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# Deconstructing a criminal network involved in illegal wildlife trade between East Africa and Southeast Asia

**We used social network analysis and network ethnography techniques to study the criminal network of a wildlife trafficker based in East Africa. The findings suggest that criminal networks are key to transforming opportunistic behaviours into ordered strategies and that organised crime makes the process more efficient and effective.**

## What's the problem?

Illegal wildlife trade threatens biodiversity and security worldwide. Criminal networks pocket billions of dollars in illicit profits from stripping the world bare of endangered species and corrupting politicians and public officials in the process.

There is very little empirical evidence on the role of both ordinary citizens and criminal networks in the illegal wildlife trade. How far does the network extend and what type of people does it include? How do these relational structures facilitate the achievement of criminal goals and allow the network to sustain itself over time?

Our empirical analysis helped us to answer these questions by deconstructing a criminal network into its essential elements and structural characteristics, functions and meanings.

## What we did



### Where?

Key trade links between **East Africa** and **Southeast Asia**. The network also had links in West Africa, Europe and North America.



### Who?

A wildlife trafficker in prison in the United States and his illicit links to Southeast Asian traffickers based between East Africa and Southeast Asia.



### Why?

- **to empirically verify** the role of criminal networks in facilitating the illegal trade of wildlife goods, such as rhino horns and ivory tusks in this case.
- **to provide insights** for law enforcement efforts aimed at identifying and dismantling wildlife trafficking networks.



### How?

By applying **social network analysis** and **network ethnography techniques** to a set of intelligence data, we were able to understand the complex criminal network surrounding a wildlife trafficker based in East Africa who traded a large volume of wildlife goods with Southeast Asian countries.

## What we found

The five functions critical for the criminal network to achieve its trafficking goals are:

- **Networking** to create a pool of collaborators with particular skillsets and social capital that can be activated as needed, and to coordinate the activities of co-offenders and suppliers.
- **Financial flows** to pay for the procurement of goods and their stockpiling in warehouses, their shipment and concealment, and the collaboration of professionals and co-offenders.
- **Business and goods**, i.e. the procurement of wildlife goods on illicit markets and the matching of supply and demand at the regional and global level.
- **Delivery and shipment**, i.e. the transport infrastructure and the logistics professionals (freight forwarders and clearing agents) who supply their expertise.
- **Concealment** of illegal activities from law enforcement.

Each of these functions relies on specific actors within the network. Some actors are concentrated in particular regions, while others have a wider geographical spread. Some specialise in one function, while others take care of more than one task.

The transnational crime chain is punctuated by multiple local spaces, individuals with different agendas and opaque clusters that manage the trade.

A criminal network may look like a shapeless amalgam of opportunistic behaviours, but their repetition, accumulation and stratification transform the network into an ordered and organised mechanism.

Criminal networks operate under an informal governance system based on bargaining and coordination between individuals in the network and with other groups.

This informal governance system has local, regional and transnational elements. Social structures such as family, friendship and kinship – and the social capital that they maintain as they move from one region to another – facilitate operation all over the world.

Both **opportunistic** and **organised** behaviours shape the illegal wildlife trade and are critical in supporting and orchestrating this criminal phenomenon.

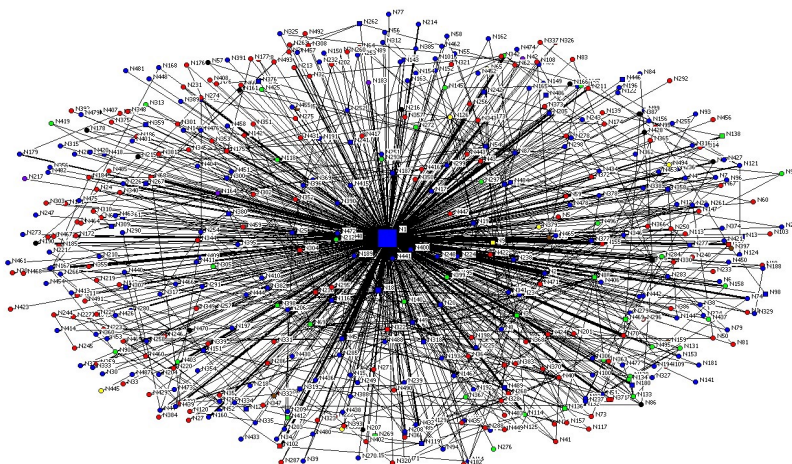
The criminal network operates as a machine of order that helps to reduce the chaos and complexity of the illegal activities.

## Why it matters

Law enforcement and other practitioners can use this research to develop more effective strategies which consider the local, regional and transnational elements of illegal wildlife trade, the mix of opportunistic and organised behaviours, and the informal governance system that bonds offenders.

The findings are also important for evaluating the effectiveness of current approaches to countering illegal wildlife trade or other organised nature-based crime. For example, arresting key traffickers may not disrupt the entire criminal network, which can survive thanks to the resilience of the smaller clusters that coalesce around hubs in the network.

The techniques we applied are powerful complementary tools for understanding criminal enterprises. Cooperation between law enforcement agencies and researchers skilled in social network analysis and network ethnography will bring benefits to the fight against illegal wildlife trade and other forms of trafficking.



A graphic visualisation of the large and complex criminal network surrounding the wild-life trafficker, comprising 495 individuals and spanning different countries and regions.

### Where to learn more



#### Working Paper 35

#### Social network analysis applied to illegal wildlife trade between East Africa and Southeast Asia



#### Journal article

#### Structures, functions and flows of IWT: deconstructing a criminal network between East Africa and Southeast Asia



#### Policy Brief 6

#### Policy Brief 6: Bringing intelligence and social network analysis together to fight illegal wildlife trade

### About this Research Case Study

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### Keywords

social network analysis

illegal wildlife trade

network ethnography

East Africa

informal governance

Southeast Asia