

Journal of Conflict Management & Sustainable Development



- Reconceptualizing Corporate Governance for Sustainable Development Hon. Dr. Kariuki Muigua
- Harnessing technology to foster biodiversity conservation for Sustainable Development Anne Wairimu Kiramba
- Reviewing Kenya's Civil Aviation (Unmanned Aircraft Systems) Regulations, 2020 to Address the Threat of Hostile Drones and Artificial Intelligence Michael Sang
- The Mental Health Situation Among Teachers in Learning Institutions in Kenya: A Concern for Attainment of Quality Education (SDG. No. 4) Dr. Winnie Waiyaki & Dr. Gowon Cherui
- Fostering Africa's Blue Economy: Problems and Promises Hon. Dr. Kariuki Muigua
- Operationalizing the Compensation of Victims of Terrorism Fund in Kenya: A Step Towards Compliance with Statutory and International Obligations Michael Sang
- Journal Review: Alternative Dispute Resolution Journal Vol 11 (3) Mwati Muriithi
- Cultivating Sustainability: Nurturing Resilient Agriculture for a Greener Future Dr. Dynesius Nyangau
- Fragile Ecosystems, Fragile Peace: Examining the Fragility of Peace and Security in the Face of Climate Change in Northern Kenya Ndirangu Ngunjiri
- Actualizing Africa's Green Dream Hon. Dr. Kariuki Muigua
- The Role of Alternative Dispute Resolution in the Management of Water Related Disputes in Kenya Maryanne Mburu
- Parliamentary Scrutiny of Statutory Instruments in Kenya: Problematic Implications for Criminal Justice and Proposals for Amendment Michael Sang

Volume 10

Issue 5

2023

ISBN 978-9966-046-15-4

Fragile Ecosystems, Fragile Peace: Examining the Fragility of Peace and Security in the Face of Climate Change in Northern Kenya

*By: Ndirangu Ngunjiri**

Abstract

This paper investigates the fundamental issue of environmental change and its unfavorable effect on harmony and security in Northern Kenya. Northern Kenya Counties (NKC), more so climate change in transforming and redefining the way society think about security and peace, northern Kenya is highly vulnerable to climate change, including flooding, droughts and, most recently, a locust infestation. This is likely to tackle on resource use problems in NKCs, this involves activities that connect between climate change and conflict and to increase understanding among policymakers, academics, and the general public. The study was conducted based on primary data from 45 cases in NKCs. In total, 37 archetypical patterns were extracted, and the following implications were observed, projected climate change poses a serious threat to Kenya's national security; it acts as a threat multiplier for instability in some of the most volatile regions in Kenya. Climate change-related shifts in rainfall patterns and increased frequency of droughts have led to resource scarcity and competition, exacerbating existing social and economic vulnerabilities. Local authorities lack the resources, capacity, and coordination needed to effectively manage the impacts of climate change on communities. Climate change-related environmental degradation has led to increased migration and displacement. These findings benefit Northern Kenya Counties and other regions pursuing people dependent on natural resources for their livelihoods. Conflict-sensitive adaptation strategies are needed. Such strategies should take into account the potential unintended consequences of adaptation measures on

** PhD Fellow, Faculty of Business and Management Science, University of Nairobi*

conflict dynamics and prioritize the participation of marginalized communities in decision-making processes. International support is critical to addressing the climate change threat to peace and security in NKC.

The disruption of traditional livelihoods due to climate change further compounds insecurity in Northern Kenya. Pastoralists, heavily dependent on grazing lands and water sources, face immense challenges as these resources become increasingly scarce (Kilian, 2021). Losing livelihood opportunities pushes individuals into Poverty, erodes social cohesion, and increases vulnerability to exploitation and radicalization. Disenfranchised youth, lacking viable economic alternatives, are particularly susceptible to recruitment by extremist groups, posing additional security risks within the region. (Rachael, 2022).

The security implications of climate change in Northern Kenya extend beyond the region. Its proximity to conflict-prone areas such as Somalia and South Sudan heightens security risks. According to (Kimtai, 2023), Climate-induced migration and resource scarcity create conditions conducive to the spread of violent extremism and arms trafficking. The resulting destabilization can spill over into neighboring regions, exacerbating conflicts and burdening fragile states. Addressing climate change and its security implications requires collaborative regional efforts and comprehensive strategies to build resilience and promote sustainable development.

In conclusion, climate change severely threatens peace and security in Northern Kenya, exacerbating existing vulnerabilities and tensions. Urgent action is necessary to comprehensively address climate change, integrating climate resilience, conflict prevention, sustainable development, and effective governance. By doing so, Northern Kenya can build a resilient and secure future for its communities, mitigating the security risks amplified by climate change.

Keywords: *Climate Change, Peace, Kenya, Poverty, Conflict, Water, Environment, Pasture*

1. Introduction

Environmental change significantly compromises harmony and security, and one of the places where this danger is more noticeable is Northern Kenya (Kimtai, 2023). Arranged in a district previously troubled with various difficulties, including destitution, political precariousness, and ethnic pressures, environmental change compounds existing weaknesses, elevates social strains, and subverts harmony and security (Rachael, 2022). This section investigated the complicated connection between environmental change and its antagonistic impacts on the harmony and security of Northern Kenya. By digging into the different elements of this perplexing issue, this paper revealed insight into the dire requirement for complete methodologies to address environmental change to cultivate security, versatility, and manageable advancement in the area.

