Integrating Popular Transport Systems into Global NDCs



Enhancing Global Climate Action through Adaptation and Mitigation of Popular Transport Systems























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Abbreviations and acronyms

2Ws/3Ws Two- and three-wheelers

A-S-I Avoid-Shift-Improve

COP Conference of Parties

GHG Greenhouse Gases

GNPT Global Network for Popular Transport

GST Global Stocktake

HDV Heavy-Duty Vehicle

HICs High-Income Country

ITF International Transport Forum

LDV Light-Duty Vehicle

LICs Low-Income Countries

LOTUS Low Carbon Transport for Urban Sustainability

MICs Middle-Income Countries

NAPs National Adaptation Plans

PATH Partnership for Active Travel and Health

SURGe Sustainable Urban Resilience for the next Generation

TUMI Transformative Urban Mobility Initiative

UIC International Union of Railways

UITP International Association of Public Transport

UNFCCC United Nations Framework Convention on Climate Change

WRI World Resources Institute

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I Introduction

By early 2025, countries are due to unveil new national climate commitments under the Paris Agreement, known as Nationally Determined Contributions (NDCs). This presents a timely opportunity to address and decarbonise a sector that has been largely overlooked by policymakers: popular transport.

Popular transport are local transport services, which are publicly provided but privately operated, emerging in nearly every city in medium- and low-income countries (MICs and LICs).

These transport services are commonly referred to as "informal transport," "paratransit," "intermediate public transit," or "artisanal public transportation." To avoid negative connotations and to recognise the vital role popular transport services play in the majority of people's daily mobility worldwide, the use of "popular transport" instead is preferred over other terms (GNPT, 2024).

An analysis into the modal split of 30 cities across, Africa, Asia and Latin America showed that on average 68% of motorised trips are made using popular transport (SLOCAT, 2023a). However, only Uganda and Angola include popular transport in their NDCs, highlighting a significant gap in global climate action and a missed opportunity to engage with a sector already mobilising millions of people worldwide.

Recognising the pressing need to improve, integrate, and mobilise investments for popular transport systems, including commitments and goals for the sector into Nationally Determined Contributions (NDCs) and National Adaptation Plans (NAPs) is key. To formally recognise Popular Transport in Global Climate Action and integrate these systems into NDCs and NAPs, the Global Network for Popular Transport (GNPT) along with Transport for Cairo (TfC) are proposing a global NDC template for Popular Transport, an initiative which is being funded by the Transformative Urban Mobility Initiative (TUMI).

2 Background: NDCs

Adopted by all signatory countries, the Paris Agreement is a legally binding international treaty, which requires each Party, i.e. country to prepare, communicate and maintain successive Nationally Determined Contributions (NDCs) that it intends to achieve (Art. 4.2). Thus, an NDC is a government obligation under the Paris Agreement. The purpose of NDCs is to reduce global greenhouse gas emissions (GHG) and adapt to climate change by ensuring that the global average temperature increase is "held well below 2°C above pre-industrial levels" while further pursuing efforts to limit the increase to 1.5°C (UNDP, 2023).

NDCs are thus essentially climate action plans where each country "outlines and communicates their post-2020 climate actions" (UNFCCC, 2024). They represent efforts by each country to reduce national emissions and adapt to climate change by setting targets and defining how to reach them.

2.1 Formulating NDCs

NDCs should include both mitigation and adaptation targets and measures. **Mitigation** refers to the reduction of greenhouse gas (GHG) emissions, which cause climate change. In the context of mitigating









emissions from the passenger transport sector, these measures typically rely on the **Avoid-Shift-Improve** (A-S-I) framework.¹

Adaptation measures, on the other hand focus on how to adapt to the impacts of climate change. The concept of **just transition** is relevant here, where the aim is to ensure the rights and socio-economic well-being of vulnerable persons during the climate transition. This implies that the shift to a zero-carbon future should be organised "in a way that reduces negative impacts on workers, communities and value chains" while making sure "that the benefits of this transition are fairly distributed" (WRI, 2023b).

