

# Implications of Green Transport for Socioeconomic Transformation

*Environmentally Sustainable Transport:  
NDCs, E-mobility and Sustainable Transport  
COP25 Japan Pavilion - December 2019*

**Karl Peet**

*Knowledge Director  
SLoCaT Partnership on  
Sustainable, Low Carbon Transport*



Partnership on Sustainable  
Low Carbon Transport



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Low Carbon Transport

# About the SLoCaT Partnership



International multi-stakeholder partnership



Primary focus on land transport



Targeted at developing countries in global South



Knowledge and data analysis



Multi-stakeholder dialogue and coalition building



Policy advocacy and action

# Presentation Overview

The background features faint, light blue line-art illustrations of a car on the left, a person walking in the center, and a bicycle on the right.

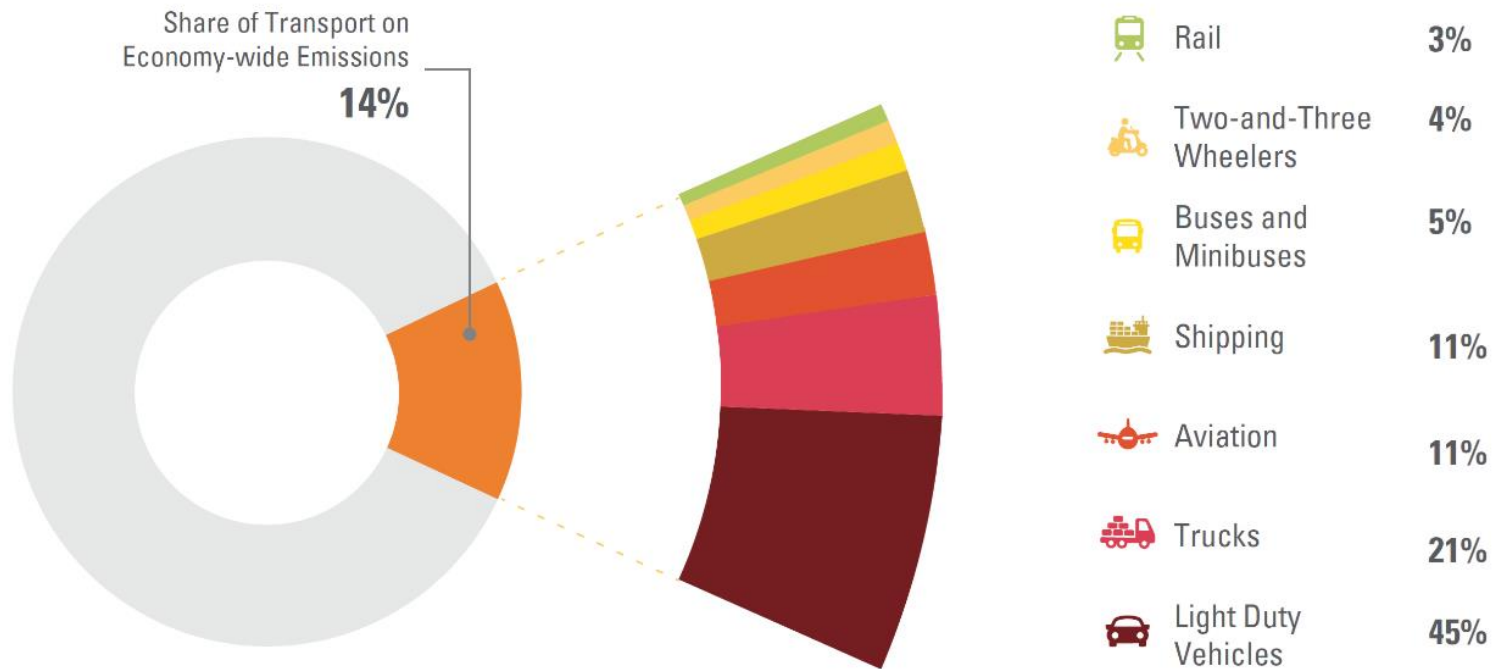
1. Global transport emission trends
2. Sustainable transport policy actions
3. Benefits for environment, economy and society



