

The

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### THEME:

#### Countering Transnational Organized Crime in Eastern Africa: AI, Environmental Crime, Gendered Networks, and Cross-Border Enforcement

Transnational organized crime in Eastern Africa is evolving through digital, environmental, gendered, and cross-border dimensions. Criminal networks increasingly exploit AI tools, porous borders, weak institutions, and environmental resources while deepening violence and inequality. Environmental exploitation, gendered vulnerabilities, and fragmented policing structures further enable illicit flows of people, goods, and finance. The bulletin examines how AI-driven intelligence, environmental governance, gender-responsive strategies, and strengthened cross-border policing can transform fragmented responses into coordinated, proactive enforcement systems. It emphasizes regional cooperation, data-driven policing, legal harmonization, and community engagement as essential tools to disrupt organized crime networks and enhance security, resilience, and sustainable development.

**Contributors:** *Amb Solomon Maina, Brig (Rtd) Foustine Sirera, Col (Rtd) Godfrey Gitonga, Col (Rtd) Julius Minyori, Mr Samuel Otieno, Mr Stephen Kiema, Stephen Nduvi, Michael Owuor, Denis Muniu*

**Editor-in-Chief:** *K O Asembo, PhD.*

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Website: [www.gloceps.org](http://www.gloceps.org) | Email: [info@gloceps.org](mailto:info@gloceps.org)

## Harnessing Artificial Intelligence to Combat Rising Transnational Organized Crimes in East Africa

Transnational organized crimes (TOCs) in East Africa are growing in scale, sophistication, and impact. According to the Global Initiative Against Transnational Organized Crime ENACT Index, TOC activities increased by between 2 and 5 percent between 2019 and 2023. Human trafficking, drug smuggling, and wildlife crimes are concentrated in hubs such as Nairobi and along corridors connected to the Port of Mombasa, while digital platforms facilitate recruitment, coordination, and the expansion of criminal networks. This trend threatens community stability, undermines law enforcement, and allows criminals to exploit both physical and digital vulnerabilities. Harnessing Artificial Intelligence (AI) presents a significant opportunity to transform fragmented responses into coordinated, intelligence-led interventions that can also monitor environmental crimes.

AI technology offers tools capable of learning from data, identifying patterns, solving problems, automating routine tasks, and adapting to new information. These capabilities are particularly relevant to tackling TOCs in East Africa, where

criminal networks operate across borders, involve multiple actors, and generate large amounts of complex data. AI-powered systems can detect suspicious activities within both offline and online networks, analyze patterns of communication, and identify unusual behaviors that may indicate criminal intent. By mapping connections between people, groups, and activities, AI can forecast hotspots for trafficking, poaching, drug flows, or other illicit activities, generating predictive analytics and automated alerts that support timely law enforcement action.

Beyond detection and monitoring, AI can strengthen the infrastructure, skills, and governance needed to respond effectively to TOCs. This includes building platforms for intelligence sharing, improving inter-agency collaboration, and ensuring ethical handling of sensitive data. Effective AI applications require access to accurate, reliable, and comprehensive data, robust storage and processing capacity, such as cloud systems, and compatible hardware. They also depend on skilled analysts capable of interpreting complex outputs.



Photo Credit: Human Rights Research Center

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Investing in local talent, including training law enforcement, data scientists, and analysts through universities or online platforms, is essential to retain expertise within the region and continuously update skills in line with evolving threats. Reliable power, internet connectivity, and resources to support AI tools, software licenses, and subscriptions are equally critical to sustain operations.

AI also enhances environmental protection by monitoring illegal activities such as poaching, wildlife trafficking, and unregulated logging. Platforms with predictive capabilities, like INTERPOL's i-24/7, allow law enforcement to identify emerging threats, allocate resources efficiently, and take proactive measures before crimes escalate. By providing shared intelligence across borders, AI supports regional cooperation,

ensuring that insights are actionable and targeted, while also fostering transparency and accountability in enforcement.

Harnessing AI to combat TOCs in East Africa requires strong governance, regional collaboration, investment in human capacity, and sustained resources. By integrating AI into law enforcement and environmental protection strategies, countries can shift from reactive approaches to anticipatory, intelligence-led interventions that disrupt criminal networks, protect vulnerable communities, and safeguard natural resources. Ultimately, AI offers a transformative tool to strengthen security, promote regional cooperation, and build resilience against the growing threat of transnational organized crime.