Ideally, NDCs should be cross-sectoral, focusing on several priority sectors of a country, including the energy, transport, agriculture, health, water, infrastructure, and tourism sectors. The formulation of NDCs should be based on a sound analysis process backed by sufficient data. That way, elaborate systems to monitor and verify a country's progress towards its targets can be established (UN, 2024). NDCs should be ambitious and based on a detailed financing strategy. The role of climate finance tools is instrumental. Additionally, NDCs should ideally "connect national and sub-national policies" (UITP, 2023).

In practice, however, ambition levels of NDCs across countries may vary due to the lack of finance, capacity and sometimes insufficient political commitment (UN, 2024). In fact, it is commonly agreed on that the peaking of and subsequent reduction of emissions will take longer for developing countries (UNFCCC, 2024). Therefore, emission reductions are undertaken "on the basis of equity, and in the context of sustainable development and efforts to eradicate poverty" (ibid.). Consequently, NDCs can include unconditional and conditional targets, i.e., those that are dependent on external financial support (UNDP, 2023).

2.2 Submission of NDCs

NDCs are submitted every five years to the UNFCCC secretariat. Regardless of their implementation time frames, countries are requested to submit their NDCs by 2020, 2025, and 2030 (UNFCCC, 2024).

Based on the so-called ratcheting mechanism, or ambition mechanism, successive NDCs should represent a progression compared to the previous one, i.e. newer NDCs should be more ambitious than their predecessors (ibid.). According to Article 4.1, countries can adjust their existing NDC to enhance its level of ambition (UNFCCC, 2024).

Submitted NDCs are recorded in the NDC registry, which is publicly accessible and maintained by the UNFCCC. During COP28 in Dubai in 2023, governments agreed that they would take stock of the implementation of the Agreement through the Global Stocktake (GST) starting in 2023 and every five years (UNFCCC, 2024). The objectives of the GST are to assess the collective progress and to inform the preparation of subsequent NDCs.

As seen in the graph below, the next round of NDCs, NDC 3.0, will be submitted by February 2025 in advance of COP30 in Brazil. These NDCs should have updated targets to be implemented by 2030 and 2035.

Background paper: Global NDC Template for Popular Transport

In the transport field, "avoid" refers to measures, which reduce the need to travel and commute thereby making the transport system more efficient (TUMI, 2023). Travel demand management (TDM) as well as urban planning support avoid measures. "Shift" focuses on improving "individual trip efficiency" by affecting a modal shift away from the most energy consuming towards more environmentally friendly modes, i.e. shifting individuals from cars to public transport and active mobility (ibid.). Finally, "improve" refers to improving the efficiency of vehicles and fuels by optimising operations including the improvement of energy sources. Renewable energy-based transport for motorised modes should be the "basic principle" (ibid.).







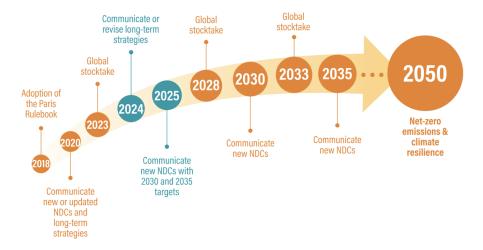


Figure I NDC timeline - Source: WRI, 2024

The UNFCCC Secretariat and the NDC Partnership² have further launched the NDC 3.0 Navigator, an interactive online tool that brings together knowledge and resources to help countries prepare their NDC submissions.

2.3 Assessing submitted NDCs

As of November 2021, all 193 signatory countries to the Paris Agreement had issued a first NDC, and 151 had communicated a new or updated one (UN, 2024).

Despite the requirement that NDCs need to be ambitious, a significant gap between required and planned emissions reductions was evident. That is why the Glasgow Climate Pact was signed in November 2021, where all countries were asked to revisit and strengthen the targets in their NDCs in 2022 (UN, 2024).

Two reports released ahead of COP28 in 2023 in Dubai based on the GST emphasised that countries are significantly off-track (UN, 2024).

Further, with regards to just transition, it was noted that with the exception of South Africa's plan, "explicit attention to this concept was almost non-existent in the initial NDCs" (WRI, 2023b). Currently, 45 NDCs explicitly mention a just transition, but at varying degrees. With regards to the transport sector, it has been noted that "concrete plans and policy measures for a just transition for transport workers are conspicuously absent." (SLOCAT, 2023b).

