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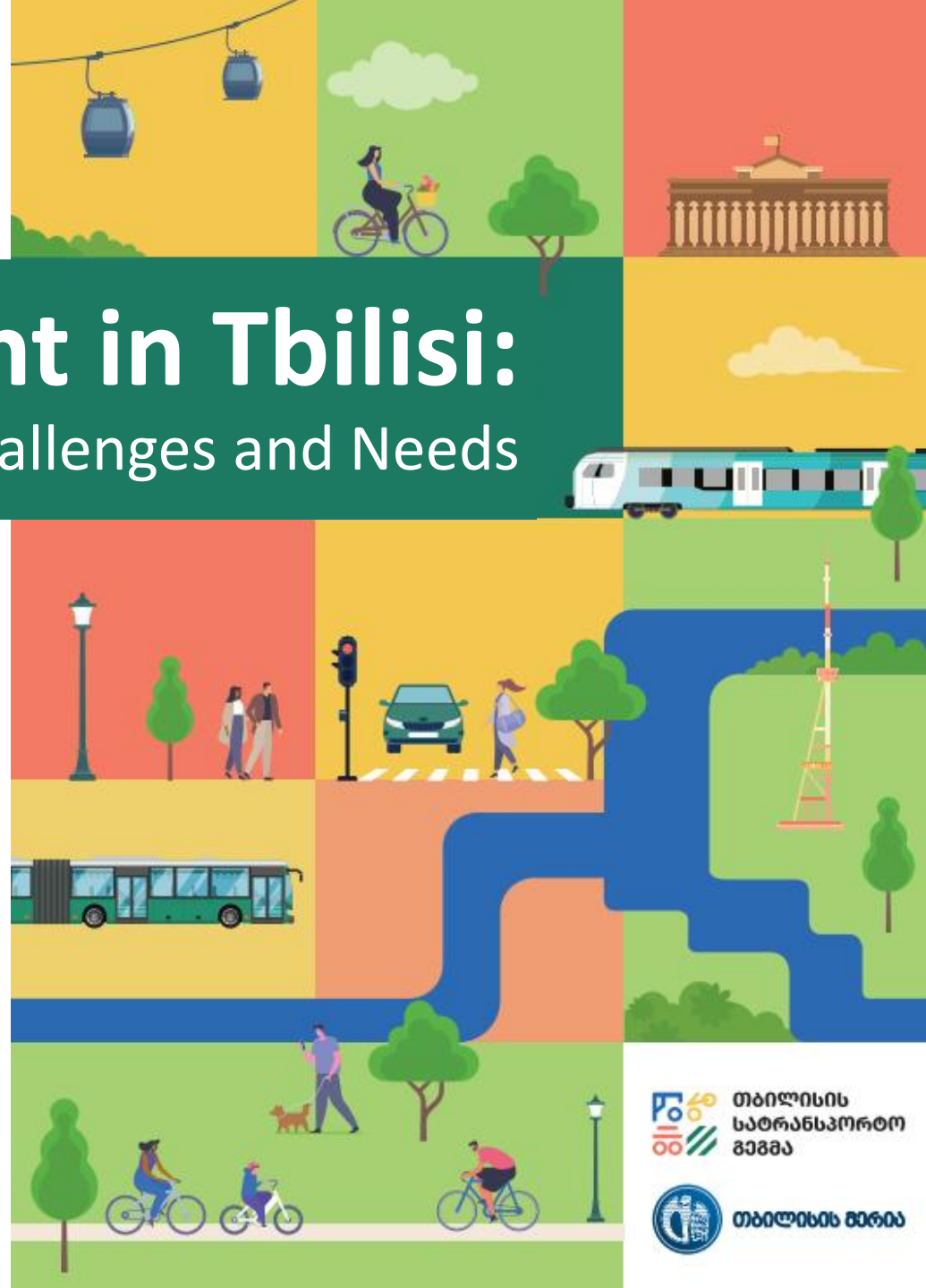
Mobility Development in Tbilisi:

Current Status, Challenges and Needs

Tbilisi Transport and Urban Development Agency



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Sustainable Urban Mobility Plan (SUMP)

for Tbilisi

The Sustainable Urban Mobility Plan (SUMP) is a strategic framework aimed at establishing an **efficient, safe, environmentally responsible, smart and accessible transport system** in Tbilisi. The plan is based on the needs of citizens, businesses, and other stakeholders and outlines the city's transport development over the next 20 years.

Key Principles of SUMP:

- **Efficient and accessible mobility** – improving service quality and enhancing user access.
- **Safe transport for all** – increasing the safety of streets, infrastructure, and overall mobility.
- **Improved environmental and urban living standards** – promoting low-emission, green, and people-oriented solutions.
- **Reduced dependency on private cars** – increasing the share of walking, cycling, and public transport.
- **Integrated, long-term planning** – guiding the transport system strategically for the next 5, 10, and 20 years.

