria – Uganda, Burundi, Kenya, and Rwanda – by utilizing the Port of Tanga as an alternative access point to the Indian Ocean for trade.²¹ A flagship project within this corridor is the **East Africa Crude Oil Pipeline (EACOP)**. This major pipeline is intended to transport crude oil from Uganda's oil fields in the Albertine Graben to the Port of Tanga for export to international markets.²¹ The Tanga Corridor's development is thus significantly driven by the specific logistical needs of resource (oil) export and aims to provide an alternative and potentially more efficient route for Uganda and other Great Lakes countries to access global markets. The EACOP project itself is a large-scale, and notably controversial, infrastructure undertaking with significant anticipated economic benefits but also considerable environmental and social concerns that have been raised by various stakeholders (though detailed controversies are beyond the scope of the provided documents, they are a well-known aspect of this project).

The development of these various corridors is, in principle, coordinated at a national level. The **National Development Corporation (NDC)** of Tanzania has been tasked with coordinating studies, consolidating plans, and implementing anchor projects within the country's development corridors, with a focus on enhancing regional development balance and attracting investment.²¹ However, Tanzania, like many other African nations, faces general challenges in corridor implementation. These include the existence of policies and regulations that may not always be fully supportive of desired outcomes (e.g., for agribusiness), insufficient technical expertise for specialized tasks like agricultural extension, poor multi-sectoral coordination across different government agencies and infrastructure projects, shortages of domestic funding for large-scale capital investments, and the presence of dilapidated or outdated existing infrastructure that requires substantial upgrading.²¹

Corridors like Tanga, which are predominantly driven by the export of a single major natural resource such as oil via EACOP, present specific economic considerations. There is an inherent risk that such **resource-driven corridors** could foster enclave economies, where the benefits are highly concentrated around the specific resource extraction and export infrastructure, with limited positive spillovers to other sectors of the national or regional economy. Furthermore, heavy reliance on a single commodity export can expose the economy to the "Dutch Disease" phenomenon – where revenues from the booming resource sector lead to currency appreciation, making other tradable sectors (like agriculture or manufacturing) less competitive internationally – and to volatility associated with global commodity price fluctuations. To mitigate these risks, governments involved in such corridors need to implement proactive strategies for prudent revenue management (e.g., sovereign wealth funds), deliberate investment in economic diversification beyond the resource sector, and sustained efforts to build human capital and strengthen institutions.

The presence of multiple, distinct corridor initiatives within Tanzania – Central, TAZARA, SAGCOT, Mtwara, Tanga – each with its own history, set of promoters (GoT, SADC, private sector consortia, specific commodity interests), and coordinating bodies (NDC, RUBADA, SAGCOT Centre Ltd., TAZARA Authority), highlights a potential **patchwork of corridor governance**. While the NDC has a coordinating mandate, the diversity of these initiatives and their governance structures can lead to a fragmented approach to national development if not carefully managed. This underscores the critical need for a robust, overarching national corridor development strategy for Tanzania. Such a strategy would serve to harmonize these different initiatives, ensure they are aligned with national development goals (such as Tanzania's Vision 2030 or subsequent national plans), manage potential conflicts and competition for land,

water, public funds, and private investment, and optimize the allocation of scarce resources to achieve the greatest overall developmental impact for the country.

V. Wildlife Corridors: Safeguarding Biodiversity Amidst Development Pressures

Wildlife corridors are increasingly recognized as indispensable components of biodiversity conservation strategies in Africa, particularly as human activities continue to fragment natural landscapes. These corridors serve as vital linkages, enabling the movement of animals between protected areas and other critical habitats, thereby supporting ecological processes essential for the long-term survival of many species.

A. The Ecological Imperative: Maintaining Connectivity in Fragmented African Landscapes

A wildlife corridor is generally defined as an area, often unprotected or under-protected by formal legal status, that connects two or more protected areas (such as National Parks or Game Reserves) or other significant habitat patches.⁹ These connections are crucial because wildlife populations rarely confine themselves to the administrative boundaries of protected areas; they move across broader landscapes to access seasonally available resources like water and pasture, to find mates, to disperse to new territories, or to follow traditional migratory routes.⁹ The concept also includes dispersal areas, which are regions outside protected zones that animals may use for significant periods, even if they do not directly link two protected areas.¹⁰

The **ecological importance** of wildlife corridors is multifaceted and profound:

- They facilitate the **rescue of local populations** that may have declined to critically low levels or even gone extinct in one habitat patch, by allowing immigration from healthier populations in connected patches.¹⁰
- They are essential for **maintaining genetic diversity** within and between populations. By enabling movement and interbreeding, corridors prevent the negative effects of genetic isolation and inbreeding, which can threaten the long-term viability of small, isolated populations.¹⁰
- Corridors effectively **increase the total available habitat area and the diversity of habitats** accessible to wildlife, beyond what is contained within the individual connected patches.¹⁰
- In an era of rapid environmental change, including climate change, corridors provide **escape routes** for species, allowing them to move to more suitable habitats as their current environments become unfavorable (e.g., due to changing

temperature or rainfall patterns).¹⁰

- They are critical for fulfilling the **complex ecosystem requirements of many species**, especially large, migratory herbivores and their associated carnivores, whose ranges often extend far beyond the boundaries of single protected areas.¹⁰

However, these vital ecological linkages face severe **challenges**. Wildlife, by its nature, does not recognize human-drawn borders, whether national or park boundaries.⁹ The lands outside formally protected areas, which often constitute these corridors, are increasingly being converted for human uses such as agriculture, livestock grazing, human settlements, and timber harvesting.⁹ This conversion leads to habitat loss and fragmentation, effectively severing connections between protected areas and isolating wildlife populations. Furthermore, these fragmented landscapes can become dangerous for wildlife due to increased human-wildlife conflict and illegal hunting.⁹

Unlike "hard" infrastructure corridors that are designed and built, wildlife corridors can be conceptualized as **"living infrastructure."** Their functionality is not static but depends on dynamic ecological processes, animal behavior, vegetation characteristics, and the availability of resources like water.¹⁰ Elephants, for instance, create visible paths through savannahs that form the basis of some corridors, but making these functional within a conservation framework requires administrative action, scientific monitoring (often using modern technologies like GPS tracking), and integration into land-use plans.⁴⁴ This dynamic and biological nature means that the design, management, and monitoring of wildlife corridors must be inherently more complex and adaptive than that of engineered infrastructure. It requires a deep understanding of ecological principles, continuous monitoring of animal movements and habitat conditions, and flexible management plans that can respond to changing environmental conditions and wildlife needs, rather than a purely static, boundary-focused approach.