3 NDCs focusing on sustainable mobility modes

Urban transport accounted for 8% of global CO_2 emissions and around 40% of global transport emissions in 2020 (UITP, 2024). It is estimated that in the business-as-usual (BAU) scenario, motorised transport in cities could surge 94% in the next 25 years, which would lead to undesirable consequences with regard to energy consumption, air pollution, and emission levels, thus jeopardising the climate targets set forth

² "Launched in 2016 at COP22 in Marrakesh, the NDC Partnership was founded on the idea that technical assistance, expertise, and financing for climate action were not being deployed in an effective or coordinated way [...], and that greater support was urgently needed. In response, the NDC Partnership was established to facilitate collaboration between country governments, international institutions, non-state actors, and other partners to provide timely support for accelerated climate action" (NDC Partnership, 2024). The organisation currently consists of 200 members including 120 countries and 80 institutions.









by the Paris Agreement (PATH, 2024). Thus, the new round of NDCs to be submitted in 2025 offers a most timely opportunity to halt this scenario by formulating and implementing more holistic and ambitious transport targets.

Zooming in on transport, the <u>International Transport Forum</u> as well as <u>GIZ and SLOCAT</u> have launched an online transport NDC trackers.

Advocates of sustainable mobility including the International Association of Public Transport (UITP), the International Association for Rail (UIC), and the Partnership for Active Travel and Health (PATH) have published documents reviewing submitted NDCs and proposing an NDC template for their respective modes of interest, i.e. public transport (UITP, 2023; 2024), rail (UIC, 2023) and active mobility (2023; 2024). The three organisations did so by adopting a unified set of assessment factors, which was first identified by PATH during its review of national policies for walking and cycling in ITF member countries (PATH, 2023)

Table 1: Assessment factors for Transport NDCs - Source: Adapted from PATH, 2023

Assessment	Guiding question		
factor			
I. Status	Does the NDC mention [sustainable mobility modes/services]? Are there specific targets for it?		
2. Leadership	Who oversees the NDC process?		
3. Duration	What is the timeframe for achieving targets for the development of [sustainable mobility modes/services]?		
4. Ambition	Are [sustainable mobility modes/services] addressed in a mitigative and/or adaptive context?		
5. Action	What kind of concrete action do they focus on?		
6. Investment	Is funding in place to implement plans for the development of [sustainable mobility modes/services]?		
7. Evaluation	Is there a clear evaluation framework in place to track progress on [sustainable mobility modes/services] targets?		

By applying these assessment factors, UITP (2024) finds that current efforts and plans are insufficient to reach the climate goals. In fact, one in three countries fails to mention public transport in their NDCs. Only one third of NDCs mention a delivery timeline, mostly 2030, without having more long-term timelines planned out, and only 20% of NDCs have specific public transport targets. Looking more closely at the measures, a trend is clear in which HICs prioritise targets related to electrification and clean vehicles, whereas developing countries focus on increasing public transport coverage and other infrastructure investments (UITP, 2024). Yet, it is assumed that to achieve the climate targets, a combined mode share of active travel and public transport of between 40% to 80% is needed (PATH, 2024; UITP, 2024). Thus, an increased focus on shift measures is required









HOW MANY NDCs INCLUDED PUBLIC TRANSPORT POLICIES OR MEASURES?



Figure 2 Share of NDCs mentioning Public Transport - Source: UITP, 2024

It is further noted that targets related to active mobility, freight, shipping and aviation "appear in only a handful of NDCs" (WRI, 2023b). Therefore, more "ambition, action and investments" within the upcoming NDCs are necessary for the transport sector (PATH, 2024).

Number of current NDCs with different types of transport measures

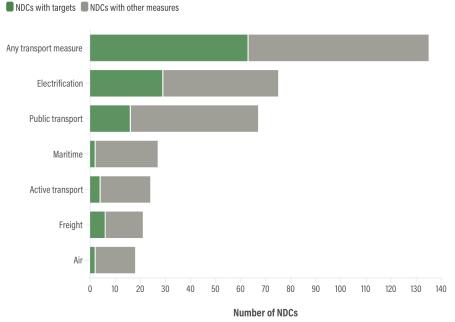


Figure 3 Number of NDCs with different types of transport measures - Source: WRI, 2023b









4 Background: Popular transport

Popular transport is essentially public transport. However, a different term is used to address it as a subsector because popular transport services tend to be provided by individuals or associations (rather than transport companies or governments), and their operations (including business models, vehicles, routes, schedules, tariffs, speeds, etc.) are carried out in ways that are not supported by, authorized and/or recognized by authorities and/or regulations. These services provide access to education, job opportunities, and health care services in places without sufficient government-provided or supported public transport systems.

