

# DECARBONISING PATHWAYS FOR ULAANBAATAR'S URBAN MOBILITY

Dissemination event  
22 March 2023



On behalf of:



of the Federal Republic of Germany

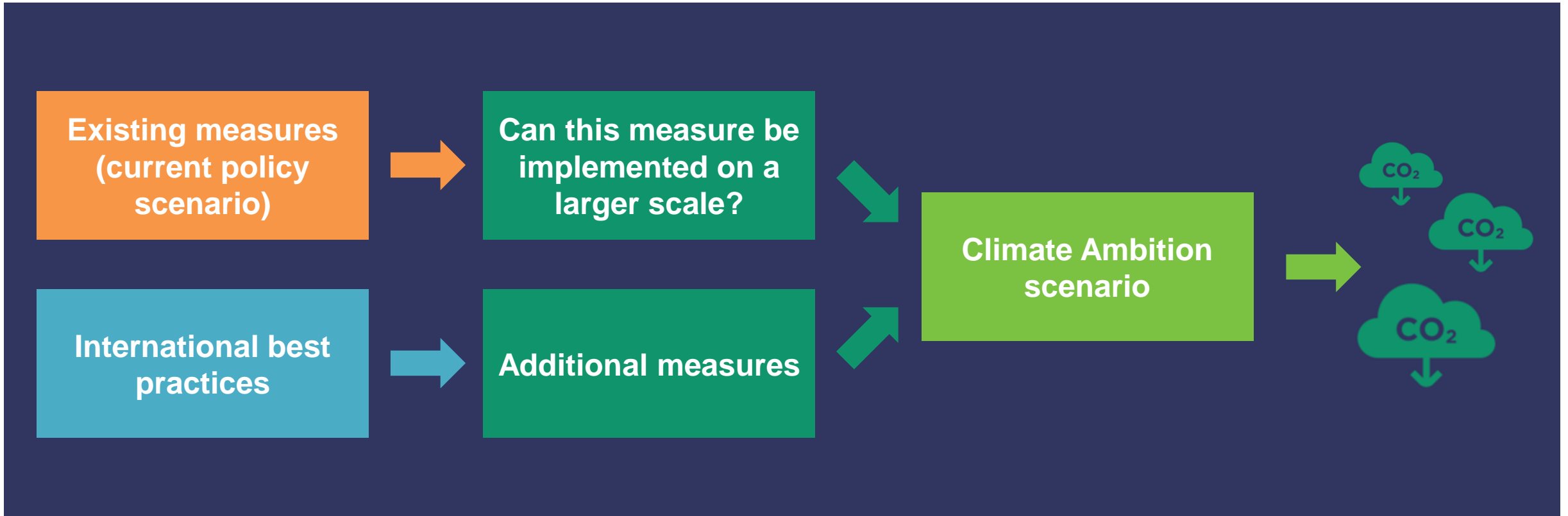


# RESULTS OF THE ITF CLIMATE AMBITION SCENARIO FOR ULAANBAATAR

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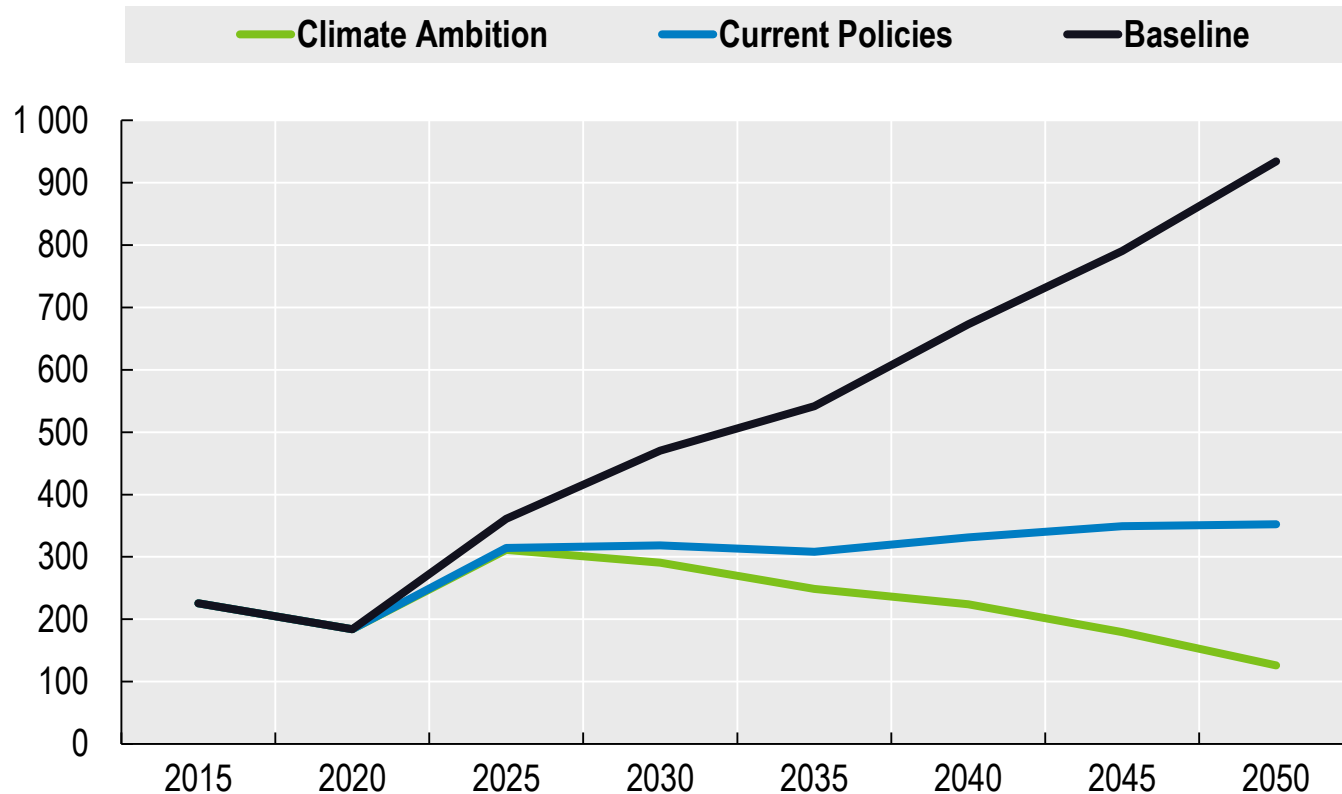


# How did we build the Climate Ambition scenario?



# Results of the Climate Ambition scenario

Annual Urban mobility CO<sub>2</sub> emissions by scenario  
(thousand tonnes CO<sub>2</sub>)



## CO<sub>2</sub> emissions in 2050

**-87%**

Compared to the  
baseline scenario

**-64%**

Compared to the  
current policy  
scenario

# Vehicle Technology Development

## Measure enhancement (by 2050)

- **50%** of private vehicles will be electric, twice the share of Current Policy
- **Full electrification** of the bus fleet, compared to 70% in Current Policy



## Quantification of policy measures

Reduction in transport-related CO<sub>2</sub> emissions attributed to the measures

By 2030

By 2050

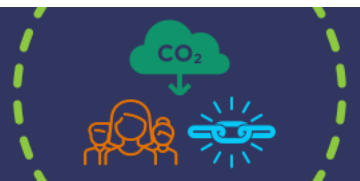
-19%

-63%

Current Policy (reminder)

-18%

-37%