# 1. Global transport emission trends

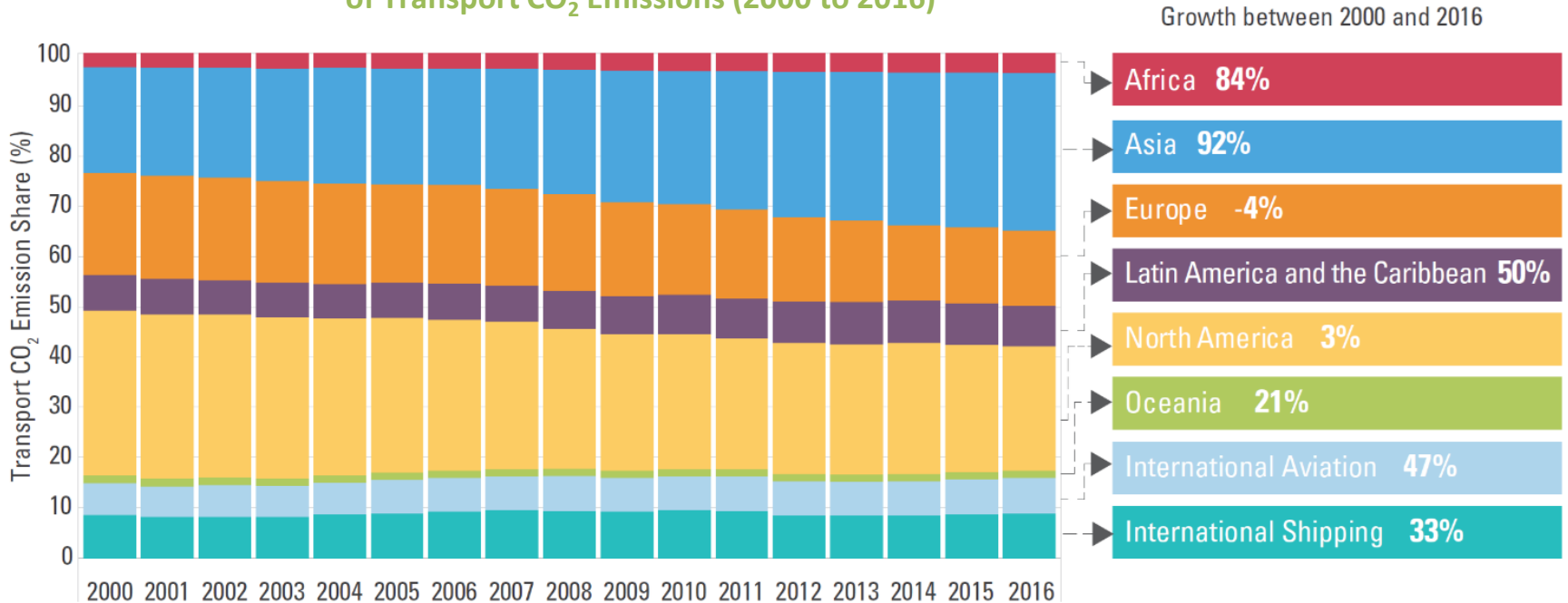
# Transport emissions significant and growing as share of total emissions

