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SHAPING THE JUST TRANSITION: CHALLENGES AND OPPORTUNITIES TOWARDS SUSTAINABLE TRANSPORT

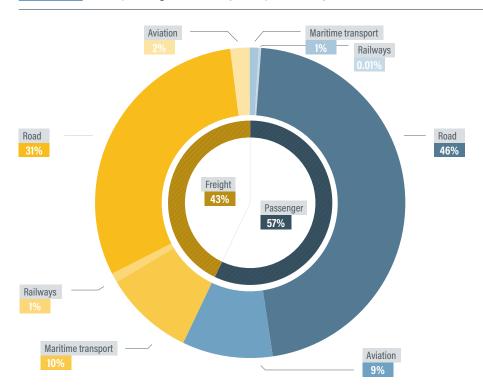




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10 YEARS AFTER THE PARIS AGREEMENT AND THE 2030 AGENDA, ON THE PATH TO THE UN DECADE OF **SUSTAINABLE TRANSPORT**



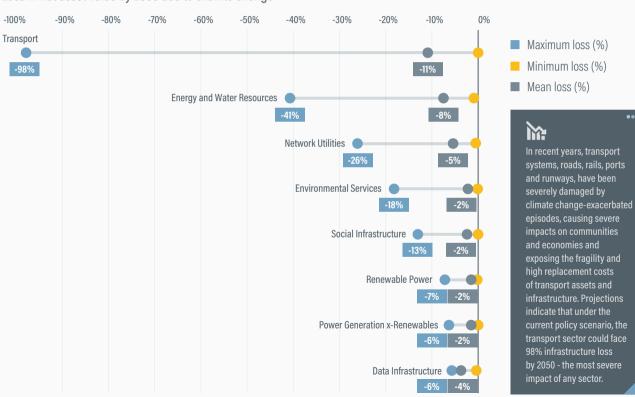


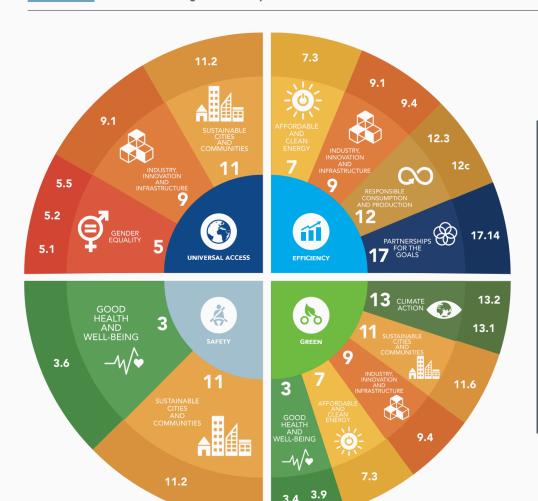
By transport activity, freight transport was estimated to contribute 43% of CO_2 emissions in 2023, while passenger transport contributed 57%. Since 2015, estimates point to an increasing role of freight transport in greenhouse gas emissions.

FIGURE 2. Average impact of physical risk on net asset value within the "current policies" scenario for 2050 for different infrastructure segments

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Loss in net asset value by 2050 due to cliamte change





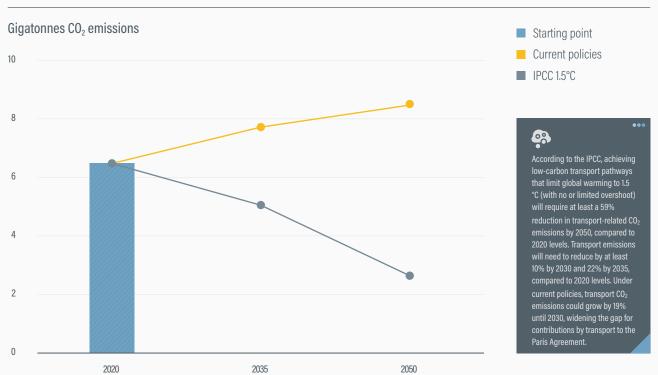


Out of the 169 SDG targets, only three relate directly to transport, namely target 3.6 on road safety, target 9.1 on access to all-weather roads and target 11.2 on public transport access. However, another 15 targets relate indirectly to transport, and adequate transport action can contribute to their achievement.