Northern Kenya is an immense and different locale described by its delicate biological system, bone-dry and semi-parched lands, and overwhelmingly provincial populace (Africa, 2020). The district has various ethnic gatherings, including the Turkana, Samburu, Borana, Rendille, and Gabra, each with unmistakable social customs and job rehearses. Notwithstanding, the difficulties the effects of environmental change intensify these networks face.

Climate change has become progressively clear in Northern Kenya, appearing through changing precipitation patterns, rising temperatures, and outrageous climate periods (Kilian, 2021). Delayed dry seasons have become more continuous, leaving the area wrestling with water shortage, lessening fields, and diminished

farming efficiency (Rachael, 2022). Such climate instigated difficulties seriously undermining the area's social texture, monetary steadiness, harmony, and security. One of the most significant consequences of climate change in Northern Kenya is the escalation of resource scarcity (Ruto, 2009). As rainfall becomes increasingly erratic, agricultural yields decline, exacerbating food insecurity and economic hardships. Pastoralists, who rely on grazing lands and water sources, face tremendous challenges as these vital resources become scarce. The resulting competition for limited resources intensifies tensions and conflicts within and between communities. Cattle rustling, land disputes, and skirmishes over water sources have become distressingly common, eroding social cohesion and stability (ZAWYA, n.d.).

Moreover, climate change-induced displacement has become a pressing concern in Northern Kenya (Ruto, 2009). Desertification, prolonged droughts, and unpredictable weather patterns force communities to abandon their homes in search of alternative livelihoods and resources (Kilian, 2021). The resulting influx of migrants into resource-constrained areas strains local resources and infrastructure, intensifying competition and conflicts over land, water, and essential services. Displaced individuals face heightened vulnerabilities and are often exposed to exploitation and abuse, further exacerbating social tensions and compromising security (Lamprey, n.d.).

Disrupting traditional livelihoods due to climate change further compounds insecurity in Northern Kenya (J.M.Lewis, 1963). Pastoralists, who have practiced nomadic herding for generations, find their way of life threatened by diminishing pasturelands and water sources. This loss of livelihood opportunities pushes

individuals into Poverty and erodes community cohesion and stability (Kilian, 2021). The disenchanting youth, lacking economic prospects, become vulnerable to recruitment by extremist groups, posing additional security risks and exacerbating existing conflicts (Lamprey, n.d.).

The environmental change represents a severe and multifaceted danger to harmony and security in Northern Kenya (Lamprey, n.d.). The unfavorable effects of climate change intensify asset shortage, sabotage livelihoods, debilitate establishments, and enhance territorial security gambles. Critical and deliberate activity is expected to address environmental change completely, advance practical turn of events, fabricate flexibility, and cultivate harmony and dependability. Tending to environmental change in Northern Kenya can prepare for a safer, prosperous, and strong future for the locale's networks (Kilian, 2021).

2. Some examples of climate change as a threat to peace and security

Climate change has emerged as a critical global challenge, with far-reaching implications for various sectors, including peace and security. This literature review aims to provide an overview of the existing research and scholarly discourse on climate change as a threat to peace and security in Northern Kenya. By synthesizing the essential findings and perspectives from previous studies, this review aims to contribute to a deeper understanding of the region's complex dynamics and implications of climate change.

2.1 Climate Change and Resource Scarcity:

Climate change in Northern Kenya has significant ramifications for asset shortage, which adds to clashes and pressures inside the region

(ZAWYA, n.d.). The changing rainfall patterns, unusual climate occasions, and delayed dry spells related to environmental change have brought about water shortage, diminished rural efficiency, and disagreements regarding restricted assets like land and water. These difficulties have been broadly contemplated, uncovering the multifaceted connection between asset shortage, environmental change, and clashes in Northern Kenya. Asset-based viciousness is a considerable sign of struggles set off by environmental change-prompted asset shortage in Northern Kenya. Studies have archived various contentions over regular assets, like animal robbery and attacks, escalated by ecological difficulties (Kintai, 2023).

Resource based violence is not exclusively determined by rivalry for scarce assets but, conversely, is impacted by social, financial, and political variables (Ongoro, 2010). These struggles frequently arise from a mind-boggling transaction of verifiable complaints, power elements, and financial variations. Understanding the complex idea of struggles in Northern Kenya is pivotal for creating compelling procedures to address and relieve the effects of environmental change on asset shortage and security. Livestock theft and raiding are prevalent forms of resource-based violence in Northern Kenya. As climate change reduces the availability of suitable grazing lands and water sources, competition over these resources intensifies, leading to conflicts between pastoralist communities. The struggle to secure adequate pasture for livestock drives some individuals to resort to stealing or raiding the livestock of other communities, further fueling tensions and exacerbating existing conflicts (Ongoro, 2010).

Land disputes and conflicts over land ownership are other manifestations of resource-based violence influenced by climate change (African, 2017). As land degradation and desertification

expand in arid and semi-arid areas, communities face increased competition for fertile land. Disputes arise over land rights, access to productive agricultural areas, and grazing lands, often resulting in confrontations and violence. These conflicts are driven not only by the scarcity of land but also by underlying issues of historical land tenure, inadequate governance, and ineffective dispute-resolution mechanisms.

For one to address the complex dynamics of resource-based violence in Northern Kenya, one requires a comprehensive approach beyond addressing immediate resource scarcity (Wairimu, 2017).

Endeavors ought to zero in on supportable assets, the executives, fair dispersion of assets, reinforcing administration frameworks, advancing compromise systems, and tending to fundamental financial and political elements (Wairimu, 2017). Building versatility, encouraging exchange, and advancing collaboration among networks are fundamental for accomplishing long-haul harmony, security, and practical asset usage, even with environmental change-prompted asset shortage (Wairimu, 2017).