The degradation and loss of wildlife corridors contribute directly to the **"islandization" of protected areas**.¹⁰ As the connecting landscapes are transformed by human activities, protected areas become increasingly isolated patches of natural habitat in a modified matrix. This isolation makes the wildlife populations within them more vulnerable to local extinctions, genetic deterioration, and the impacts of climate change, as their ability to move, disperse, and adapt is severely curtailed.¹⁰ Consequently, even if protected areas are well-managed internally, their long-term conservation value can be significantly undermined if the connectivity between them is lost. This underscores the critical importance of conservation strategies that look beyond the boundaries of individual protected areas and invest significantly in securing, maintaining, and restoring functional wildlife corridors as integral

components of larger, interconnected conservation networks.

B. Wildlife Corridor Conservation in Tanzania:

Tanzania, renowned for its rich biodiversity and iconic wildlife populations, faces significant challenges in maintaining connectivity between its numerous protected areas. While the country has a substantial network of National Parks, Game Reserves, and other conservation areas, the lands linking these areas are under increasing pressure from human activities.

1. Nyerere-Udzungwa Wildlife Corridor (NUWC): A Landmark in Conservation Policy

A significant positive development in Tanzanian conservation was the official designation of the **Nyerere-Udzungwa Wildlife Corridor (NUWC)** in April 2025.⁴⁶ This marked a historic milestone, as the NUWC became the first wildlife corridor in Tanzania to receive formal, legal protective status from the government.⁴⁶ Formerly known as the Kilombero Elephant Corridor, the NUWC plays a crucial ecological role by reconnecting the Udzungwa Mountains National Park and the Nyerere National Park (formerly part of Selous Game Reserve) via the Magombera Nature Forest Reserve.⁴⁶ This corridor safeguards a traditional migratory path for elephants across the Kilombero Valley and is considered essential for maintaining the connectivity of an estimated 40% of East Africa's elephant population. Beyond elephants, the corridor is also vital for other species, including leopard, lion, buffalo, various primates like the Udzungwa Red Colobus, and numerous smaller animals.⁴⁶

The successful designation of the NUWC was the culmination of years of dedicated effort, particularly by the **Southern Tanzania Elephant Programme (STEP)**, which has been working since 2018 in close collaboration with local communities from the Sole, Mang'ula, and Kanyenja villages, as well as other partners and donors, to restore and secure this vital linkage.⁴⁶ A key aspect of the project involved local communities voluntarily setting aside portions of their village land to enable the corridor's establishment. Landowners who allocated small farm plots for conservation purposes received compensation, and the initiative is expected to bring further benefits to local communities through employment opportunities, income-generating projects linked to conservation, and a reduction in human-wildlife conflict as both animals and people are provided with more clearly defined spaces.⁴⁶ The NUWC designation serves as an important precedent and a model for how collaborative efforts involving government, NGOs, and local communities can lead to the formal protection of critical wildlife corridors.

2. Challenges in Key Ecosystems: Selous-Niassa, Kwakuchinja – Human-Wildlife Conflict and Habitat Integrity

Despite successes like the NUWC, many other critical wildlife corridors in Tanzania face severe challenges, primarily from habitat degradation and escalating human-wildlife conflict (HWC).

The **Selous-Niassa Wildlife Corridor (SNWC)**, which links two of Africa's largest protected areas, is a case in point. Studies in this corridor have revealed that inadequate land allocation for human settlement, agriculture, and livestock keeping is a major issue, with a high percentage of respondents (86.7%) reporting this problem.⁴⁵ This scarcity of land for human activities leads to increased encroachment into wildlife habitats and, consequently, a rise in HWC. Furthermore, local communities reported limited involvement (81.7%) in the management of protected areas within the SNWC, often attributed to a lack of a sense of ownership over the natural resources in these areas.⁴⁵ Deforestation within the corridor, driven by socio-economic needs such as fuelwood collection and agricultural expansion, further degrades its integrity.⁴⁵ While the overall management of the SNWC was considered "relatively sustainable" in one assessment, these underlying issues clearly indicate areas needing significant improvement.⁴⁵

In northern Tanzania, the **Kwakuchinja Wildlife Corridor**, which connects Tarangire National Park and Lake Manyara National Park, has also experienced severe impacts from human activities. By 2010, an estimated 60% of the corridor's area was under cultivation, reflecting a high rate of conversion of natural rangelands to croplands, driven by a combination of local population growth (reported at 3.8%) and immigration of people seeking agricultural land.⁴⁷ This has resulted in significant wildlife habitat loss, deforestation, and a dramatic decline in natural bushland, woodland, and grassland within the corridor.⁴⁷ HWC is prevalent, with wildlife causing crop damage and livestock depredation, and human activities leading to habitat loss and resource overexploitation.⁴⁷ Key threats identified include agricultural expansion, increasing human settlements, development of tourism infrastructure without adequate planning, and poor overall land-use planning.⁴⁷ Recommendations for addressing these issues include enhanced conservation education, comprehensive land-use planning, support for family planning initiatives to manage population pressure, and the development of alternative, conservation-compatible income-generating projects for local communities.⁴⁷

3. National Strategies and the Precarious State of Connectivity

The general condition of wildlife corridors across Tanzania has long been a cause for concern. A 2009 assessment indicated that the majority of documented corridors in the country were in a poor or critical condition, with many estimated to have less than five years remaining before they would effectively disappear due to ongoing habitat change.¹⁰ That report identified five corridors as being in an "extreme condition" at the time: Loazi-Lwafi, Ngorongoro-Manyara (Upper Kitete/Selela), Udzungwa-Selous (now partially addressed by NUWC), Wami Mbiki-Mikumi, and Wami Mbiki-Saadani.¹⁰ The primary threats driving this degradation include rapid and often unplanned agricultural expansion, unsustainable natural resource extraction (e.g., logging, charcoal production), the illegal bushmeat trade, the construction of roads and other infrastructure without adequate mitigation for wildlife movement, growing human populations and new settlements, and mining and prospecting activities.¹⁰