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Additionally, several transport aspects are also captured at the level of the indicators used to measure progress towards SDG targets. (NB: indicators are not represented in this figure).

FIGURE 4. Pathways for current policies versus low-carbon pathway for transport CO₂ emissions



Benefits of robust transport actions in new NDCs



Boosted investment and prosperity

- Attract funding through robust NDCs
- Create jobs and drive prosperity



Reduced emissions and cleaner cities

- Cut GHG in passenger and freight transport
- Improve air quality and reduce noise pollution



Inclusive, collaborative approaches

- Bring subnational and non-state actors on board
- Ensure more integrated, unified strategies



Stronger resilience and energy security

- Move away from fossil fuels
- · Better resilience against global shocks



Greater efficiency and cost savings

- · Save energy, land, and public funds
- · Avoid costly reliance on outdated technologies



Diversified infrastructure and wider access

- · Enhance services for better opportunities
- Build networks that benefit everyone





Commit to a Structured Process for Setting a Global Transport Goal

Expand inclusive access to low-carbon transport | Phase out fossil fuels by scaling up renewable and zero emission energy sources in transport | Reduce the sector's overall energy use



Deliver Bold Transport NDCs to Supercharge Climate Action

Set targets | Scale up action | Secure assets | Catalyse finance | Prioritise people



Scale up Climate Finance in Sustainable Transport to Power Change

To address multiple priorities in climate action for low- and middle-income countries, investing in sustainable transport must be part of the solution



Prioritise Transport Adaptation and Resilience to Protect Communities and Economies

To reduce transport disruptions and their severe impacts on communities and economies, greater focus must be placed on adaptation to climate change and resilience in the sector



Leverage Key UNFCCC Platforms to Accelerate Transport Action

The Mitigation Work Programme and the Just Transition Work Programme must be leveraged as platforms for accelerating transport action

What can the UN Decade of Sustainable Transport achieve by 2035?

1

All actors are aligned behind a forward-looking vision, working together to deliver context-specific action

2

National and sub-national governments and businesses have policymaking, organisational, and technical capacities and skills to develop and implement integrated frameworks, particularly in low- and middle-income countries (LMICs)

3

Public and private investments, and revenue streams from transport users are used to fund sustainable transport expansion, particularly in LMICs

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Reliable, open-access data informs evidence-based policy, investment, evaluation and improvement



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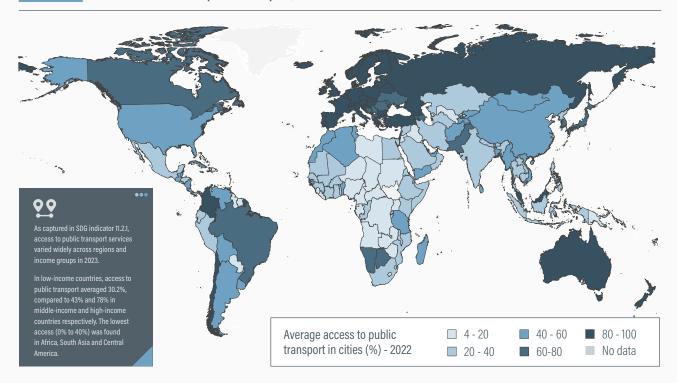
Strengthened mechanisms across actors and transport modes, between transport and other sectors, and among UN entities are enabling systemic coordination and international multi-stakeholder cooperation