## Share of Transport Sector GHG Emissions by Mode (2015)

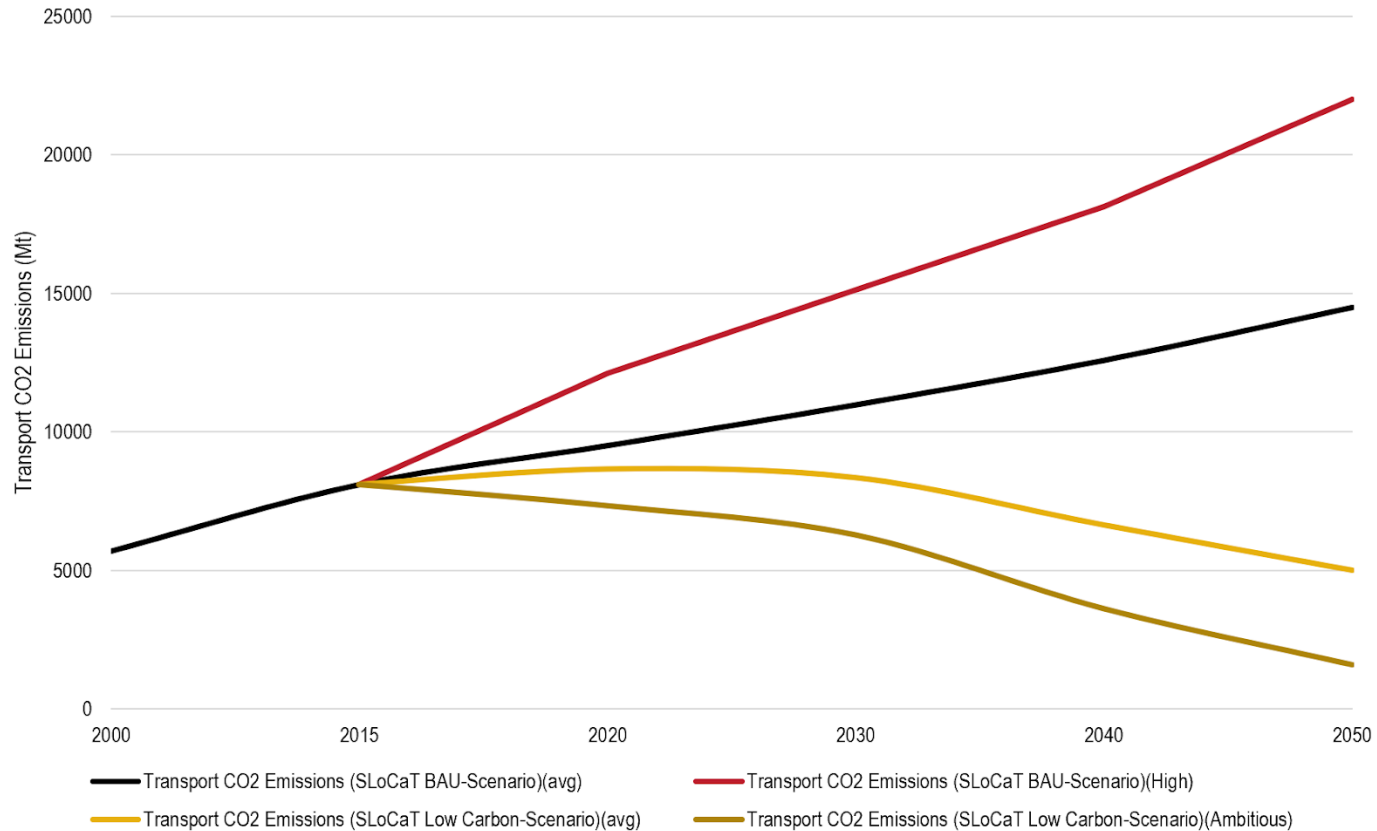


# Transport emissions share shifting across regions