Tanzanian wildlife corridors have been categorized based on the level of certainty about their use and condition, ranging from unconfirmed historical routes to known and documented animal movement paths, and areas with potential for re-establishing connectivity.¹⁰ To address the precarious state of connectivity, a range of conservation needs have been identified. These include more effective management of human activities within and around corridors, formalizing the protection of key corridors (for example, through the establishment of Wildlife Management Areas - WMAs - in cooperation with local communities), fostering cross-border cooperation for transboundary corridors, undertaking habitat restoration projects in degraded areas, developing and implementing specific management plans for individual corridors, proactively addressing HWC, ensuring meaningful community engagement and benefit-sharing, conducting further research and monitoring, and securing sustainable financial support for corridor conservation and management.¹⁰

Tanzania has a vast network of formally protected areas, with approximately 44% of its total land area under some form of protection or conservation status, including National Parks, Game Reserves, Forest Reserves, and WMAs.⁴⁸ However, the effectiveness of this network in conserving biodiversity in the long term is critically dependent on maintaining functional connectivity between these areas. The official designation of the NUWC is a significant and positive step, but systemic challenges related to land-use pressures, HWC, and sustainable financing remain acute across many other critical corridors.

The establishment of **Wildlife Management Areas (WMAs)** has been a key strategy in Tanzania for devolving some wildlife management rights to local communities and for attempting to secure land for conservation outside formally protected areas, including within corridors.⁹ WMAs represent both an opportunity and a challenge.

When well-designed and effectively governed, they can provide a framework for communities to benefit from wildlife and to participate in its conservation, thereby creating incentives to maintain habitat connectivity. However, the implementation of WMAs in Tanzania has faced numerous complexities. These include challenges related to governance structures, transparency in revenue sharing, ensuring equitable distribution of benefits among community members, capacity limitations for effective management, and instances where the ecological needs of wide-ranging species may not align perfectly with the size or management objectives of individual WMAs. Thus, while WMAs are a crucial tool in the conservation toolkit, their success in contributing to functional wildlife corridors depends heavily on addressing these governance and benefit-sharing issues and ensuring they are integrated into broader landscape-level conservation planning.

A particularly acute challenge for wildlife corridors in Tanzania is the **"corridor squeeze"** resulting from the expansion of other forms of development corridors, notably agricultural initiatives like SAGCOT and major transport infrastructure projects like the Central Corridor and the TAZARA railway.¹² These large-scale development projects often traverse or are located adjacent to ecologically sensitive areas, including existing or potential wildlife corridors and protected areas.¹² This creates intense competition for land and resources, pitting economic development objectives directly against biodiversity conservation needs. For example, SAGCOT's agricultural clusters overlap with critical ecosystems in the Rufiji River basin and areas near important protected areas like Selous, Ruaha, and Mikumi.¹² The expansion of roads, railways, and large-scale farming can lead to direct habitat loss, fragmentation of wildlife populations, blockage of movement routes, and increased HWC.²¹ This situation underscores the urgent need for high-level, cross-sectoral spatial planning in Tanzania. Such planning must proactively identify critical wildlife connectivity areas and integrate their conservation requirements into the design and routing of economic and agricultural corridors. This might involve strategic zoning to designate "no-go" areas for certain types of development, establishing effective environmental offset mechanisms where impacts are unavoidable, or developing co-management agreements that seek to balance development and conservation objectives in shared landscapes. Without such integrated planning, wildlife corridors risk being progressively eroded and lost, with severe consequences for Tanzania's unique biodiversity.

C. Pan-African Perspectives on Wildlife Corridor Management:

The challenges and approaches to wildlife corridor conservation observed in Tanzania are mirrored, with local variations, across other parts of Africa. Experiences from

Kenya and Southern Africa offer valuable comparative perspectives.

1. Kenya: Community Conservancies, AWF-supported Initiatives (e.g., Amboseli, Keen Easement), and National Frameworks (e.g., Maasai Mara)

Kenya has been at the forefront of developing innovative approaches to wildlife conservation outside formal state-protected areas, with a strong emphasis on community involvement and partnerships. The **African Wildlife Foundation (AWF)** has been active in supporting corridor initiatives in Kenya, often through models that engage private landowners and local communities. A notable example is the **Keen Easement**, where a private landowner, John Keen, and his family voluntarily entered into an environmental easement agreement with AWF and the Kenya Wildlife Service (KWS) to restrict the use of their land adjacent to Nairobi National Park, keeping it open for wildlife movement and effectively adding 107 hectares to the park's functional ecosystem.⁹ AWF has also facilitated lease payments in the **Amboseli Wildlife Corridor**, a critical passage between Amboseli, Tsavo West, and Chyulu Hills National Parks, using funds generated from a partnership with Disney.⁹ (AWF's work on the Manyara Ranch Conservancy in Tanzania also exemplifies their model of creating mixed-use conservation areas to maintain connectivity⁹).

At the national level, Kenya has recognized the strategic importance of wildlife corridors. Securing these corridors and dispersal areas is a flagship project under **Kenya Vision 2030**, the country's long-term development blueprint.⁴² A collaborative effort involving government agencies (led by the Ministry of Environment and Natural Resources and KWS), communities, scientists, and conservationists led to the development of a "**Conserving Connectivity Framework**." This initiative involved mapping and assessing over 100 corridors across the country to inform a national strategy for maintaining landscape connectivity.⁴²