# Infrastructure Expansion

## Measure enhancement (by 2050)

Compared to the Current Policy scenario, the Climate Ambition scenario considers that:

- LRT network: keep expanding to **150 km**
- Cable Car network: keep expanding to **50 km**
- Bike network: keep expanding to **2 400 km**
- Pedestrian network: keep expanding to **2 600 km**



Source: UPRI

## Quantification of policy measures

Reduction in transport-related CO2 emissions attributed to the measures

By 2030

By 2050

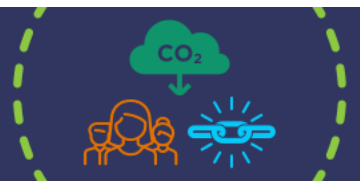
-10%

-24%

Current Policy (reminder)

-9%

-16%



# Public Transport Promotion

## Measure enhancement (by 2050)

- Increases the operational speed of buses by up to **20%**
- **The totality of the bus network** has priority over other road modes
- The share of the population with a public transport subscription goes up to **80%**



## Quantification of policy measures

Reduction in transport-related CO<sub>2</sub> emissions attributed to the measures

By 2030

By 2050

-1%

-2%

Current Policy (reminder)

-0%

-1%



# Shared Transport Promotion

## Measure enhancement (by 2050)

- Replace **25%** of ridesharing vehicles by taxi
- Increases the size of bike and scooter sharing fleet to **6 000** vehicles