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## Transnational Organized Crime and Environmental Exploitation in Eastern Africa

Transnational organized crime (TOC) in Eastern Africa increasingly intersects with environmental exploitation, including illegal wildlife trafficking, unregulated logging, and illicit mineral extraction. These criminal networks generate billions of dollars in illicit revenue while degrading ecosystems, undermining governance, and destabilizing communities. Kenya, Eritrea, and parts of the Great Lakes serve as key hubs for these illicit flows, and the region ranks among Africa's most vulnerable to transnational criminality. The convergence of weak enforcement, porous borders, corruption, and global demand has enabled criminal actors to embed themselves into the region's resource trade chains, exploiting legal and institutional gaps to move wildlife, timber, and minerals with impunity.

Wildlife trafficking remains one of the most lucrative streams of TOC activity in the region, with elephant ivory and rhinoceros horn smuggled to Asian markets through complex,

layered networks that obscure the chain of custody. Criminal syndicates frequently leverage legal operations, including trophy hunting and timber export businesses, to launder contraband and exploit permit verification weaknesses. Illegal logging in Kenya's Mau Forest and Ethiopian highlands, as well as cross-border charcoal production, generates significant revenue, some of which finances armed groups. In the Great Lakes region, illicit extraction of coltan, cassiterite, wolframite, and gold allows armed and politically connected actors to monopolize artisanal mining zones, depriving local communities of the economic benefits of their natural resources.

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The consequences of environmental TOC extend beyond financial loss, creating cascading ecological, economic, and social impacts. Poaching disrupts ecosystem balance by affecting seed dispersal, soil fertility, and savannah-woodland equilibria. Deforestation accelerates soil erosion and reduces river flows, threatening downstream agricultural and pastoral livelihoods. Mercury contamination from artisanal gold mining jeopardizes public health. Economically, criminal networks capture rents, while local populations face diminished tourism revenues, reduced access to forest resources, and coerced participation in illegal mining activities. Profits from environmental crimes often finance armed groups, perpetuating cycles of conflict, displacement, and insecurity. Corruption within wildlife, forestry, and customs agencies further undermines governance and weakens enforcement capacity.

Addressing these challenges requires a multi-layered, coordinated approach. Regional enforcement bodies should be strengthened with adequate resources and operational support, and penalties for environmental TOC offenses should be harmonized across Eastern

African states to reduce regulatory arbitrage. Technology-driven interventions, including satellite monitoring of forests, DNA-based forensics for wildlife and timber, and embedded financial intelligence units, can improve detection, tracing, and prosecution. Governments must also engage end-market actors through bilateral agreements that criminalize demand for illicit wildlife, timber, and minerals while strengthening import controls. Investments in regional forensics laboratories and early-warning systems can support evidence-based prosecutions and enhance cross-border cooperation.

Until Eastern African states adopt a coordinated, multi-sectoral strategy that integrates legal harmonization, technology-enabled enforcement, financial intelligence, and demand-side interventions, environmental TOC will continue to undermine ecological integrity, economic development, and regional stability. A comprehensive, evidence-driven approach is critical to protecting natural resources, empowering local communities, and reducing the social and environmental costs of organized crime in the region.



Photo Credit: Grey Dynamics

## Advancing Gender-Responsive Strategies to Strengthen the Fight Against Organized Crime in Eastern Africa

Transnational organized crime (TOC) in Eastern Africa is not gender-neutral; it exploits pre-existing inequalities that position women and girls as victims, facilitators, and perpetrators. Globally, 79% of trafficking victims are women and girls, most trafficked for sexual exploitation, while in Eastern Africa, forced labor and sexual abuse remain widespread. Despite this, enforcement rarely examines women's active roles within criminal networks, including as recruiters, logisticians, or funders. Deep-rooted gender biases perpetuate the assumption that women are predominantly victims, leaving their participation under-investigated and under-prosecuted.

Conflict and displacement exacerbate vulnerability. In Sudan, an estimated 12.1 million people face a heightened risk of gender-based violence (GBV), with sexual violence reportedly increasing by 288% during conflicts. Displacement across the Great Lakes and Horn of Africa dismantles community protection mechanisms, exposing women to abduction, survival sex, and recruitment into TOC networks. Digital technologies have further amplified the reach of criminal networks, enabling cross-border exploitation and trafficking, creating a shadow pandemic of tech-enabled violence that traditional security structures are ill-equipped to address.

Effective policy responses require a gender-responsive, multisectoral approach. First, enforcement must strengthen the domestication and implementation of the UN Trafficking Protocol and harmonize sentencing frameworks across Eastern African states to close gaps

in prosecution. Regional policing bodies, including the Eastern Africa Police Chiefs Cooperation Organization, should institutionalize compulsory gender-analysis training for officers and adopt mandatory sex-disaggregated data systems to better capture women's involvement in TOC.