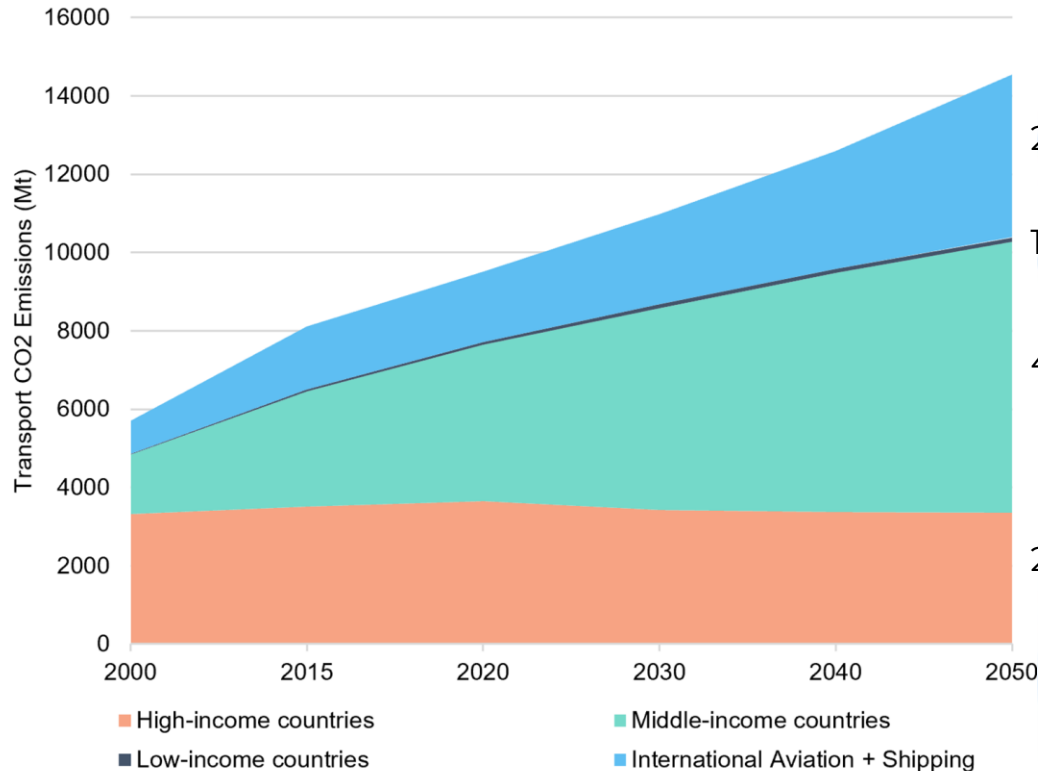
## Regional Share and International Aviation and Shipping Shares of Transport CO<sub>2</sub> Emissions (2000 to 2016)



