On behalf of

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Transport and Mobility Newsletter

GIZ TRANSPORT NEWS
A service provided by the sector project Sustainable Mobility

Dear sustainable transport friends,

Welcome to the GIZ Transport and Mobility Newsletter! In this first edition of 2024, we dive into the fascinating world of mobility data, presenting you with an overview of project developments in GIZ's global transport portfolio, event highlights, and related knowledge material.

Data changes everything! Data collection and data analysis are key to sustainable, accessible, and smart mobility. Without up-to-date data on travel patterns and transport infrastructure, city leaders cannot make evidence-based planning decisions. However, the challenge lies in utilizing the full potential of mobility data, which includes reliably and accurately collecting and analysing data, as well as implementing good data governance to ensure better access, interoperability, and usability. Working with our partner countries and cities, we use mobility data to help to improve aspects of mobility planning, for example by leveraging digital transit scheduling data, by bridging the gender gap in transport, and by climate proofing public transport to climate change effects.

Data hubs are a promising instrument for unlocking the potential of data for sustainable mobility planning. Our constantly growing TUMI Mobility Data Hub brings together datasets from cities worldwide, using different methodologies and sharing experiences with an open data approach. We

are also part of and would like to endorse the Transport Data Commons Initiative, which is open to everyone, enabling transport planners and professionals all over the world to make the most of mobility data. For a quick glance at what to consider when using mobility data, have a look at the 10 data principles to transform public transport developed by the SUTi project.

As always, we appreciate your continued support and encourage you to provide feedback and suggestions for future editions. Please contact us via transport@giz.de. Together, let us continue striving for a sustainable transport future.

Kind regards,

Your Transport and Mobility Team

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Project Developments

TUMI Data - Making mobility data available for all
ISCN Global Mixer

© Sandra Schett

The TUMI Data Hub offers a one-stop solution with easy access to open data for integrated mobility planning and implementation. On March 6, Lena Plikat and Julian Kath give us insights into the data hub and show us its benefits for informed decision-making in mobility and transportation planning.

Visiting this ISCN Global Mixer, decision-makers from the Global South have the opportunity to onramp their municipality to the TUMI Data Hub!

Register now »

Learn more about the ISCN Global Mixer »

Contact: Lena Plikat, Julian Kath

With the focus topic TUMI Data, the Transformative Urban Mobility Initiative (TUMI) supports cities and institutions to share mobility data openly and foster data driven solutions for sustainable mobility. TUMI is funded by the German Federal Ministry for Economic Cooperation and Development (BMZ) and implemented by GIZ in collaboration with all TUMI partners.

Get involved in developing harmonised transport data

Presenting Transport Data Tools: An open-source Python package for the Transport Data Commons Initiative (TDCI)

© Carlos Muza / Unsplash

The Transport Data Commons Initiative connects 30 international partners working together to make high-quality transport data on greenhouse gas (GHG) emissions more openly available. Among other activities, TDCI aims to establish data standards and to harmonise data to make GHG quantification in the transport sector more transparent. The Transport Data Tools Package is a first step into this direction, providing a Python library for handling relevant data from ESTAT, ADB, and JRC.

Join our GitHub community and contribute to the development – we aim to further develop the package by including additional transport data, convert non-SDMX data into SDMX, and many more activities.

Join now »

Contact: Julian Kath

Funded by the International Climate Initiative (IKI) of the German Federal Ministry for Economic Affairs and Climate Action (BMWK), Mobilize Net-Zero supports governments in their commitment to decarbonise transport through building international partnerships.

City ranking of best public transport in Mexico

Application of benchmarking system to assess the quality of public transport services

Benchmarking Manual for Public Transport in Mexico | © GIZ

Making informed decisions based on mobility data is fundamental for transport planners. Therefore, international and national experts have developed a set of key performance indicators for Mexican cities to assess, compare, and monitor the quality of public transport services. The assessment allows the identification of areas of improvement against set targets and points out blind spots in mobility data management.

During the national meeting of mobility authorities, the benchmarking tool was presented and is now readily available for local governments to assess the current state of their public transport system. Following these efforts, the Mexican think tank Centro Mario Molina is leading an initiative to launch an independent city ranking of Mexican cities. The first edition is expected to be published by fall 2024.