By understanding the linkages between environmental change, asset shortage, and clashes, policymakers, and partners can foster designated mediations that address the main drivers of asset-based savagery, advance reasonable asset executives' practices, and cultivate tranquil concurrence in Northern Kenya (Wairimu, 2017).

2.2 Climate-Induced Displacement

Environmental change in Northern Kenya has prompted the removal of networks because of desertification, land corruption, delayed dry spells, and water shortage (Opiyo, n.d.). These natural difficulties

force individuals to leave their conventional grounds and look for elective jobs, significantly interrupting their lives and the social texture of country networks. Environmental change adds to the developing dry and semi-bone-dry locales in Northern Kenya. As desertification advances, already tenable grounds become unacceptable for farming and other work exercises. This extension uproots networks from their customary terrains and makes their vocations impractical.

Land disputes brought about by climate change decrease the ripeness and efficiency of agrarian terrains in Northern Kenya (Muigua, n.d.). The antagonistic impacts of environmental change include delayed dry spells, inconsistent precipitation designs, expanded soil disintegration, corrupt soil quality, and exhaust fundamental supplements. Thus, ranchers and country networks are compelled to forsake their territories because of the lessened limit of the dirt to help feasible agrarian practices. This deficiency of valuable rural land further worsens the difficulties looked by networks in the area. Prolonged droughts and water scarcity drive communities in Northern Kenya to migrate in search of accessible water sources (Rachael, O. 2022). As water becomes increasingly scarce, competition and conflicts arise between migrating and host communities over limited water resources. This competition strains already scarce resources and heightens tensions within and between communities (Muigua, n.d.).

The loss of grazing lands due to prolonged droughts forces pastoralist communities to move with their livestock in search of suitable pastures. This displacement leads to conflicts and resource competition between migrating pastoralist groups and settled communities along migration routes. The strain on available grazing

lands and water sources intensifies existing social and ethnic divisions, creating further instability in the region (Lamprey, n.d.).

Addressing the challenges of climate-induced displacement in Northern Kenya requires comprehensive strategies focusing on sustainable land management, diversification of livelihood activities, and supporting affected communities. Implementing measures to mitigate desertification and land degradation, such as reforestation, soil conservation, and water harvesting techniques, can help restore the productivity of degraded lands. Developing resilient water management systems and promoting sustainable agricultural practices can alleviate the impacts of prolonged droughts and water scarcity (Kintai, 2023). Additionally, supporting pastoralist communities with access to grazing lands, veterinary services, and alternative income-generating activities can contribute to their resilience and reduce conflicts along migration routes.

By implementing these strategies, Northern Kenya can address the root causes of climate-induced displacement, mitigate conflicts arising from resource competition, and foster sustainable and resilient communities (Rachael, O. 2022). The protection and restoration of livelihoods, along with the preservation of cultural practices and traditional knowledge, are essential for ensuring the wellbeing and stability of affected populations.

2.3 Strained Resources and Heightened Tensions

Climate change-induced migration and displacement in Northern Kenya significantly strain resources and heighten social tensions (Detges, 2014). The influx of migrants into host communities creates challenges related to resource availability, social integration, and competition over land and water (Detges, 2014). These factors

contribute to potential conflicts and instability within the region. The arrival of migrants strains the resources and infrastructure of host communities in Northern Kenya. The sudden increase in population places a burden on basic amenities such as water, food, healthcare, and housing. The limited availability of these resources leads to competition and can create tensions between the host communities and the newly arrived migrants (Detges, 2014). The process of integrating migrants into host communities poses social and cultural challenges. Differences in traditions, customs, and resource-sharing may result in social tensions and exclusion. The presence of diverse ethnic groups and the need to navigate unfamiliar social dynamics can lead to misunderstandings and conflicts between the host and migrant communities (J.M.Lewis, 1963).

Migrant communities often compete with host communities for fertile land and grazing areas. The scarcity of available land resources exacerbates existing land disputes and ownership conflicts, leading to heightened insecurity and tensions (J.M.Lewis, 1963). Disputes over land and grazing rights can escalate into violent confrontations and perpetuate a cycle of conflict. Migrants and host communities vie for limited water resources, intensifying conflicts and tensions. As water sources become strained, competition over access to water increases, aggravating existing social and ethnic divisions. Disputes over water management and infrastructure exacerbate the already fragile situation, posing a threat to peace and stability in the region (Otunga, 2023).

Displaced communities facing similar challenges and relying on the same limited resources may engage in conflicts and violent confrontations (Otunga, 2023). Competition over water points, grazing lands, and livelihood opportunities can fracture social

cohesion and further instability within the displaced communities. Displacement and resource competition can potentially exacerbate ethnic and political tensions in Northern Kenya. Manipulation of ethnic identities and competition over resources can escalate into inter-communal conflicts (Otunga, 2023). This further fragments community and undermines peace and security in the region.

Addressing the challenges posed by human displacement and migration requires comprehensive strategies that focus on conflict resolution, equitable resource sharing, and integrating displaced communities into host communities (Kimtai, 2023). Northern Kenya can foster peace, security, and social cohesion amidst climate-induced migration pressures by promoting inclusive approaches and sustainable resource management. Efforts to address the root causes of conflicts, support host communities, and ensure the fair distribution of resources are crucial to building a resilient and harmonious society (Otunga, 2023).