The **Maasai Mara ecosystem**, one of Kenya's most iconic wildlife areas, faces intense pressure from human population growth, land subdivision, expansion of agriculture and settlements, and the proliferation of fences, all of which threaten wildlife movement.⁴³ The SEMA (Secure Mara Ecosystems) Project, implemented by Vi Agroforestry, undertook detailed mapping of wildlife corridors in the Maasai Mara, particularly along the Narok-Sekenani road, identifying nine corridors and prioritizing three for urgent intervention due to their ecological importance and the threats they face.⁴³ Community conservancies have emerged as a key model in the Mara and other parts of Kenya, where local communities set aside land for conservation and tourism, often playing a crucial role in maintaining wildlife corridors and dispersal areas outside

national reserves.⁴²

Despite these efforts, challenges persist in Kenya, including ongoing habitat loss, HWC, the negative impacts of fencing on wildlife movement, and unplanned infrastructure development.⁴² Key recommendations from national assessments include the need for integrated land-use planning that incorporates conservation connectivity, enhanced community participation in biodiversity conservation, review and harmonization of policies and legislation affecting land use and conservation, and securing sustainable resources for managing these corridors.⁴²

2. Southern Africa: The KAZA TFCA – Transboundary Governance and Co-existence Models

The **Kavango Zambezi Transfrontier Conservation Area (KAZA TFCA)** is the world's largest terrestrial TFCA, spanning five countries: Angola, Botswana, Namibia, Zambia, and Zimbabwe.⁴⁴ Its vision is to conserve biodiversity at an unprecedented scale while promoting nature-based tourism as an engine for sustainable rural development.⁵⁰ Maintaining and restoring wildlife corridors is fundamental to KAZA's success, given its vast size and the transboundary nature of many of its wildlife populations, particularly elephants.

However, wildlife corridors within KAZA face significant challenges. A major historical and ongoing issue is the presence of **veterinary cordon fences**, originally erected during the colonial era (and maintained post-independence) to control the movement of livestock and prevent the spread of diseases like Foot and Mouth Disease (FMD) from wildlife to cattle, primarily to meet export market requirements for beef.⁵⁰ These fences, while serving a veterinary purpose, have had devastating impacts on wildlife by blocking ancient migratory routes, leading to population declines for species like wildebeest in Botswana's Kalahari system, and fragmenting critical habitats.⁵⁰

Agricultural expansion and associated land-use changes also pose threats to corridor integrity within KAZA.⁴⁴ **Human-Elephant Conflict (HEC)** is a particularly acute problem in many parts of the TFCA, leading to crop damage, loss of human life, and retaliatory killings of elephants. This conflict often fuels local resistance to conservation initiatives, including the establishment or maintenance of wildlife corridors, even though studies sometimes show that conflict may be more frequent along linear human settlements near roads rather than within the corridors themselves.⁴⁴ Conflicts over land ownership and access to resources further complicate corridor management.⁴⁴ The **Sobbe Corridor** in Namibia's Zambezi Region (part of KAZA) serves as an example of a contested elephant corridor where these

challenges of agricultural encroachment, HEC, and land disputes are prominent.⁴⁴ This corridor is recognized as a hybrid human-wildlife infrastructure, shaped by elephant movements but requiring human governance and intervention for its persistence.

Addressing these complex challenges in KAZA requires innovative and collaborative approaches. There is a growing recognition of the need to **co-manage animal disease threats** at the livestock-wildlife interface, moving beyond a sole reliance on fences.⁵⁰ This involves adopting a "**One Health**" perspective, which acknowledges the interconnectedness of human, animal, and environmental health, and fostering inter-sectoral collaboration between veterinary authorities, wildlife managers, and local communities. Strategies being explored include the promotion of **Commodity-Based Trade (CBT)** for livestock products, which focuses on the safety of the product rather than the FMD-status of the geographical zone of origin, potentially reducing the need for extensive barrier fencing.⁵⁰ Improving market access and economic returns for livestock farmers residing in areas with wildlife, through initiatives like CBT or other value chain enhancements, is also seen as crucial for increasing their tolerance for wildlife and their willingness to support conservation efforts, including corridors.⁵⁰ Innovative programs like the Wildlife Credits scheme in Namibia's Sobbe corridor aim to provide direct financial incentives to communities for maintaining wildlife corridors and mitigating HEC.⁴⁴

The experiences from Kenya and KAZA TFCA highlight the increasing role of **non-state actors in wildlife corridor governance**. NGOs like AWF, STEP, and Vi Agroforestry are instrumental in research, advocacy, project implementation, and facilitating community engagement.⁹ Private landowners, through mechanisms like conservation easements, can make significant contributions to securing corridor lands.⁹ Community conservancies and other forms of community-based natural resource management (CBNRM) are becoming pivotal in managing vast landscapes outside state-protected areas, often forming the very fabric of wildlife corridors.⁴² This diversification of actors suggests that future corridor conservation strategies must effectively harness and coordinate the efforts of this wide range of stakeholders, providing enabling policy frameworks, technical support, and sustainable financing mechanisms for community and private conservation initiatives.

Furthermore, the scale of initiatives like KAZA underscores that many of Africa's most critical wildlife corridors are **transboundary in nature**, requiring intricate international cooperation.¹⁰ The effective management of these ecological linchpins depends not only on sound ecological science and local community engagement but also on complex diplomatic negotiations between sovereign states, the harmonization of national policies and legislation related to land use, wildlife management, and

veterinary controls, and the establishment of joint enforcement and monitoring mechanisms. This makes transboundary corridor management a significant challenge but also an opportunity for fostering regional peace and cooperation through shared stewardship of natural resources.

D. Overarching Challenges: Land-Use Competition, Sustainable Financing, Community Engagement, and Policy Harmonization

Across Africa, the long-term viability of wildlife corridors hinges on addressing several deeply interconnected and overarching challenges.

Land-use competition is arguably the most fundamental challenge.⁹ Wildlife corridors require space, often extensive areas of natural or semi-natural habitat. This land is increasingly in demand for other human uses, including agriculture (both subsistence and commercial), livestock grazing, human settlements, infrastructure development (roads, railways, pipelines, energy projects), and resource extraction (mining, logging). This competition inevitably leads to habitat loss, degradation, and fragmentation, which are the primary threats to corridor functionality. Resolving these competing demands requires robust and participatory land-use planning processes at multiple scales (local, regional, national) that explicitly recognize and integrate the need for ecological connectivity.