Popular transport is a term used for public transport services serving the public while being operated by private local entrepreneurs with some degree of informality (SLOCAT, 2023a). The informality may reflect in how the services can flexibly adjust the routes, fares and schedules they operate on based on local passenger demand. Further, as opposed to traditional public transport, popular transport services are not provided by large companies, but instead by smaller companies or single entrepreneurs. Popular transport services are commonly referred to as "informal transport", "artisanal," "intermediate public transit" or "paratransit" services.

4.1 Raison d'être

It has been noted that popular transport services typically arise when the government-supported public transport service offer did not sufficiently address local transport needs (SLOCAT, 2023a). This implies that certain areas are not covered by public transport or that their locations, timetables and/or fares do not meet user needs or expectations (WRI, 2023b). To put this into perspective, literature notes that in Latin American cities for example, 20% of residents lack access to public transport within a ten minute walk from their homes, while 15% of residents in informal settlements lack any access at all (UNDP & GNPT, 2024).

4.2 Prevalence

Popular transport services fill a critical market gap, accounting for approximately 68% of road trips globally (SLOCAT, 2023a. In countries in Africa, Latin America, and in Asia, where there is significant population growth rates, rapid urbanisation and urban sprawl, popular transport represents the "main, if not only, mode of public transport" (MobiliseYourCity, 2023). In the absence of government-supported public transport services in select African cities (see below), up to 100% of daily motorised trips are made by residents using popular transport services (SLOCAT, 2023a).









FIGURE 1. Market shares of informal transport among motorised trips in 30 cities, selected years

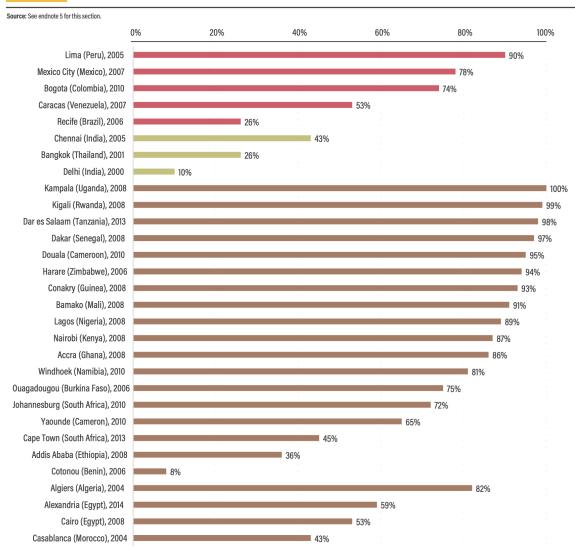


Figure 4 Market shares of informal transport among motorised trips in 30 cities, selected years - Source: SLOCAT, 2023a

However, popular transport services are not only present in medium- and low-income countries, but they can also be found in "underserved fringes of cities in high-income countries" (SLOCAT, 2023a). In fact, app-based ride-hailing services are "often grafted onto existing informal transport systems," and drivers and operators of informal transport services are recruited onto these ride-hailing platforms as service providers (SLOCAT, 2023a).

The popular transport sector does not only "move millions of people" around the world, but it also employs millions thus providing a significant contribution to local workforces and economies (SLOCAT, 2023a). For example, over 500,000 jobs are secured by the 75,000 mini-buses and 200,000 motorbike taxis in Lagos, Nigeria (MobiliseYourCity, 2021). Therefore, popular transport services are described as "homegrown, emergent, widespread, self-organising and self-sustaining" transport modes (SLOCAT, 2023a).

Despite their prevalence, popular transport systems lack integration into formal transport policies, contributing to urban congestion and pollution (MobiliseYourCity, 2021). The matrix below aims to give











an overview of how different popular transport modes can be positioned based on the degree of the regularity of service levels (fixed routes, timetables, frequencies), as well as on their degree of public regulation.