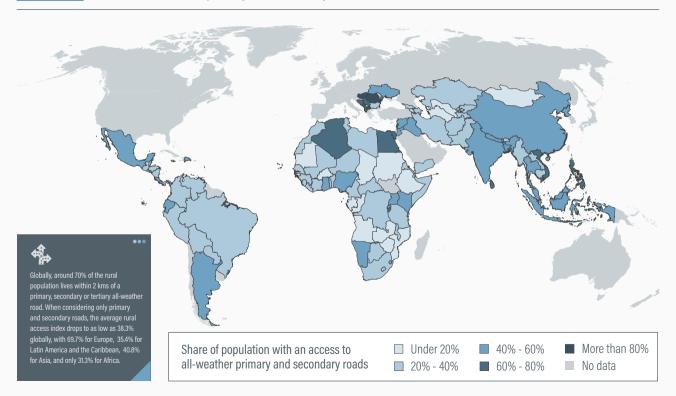


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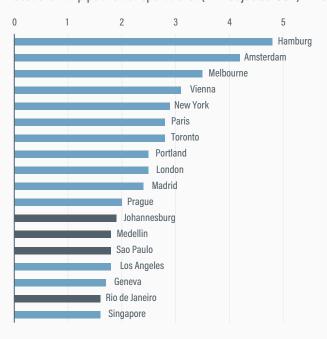


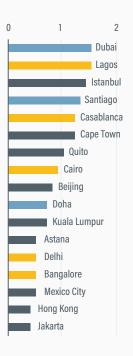
THE RIGHT TO MOBILITY IN A SUSTAINABLE AND INCLUSIVE SOCIETY





Cost of a 1-trip public transport ticket (PPP-adjusted USD) in 2023





- High-income
- Upper-middle income
- Lower-middle income

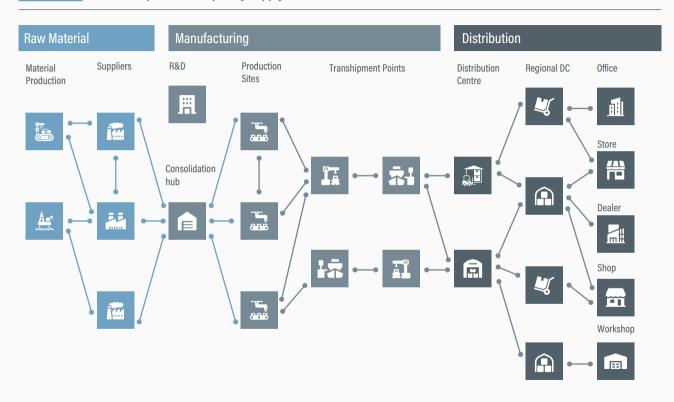


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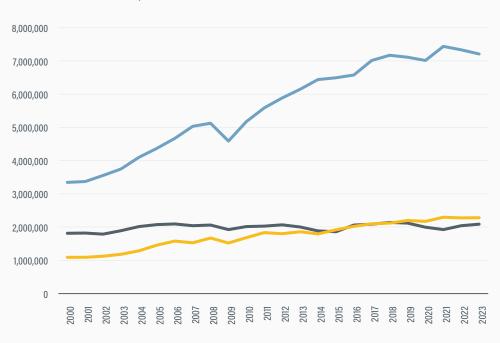


TRANSPORTING SHARED
PROSPERITY: CONNECTING
ECONOMIES AND PEOPLE FOR A
SUSTAINABLE PLANET





World seaborne trade in 1,000 metric tons



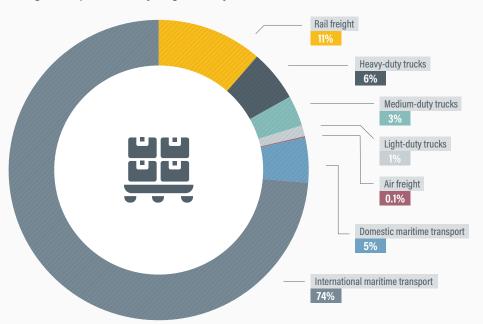
- Crude oil
- Other tanker trade
- Dry cargo