Second, governments must prioritize structural resilience by investing in targeted economic programs in border and conflict affected communities. This includes sustainable livelihood initiatives, access to education, and entrepreneurship opportunities for women, reducing economic vulnerability that criminal networks exploit. Humanitarian responses should integrate survivor-centered services such as counseling, safe shelters, and GBV reporting mechanisms, ensuring victims have access to protection and recovery support.

Third, community engagement is critical. Awareness campaigns should challenge harmful social norms that exacerbate women's vulnerability, promote gender equality, and encourage reporting of criminal activity. Policies must recognize women's dual role as potential facilitators and victims of crime, ensuring interventions are both protective and preventative.

Finally, regional and transnational partnerships are essential. Co-operation across borders with civil society, international organizations, and women-focused advocacy groups can enhance intelligence sharing, prevention strategies, and survivor support. A coordinated, evidence-based approach that centers

gender in crime prevention will improve prosecution, reduce exploitation, and strengthen regional stability.

In conclusion, transnational organized crime in Eastern Africa thrives on gender inequality. Without integrating gender dynamics into enforcement, legal frameworks, community programs, and regional cooperation,

women will remain disproportionately vulnerable, and TOC networks will continue to operate with impunity. Policymakers must adopt comprehensive, gender-informed strategies that simultaneously disrupt criminal operations and empower affected communities to build resilience.



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## Building Effective Cross-Border Policing in Eastern Africa to Combat Organized Crime

Cross-border policing in Eastern Africa faces persistent challenges that significantly hinder the region's ability to respond to transnational organized crime. Porous borders, minimal official posts, and weak surveillance infrastructure provide opportunities for criminal networks to operate with relative impunity. Endemic corruption among border officials further undermines enforcement, as bribery and collusion allow illicit activities to persist unchecked. These structural weaknesses are compounded by uneven resources, outdated policies, and limited capacity across states. A lack of trust and harmonized legal frameworks, including differing definitions of crimes, penalties, and extradition procedures, often paralyzes joint operations, leaving organized networks free to exploit gaps.

Regional mechanisms such as the East African Police Chiefs Cooperation Organisation (EAPCCO) have made notable contributions to strengthening law enforcement capacity. Training programs in cybercrime, financial investigations, and tactical operations have helped improve officer skills, and cross-border coordination has been encouraged. Yet the framework remains largely voluntary, underfunded, and dependent on uneven political will, limiting its impact on criminal networks. Despite existing initiatives, organized crime continues to thrive by exploiting weak enforcement, moving illicit goods, personnel, and capital across borders with minimal risk of detection.

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Addressing these challenges requires a multi-layered approach that combines technology, operational coordination, legal harmonization, and community engagement. Technology-driven tools, including biometric systems at strategic border points, shared criminal databases, and AI-assisted analytics, can help law enforcement detect, track, and anticipate criminal activity in real time. Joint patrols, multi-agency task forces, and specialized units focused on organized crime can enhance operational reach and ensure rapid response to emerging threats. Predictive analytics and real-time monitoring can identify crime hotspots, optimize resource allocation, and guide investigation strategies, allowing officers to respond proactively rather than reactively.

Legal harmonization is critical to sustaining effective cross-border policing. Aligning criminal codes, standardizing penalties, and implementing mutual extradition agreements can remove obstacles to prosecution and prevent criminals from exploiting regulatory loopholes. Expanding officer training in financial crime, cybercrime, and intelligence analysis ensures law enforcement can navigate increasingly

complex cross-border networks. Retaining skilled personnel and offering ongoing retraining preserves institutional knowledge and adapts capacity to evolving criminal trends.

Community engagement remains an essential complement to policing. Local communities are often the first to observe suspicious activities, and empowering them through awareness campaigns, reporting mechanisms, and participatory initiatives strengthens intelligence gathering and fosters public trust. Communities can also serve as a frontline deterrent to local facilitation of criminal networks, reducing vulnerabilities and reinforcing social resilience.

A coordinated, multi-dimensional strategy that integrates technology, legal reform, operational cooperation, and community engagement can transform fragmented cross-border policing into a coherent, intelligence-led system. Such an approach has the potential to disrupt transnational organized crime networks, protect vulnerable communities, and safeguard regional stability across Eastern Africa.





**THE GLOBAL CENTRE FOR POLICY AND STRATEGY  
(GLOCEPS)**

**Research | Knowledge | Influence**

Runda Drive 100, Nairobi, Kenya

P. O. Box 27023 - 00100, Nairobi.

Telephone: 0112401331

Email: [info@gloceps.org](mailto:info@gloceps.org)

Web: [www.gloceps.org](http://www.gloceps.org)