Climate change impacts in Northern Kenya significantly undermine livelihoods, exacerbating Poverty, food insecurity, and economic instability (Otunga, 2023). This section explores the dimensions of livelihood insecurity and its implications for peace and security in the region. Climate change significantly impacts agriculture in Northern Kenya, affecting crop productivity and food security (Kilian, 2021). Erratic rainfall patterns and prolonged droughts disrupt agricultural activities and reduce crop yields. Farmers struggle to secure reliable water sources for irrigation, making it challenging to sustain their livelihoods and maintain consistent agricultural productivity. Climate-related hazards such as floods or dry spells contribute to crop failures and food shortages (Kilian, 2021). Reduced access to nutritious food increases vulnerability to malnutrition, particularly

among marginalized communities who rely heavily on agriculture for sustenance. Desertification and droughts reduce grazing lands and water sources, negatively impacting pastoralist communities. The decline in available pasture and water affects livestock productivity, leading to economic losses and posing challenges to the traditional pastoralist way of life (Kilian, 2021).

Climate change-related stresses such as heatwaves and disease outbreaks affect livestock health, leading to significant mortality rates. The loss of livestock reduces income generation, exacerbating Poverty and food insecurity among pastoralist communities. Climate change influences water availability and quality, posing challenges for communities in accessing clean water (Kilian, 2021).

Changing rainfall patterns and increased water demand strain water sources, resulting in water scarcity and reduced water quality. Limited access to clean water affects communities' health, hygiene, and overall wellbeing. Water scarcity forces women and girls to travel long distances to collect water, impacting their education and exposing them to safety risks (Rachael, O. 2022). The disproportionate responsibility placed on women for securing water exacerbates gender inequalities.

2.4 Vulnerability and Extremist Recruitment:

Climate change-induced vulnerabilities contribute to social and economic instability, creating conditions that can facilitate extremist recruitment (Rachael, O. 2022). Livelihood disruptions and economic instability resulting from climate change contribute to increased poverty rates. Poverty, in turn, drives social discontent, creating conditions conducive to recruitment into extremist groups (Rachael, O. 2022). Climate change-induced resource scarcity exacerbates

existing inequalities in resource distribution. Perceptions of injustice and marginalization can fuel social tensions and undermine peace and security (ZAWYA, n.d.). Vulnerability resulting from livelihood insecurity makes communities susceptible to exploitation by criminal networks. Recruitment into illicit activities, such as smuggling, can contribute to social instability and insecurity. Furthermore, disillusionment and limited economic opportunities resulting from climate-induced livelihood insecurities can make individuals more susceptible to radical ideologies, thus increasing the potential for extremist recruitment and engagement (Wairimu, 2017).

Livelihood insecurity intensifies youth unemployment and limited income-generating opportunities (Rono, 2023). Marginalized youth populations are more likely to be recruited into criminal activities or extremist groups. Frustrations from limited livelihood prospects can lead to social unrest and youth-led protests. Unaddressed grievances among youth can further escalate into violence and instability, undermining peace and security (Rono, 2023). Addressing livelihood insecurities requires comprehensive approaches that enhance resilience, promote sustainable agriculture, improve water resource management, and create economic opportunities for communities in Northern Kenya. By addressing the root causes of livelihood insecurities, the region can foster stability, reduce vulnerabilities, and strengthen peace and security (Rono, 2023).

2.5 Weakening of Institutions

The impacts of climate change in Northern Kenya extend beyond the environmental and socioeconomic spheres, also affecting the strength and effectiveness of institutions (Wairimu, 2017). This section explored how climate change weakens institutions and the implications for peace and security. Northern Kenya faces

governance challenges in effectively addressing climate change and its impacts. Challenges associated with climate change strain government budgets, diverting resources from other essential sectors. Limited financial capacity hinders investing in adaptive measures and effective response strategies. Inadequate human resources, technical expertise, and institutional frameworks hinder effectively addressing climate-related issues (Rono, 2023). Limited capacity for monitoring, early warning systems, and data collection undermine preparedness and response efforts. The lack of comprehensive policies and strategies addressing climate change impacts hampers effective governance. Policy gaps contribute to ad hoc decision-making and hinder long-term adaptation and mitigation efforts. Inadequate coordination among different levels of government undermines cohesive responses to climate change. The lack of harmonized approaches hinders the implementation of climate adaptation and mitigation measures (Damdnijav, 2015).

Climate change poses challenges to the security sector in Northern Kenya, escalation of conflicts over limited resources places additional demands on security forces to maintain law and order (ZAWYA, n.d.). Police and security personnel face challenges managing resource-based disputes and maintaining peace during migration influxes. Climate change impacts, such as floods and storms, pose risks to critical infrastructure, including energy facilities and transportation networks. Security forces are tasked with protecting infrastructure from damage and ensuring the safety of affected communities (Damdnijav, 2015). Increased climate-induced migration and the influx of refugees burden border control and management systems. Security forces face challenges maintaining border security while managing humanitarian needs and population movements. Population movements resulting from climate change

can lead to tensions and conflicts between host communities and migrants (Damdnijav, 2015). Security forces are critical in preventing and managing cross-border conflicts and maintaining regional stability.

The judicial and legal systems encounter challenges in addressing climate-induced disputes and protecting land tenure and property rights (Damdnijav, 2015). Increasing resource-related conflicts overwhelm the capacity of judicial systems, resulting in significant case backlogs. Delays in resolving disputes contribute to prolonged tensions and the potential escalation of conflicts. Legal frameworks may not sufficiently address the complexities of climate-induced disputes and resource conflicts (Damdnijav, 2015). The lack of specific laws and regulations related to climate change and resource scarcity limits the effectiveness of legal interventions.