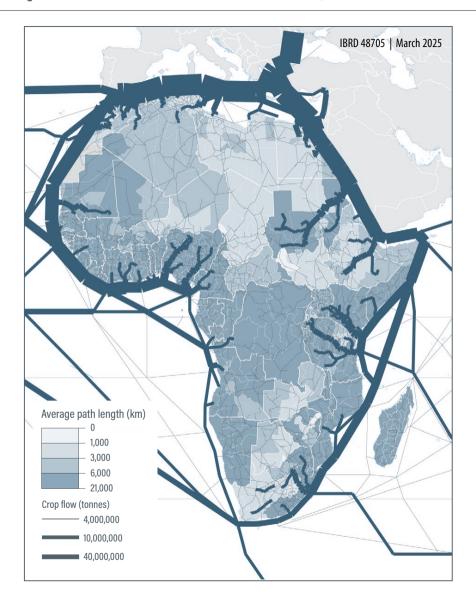
Decarbonising the global economy, including the transport sector, will have deep impacts on global trade and the shipping industry that supports it. As of 2024, more than one-third of the global shipping fleet carried fossil fuels as cargo. However, the share of fuels in the overall volume of globally traded commodities declined between 2000 and 2023.

FIGURE 3.

Freight transport modes by freight activity in tonnes-kilometers







Global Supply Chain Stress Index in million Twenty-Foot Equivalent Units

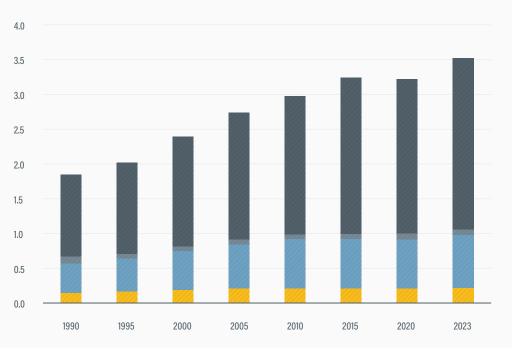




A key indicator to assess trade volatility is the Global Supply Chain Stress Index (GSCSI), which measures the magnitude of container shipping disruptions that affect global supply chains. The GSCI hit an all-time high during the COVID-19 crisis in 2021-2022, which included a months-long closure of the Port of Shanghai (China).

A further spike in the GSCSI in 2024 reflected both the drought in the Panama Canal and militant attacks on shipping in the Red Sea, which forced shipping lines to detour thousands of kilometres around the Cape of Good Hope in Africa.

CO₂ emissions in gigatonnes by freight transport modes



Aviation

Maritime transport

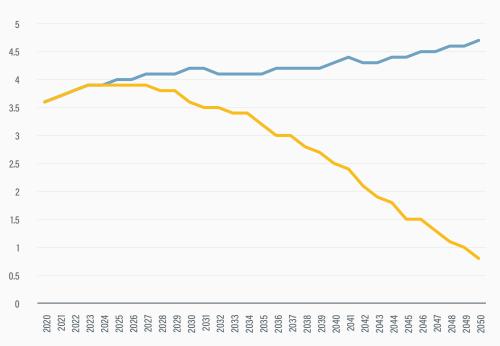
Rail

Road

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Road transport contributed 70% of the CO₂ emissions from freight transport in 2023, despite carrying less global trade by volume than maritime transport and rail. Maritime transport contributed 22% of emissions and aviation accounted for nearly 6%, an outsized share given its small role in freight transport. Railways contributed the lowest share of freight transport emissions at 2.3%.

Freight transport CO₂ emissions in gigatonnes



- Current ambition scenario
- High ambition scenario

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Emissions from global freight could surge nearly 30% between 2019 and 2050 under a "current policies" scenario, in which greener technologies and logistic practices are not introduced at a sufficient pace and scale to curb these emissions. In contrast, in a "high ambitions" scenario, global freight emissions could drop 75% by 2050 even if transport volumes rise 60%.

Total GHG emisions (2015): 3.6 million tonnes

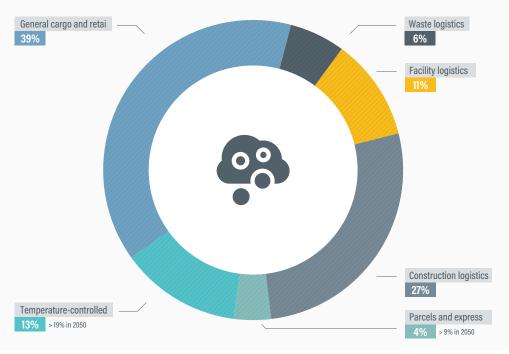




FIGURE 9.