# Low Carbon Transport Research Key Findings



# Future projected transport BAU



BAU by 2050:

29% from International Aviation + Shipping

1% from Low-Income countries

47% from Middle-Income countries

23% from High-Income countries



# Assessment of 2020 NDCs

New NDCs will be assessed by SLoCaT on:

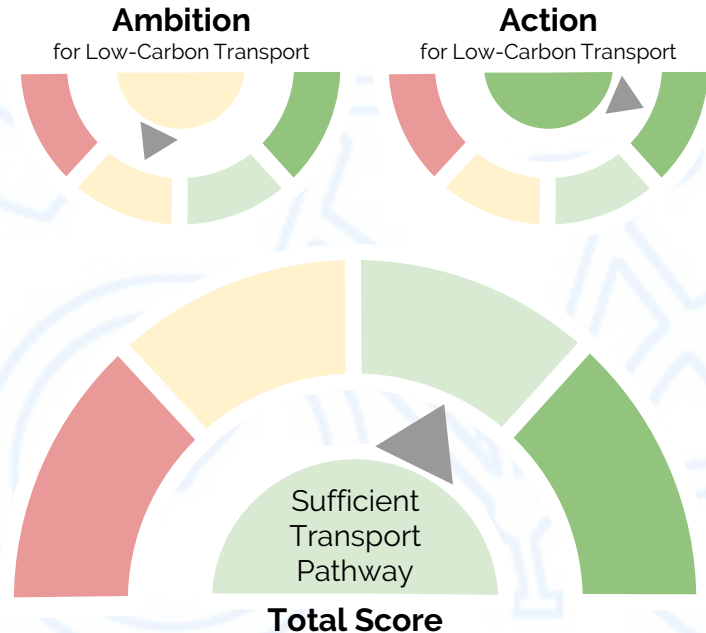