Climate change impacts create challenges in defining and enforcing land tenure and property rights. Disputes over land ownership and access are compounded, leading to legal uncertainties and potential conflicts (Damdnijav, 2015). Vulnerable and marginalized communities face difficulty asserting their land and property rights. Inadequate legal protection and limited access to justice perpetuate inequalities and undermine security. Addressing the weakening of institutions requires strengthening governance structures, enhancing institutional capacity, and improving policy frameworks (ACLEDD, 2023). Effective coordination, adequate resource allocation, and legal reforms are crucial in building resilient institutions capable of addressing the complex challenges posed by climate change. By bolstering institutions, Northern Kenya can better uphold peace, security, and the rule of law in the face of environmental transformations (ACLEDD, 2023).

3. Regional Security Implications

The impact of climate change in Northern Kenya extends beyond local communities, posing regional security implications (ACLED, 2023). This section examined the various dimensions of regional security challenges arising from climate change and their implications for peace and stability. Climate change-induced water scarcity intensifies competition for transboundary water sources shared with neighboring regions or countries. Disputes over water allocation and infrastructure development may strain regional relations and escalate tensions (Kilian, 2021). Resource-based conflicts and migration flows from climate change can spill across borders, leading to regional insecurity. Escalating violence and displacement in one area may trigger a ripple effect, impacting neighboring regions and countries (ACLED, 2023).

Climate-induced changes in grazing patterns force pastoralist communities to migrate across borders for suitable grazing areas. Overlapping claims and competition for limited resources can result in conflicts and strained relations between border communities. Climate change impacts livestock husbandry, affecting cross-border trade and disrupting economic activities and livelihoods. Environmental challenges, trade disputes, and border restrictions can strain regional economic integration and cooperation (Rachael, 2022).

Climate change vulnerability in Northern Kenya increases the risk of extremism and terrorism. Climate change-induced socioeconomic insecurities, including food insecurity and livelihood disruptions, create fertile ground for extremism (Wairimu, 2017). Vulnerable communities facing limited opportunities may become more susceptible to radicalization and recruitment. Climate-induced displacement and migration can lead to the concentration of

vulnerable populations in specific areas or refugee camps. These situations increase the risk of radicalization and the exploitation of grievances by extremist groups, posing regional security threats (Rachael, 2022).

The escalation of resource-based conflicts resulting from climate change may attract the involvement of armed groups and militias (Wairimu, 2017). Militarization of conflicts exacerbates regional insecurity and undermines peacebuilding efforts. Climate-induced conflicts and security vacuums may allow extremist elements to infiltrate vulnerable areas (Rachael, 2022). Exploiting local grievances and weakened governance structures can lead to the establishment of extremist strongholds. Climate change presents cross-border climate challenges that require regional cooperation and coordination. Climate change impacts, such as deforestation and land degradation, affect ecosystems and biodiversity in trans boundary areas (Rachael, 2022). Loss of ecosystem services can have cascading effects on the environment and livelihoods, straining regional cooperation. Climate change-induced ecosystem changes and natural resource availability can impact regional economies and cooperation. Disputes over shared resources, such as fisheries or forests, can strain diplomatic relations and hinder regional stability (African, 2017).

Climate-induced migration and refugee flows across borders result in demographic changes in receiving regions. The influx of displaced populations can disrupt social dynamics, strain resources, and potentially lead to social tensions and conflicts. Climate-induced displacement burdens neighboring regions, stretching their capacity to provide humanitarian assistance. Overburdened host communities may face challenges in maintaining stability and meeting the needs of both displaced and local populations. Addressing the regional

security implications of climate change in Northern Kenya requires robust regional cooperation, diplomatic engagement, and conflict resolution mechanisms. Strengthening cross-border collaboration, promoting shared resource management, and addressing the socioeconomic root causes of conflicts are crucial in fostering regional stability and peace in the face of climate change challenges (Kimtai, 2023).

4. Exhaustive Methodologies for Strength and Peacebuilding

Climate change represents an imposing test to the harmony and security of Northern Kenya, requiring far-reaching systems to construct versatility and cultivate harmony even with natural dangers. The locale's weakness to environmental change intensifies existing financial variations and uplifts the gamble of contentions over scarce assets. Proactive and diverse methodologies are required to address these intricate difficulties, incorporating environmental versatility and peacebuilding endeavors. A few essential techniques can be taken on to moderate the effects of environmental change and advance reasonable harmony in Northern Kenya:

Local area Based Variation Initiatives: Connecting with neighborhood networks in the turn of events and execution of environment transformation techniques is fundamental. This incorporates advancing customary information and practices that have supported networks for ages, for example, water-gathering methods, feasible land the executives, and environment-versatile horticulture. Local area contribution upgrades responsibility for and guarantees that variation measures align with nearby necessities and social standards (Kimtai, 2023).

Enhancement of Livelihoods: Breaking the reliance on environment delicate exercises like itinerant crowding or downpour took care of horticulture is pivotal for diminishing weakness to environmental change. Empowering the expansion of livelihoods can include supporting elective pay-producing exercises, professional preparation, and the advancement of non-agrarian areas. Differentiated livelihoods give a security net during environment-instigated stuns and lessen the strain on standard assets (Kintai, 2023).

Improved access to climate Information: Timely and exact climate data is crucial for viable direction and readiness. Implementing environment-checking frameworks and laying out early advance notice mechanisms can engage communities to expect and answer climate-related gambles. This can assist with preventing clashes emerging from asset shortage and uprooting.

Supportable Resource Management: Executing supportable practices for overseeing regular resources, for example, water sources and pasturelands, is central. Empowering dependable land use and guaranteeing fair admittance to assets can moderate struggles and advance collaboration among ethnic gatherings and networks (Kilian, 2021).