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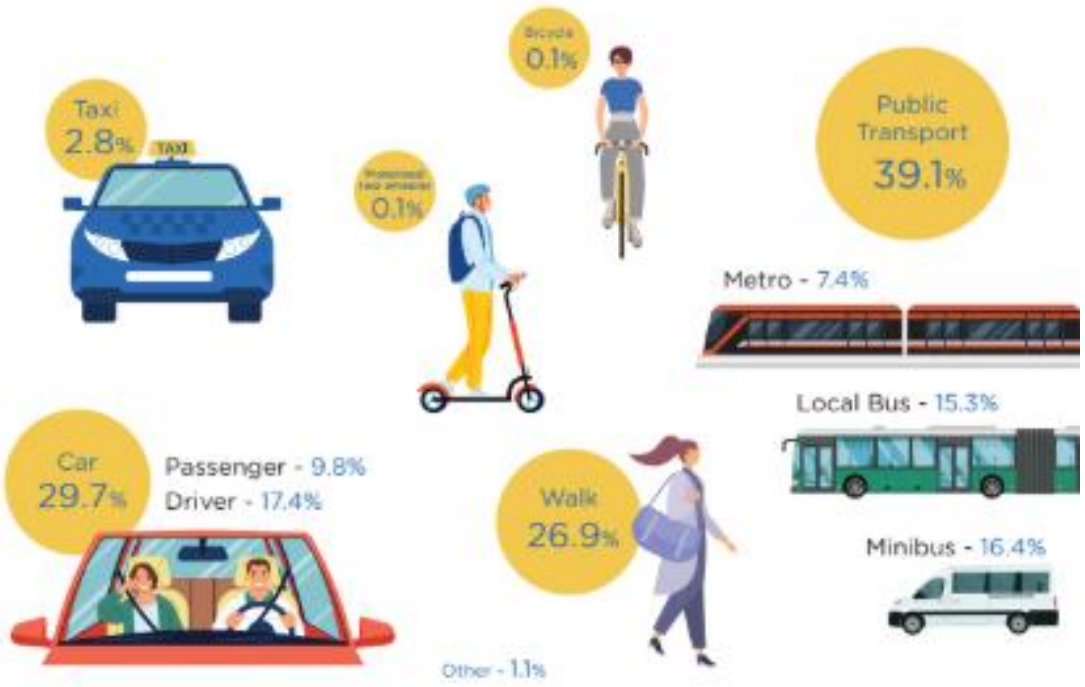
PUBLIC TRANSPORT NETWORK CHALENGES

- Increasing motorization rate resulting in congestion, poor air quality and noise pollution;
- ITS development still in the early stages;
- Limited data availability;
- Many major mobility projects in different stages of development;



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FUTURE PLANS

Public transport is the most efficient solution for trips that are difficult to cover on foot or by bicycle, allowing people to travel without relying on private cars. Smart mobility solutions are being utilized to transform mobility in Tbilisi. This involves a variety of mentioned programmes aimed at making public transport faster, more reliable, comfortable and safe for everyone, including women and girls, people with reduced mobility and other needs.

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Key Ongoing and Planned Urban Mobility Projects

- **Smart Parking** – A tech-driven system to reduce congestion, improve compliance, and optimize public space with real-time monitoring and dynamic pricing.
- **ITS for Tbilisi** – Major programme aimed at deploying tech solutions for managing congestion, prioritising public transport and making data-driven decisions.
- **Metro Modernization** – Upgrading rolling stock, stations, accessibility, and control systems for safer, more reliable, and higher-capacity metro services.
- **Superblocks** – Transforming selected districts into pedestrian-prioritized zones, expanding public spaces, and creating safer, quieter, sustainable neighborhoods.
- **Urban Cable Cars** – New aerial lines to improve hillside access, strengthen intermodal connections, and offer low-emission transport alternatives.
- **Bus Network Upgrades** – Modernized fleet, dedicated corridors, improved stops, and optimized services for faster, more reliable public transport.
- **Didi Dighomi – Didube tram line** – A new light rail link providing high quality public transport service to thousands of people, benefiting from ongoing ITS implementation along its corridor.

All of the above projects are planned and will be implemented over the next 20 years, ensuring a sustainable, smart, modern, and human-centered urban environment.

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OBJECTIVES OF ITS FOR TBILISI

- To develop a single and common system for real-time central data management and operation in Tbilisi:
  - To support the daily decision-making process and improve TMCC operator's effectiveness for receipt of day-to-day traffic management measures that can consider congestion, events and environmental aspects.
  - To reduce TMCC reaction times in various events/ incidents.
- To plan and implement traffic management scenarios within the city based on scheduled or non-scheduled events.
- To disseminate traffic and other real-time traffic information to users for "pre-trip" and "on trip" planning.

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OBJECTIVES OF ITS FOR TBILISI

- To optimize traffic signal plans operation on intersections and road corridors based on real-time traffic data and to provide traffic signal priority at buses and emergency vehicle fleet:
  - To reduce travel times and queues on traffic signal intersections and corridors for private transport and public transport.
  - To reduce air pollutant emissions due to lower queues and vehicle stops.
  - To provide better accessibility and increased safety in traffic signalized pedestrian crossings.
- To increase road safety levels by introducing further bus lane and red-light enforcement systems within the city.

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BUS NETWORK UPGRADES

More trips are done on buses than any other form of transport in Tbilisi. This trend is expected to continue in the short to medium term, as the bus network is extensive and covers most parts of the city. In 2024–2025, the city added 200 new 18-metre buses to its fleet.

- **Many major bus stops already feature real-time schedule displays and journey planning app provides real-time information and GTFS realtime feed.**

- **The bus network benefits from bus-priority signals in an increasing number of locations. ITS implementation will expand it to the entire city.**

- **The fare policy is based on the open payment system and is entirely cash-free.**

- **Numerous types of data are collected on a daily basis which play a critical role in informed decision-making.**

Thank you!