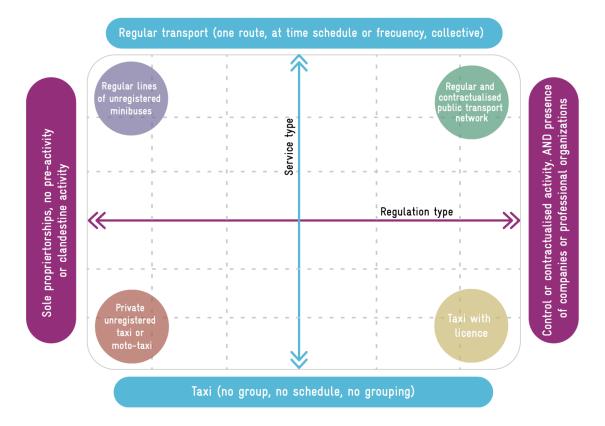


Figure 5 Overview matrix - Source: MobiliseYourCity, 2021

4.3 Fleet

The vehicles used by popular transport providers based on the context they operate in. While mini- and microbuses are the most used popular transport modes in Africa and in Latin America, two-and three-wheelers (2/3Ws), including tuk-tuks and motorcycles are prevalent in Asia (SLOCAT, 2023a). Literature also references boats being used as a popular transport mode (ibid.; MobiliseYourCity, 2021). Hence, popular transport covers more than road-based services and are provided using both light- and heavy-duty vehicles (LDVs and HDVs) (SLOCAT, 2023a).

The table below depicts the different vehicle types used for popular transport along with their average passenger capacity and their different local names from one region and country to another.









Table 2: Overview of average capacity and terminology for popular transport modes - Adapted from: SLOCAT, 2023a; WRI, 2023

Modes	Avg. capacity	r popular transport modes - Adapted from: SLOCAT, 2023a; WRI, 2023 Local names
Minibuses and		Africa
buses	10-70	Candongueiros (Angola), Car Rapide (Senegal), Chapa (Mozambique), Dala Dala (Tanzania), Danfos (Nigeria), Esprit de Mort (Democratic Republic of the Congo), Gbaka (Côte d'Ivoire), Kombi (Harare, Zimbabwe; South Africa), Minibus-Taxi (South Africa), Sotramas (Mali), Trotro (Ghana) Asia Angkot/pete-pete/sudako (Indonesia), Jeepney (Philippines) Latin America and the Caribbean Busito/Minibus/Ruletero/Chicken Bus (Guatemala), Chiva/Chivero (Colombia), Camioneta (Venezuela), Diablo Rojo (Panama), Maxi taxi (Trinidad and Tobago), Surubíe/Mini (Bolivia), ZR Van/Minibus (Barbados)
Pick-up trucks	6-12	Latin America and the Caribbean Pick-up (Guatemala), Tap-tap (Haiti)
Cars	3-5	Africa Amaphela (Cape Town), Mshikashika (Harare), Taxi (Sierra Leone), Woro-woro (Côte d'Ivoire) Asia Services (Lebanon) Latin America and the Caribbean Concho (Dominican Republic), Ferry (Panama), Guala (Colombia), Porcoico (Nicaragua), Robot (Jamaica), Taxi Pirata/Colectivo (Central America, Ecuador), Trufi (Bolivia)
Motorcycles	1-2	Africa Boda boda (East Africa), Okada (West Africa), Jakarta (Senegal) Asia Lemorque/ Motodop/Remork/Remorque (Cambodia), Motosai (Thailand), Ojek (Indonesia)
Three-wheelers	1-2	Africa Bajaji (Tanzania), Hende moto (Nigeria), Kekeh (Freetown), Pragia (Kumasi) Asia Baby Taxi or Mahindra (Bangladesh), Bajaj (Cambodia, Indonesia), Chang Gari or Chingchi (Pakistan), Sān Lún Chē (China), Tuk-Tuk /Auto-rickshaw (various countries) Latin America and the Caribbean Coco Taxi (Cuba), Motocarro/Mototaxi (various countries), Torito/ Tuk-Tuk (various countries), Mototaxi (Ecuador)
Bikes	1-2	Africa Cyclo-Pousse (Madagascar) Latin America and the Caribbean Bicitaxi (Colombia, Guatemala), Bicitaxi/ Ciclotaxi (Mexico)
Boats	varies	Africa Akro or Piroue (Togo) Latin America and the Caribbean Lancha (Costa Rica, Guatemala)