Sustainable financing for wildlife corridor conservation and management is a persistent hurdle.¹⁰ Establishing, monitoring, and managing corridors, as well as mitigating HWC and providing benefits to communities who bear the opportunity costs of conservation, all require substantial and sustained financial resources. Traditional conservation funding models, often heavily reliant on government budgets (which may be constrained) and short-term donor projects, are frequently insufficient or unsustainable in the long run. There is a critical need for innovative and diversified financing mechanisms, which could include Payments for Ecosystem Services (PES) where feasible³³, revenues generated from well-managed ecotourism that are equitably shared with communities⁴⁶, conservation trust funds, private sector partnerships, carbon finance, and biodiversity offsets. However, the practical implementation of many of these mechanisms, particularly PES at a landscape scale for diffuse benefits like connectivity, can be complex. PES schemes, for example, require clear metrics for the services provided, reliable "buyers" or funders of these services, equitable systems for distributing payments to landholders or communities, and long-term commitment, all of which can be challenging to establish and maintain.⁹ A diversified funding portfolio, combining public resources, private philanthropy, and innovative market-based approaches, is likely necessary.

Meaningful community engagement is indispensable for the success of any wildlife corridor initiative.⁹ Local communities are often the de facto custodians of the lands that form corridors and are also the most directly affected by the presence of wildlife and by conservation restrictions. Effective engagement goes beyond mere consultation; it requires genuine participation in decision-making processes related to corridor identification, design, and management. It also necessitates the development of robust mechanisms for sharing the benefits derived from conservation (e.g., tourism revenue, employment) and for effectively addressing HWC in a timely and fair manner. Respect for community land rights and traditional resource management practices is paramount. A lack of a sense of ownership or perceived inequity in benefit distribution can lead to resentment and lack of cooperation from local communities, undermining conservation efforts, as noted in the Selous-Niassa corridor.⁴⁵ Human-Wildlife Conflict itself is not just a technical or ecological problem; it often becomes highly **politicized** when communities feel their concerns are ignored or that conservation priorities are imposed upon them by external actors (government or NGOs) without due consideration for their livelihoods and safety.⁴⁴ This can create significant local resistance to corridor initiatives, even if those initiatives offer long-term ecological or broader societal benefits. Therefore, HWC mitigation strategies must be comprehensive, going beyond technical solutions (like fences or compensation schemes, which may have their own limitations) to include genuine dialogue, empowerment of communities in resource management decisions, and ensuring that communities perceive tangible and equitable benefits from conservation that outweigh the costs and risks of coexisting with wildlife.

Finally, **policy harmonization** is crucial, both within countries and, for transboundary corridors, between countries.¹⁰ Within a single nation, policies across different sectors – such as conservation, agriculture, infrastructure development, land use planning, mining, and forestry – often lack coherence or may even be contradictory, leading to conflicting land uses and undermining efforts to maintain ecological connectivity. There is a need for integrated policy frameworks that explicitly recognize the importance of wildlife corridors and incorporate their conservation into sectoral planning. For transboundary corridors, harmonization of policies, legislation, and management approaches across international borders is essential for effective joint action. This includes aligning wildlife laws, veterinary regulations (especially concerning disease control measures like fences), land-use planning protocols, and HWC management strategies. Achieving such harmonization requires sustained diplomatic effort and strong institutional mechanisms for cross-border collaboration.

Table 3: Key Wildlife Corridor Initiatives and Challenges in Tanzania and

Selected African Regions

Corridor/Region	Ecological Significance (Key species, type of connectivity)	Primary Threats	Conservation Model/Key Actors (Examples)	Noteworthy Achievements/Ongoing Issues	Key Document IDs
Nyerere-Udzungwa Wildlife Corridor (NUWC), Tanzania	Elephants (connects 40% of E. Africa's population), leopard, lion, Udzungwa Red Colobus. Reconnects Udzungwa Mts & Nyerere NPs via Magombera Forest.	Historical farmland conversion, habitat fragmentation.	Government-designated (first in Tanzania); Southern Tanzania Elephant Programme (STEP); Local communities (Sole, Mang'ula, Kanyenja villages); Donors (e.g., WLT).	Achievements: Official legal protection (April 2025), community land set aside, compensation paid. Ongoing: Ensuring long-term community benefits, managing corridor effectively.	46
Selous-Niasa Wildlife Corridor (SNWC), Tanzania	Connects Selous GR (Nyerere NP) and Niassa Reserve (Mozambique), crucial for elephants, wild dogs, and other wide-ranging species. Transboundary.	Inadequate land allocation for human use leading to HWC; limited community involvement in PA management; deforestation for agriculture/fuelwood.	Primarily managed through existing PA structures and cross-border agreements (historically). Community engagement efforts ongoing.	Issues: High HWC, low sense of community ownership, ongoing habitat degradation pressures. Management considered "relatively sustainable" but needs significant	45

				improvement .	
Kwakuchinja Wildlife Corridor, Tanzania	Connects Tarangire NP and Lake Manyara NP; seasonal migration route for wildebeest, zebra, elephants, etc.	Agricultural expansion (60% cultivated by 2010), human settlement, deforestation, HWC, unplanned tourism infrastructure.	Local government land-use planning (often weak); NGO conservation efforts; research institutions.	Issues: Severe habitat loss and fragmentation, high HWC, rapid population growth. Recommendations for conservation education, land-use planning, income generation exist.	47
Amboseli Wildlife Corridor, Kenya	Connects Amboseli NP, Tsavo West NP, and Chyulu Hills NPs; vital for elephants and other migratory species.	Agricultural encroachment, human settlements, fencing, HWC.	African Wildlife Foundation (AWF) facilitated lease payments with community landowners, partnerships (e.g., Disney). Community conservancies in broader landscape.	Achievements: Maintained some connectivity through lease schemes. Ongoing: Sustaining funding for leases, addressing persistent land-use pressures and HWC.	9
Maasai Mara Ecosystem Corridors, Kenya	Links Maasai Mara National Reserve with Serengeti NP	Land subdivision, fencing, agricultural expansion,	Community conservancies; National/County	Achievements: Establishment of numerous	42