## New Measures

- Introduce incentives for car sharing
- Launch of on-demand taxibus services



## Quantification of policy measures

Reduction in transport-related CO2 emissions attributed to the measures

By 2030

By 2050

-5%

-9%

Current Policy (reminder)

-3%

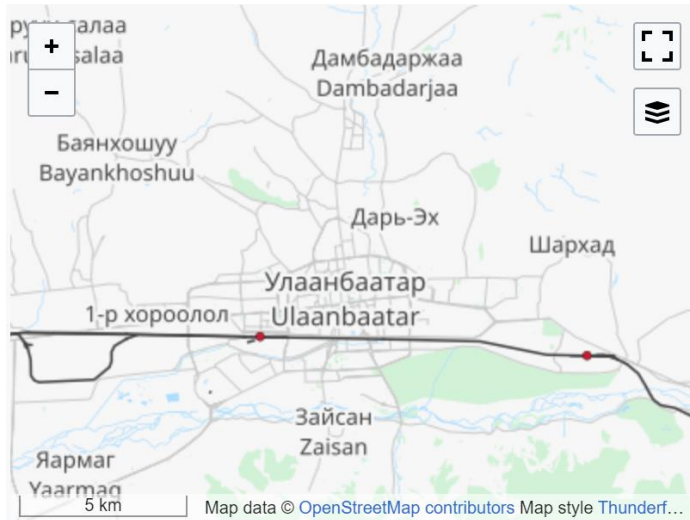
-7%



# Regulatory Measures

## Measure enhancement (by 2050)

- Increased Parking access restrictions to **70%**
- Increased Vehicle access restrictions to **40%**



Source: OpenStreetMap

## Quantification of policy measures

Reduction in transport-related CO2 emissions attributed to the measures

By 2030

By 2050

-4%

-11%

Current Policy (reminder)

-1%

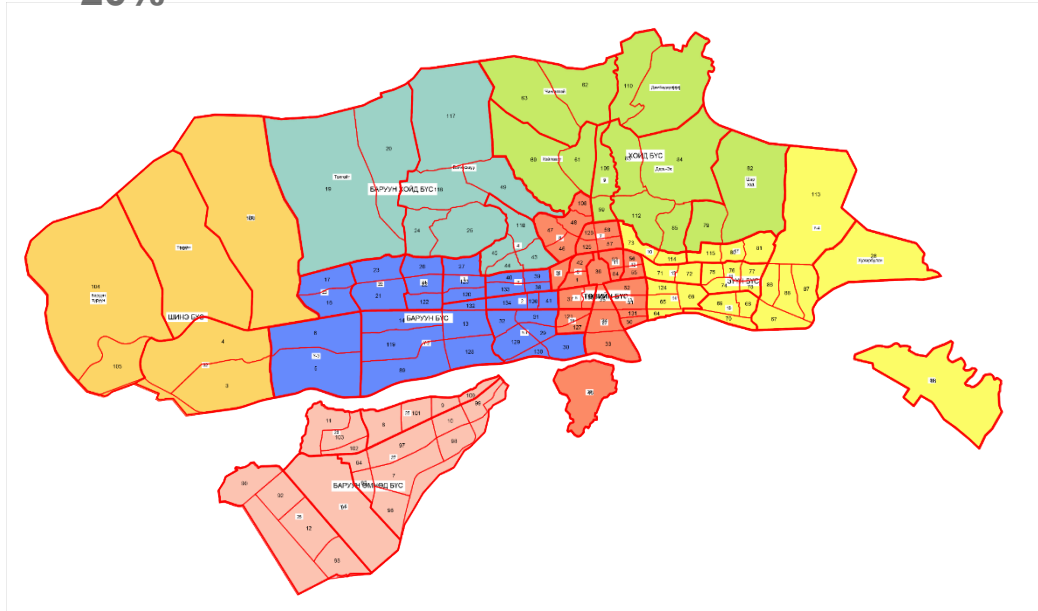
-1%



# Other Measures

## Measure enhancement (by 2050)

- Promotion of teleworking to attain **10%** of the active population
- Increased density around public transport stations to **20%**



Source: UPRI

## Quantification of policy measures

Reduction in transport-related CO2 emissions attributed to the measures

By 2030

By 2050

-4%

-9%

Current Policy (reminder)

-2%

-6%



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