Compromise Mechanisms: Reinforcing neighborhood compromise mechanisms is fundamental for forestalling and moderating struggles exacerbated by climate change. Customary compromise processes and formal foundation sought to be upheld and incorporated into peacebuilding endeavors to address asset disagreements and alleviate pressures (Kintai, 2023).

Capacity Building and Education: Putting resources into training and building can upgrade people's and communities' flexibility. Preparing programs on environmental variation, disaster readiness, and maintainable practices can outfit nearby populations with the abilities and information to adapt to changing ecological circumstances (Lamprey, n.d.).

Cooperative Administration and Policy: Compelling climate strength and peacebuilding require coordinating efforts among partners, including legislatures, non-administrative associations, and local area pioneers. Participating in participatory navigation and advancing comprehensive strategies can prompt more compelling and feasible results (Damdnijav, 2015).

By coordinating these extensive techniques, Northern Kenya can improve its flexibility to environmental change and cultivate a tranquil and secure network climate. Building environment versatility and advancing harmony are commonly supporting targets that request aggregate endeavors and supported responsibility from all partners.

5. Loss of Occupations: Driving People Group into Poverty

The deficiency of customary livelihoods because of environmental change hastened an emergency of neediness and social flimsiness among communities in Northern Kenya (Lamprey, n.d.). The area's dependence on climate delicate exercises, for example, pastoralism and downpour, took care of agribusiness, opening networks to the staggering effects of drawn-out dry spells, decreasing pasturelands, and erratic atmospheric conditions. The outcomes of this deficiency of job-open doors are extensive and have enormous ramifications for the locale's general steadiness:

Monetary Vulnerability: The disturbance of customary occupations prompts decreased family pay and financial steadiness. Numerous families wind up caught in patterns of destitution, unfit to get necessities, training, and medical services. The absence of monetary possibilities can worsen social strains and add to local area clashes.

Food Insecurity: Declining rural efficiency and diminished admittance to water assets leave networks defenseless against food weakness. The food shortage and rising food costs further strain families, influencing wholesome results and intensifying weaknesses, especially among kids and weak populations (African, 2017).

Removal and Migration: As agricultural lands are compromised, communities must look for elective resources and vocations elsewhere. This environment-initiated uprooting puts weight on as of now Resource compelled regions and can prompt strains and clashes with host communities over admittance to resources (Muigua, n.d.).

Youth Vulnerability: Disturbed vocations can leave youngsters with restricted open doors for training and business, making them defenseless to enlistment by fanatic gatherings or commitment to crimes. The disappointed youth represent extra security gambles and add to the breakdown of social attachment.

Social Instability: The deficiency of occupations sabotages the social texture of networks that have depended on conventional practices for quite a long time. As the contest for assets heightens, social ties debilitate, and clashes arise over waning assets, endangering the area's dependability and tranquil conjunction.

To address the difficulties presented by the deficiency of occupations, purposeful endeavors are expected to advance maintainable financial open doors and improve the strength of networks to environmental change:

- **Interest in Diversification:** Empowering the expansion of occupations past climate delicate exercises can make elective pay hotspots for networks. This can include supporting limited-scope organizations, miniature endeavors, and maintainable horticultural practices that are less powerless against environmental fluctuation (Rono, 2023).

- **Social Wellbeing Nets:** Executing social security net projects can offer transitory help to weak communities during seasons of emergency. These projects can incorporate money moves, food help, and other social insurance measures to reduce quick difficulties (Muigua, n.d.).

- **Abilities preparing and Education:** Putting resources into schooling and abilities preparation can enable people to adjust to changing conditions and seek after job potential open doors in non-rural areas. Giving admittance to schooling can likewise open entryways for better work possibilities for youth (Wairimu, 2017).

- **Versatility Building Initiatives:** Incorporating climate strength into advancement tasks can upgrade communities' capacity to endure climate stuns and recuperate from ecological debacles. Such drives might incorporate water into the executive's projects, afforestation endeavors, and economic land use rehearses.

- **Local area Empowerment:** Connecting with networks in the dynamic cycles connected with work drives encourages possession and manageability. Enabling nearby voices and including them in project arranging and execution lead to additional powerful results (Rachael, 2022).

By tending to the deficiency of vocations and advancing practical financial open doors, Northern Kenya can pursue diminishing destitution, upgrading social solidness, and encouraging a more robust and secure future for its networks. It is essential to coordinate these endeavors with more extensive environmental versatility and peacebuilding techniques to make a complete way to deal with and address the perplexing difficulties presented by environmental change in the district.

5.1 Conclusion

The threats posed by climate change to peace and security in Northern Kenya are significant and multifaceted. This chapter has explored the various dimensions of these threats, including the changing rainfall patterns, erratic weather events, prolonged droughts, human displacement and migration, livelihood insecurity, weakening of institutions, and regional security implications. The interplay of these factors creates a complex web of challenges that, if left unaddressed, can have severe consequences for the region's stability and well-being.

Changing rainfall patterns, erratic weather events, and prolonged droughts disrupt traditional livelihoods, leading to decreased agricultural productivity, crop failures, food insecurity, and challenges for pastoralist communities. Competition for limited resources, resource-based violence, and land disputes exacerbate

community tensions. Livelihood insecurity, in turn, contributes to increased poverty levels, social discontent, vulnerability to exploitation, and youth insecurity, which extremist groups can exploit. The weakening of institutions, including governance, security sector, and judicial and legal system challenges, hinders effective response and adaptation to climate change impacts. Limited capacity, policy gaps, strained resources, and inadequate legal frameworks impede the ability to address the multifaceted challenges of climate change. As a result, institutional weaknesses undermine governance, exacerbate conflicts, and create conditions conducive to instability and insecurity (J.M.Lewis, 1963).