	(Tanzania) and surrounding community conservancies; critical for Great Migration and resident wildlife.	settlements, infrastructure (roads), HWC.	Government (Vision 2030, County Spatial Plans); NGOs (e.g., Vi Agroforestry/ SEMA project mapping & stakeholder engagement).	community conservancies. Issues: Nine corridors along Narok-Sekenani road identified, 3 prioritized for urgent action due to severe threats from development and fences.	
KAZA TFCA Corridors (e.g., Sobbe, Namibia)	Transboundary connectivity for vast elephant populations, lions, wild dogs, ungulates across 5 Southern African countries.	Veterinary cordon fences (major barrier); agricultural expansion; HEC; land ownership conflicts; infrastructure development .	Transfrontier Conservation Area (TFCA) governance structure; National governments ; NGOs; Community-Based Natural Resource Management (CBNRM) programs; AHEAD initiative.	Achievements: KAZA established as world's largest TFCA. Issues: Veterinary fences remain a huge impediment; HEC is widespread; need for harmonized policies and co-management of disease/land use; funding for corridor maintenance and HWC mitigation. Sobbe corridor contested.	44

VI. Synthesis: Navigating Intersections, Synergies, and Conflicts in Corridor Development

The proliferation of various types of development corridors across Africa—economic, infrastructure, agricultural, and wildlife—inevitably leads to complex interactions within shared geographical spaces. Understanding these intersections, identifying potential synergies, and proactively managing inherent conflicts is crucial for ensuring that corridor development contributes to sustainable and equitable outcomes rather than exacerbating existing challenges or creating new ones.

A. The Convergence of Corridors: Geographic Overlaps and Competing Development Agendas

A defining characteristic of the current development landscape is the **spatial overlap** of different corridor initiatives. Economic and infrastructure corridors, such as SAGCOT or the Central Corridor in Tanzania, are frequently planned or routed through or adjacent to ecologically sensitive areas, including formally protected areas and landscapes that serve as existing or potential wildlife corridors.¹² For instance, the infrastructure developed for SAGCOT also serves as a foundational pillar for the TAZARA corridor, and SAGCOT's agricultural clusters are situated within the ecologically significant Rufiji River basin, which is also home to important wildlife habitats and protected areas.¹²

This convergence often leads to **competing development agendas and objectives**:

- **Economic/Infrastructure vs. Wildlife Conservation:** The construction and operation of major transport infrastructure (roads, railways, pipelines) and the associated development of industrial zones or large-scale resource extraction projects can directly conflict with wildlife conservation goals. Such developments can lead to habitat fragmentation, block critical wildlife movement routes, increase the incidence of human-wildlife conflict (HWC) as animals encounter new barriers or human activities, and cause general degradation of ecosystems through pollution or resource depletion.¹¹ The LAPSSET corridor, for example, has raised significant concerns regarding its potential impacts on pastoralist mobility patterns and biodiversity.²
- **Agricultural Expansion vs. Wildlife Conservation:** The expansion of agricultural land, a primary objective of many Agricultural Growth Corridors (AGCs), directly competes with wildlife for land and water resources. As farming activities encroach into areas previously used by wildlife or serving as corridors, natural habitats are converted, water sources may be diverted or depleted, and HWC (such as crop raiding by elephants or livestock predation by carnivores) often

intensifies.⁸

While conflicts are prominent, **potential synergies**, though less explicitly detailed in the provided materials, can be inferred. For example, well-planned and sensitively designed infrastructure within economic corridors could theoretically support the development of sustainable eco-tourism in nearby wildlife areas, provided that access is managed and negative impacts are minimized. Revenues generated from successful economic or agricultural corridors, if managed transparently and equitably, could potentially be channeled into a dedicated fund to support conservation efforts, including the management of wildlife corridors. Furthermore, "smart corridor" technologies, primarily envisaged for transport and logistics efficiency, could potentially be adapted for environmental monitoring purposes, such as tracking deforestation, water quality, or even wildlife movements in some contexts. However, realizing such synergies requires a deliberate and integrated planning approach that actively seeks to harmonize different objectives from the outset.

The prioritization of certain economic corridors, particularly those focused on resource extraction (e.g., mining, oil and gas) or large-scale monoculture agriculture, can implicitly lead to a "**sacrifice zone**" **mentality** if not carefully counterbalanced. In such scenarios, areas deemed critical for these economic activities might receive overwhelming development focus, while other areas—often those vital for biodiversity, ecosystem services, or the livelihoods of marginalized traditional communities—are effectively deprioritized or treated as acceptable losses in the pursuit of national economic goals.¹¹ This highlights the risk that unless a genuine integrated landscape management approach is adopted—one that gives equitable consideration and weight to ecological integrity, social equity, and cultural heritage alongside economic returns—the rhetoric of "sustainable development" can mask practices that lead to irreversible environmental damage and social disruption. A paradigm shift is needed from purely sector-specific corridor planning towards holistic, multi-functional landscape planning where trade-offs are explicitly acknowledged, rigorously assessed, and proactively mitigated, and where certain ecologically or culturally critical areas are recognized as "no-go" zones for incompatible forms of development.

Another critical issue arising from the convergence of multiple development activities within a corridor is the challenge of assessing and managing **cumulative impacts**. While individual projects (e.g., a specific road segment, a new mine, an irrigation scheme) may undergo Environmental Impact Assessments (EIAs), these often focus on the direct impacts of that single project in isolation.²¹ The cumulative environmental and social stress resulting from the aggregation of multiple projects and activities within a broader development corridor—such as a new highway, an adjacent pipeline,

several large agricultural schemes, expanding settlements, and increased water abstraction—is frequently poorly understood, assessed, and managed. The SAGCOT initiative's undertaking of a Strategic Regional Environmental Assessment (SREA) is a positive step towards addressing this, but the effective implementation and actual influence of such broader assessments on decision-making can be challenging.³¹ There is a pressing need for the more widespread and effective application of Strategic Environmental Assessments (SEAs) and robust cumulative impact assessment methodologies for entire corridor programs, not just individual project components. This would enable a more comprehensive understanding of the potential aggregated stresses on ecosystems and communities and allow for more proactive and adaptive management strategies to be put in place.