Check out the tool and its manual »

Contact: **Leon Becker**

Digitalising mobility in Pereira

ProMOVIS and the Pereira Mobility Institute Move Towards a Smart City

Workshop: Digitalising mobility in Pereira | © GIZ

ProMOVIS advises the city of Pereira to enhance the city's technological infrastructure, aiming to transition it into a Smart City. GIZ is collaborating with the Pereira Mobility Institute that has introduced various technological elements to improve urban mobility, including a centralised traffic control platform emphasising sustainability and traffic efficiency. This platform integrates real-time traffic control, intersection customisation, and air quality monitoring with PM sensors.

Furthermore, it incorporates AI-enhanced cameras for license plate recognition and traffic monitoring. With these significant advancements, and as a conclusion of the first workshop, ProMOVIS aims to strengthen the implemented technological system with specific objectives focused on enhancing the technical ecosystem, improving institutional effectiveness, optimising the legal framework, and ensuring financial sustainability for citizen mobility in Pereira.

Workshop: Digitalising mobility in Pereira | © GIZ

Contact: **Marcela Medina**

ProMOVIS is funded by the German Federal Ministry for Economic Cooperation and Development (BMZ) and implemented by GIZ in Colombia. Its objective is to ensure Colombian cities are implementing measures to reduce carbon emissions, improve the scope and quality of urban transport systems, and facilitate access to mobility services. This will make the cities more climate friendly and inclusive in the challenging context of climate change.

Introducing the GTFS Analyzer

TUMI GTFS Analyzer | ©TUMI / GIZ

Public Transport plays a pivotal role in decarbonising the transport sector. Central to this effort is the General Transit Feed Specification (GTFS), a widely adopted format for transit data. The TUMI GTFS Analyzer connects directly to the TUMI Mobility Data Hub, automatically screening data for various cities worldwide and offering a user-friendly interface. With minimal input, the tool facilitates a range of analyses. These include assessing the spatial distribution of stops, service quality, departure frequencies, identification of areas with inadequate service (white spots), and times of low and high departure frequency.

Reach out to us to upload your GTFS data or to receive more information!
Learn more about the TUMI GTFS Analyzer in our flyer.

Download »

Contact: Lena Plikat, Julian Kath

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Pioneering global transport transformation
"Stories of Change" video

Stories of Change | © GIZ

In 2010, we have started the first global project on transport and climate change on behalf of the International Climate Initiative (IKI). Over the past 10+ years, our partners worldwide have made significant strides in advancing transport ambition and climate protection by closely leveraging mobility data. This video showcases the remarkable accomplishments of Thailand, Peru, Kenya, India, and Colombia.

Especially the cases of Kenya and Colombia have drawn attention on the necessity of measuring data and monitoring policies related to transport. Our local partners have successfully realised substantial emission reductions, contributing to tangible outcomes such as more livable cities, cleaner air, and improved access to markets and jobs.

[Watch the full video here »]

[Find out more about #StoriesOfChange »]

Contact: Zuadi Pinto

With the campaign #StoriesofChange we profile the work of our partner countries in developing climate actions in transport. Read more #StoriesOfChange and follow the hashtag on X.

Driving change: Innovating urban mobility in the Western Balkans
Addressing the challenges of sustainable transportation

ProSUMP Belgrade | © GIZ

Urban mobility capacity development in the Western Balkans is not just an abstract concept but a pressing reality affecting millions. Despite awareness, implementation lags due to inconsistent political will and limited capacity for change.

The Open Regional Fund for South East Europe – Energy, Transport and Climate Protection (ORF ETC) undertook a comprehensive approach to address this challenge. Through data-driven research, stakeholder engagement, and targeted interviews, critical gaps were identified. Among these gaps is incomplete and outdated data, which hampers decision-making.

Tailored recommendations were crafted to address these gaps, including institutional restructuring, advisory boards for mayors, education, and cross-sector collaboration.

Read more about how the sustainable transport community successfully highlighted the urgency to act!

<div style="border:1px solid red; display:inline-block; padding:10px 20px; color:red;">Read here »</div>

Contact: Milenka Knežević

The Open Regional Fund for South East Europe – Energy, Transport and Climate Protection, ORF-ETC, is co-funded by the European Union and the German Federal Ministry for Economic Cooperation and Development (BMZ), implemented by GIZ.