4.4 Regulation

The regulatory setting in which popular transport systems operate varies from country to country. While it is known that popular transport systems typically operate with "limited regulations" (SLOCAT, 2023a), local authorities regulate market entry by controlling the number of operating vehicles, the number of licenses granted and renewed each year as well as the criteria to obtain such licenses (MobiliseYourCity, 2021). More specific regulations may be in partially in place for the vehicles used, fares charged, drivers and other staff hired as well as on areas and routes served. Typically, however, fares, routes and schedules are flexible based on local market demand (ITF, 2023).

Like other transport services, popular transport systems are, however, subject to local traffic laws and regulations. As such, if a country were to introduce vehicle regulations and emission standards, these would apply to popular transport providers.

4.5 Business models

Popular transport operators typically do not receive government subsidies. Their main source of revenue to cover operational costs are the fares collected from passengers (MobiliseYourCity, 2021; UITP, 2021). Capital costs are usually also borne by the operators and/or vehicle owners themselves (ibid.).

For these reasons, the popular transport sector is characterised by many operators with small fleets of one or two vehicles per operator (GIZ, 2024). In some cases, vehicle owners are the operators themselves, but more commonly, the vehicle owner rents out the vehicle to drivers (SSATP, 2021). In these cases, drivers can be considered "unsalaried entrepreneurs" who pay the basic lease as well as the expenses including fuel (ibid.). To increase their daily income, drivers are incentivised to work long hours, and to operate on a "fill and go" basis while competing for the areas they serve with other operators and drivers (MobiliseYourCity, 2021; SSATP, 2021).

Further, sometimes the vehicle owner is not the license owner either and has to pay the license owner fees as well. In some countries, operators form driver unions, area-based associations or cooperatives to self-organise (MobiliseYourCity, 2021; SLOCAT, 2023a).

A simplified table of the different stakeholders and their typical roles in the popular transport sector is depicted below:









Table 3: Paratransit actors and their respective objectives - Source: MobiliseYourCity, 2021

Paratransit	t actors and	their respect	tive objectives

(these objectives are indicative and must be adapted to the context and the local ecosystem of actors)

Participants	Objectives	Sources of income	
Passengers	Getting around	Personal	
Drivers/riders	Optimising the number of passengers carried per day	Passenger revenue	
Touts	Attracting passengers and optimising occupancy	Passenger revenue	
Owners	Making a profit on the investment as quickly as possible	Passenger revenue or driver fees	
Associations	Representing owners' interests, optimising the organisation of the service	Members' contributions	
Mechanics, repairers	Selling services with an optimised margin	Cost of repairs (owner or driver)	
Licence holders	Renting the licence to a driver	Passenger revenue or driver fees	
Local authorities	Regulating the number of vehicles and ensuring mobility for city dwellers	Fuel taxes, licence costs, permits	
Police	Enforcing regulations	Wages and fines	
Financiers (banks or others)	Selling credit and securing repayments	Interest	
Insurers	Increasing the number of insured vehicles	Owners' investments	
Manufacturers	Selling vehicles - Increasing the number of vehicles	Owners' investments	
Energy providers	Increasing the number of vehicles on the road	Buying fuel (driver)	

Working conditions for transport workers are described as being "generally awful" (SSATP, 2021) characterised by low incomes, long working hours, lacking economic, legal and social protection, as well as facing harassment from local authorities (GNPT, forthcoming).

Transport workers may face "police harassment, criminal extortion, job insecurity, low incomes, discrimination, and no access to social security (ITF, 2017)." The situation is further aggravated for female transport workers as well as youth workers.

In the context of climate change, urban transport workers are further highly exposed to extreme weather conditions including flooding, air pollution and draughts, which may constitute as health and safety hazards, commonly "without appropriate protection" (ibid.). Especially for days with hotter temperatures, the lack of shelter, cooling, hydration and sanitary facilities is noteworthy (ibid.). Climate resilient infrastructure and sustainable working practices are needed.