B. Towards Integrated Corridor Planning: Balancing Economic, Social, and Environmental Objectives

The clear need to navigate the complex interactions and potential conflicts between different development agendas has led to a growing call for **integrated corridor planning**. This approach seeks to move beyond siloed, sector-specific planning to a more holistic framework that attempts to balance economic, social, and environmental objectives from the outset. The PIDA-PAP, for instance, explicitly states its adoption of an integrated corridor development approach.¹³ SAGCOT's Greenprint strategy is another example of a deliberate effort to embed environmental and social sustainability into a primarily agricultural economic development initiative.³³ The World Bank's "infrastructure-plus" approach for the Nacala Corridor, which combines physical infrastructure upgrades with trade facilitation reforms and support for value chain development, also reflects a move towards more comprehensive planning.²⁶

Several **tools and frameworks** are available to support integrated corridor planning:

- **Strategic Environmental Assessment (SEA) and Environmental Impact Assessment (EIA)** are crucial for identifying potential negative impacts and informing decision-making. The need for enhanced capacity in SEA/EIA was identified as a priority for Tanzanian corridors.²¹ SAGCOT's development of an SREA and an Environmental and Social Management Framework (ESMF) are examples of such tools being applied.³¹
- **Comprehensive land-use planning** at national, regional, and local levels is essential for managing land-use competition, allocating land for different purposes (including conservation), and preventing uncontrolled development [³¹, S_S

Works cited

1. developmentcorridors.org, accessed May 8, 2025, <https://developmentcorridors.org/development-corridors/#:~:text=A%20development%20corridor%20is%20a,such%20as%20railways%20or%20pipelines.>
2. eprints.whiterose.ac.uk, accessed May 8, 2025, https://eprints.whiterose.ac.uk/id/eprint/152183/3/Mobilizing_research_on_Africa_s_development_corridors_-_Enns.pdf
3. Oxford Public International Law: Economic Corridors, accessed May 8, 2025, <https://opil.ouplaw.com/display/10.1093/law-epil/9780199231690/law-9780199231690-e2279>
4. Economic corridor - Wikipedia, accessed May 8, 2025, https://en.wikipedia.org/wiki/Economic_corridor
5. The long winding road to Africa's infrastructure development | Africa Renewal, accessed May 8, 2025, <https://www.un.org/africarenewal/magazine/january-2025/long-winding-road-africa%E2%80%99s-infrastructure-development>
6. Exploring Africa's Main Road Corridors and Ports: An Overview - African Land, accessed May 8, 2025, <https://african.land/blog/article/exploring-africas-main-road-corridors-and-ports-an-overview-b603>
7. Trans-African Highway network - Wikipedia, accessed May 8, 2025, https://en.wikipedia.org/wiki/Trans-African_Highway_network
8. iaes.cgiar.org, accessed May 8, 2025, https://iaes.cgiar.org/sites/default/files/ISPC_StrategyTrends_DevelopmentCorridors.pdf
9. Wildlife Corridors | African Wildlife Foundation, accessed May 8, 2025, <https://www.awf.org/wildlife-corridors>
10. www.stzelephants.org, accessed May 8, 2025, <http://www.stzelephants.org/download/wildlife-corridors/Wildlife%20Corridors%20in%20Tanzania.pdf>
11. iwgia.org, accessed May 8, 2025, https://iwgia.org/images/publications/0599_LAPSSET_report.pdf
12. Tanzania - Development Corridors Partnership, accessed May 8, 2025, <https://developmentcorridors.org/tanzania/>
13. www.jica.go.jp, accessed May 8, 2025, https://www.jica.go.jp/activities/issues/urban/_icsFiles/afieldfile/2023/12/15/africa_detail_en.pdf
14. Tracking Africa's Progress in Figures - African Development Bank, accessed May 8, 2025, https://www.afdb.org/fileadmin/uploads/afdb/Documents/Publications/Tracking_Africa%E2%80%99s_Progress_in_Figures_-_Infrastructure_Development.pdf
15. What to know about the Lobito Corridor—and how it may change ..., accessed May 8, 2025, <https://www.atlanticcouncil.org/blogs/africasource/what-to-know-about-the-lobi>

- [to-corridor-and-how-it-may-change-how-minerals-move/](#)
16. Assessing progress after the first decade (2014-2023) of Agenda 2063, accessed May 8, 2025,
<https://mo.ibrahim.foundation/news/2024/assessing-progress-after-first-decade-2014-2023-agenda-2063>
 17. Press Briefing Notes H.E. Dr Amani Abou-Zeid Commissioner ..., accessed May 8, 2025,
<https://au.int/en/pressreleases/20250216/press-briefing-notes-he-dr-amani-abou-zeid-commissioner-infrastructure-and>
 18. Programme for Infrastructure Development in Africa | African ..., accessed May 8, 2025,
<https://www.afdb.org/en/topics-and-sectors/initiatives-partnerships/programme-for-infrastructure-development-in-africa-pida>
 19. 2025 Annual Meetings: Regional corridors as drivers of continental ..., accessed May 8, 2025,
<https://www.afdb.org/en/news-and-events/2025-annual-meetings-regional-corridors-drivers-continental-integration-81924>
 20. Welcome to PIDA - The Virtual PIDA Information Center, accessed May 8, 2025,
<https://www.au-pida.org/>
 21. Development Corridors in Tanzania - A scoping study, accessed May 8, 2025,
<https://developmentcorridors.org/wp-content/uploads/2019/07/Tanzania-Scoping-Study.pdf>
 22. Abidjan-Lagos Corridor: West Africa's \$15.6 Billion Game-Changing ..., accessed May 8, 2025,
<https://www.africainvestmentforum.com/index.php/en/news/news/abidjan-lagos-corridor-west-africas-156-billion-game-changing-highway-takes-shape-1186>
 23. Freedom Railway - Boston Review, accessed May 8, 2025,
<https://www.bostonreview.net/articles/jamie-monson-freedom-railway-tazara-tanzania/>
 24. preliminary master plan for lamu port city and investment framework, accessed May 8, 2025,
<https://lands.go.ke/wp-content/uploads/2021/04/Final-LAPSSET-Planning-and-Investment-Framework.pdf>
 25. www.afdb.org, accessed May 8, 2025,
https://www.afdb.org/sites/default/files/documents/projects-and-operations/multi-national_-_pcr_nacala_road_corridor_development_eng.pdf
 26. Project-Information-Documents-Integrated-Safeguards-Data-Sheet-Southern-Africa-Trade-and-Connectivity-Project-formerly-Nacala-Corridor-P164847.docx, accessed May 8, 2025,
<https://documents1.worldbank.org/curated/en/166721614884642793/Project-Information-Documents-Integrated-Safeguards-Data-Sheet-Southern-Africa-Trade-and-Connectivity-Project-formerly-Nacala-Corridor-P164847.docx>
 27. supplementary grant-study for the abidjan # lagos corridor highway ..., accessed May 8, 2025,
<https://ewsdata.rightsindevelopment.org/projects/p-z1-db0-234-supplementary->