How the measurement of green house gas emissions can contribute to urban mobility planning

The MobiliseYourCity emissions calculator consolidates as an informed tool to help cities calculate their emissions in the transport sector

Calculating emissions proves to be a challenging yet crucial aspect in assessing the impact of urban mobility on greenhouse gas (GHG) emissions and predicting the potential effects of Sustainable Urban Mobility Plans (SUMP) implementation in cities. The GHG emissions calculator takes into account both passenger and freight vehicles, along with the impacts of the implemented measures reflected in the quantification of Avoid, Shift, and Improve effects, outlined as follows:

- **Avoid**: Minimize trips in motorised modes.
- **Shift**: Transfer trips to more energy-efficient modes, such as public transportation or non-motorised modes.
- **Improve**: Enhance the energy efficiency of current vehicles through improved fuel efficiency or the use of zero-emission vehicles.

In a recent exercise, we applied the GHG emissions calculator to Antofagasta, Ambato, and Guadalajara, along with the countries of Chile and Uruguay. This exercise provided valuable insights into the tool and the quantified effects.

Our primary takeaways from this exercise are twofold: Firstly, the absence of input data and expected effects for some contexts underscores the ongoing need for further development in this area. Secondly, the intricate relationship among Avoid, Shift, and Improve measures requires a comprehensive analysis of the results rather than isolating each type of measure. Moreover, these measures must align with other national and local policies, such as transitioning to electric vehicles or developing public transportation.

Finally, delays in implementation could hinder modelled emissions targets and potentially lead to non-compliance with climate agreements. It is imperative to address these challenges to mitigate GHG emissions and meet climate objectives effectively.

To the calculator »

Contact: Giuliana Ambriosino

Launched at COP21 in Paris in 2015, the MobiliseYourCity Partnership has established itself as the leading global Partnership of nearly 100 partners for sustainable urban mobility planning, policy development, and increasing investment for sustainable transport in developing and emerging economies. Today, the Partnership has more than 70 member cities and 15 member countries, with a combined population of over 75 million people in 32 countries.

Understanding differences: carbon neutrality, climate neutrality and net-zero emissions

The work of countries to measure the impact of their efforts

© Mark Neal, Source/Pexels

Explore the details of achieving carbon neutrality and net-zero emissions in transportation with mobility data as a crucial ally. The article "Understanding Differences: Carbon Neutrality, Climate

Neutrality, and Net-zero Emissions," delves into the challenges that countries encounter in meeting ambitious emissions goals, necessitating support from constantly evolving measuring methods.

This article provides an overview of terminology, highlighting the intricacies of national policies. Gain insights into the challenges associated with the use of terms and the breadth of emissions covered. Understand the critical role clarity in terminology plays in effective policy formulation and international cooperation.

Read the full article for a comprehensive understanding of the topic.

Read the article »

Contact: Zuadi Pinto, Kirsten Orschulok

NDC Transport Initiative for Asia (NDC-TIA) is part of the International Climate Initiative (IKI). The German Federal Ministry for Economic Affairs and Climate Action (BMWK) supports this initiative on the basis of a decision adopted by the German Bundestag. It supports China, India, and Viet Nam as well as regional and global decarbonisation strategies to increase the ambition around low-carbon transport.

From data to action: India's e-mobility transition unveiled

E-rickshaws in Delhi | NDC-TIA © GIZ India

Mobility data serves as the cornerstone of India's transportation revolution, particularly within the realm of e-mobility. It empowers policymakers with insights into transportation patterns, energy consumption, and environmental impact, facilitating effective strategies for electric vehicle adoption and infrastructure development. Data-driven insights guide urban planners in optimising infrastructure deployment for e-mobility trends. Market data allows tailoring e-mobility technologies to suit Indian preferences, while environmental impact assessments quantify the benefits of transitioning to e-mobility. Data analysis reveals economic opportunities like job creation, underscoring e-mobility's contribution to India's economic development. Leveraging mobility data to assess India's EV uptake, namely vehicle registrations and usage patterns, stands as a critical cornerstone in realizing the ambitious goal of attaining a 30% EV share by 2030.

The article "How India is Pushing Its E-Mobility Transition" provides valuable insights into India's e-

mobility journey, backed by a comprehensive data analysis. To further explore this topic and gain deeper insights, we encourage you to read the full article here.