4.6 Lack of government support

Although popular transport modes provide essential mobility services, their somewhat unregulated operational arrangement poses several negative externalities for both their users (passengers) and providers (operators). Some negative externalities include: the "low-quality service, precarious working conditions, and environmental pollution" (MobiliseYourCity, 2023). The low-quality service usually refers to the deteriorating condition of the vehicles, driver behaviour, and limited passenger information among others (MobiliseYourCity, 2021).

Zooming in on environmental pollution, popular transport services are typically provided using "aging vehicles" running on diesel and low-stroke engines (UITP, 2019). The vehicles purchased are often used









vehicles, typically mini- and microbuses, which entrepreneurs import from HICs. In many cases, it has been reported that these used vehicles do not undergo roadworthiness tests before being deployed in LICs and MICs for popular transport purposes (SLOCAT, 2023a). The aging fleets and the network inefficiencies contribute significantly to local air pollution and GHG emissions, which leads to popular transport vehicles being branded as "gross polluters" (UITP, 2019).

However, the cost-based entrepreneurial set-up of popular transport does not generate enough turnover to warrant investments (UITP, 2021). The business model and lack of access to non-farebox revenues limits the possibility of adequately maintaining vehicles or changing them to newer models, which results in the continued use of very old and polluting vehicles, often two to three times more polluting than their original version (SLOCAT, 2023a).

Thus, it is important to realise that the current business model is the reason why negative externalities associated with popular transport systems appear.

The popular transport sector, comprised of SMEs, cannot be expected to deliver a high-quality public service when there aren't any public funds, subsidies, investments or other channels to support and compensate the providers of popular transport for their public service.

Thus, the main issue at hand is the lack of public support, investment and integration of these modes into national and local transport systems.

5 Bridging the gap: Incorporating Popular Transport into NDCs

As popular transport modes often do not align with policymakers' expectations of modern public transport systems, it has been noted that "most urban transport reform projects aimed to eradicate the paratransit sector" (MobiliseYourCity, 2021). However, instead of banning or attempting to fully replace popular transport vehicles, policymakers should set realistic reform expectations, recognise paratransit in policy especially with regards to their decarbonisation potential, and leverage paratransit dividends by investing and improving existing informal services and infrastructure.

According to research from the International Transport Forum (ITF-OECD, 2023), if the same rate of technology improvements were applied to popular transport fleets as is applied to formal bus transport, overall transport CO₂ emissions could drop by more than 12% compared to the business-as-usual (BAU) scenario. The improvement in the efficiency of popular transport vehicles represents 4% of the 12% reduction in CO₂ emissions globally, and can have a significant effect in emerging economies where they are most used (ITF-OECD, 2023).

However, popular transport was largely overlooked in the NDCs, with only Angola and Uganda recognising emissions from informal vehicles. Current NDCs do not adequately address the role and potential of popular transport systems in achieving sustainable mobility, nor do global goals such as the 2030 Climate Solutions or Sharm Adaptation Agenda frameworks adequately address them.

Effective climate action in the popular transport sector would further align with the Sustainable Development Goals (SDGs), such as:

- SDG #3: by improving air quality, road safety and health in cities,
- SDG #5 by making services more inclusive and safer for women,
- SDG #8 by improving working conditions, supporting the formalisation and strengthening of SMEs,
- SDG #10 by reducing transport inequalities and improving livelihoods,
- SDG #11 by improving transport accessibility and the quality of existing services, and
- SDG #13 by decarbonising the most popular transportation means in the world and avoiding car dependency.

Background paper: Global NDC Template for Popular Transport









Thus, integrating popular transport systems into NDCs and National Adaptation Plans (NAPs) can align sustainable urban mobility development with global mitigation, adaptation and just transition goals, and international funding efforts can then be coordinated to support low- and medium-income countries achieve their targets related to popular transport.

6 Way forward

The Low Carbon Transport for Urban Sustainability (LOTUS) initiative³ launched during the COP27 Presidency in 2022, contains three strategic action points, including one to "empower and invest in informal transportation" to decarbonise and mobilise towards SDG 11 (UITP, 2022).