- [grant-study-for-the-abidjan-lagos/](#)
28. TAZARA Railway to Receive USD 1.4 Billion Investment From China ..., accessed May 8, 2025,
<https://www.zambianinvest.com/transport/tazara-railway-investment-china-revitalization/>
 29. CCECC to invest \$1.4bn to revitalise Tanzania-Zambia Railway, accessed May 8, 2025,
<https://www.railway-technology.com/news/ccecc-tanzania-zambia-railway-authority/>
 30. Full article: Resurrecting a presumed ghost: the challenges and revival of the Southern agricultural growth corridor of Tanzania in a changing political landscape, accessed May 8, 2025,
<https://www.tandfonline.com/doi/full/10.1080/01436597.2025.2491092?src=>
 31. documents.worldbank.org, accessed May 8, 2025,
<https://documents.worldbank.org/curated/en/462601468311407035/pdf/E30750v20EAOP10120AFR0EAOP1257280v2.pdf>
 32. African Agricultural Growth Corridors: Who benefits, who loses? - farmlandgrab.org, accessed May 8, 2025,
<https://www.farmlandgrab.org/post/21421-african-agricultural-growth-corridors-who-benefits-who-loses>
 33. api.ecoagriculture.org, accessed May 8, 2025,
https://api.ecoagriculture.org/uploads/A_Vision_for_AGG_in_SAGCOT_Overview_June_2013_5bca211d36.pdf
 34. wwfafrica.awsassets.panda.org, accessed May 8, 2025,
<https://wwfafrica.awsassets.panda.org/downloads/sagcot-impact-brief.pdf>
 35. www.iisd.org, accessed May 8, 2025,
<https://www.iisd.org/system/files/publications/savi-tanzania-sagcot-initiative.pdf>
 36. Reinforcing pastoralism in the Sahel and West Africa: a decade of ..., accessed May 8, 2025,
<https://blogs.worldbank.org/en/africacan/reinforcing-pastoralism-in-the-sahel-and-west-africa-a-decade-of-progress-and-the-path-forward>
 37. Central African Republic Overview: Development news, research ..., accessed May 8, 2025,
<https://www.worldbank.org/en/country/centralafricanrepublic/overview>
 38. Mobilizing the Southern Agricultural Growth Corridor of Tanzania: A Case Study - Harvard Kennedy School, accessed May 8, 2025,
https://www.hks.harvard.edu/sites/default/files/centers/mrcbg/programs/crri/files/report_48_SAGCOT_0.pdf
 39. UNITED REPUBLIC OF TANZANIA MINISTRY OF WORKS AND ..., accessed May 8, 2025,
<https://www.tanroads.go.tz/common/attachments/disclosure/63c1bb50827a8a656c2be074683a674c.pdf>
 40. Tanzania - Additional Financing for the Second Central Transport ..., accessed May 8, 2025,
<https://documents.worldbank.org/en/publication/documents-reports/documentd>

- [etail/851091468312014893/environmental-and-social-impact-assessment](#)
41. Why revitalizing the TAZARA railway matters to China and Africa?, accessed May 8, 2025,
<https://sonna.so/en/why-revitalizing-the-tazara-railway-matters-to-china-and-africa/>
 42. www.kws.go.ke, accessed May 8, 2025,
<https://www.kws.go.ke/sites/default/files/2019-11/Wildlife%20Corridors%20and%20Dispersal%20Areas%20Report%20Summary%20and%20Fact%20Sheet%20-%20July2017.pdf>
 43. Report on the *Status and Viability of Wildlife Corridors in the Maasai Mara Ecosystem* Launched - Vi Agroforestry, accessed May 8, 2025,
<https://www.viagroforestry.org/news/report-on-the-status-and-viability-of-wildlife-corridors-in-the-maasai-mara-ecosystem-launched/>
 44. (PDF) Elephant corridors in the Kavango-Zambezi transfrontier ..., accessed May 8, 2025,
https://www.researchgate.net/publication/389579735_Elephant_corridors_in_the_Kavango-Zambezi_transfrontier_conservation_area_KAZA_TFCA_environmental_infrastructures_for_a_greener_anthropocene_in_Namibia's_Mudumu_landscape
 45. Impact of Managing Selous-Niassa Wildlife Corridor on Socio ..., accessed May 8, 2025,
https://www.researchgate.net/publication/385514022_Impact_of_Managing_Selous-Niassa_Wildlife_Corridor_on_Socio-economic_Activities
 46. First ever wildlife corridor officially designated in Tanzania, accessed May 8, 2025,
<https://www.worldlandtrust.org/news/2025/04/first-ever-wildlife-corridor-officially-designated-in-tanzania/>
 47. Impacts of human settlements and land use changes in Kwakuchinja ..., accessed May 8, 2025,
https://www.researchgate.net/publication/343366222_Impacts_of_human_settlements_and_land_use_changes_in_Kwakuchinja_wildlife_corridor_Northern_Tanzania
 48. Biodiversity and Conservation in Tanzania | Congress.gov | Library ..., accessed May 8, 2025, <https://crsreports.congress.gov/product/pdf/R/R48146/2>
 49. www.viagroforestry.org, accessed May 8, 2025,
<https://www.viagroforestry.org/app/uploads/2020/10/status-and-viability-of-wildlife-corridors-in-the-maasai-mara-ecosystem-report.pdf>
 50. Two decades of One Health in action: Enabling sustainable wildlife ..., accessed May 8, 2025,
<https://www.cabidigitallibrary.org/doi/10.1079/cabionehealth.2025.0006>