Furthermore, climate change in Northern Kenya has regional security implications. Transboundary resource conflicts, increased vulnerability to extremism and terrorism, and cross-border environmental challenges strain regional relations and cooperation. Water scarcity, resource competition, cross-border livestock grazing, and migration flows create tensions and conflicts between neighboring communities. Additionally, the socioeconomic insecurities from climate change can foster radicalization and provide opportunities for extremist elements to exploit grievances and establish strongholds (Detges, 2014).

In conclusion, addressing the climate change threat to peace and security in Northern Kenya requires a comprehensive and integrated approach. It necessitates sustainable resource management, adaptive strategies, strengthened governance structures, and enhanced regional cooperation. Investing in climate-resilient agriculture, water resource management, and livelihood diversification can help mitigate the impacts of changing weather patterns and promote sustainable development. Moreover, addressing the root causes of

conflicts, promoting inclusive governance, and ensuring equitable access to resources is crucial in reducing vulnerabilities and fostering peace. Strengthening institutions, improving policy frameworks, and enhancing coordination and collaboration among stakeholders can enhance preparedness, response capacity, and resilience to climate change impacts.

The challenges posed by climate change in Northern Kenya are not insurmountable, but they require concerted efforts and long-term commitment from local, national, and regional actors. By recognizing the interconnectedness of environmental, social, and economic dimensions and addressing the underlying causes of vulnerability, Northern Kenya can strive toward a more secure and sustainable future. Only through collective action, effective governance, and regional cooperation can the region successfully navigate the climate change threats and build a resilient and peaceful society for generations to come.

References

ACLEDD. (2023, 3). *Increasing security challenges in Kenya*. Retrieved from ACLEDD: <https://acleddata.com/2023/03/02/kenya-context-assessment-increasing-security-challenges-in-kenya/>

Africa, E. (2020). *Expert Africa*. Retrieved from Expert Africa Kenya: <https://www.expertafrica.com/kenya/northern-kenya>

African, N. (2017, 6). *Drought, indigeneity, and land conflict in Northern Kenya*. Retrieved from Delivering the Vision of a prosperous africa: <https://newafricanmagazine.com/15659/>

Damdnijav, M. (2015). *Institutional failure in kenya and a way forward*. Retrieved from Journal of Political Inquiry: http://www.jpinyu.com/wp-content/uploads/2015/01/institutional_failure_in_kenya_and_a_way_forward1.pdf

Detges, A. (2014). *The spatial logic of pastoralist violence in northern kenya*. Retrieved from Science Direct: <https://www.sciencedirect.com/science/article/abs/pii/S0962629814000559>

J.M.Lewis. (1963). *The problem of the Northern Frontier District in Kenya*. Retrieved from Sage Journals: <https://journals.sagepub.com/doi/abs/10.1177/030639686300500104?journalCode=raca>

Kilian. (2021, January). *Climate Change in Northern Kenya: A Dangerous Water Crisis*. Retrieved from Water and Energy for Food.

Kimtai, A. (2023, January). *Enhancing Peace and Security in Kenya through Mitigation of Climate Change*. Retrieved from KIIPRA:

Fragile Ecosystems, Fragile Peace: Examining the Fragility of Peace and Security in the Face of Climate Change in Northern Kenya: Ndirangu Ngunjiri

(2023) *Journal of cmsd* Volume 10(5)

<https://kippra.or.ke/enhancing-peace-and-security-in-kenya-through-mitigation-of-climate-change/#:~:text=Climate%20change%20is%20a%20driver,communal%20resources%20and%20boundary%20disputes.>

Lamprey, H. (n.d.). *Pastoralism and Desert Encroachment in Northern Kenya*. Retrieved from JSTOR: <https://www.jstor.org/stable/4312657>

Muigua, K. (n.d.). *Natural Resource conflicts in kenya*. Retrieved from Kariuki Muigua Advocates: <https://www.sciencedirect.com/science/article/abs/pii/S0962629814000559>

Ongoro, E. B. (2010). *Climate change and pastoralist livelihoods shifts in Northern Kenya the case of Samburu East District, Kenya*. Retrieved from University of Nairobi Research Archive: <http://erepository.uonbi.ac.ke/handle/11295/3994>

Opiyo, F. (n.d.). *CORE*. Retrieved from Resource based conflicts in drought-prone north: <https://core.ac.uk/download/pdf/55712054.pdf>

Otunga, M. (2023). *IOM UN Migration*. Retrieved from *Surviving the Drought: The Struggle and Resilience of Pastoralist Communities in Northern Kenya*: <https://storyteller.iom.int/stories/surviving-drought-struggle-and-resilience-pastoralist-communities-northern-kenya>

Rachael, O. (2022). *Climate Change and drought in Northern Kenya*. Retrieved from Zawya: [https://www.zawya.com/en/economy/africa/climate-change-and-drought-in-northern-kenya-v8vio8qd#:~:text=Kenya%20is%20among%20the%20least,arid%20land%20\(ASAL\)%20counties.](https://www.zawya.com/en/economy/africa/climate-change-and-drought-in-northern-kenya-v8vio8qd#:~:text=Kenya%20is%20among%20the%20least,arid%20land%20(ASAL)%20counties.)