To formally recognise Popular Transport in Global Climate Action and integrate these systems into NDCs and NAPs, the Global Network for Popular Transport (GNPT) along with Transport for Cairo (TfC) are proposing a global NDC template for Popular Transport, an initiative which is being funded by the Transformative Urban Mobility Initiative (TUMI).

Drawing on global NDC templates published by the International Association of Public Transport (UITP, 2024) focusing on public transport, and by the Partnership for Active Travel and Health (PATH, 2024) focusing on Active Mobility, the NDC template should consist of a global vision, goals, objectives, actions, measures and monitoring and evaluation for popular transport.

Considering popular transport services are in essence public transport, recommendations made in UITP's NDC Template for Public Transport are equally important for popular transport. However, characteristics such as the business models, regulatory frameworks, vehicle types, working conditions in the popular transport operations require approaches and strategies that are very specific to this sub-sector and are not covered by the Template for Public Transport. Therefore, it is recommended that the template be used as a complement to the Template for Public Transport in countries where this sub-sector is prevalent.

6.1 Improvement areas

Literature (SLOCAT, 2023a; UITP, 2019; MobiliseYourCity, 2021) typically proposes improvement and reform measures for the transport sector along the two main axes of fleet upgrades and service quality improvements.

Overview of popular transport mitigation and adaptation measures

Fleet upgrades

- Vehicle scrapping schemes
- Vehicle upgrade schemes
- Fleet age regulation and restricting used vehicle imports.
- Fuel economy regulation.
- Setting emission standards
- Shifting to e-mobility

³ LOTUS has since been subsumed into the SURGe initiative, a second COP27 Presidency Initiative dedicated to connecting the local, national, and global levels with the vision to achieve global climate goals by using effective multilevel governance to transform cities to be healthy, sustainable, just, inclusive, low-emission, and resilient urban systems for a better urban future for all. Efforts regarding popular transport linked to the LOTUS initiative are being led by GNPT, in articulation with the SURGe initiative through UN-Habitat (UN-Habitat, 2023).









Service quality improvement

- Route optimisation and integration to mass transit services
- Professionalisation of popular transport operators
- Improved infrastructure and staging areas for climate resilience
- Improving labour conditions
- Integrating fares and fare collection with traditional public transport

Focusing specifically on labour conditions and the concepts of just transition and climate justice, the International Transport Workers Federation (ITF, 2022) developed a 10-point just transition framework to ensure urban transport workers' welfare and security with regards to increasing climate change:

- I. Formalisation
- 2. A gender equal just transition
- 3. Additional pay during extreme weather events
- 4. A job guarantee
- 5. Pension support for workers
- 6. Health and safety as a fundamental right
- 7. Democratic control of urban transport
- 8. Public transport as a public good
- 9. Technology sovereignty
- 10. Modal shift to public transport

6.2 Data requirements

It is noted that information and data on popular transport systems is limited (UITP, 2019). However, for a country to be able to understand and reduce the climate impacts of its popular transport sector, it is essential to measure the baseline scenario for the sector in order to be able to determine realistic goals and targets. To capture the current situation and be able to track progress, literature (SLOCAT, 2023a) recommends collecting the following data for the fleet, trips, operations and workforce conditions.

Table 4: Overview of data requirements for popular transport - Adapted from: SLOCAT, 2023a

Areas	Indicators		
Fleet	Number of vehicles		
	Type of vehicle		
	Avg. age of vehicles		
	Avg. operational lifespan of vehicles		
	Type of fuel used		
	Fuel efficiency (100km/litre)		
	Number of electric vehicles (if any)		
	Avg. distance travelled (daily and annual) per vehicle type		
Trips	Modal share of popular transport		
	Number of trips (daily and annual)		
Operations	• Routes		









	• Stops
	otops
	How operators connect to clients
Workforce	Number of people working in the sector
	Gender of people working in the sector
	Age of people working in the sector
	Nationality of people working in the sector
	Ethnicity of people working in the sector
	Avg. income of people working in the sector
Organisational	Type(s) of organisations (if any)
dynamics	Number of organisations and members
	Business model and key details of operations
	Political influence or lack thereof
	 Main causes, motivations or agendas for which sector stakeholders fight









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