## Ambition

- Direct transport emission mitigation target
- Other indirect transport targets

## Action

- Low-carbon measures in NDC
- Balance between Avoid, Shift and Improve

## Draft Assessment Framework

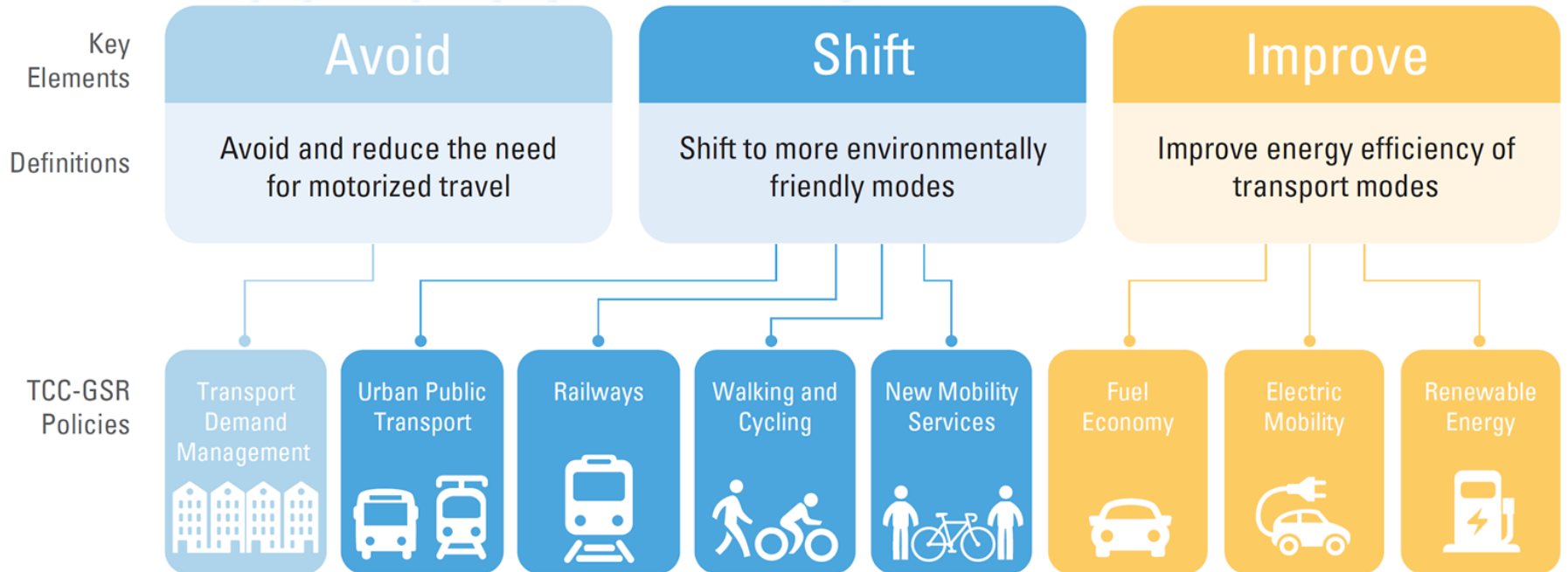




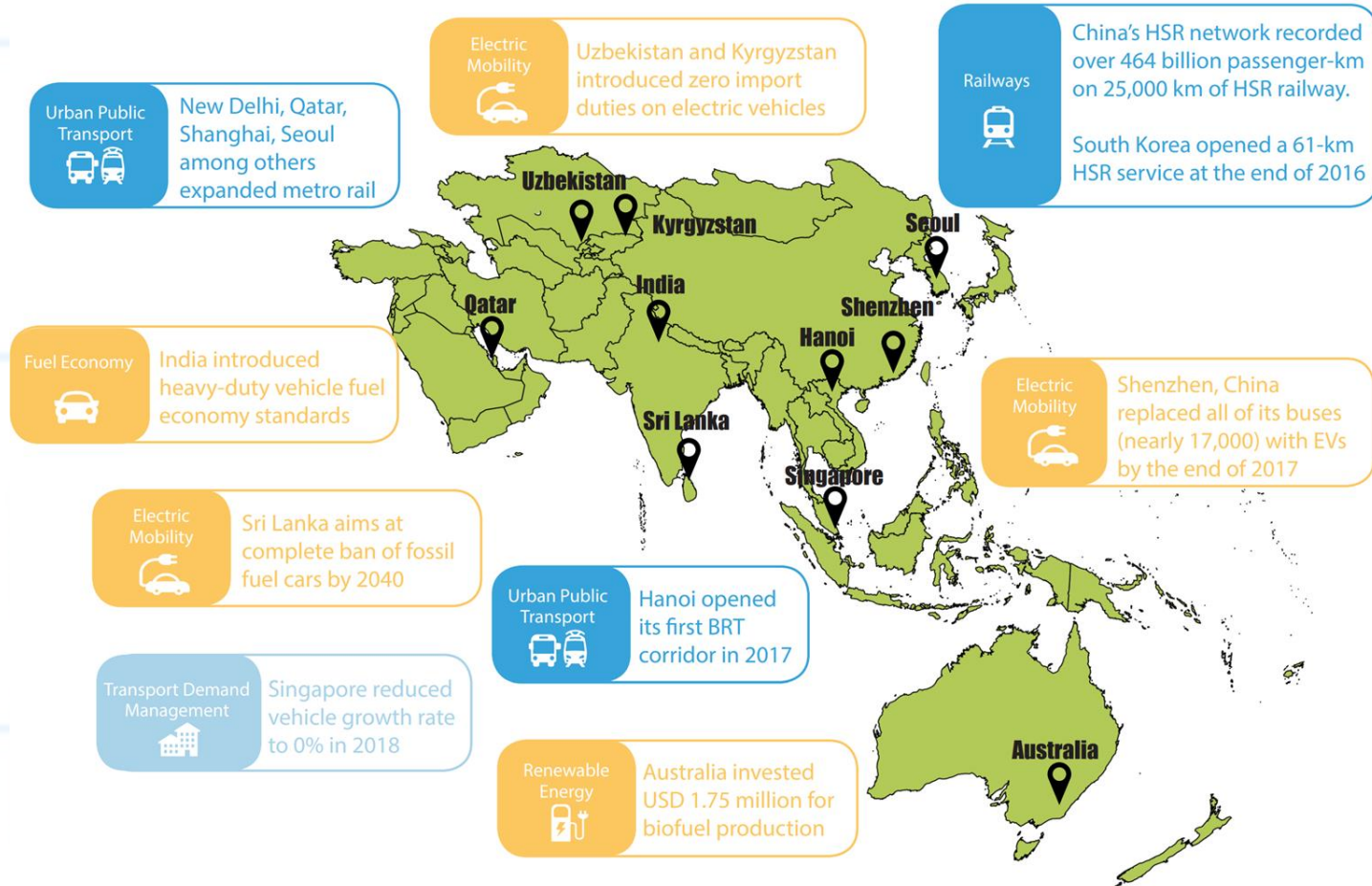
## 2. Sustainable transport policy actions

