



---

# A Proposal for a Traffic Management Center in Dar es Salaam: Stakeholder and Community Engagement on Incident Detection and Management.

Lubida Maria. B<sup>1</sup>, Dr. Masaki Jaqueline<sup>2\*</sup>.

Lead presenter: [edithamary22@gmail.com](mailto:edithamary22@gmail.com)

<sup>1</sup> University of Dar es Salaam, Tanzania

<sup>2</sup> University of Dar es Salaam, Tanzania

**Keywords:** Traffic Management Center (TMC), Stakeholder.

## Background

As a highly populated city, Dar es Salaam is faced with the challenge of traffic congestion and high rates of accidents stated by the Tanzanian Traffic police report of 2018, which immediately need to be addressed. This research proposes the establishment of a Traffic Management Center (TMC), a location that monitors traffic conditions on roadways and intersections by utilizing real-time traffic data from the sensors, cameras, and other monitoring devices to facilitate incident detection and management, event management, traffic signal control, and optimization.

## Aim

This study focuses on exploring diverse roles to be played by the stakeholders and the community on incident detection and management and prepare the Standard Operation Guideline for effective communication between parties involved in the proposed TMC.

## Methodology

The methodology employed for the study is in-person interviews and questionnaires conducted on various stakeholders like government agencies (TANROADS, LATRA, UDART), information and communication agencies (TCRA, TTCL, VODACOM), emergencies and public safety (Traffic Police, Fire Tanzania, Red Cross Tanzania and Hospitals, emergency sector), engineering associations (ACET, IET, ESTIM, INTERCONSULT), residents, and community associations (TABOA, DCC, Vulnerable road users) while deploying descriptive statistics as the method for data analysis to identify the level of awareness, readiness, and roles to be performed by each stakeholder group.

## Results

From the data obtained, the roles of each stakeholder agency and the community will be identified and used to prepare the Standard Operation Guideline for effective communication between parties involved in the proposed TMC.

## Conclusion

The Standard Operation Guideline for effective communication will enhance a predictable, coordinated and risk-aware traffic environment leading to efficient traffic safety.