Five clusters of interventions to deliver quick wins and initiate long-term transformations in freight transport and logistics













Mandatory, standardised and transparent tracking, reporting and evaluation

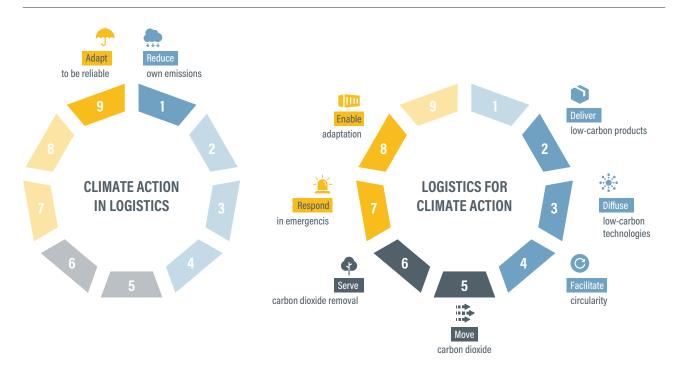


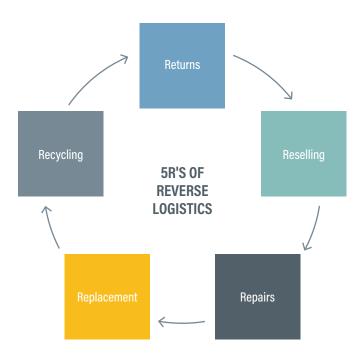
Data, research, technology, innovation and capacity building

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SPOTLIGHT ON LOGISTICS FOR CLIMATE ACTION





1.4



BUILDING ADAPTATION AND RESILIENCE WITHIN TRANSPORT SYSTEMS AND ACROSS COMMUNITIES AND ECONOMIES

FIGURE 1.

Average impact of physical risk on net asset value within the "current policies" scenario for 2050 for different infrastructure segments

Loss in net asset value by 2050 due to climate change

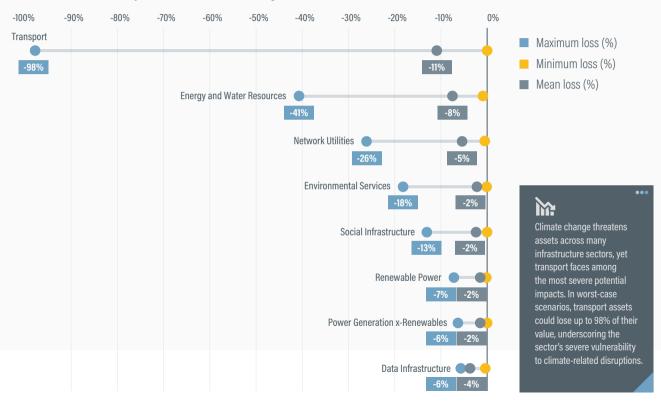


FIGURE 2. Physical infrastructure risk (2025) compared to per capita GDP (2023)