Read here »

Contact: Bhagyasree

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Beyond the 10: how data contributes to the sustainable urban mobility principles
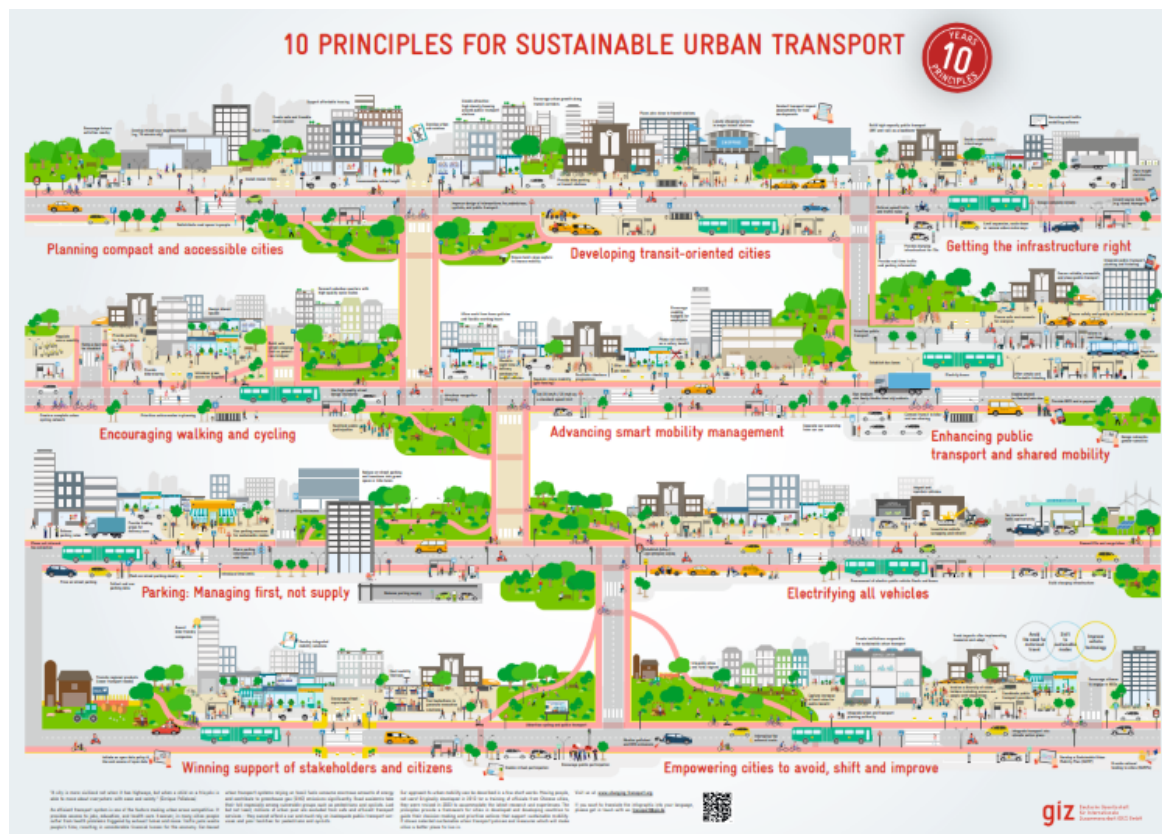
© GIZ

Sustainable mobility isn't a destination, it's a journey guided by data. From planning to electrification, data fuels every step towards sustainable cities. The 10 principles show how:

- **Planning:** Understand travel patterns, redistribute road space for people & green areas.
- **Transit:** Ridership data shapes sub-centres and attracts residents near stations.
- **Infrastructure:** Real-time traffic info, charging stations based on EV needs, crowd-sourced data for optimizing freight distribution.
- **Walking & Cycling:** Understanding existing patterns for building a complete cycling network. Green waves for cyclists.
- **Smart Mobility:** Congestion pricing, pollution data, and real-time parking information.

- **Public Transport:** Data optimises ticketing, ensures safety, and informs public transport incentives.
- **Parking:** Real-time information is key to efficiently manage parking spaces and revenue allocation.
- **Electrification:** Emissions data defines Low Emission Zones & guides electric fleet procurement.
- **Stakeholder Support:** Open data fosters transparency & public participation.
- **Empowering Cities:** Monitoring emissions and integrating regions require continuous data collection. Stakeholder engagement and understanding through surveys and data analysis.

Expole the 10 principles »

Contact: Daniel Bongardt

The 10 Principles for Sustainable Urban Transport poster was originally created in 2013 to guide Chinese city officials. In 2023, it underwent a revision by the GIZ Changing Transport team and other GIZ experts from around the globe. Leveraging crowd-sourced insights, the team updated the principles to reflect the latest research and real-world experiences.

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