# Avoid-Shift-Improve framework can support sustainable transport implementation

## Avoid-Shift-Improve Framework

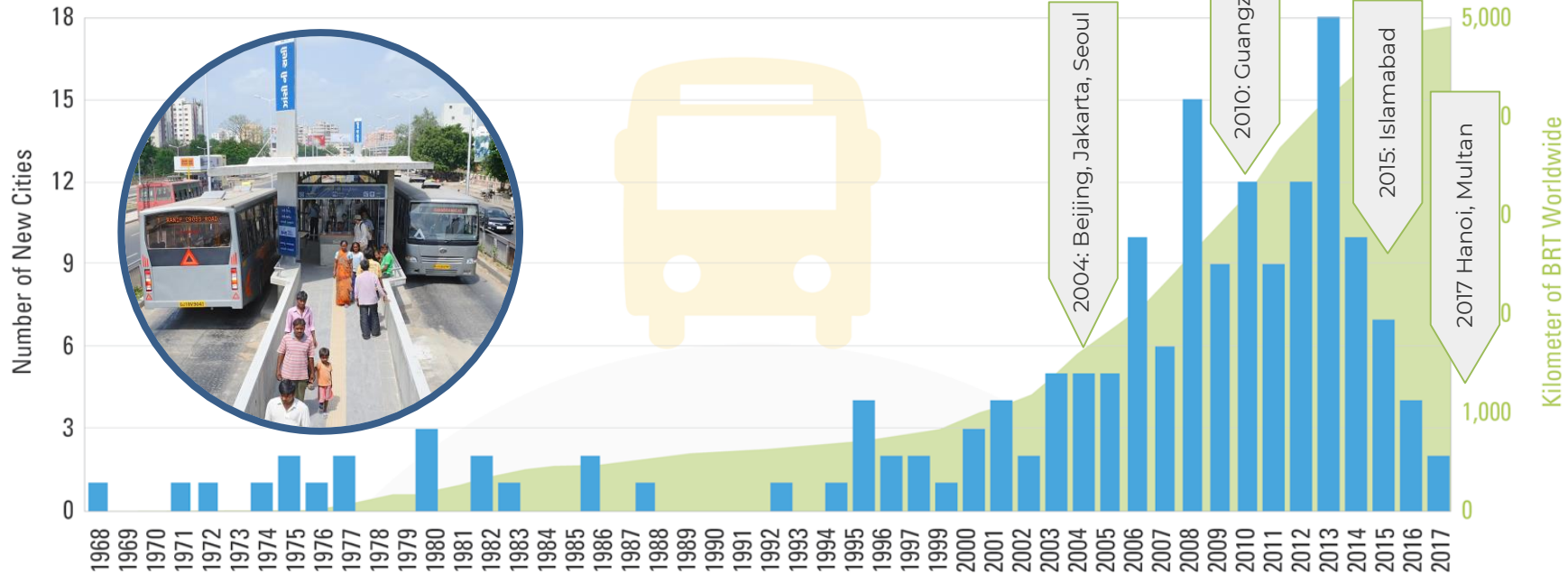


# Sustainable transport actions in Asia-Pacific



# Bus Rapid Transit Development Trends

## Development of Bus Rapid Transit Systems



# Electric vehicle fleet growing at exponential rate

## Electric Vehicle Stock (battery and plug-in electric hybrids)

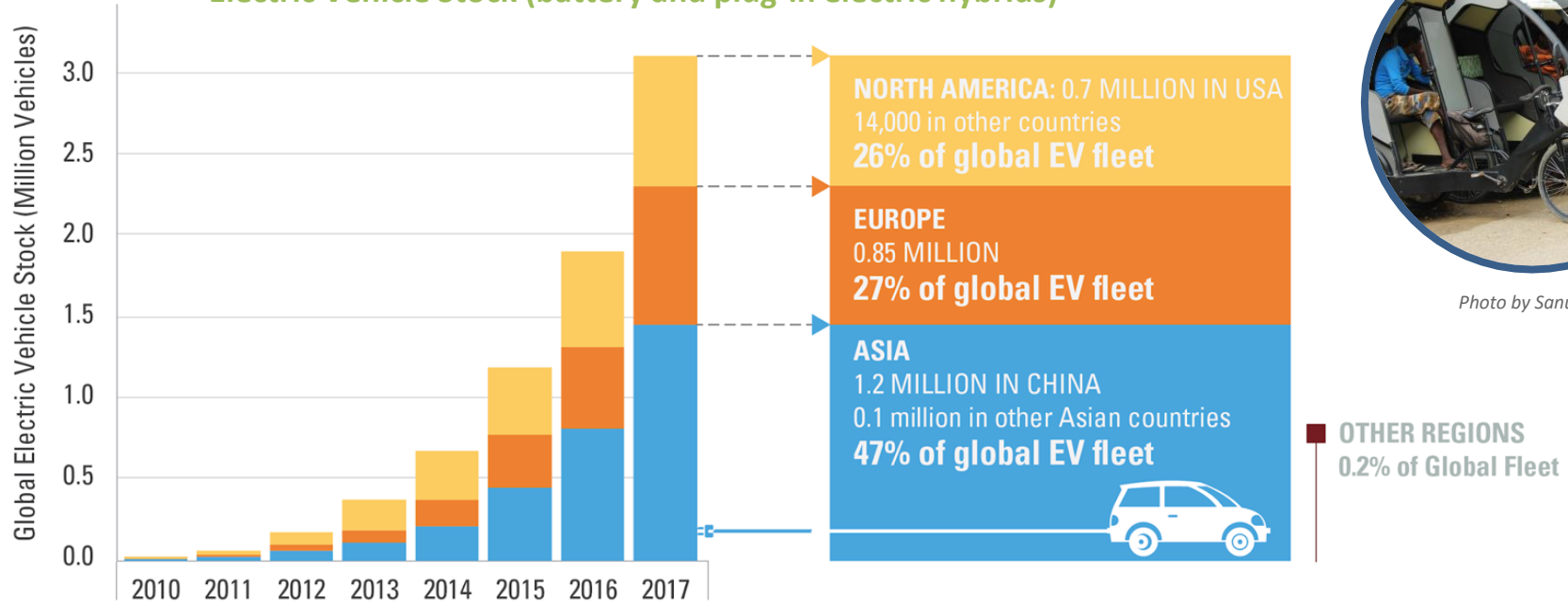



Photo by Sanu N.