*Fragile Ecosystems, Fragile Peace:
Examining the Fragility of Peace and
Security in the Face of Climate Change in
Northern Kenya: Ndirangu Ngunjiri*

(2023) Journal of cmsd Volume 10(5)

Rono, P. (2023). *Unraveling the channels of food security*. Retrieved from ScienceDirect:

<https://www.sciencedirect.com/science/article/pii/S2475299122145051>

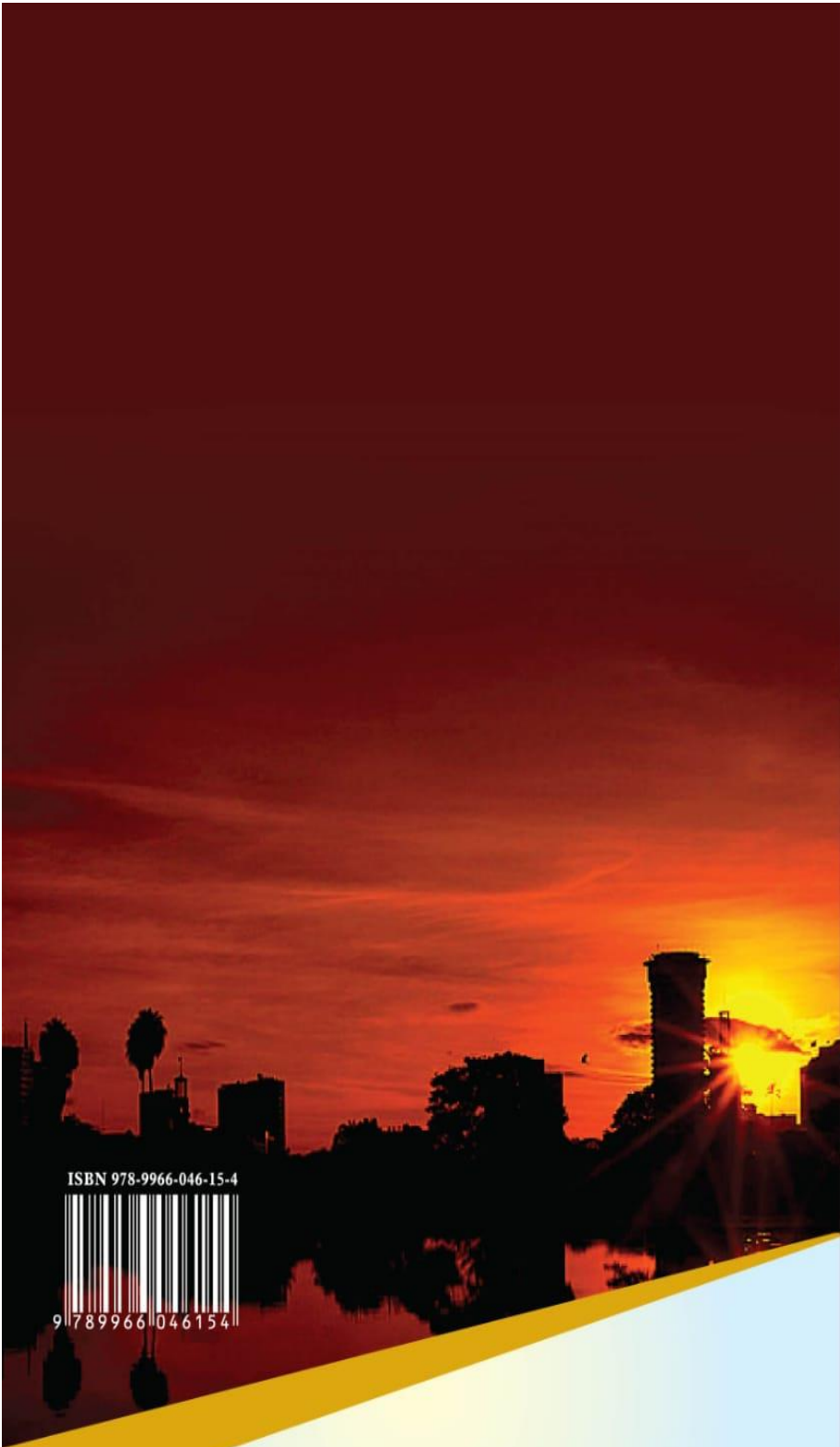
Ruto, S. J. (2009). *UNESDOC Digital Library*. Retrieved from Unesco:
<https://unesdoc.unesco.org/ark:/48223/pf0000186617>

Wairimu, M. (2017). *Natural Resource as a source of conflict-case study in northern kenya*. Nairobi. Retrieved from University of Nairobi Report Archives:

[http://erepository.uonbi.ac.ke/bitstream/handle/11295/105834/Kamau_Natural%20Resource%20As%20A%20Source%20Of%20Conflict-%20Case%20Study%20In%20Northern%20Kenya%20\(2012-2016\).pdf?sequence=1](http://erepository.uonbi.ac.ke/bitstream/handle/11295/105834/Kamau_Natural%20Resource%20As%20A%20Source%20Of%20Conflict-%20Case%20Study%20In%20Northern%20Kenya%20(2012-2016).pdf?sequence=1)

ZAWYA. (n.d.). *Climate Change and drought in Northern Kenya*. Retrieved from Zawya:

[https://www.zawya.com/en/economy/africa/climate-change-and-drought-in-northern-kenya-v8vio8qd#:~:text=Kenya%20is%20among%20the%20least,arid%20land%20\(ASAL\)%20counties.](https://www.zawya.com/en/economy/africa/climate-change-and-drought-in-northern-kenya-v8vio8qd#:~:text=Kenya%20is%20among%20the%20least,arid%20land%20(ASAL)%20counties.)



ISBN 978-9966-046-15-4



9 789966 046154