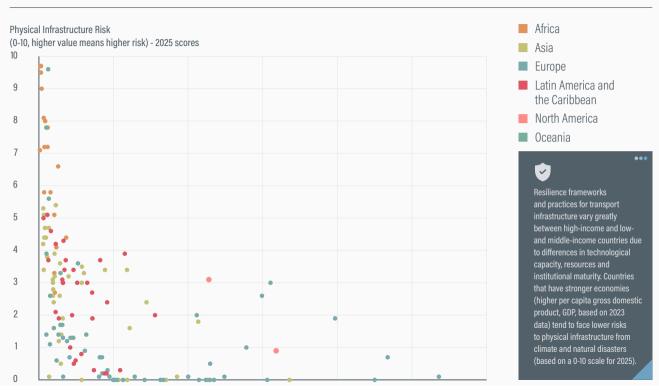
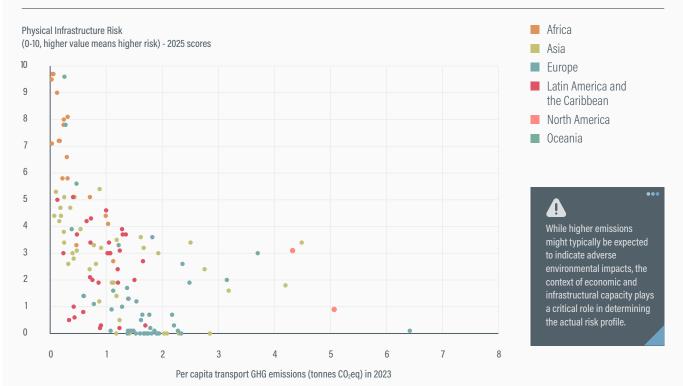


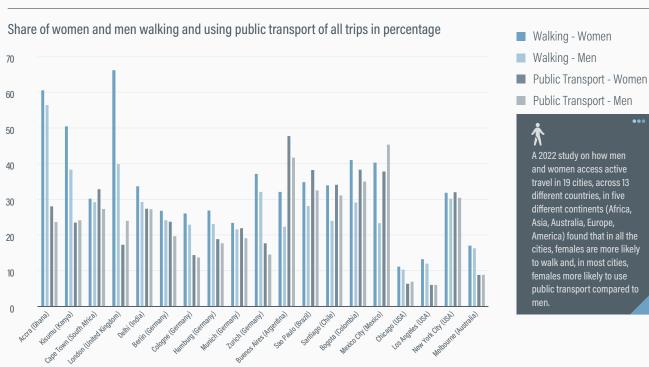
FIGURE 3. Physical infrastructure risk (2025) compared to transport greenhouse gas emissions (2023)



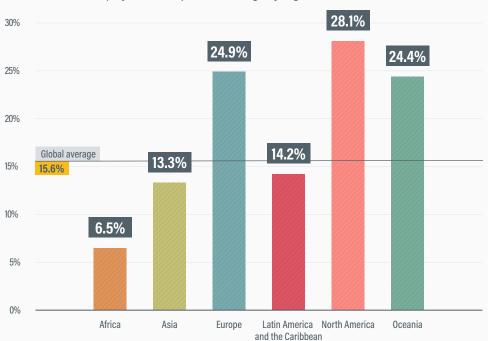
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DRIVING GENDER EQUALITY: EMPOWERING WOMEN AND TRANSFORMING TRANSPORT



Share of women employed in transport and storage by region in 2023

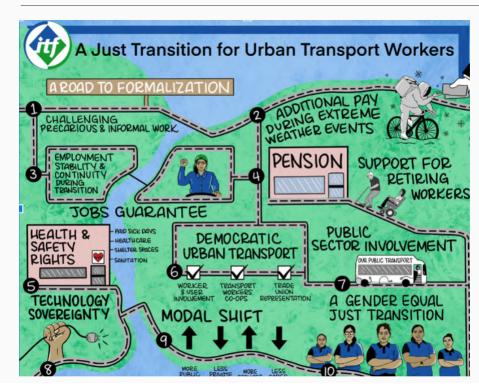




1.6



A JUST TRANSITION IN TRANSPORT: A DOUBLE CHALLENGE



Joint action on mitigation and adaptation is critical for urban transport (and all transport modes).

Art credit Elizabeth Niarhos @lizar_tistr for ITF.