**5 million electric cars in 2018**



### 3. Benefits for environment, economy and society

# Socio-economic benefits of sustainable transport



## A better environment:

Asian cities have high pollution levels, zero-emission transport could reduce up to 80% of pollution.

- Less pollution
- Better health, fewer premature deaths
- Mitigating climate change



## A better economy:

Congestion in Asia costs 2-5% of national GDP every year.

- Increases efficiency
- Reduces congestion



## A better society:

The transport sector created 2.3 million jobs in the Philippines in 2011.

- More access for all
- Increases equity and equality
- Creates jobs



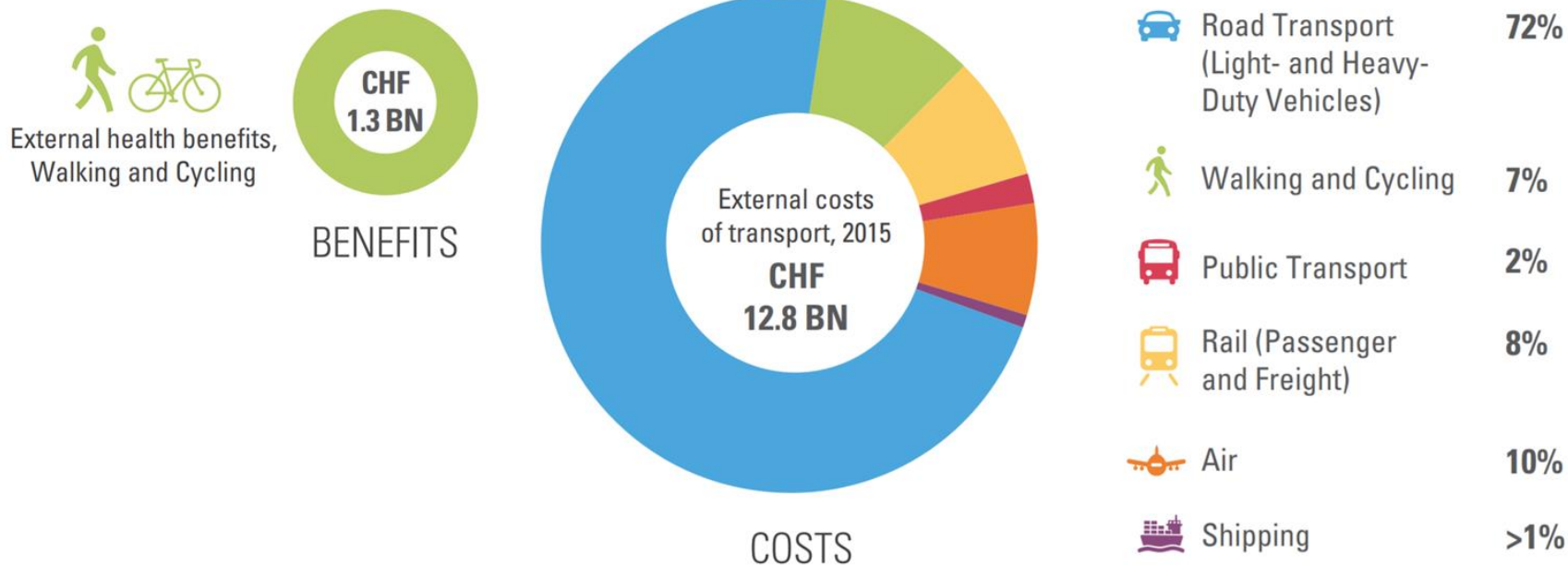


# Sustainable urban mobility plans (SUMPs) enable comprehensive mobility solutions



# Walking and cycling have more economic benefits than costs for society and economy

## External Costs and Benefits of Transport in Switzerland (2015)



# Safa Tempos in Kathmandu, Nepal: Economic Benefits and Female Empowerment



Source: World Bank and UITP, (2018). Barriers to Adopting Electric Buses.

# Conclusions

1. Global transport emission trends currently moving in wrong direction.
2. Sustainable transport policy actions must be scaled up across broader set of regions, countries, cities.
3. Benefits for environment, economy and society must be emphasised to accelerate transformational change.

Thank you for your attention!

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