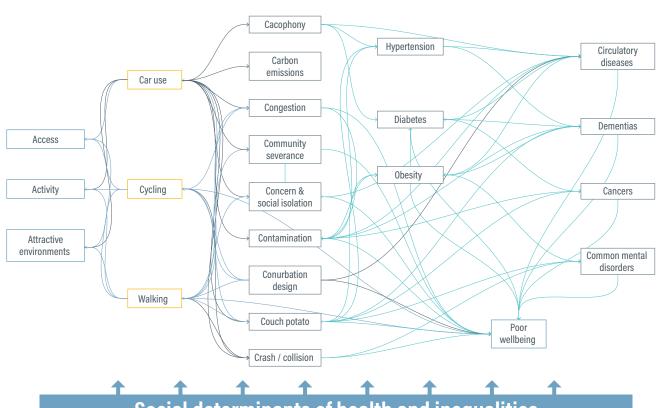
1.7



DRIVING HEALTH FORWARD: THE CRITICAL LINK BETWEEN TRANSPORT AND WELLBEING

FIGURE 1.

The links between the benefits (3 A's) and harms (9 C's) of road transport by travel mode: car use, cycling and walking



Social determinants of health and inequalities

e.g. housing, transport, income, jobs, education, etc. affect exposure & sensitivity

WALKING AND CYCLING





cognitive function



weight status



bone and functional health



sleep quality



muscular and cardiorespiratory fitness



mental health

REDUCES:



all-cause mortality



hypertension



cancers



feelings of anxiety and depression



hip fractures



metabolic syndrome



cardiovascular mortality

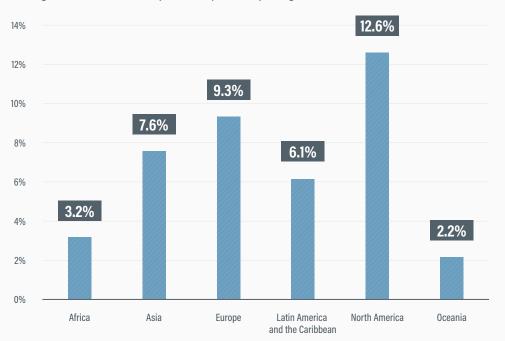


type 2 diabetes



risk of dementia

Average contribution of transport to air pollution per region, 2019



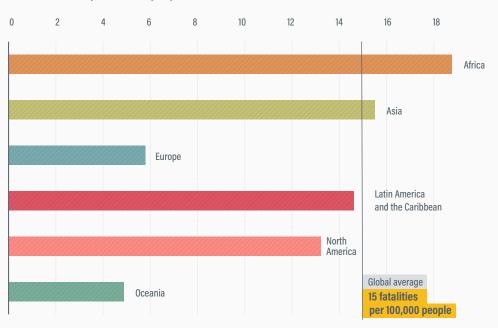


2019 estimates show that transport is responsible for 6% of air pollution, making it responsible for half million of air pollution-related premature deaths. However, the extent of this contribution varies significantly amongst regions, ranging from 12.6% in North America, to only 2% in Oceania.



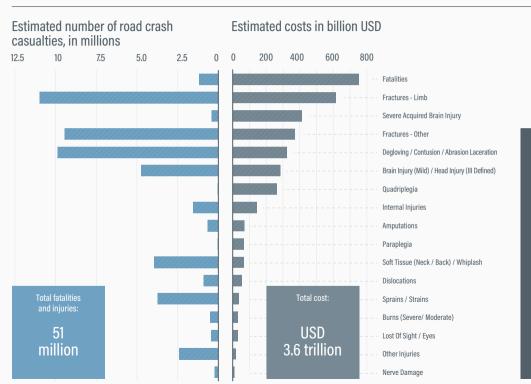
Road traffic casualties per 100,000 people, by region, 2021

Road casualties per 100,000 people in 2021





Road traffic crashes killed 1.19 million people in 2021, with significant disparities by region. The highest per capita road fatalities were recorded in Africa with 18.8 fatalities per 100,000 people, above the global average of 15 deaths per 100,000 people.





As of 2021, the total cost of death and injury on the world's roads was an estimated USD 3.6 trillion a year, or the equivalent of 3.7% of global GDP.

In low- and middle-income countries, the cost of road crashes approached 5% of GDP. In these countries and in rural areas worldwide, the consequences of a road crash are often exacerbated by the paucity of roadside or other emergency care, including a lack of emergency services and vehicles to transport injured people.