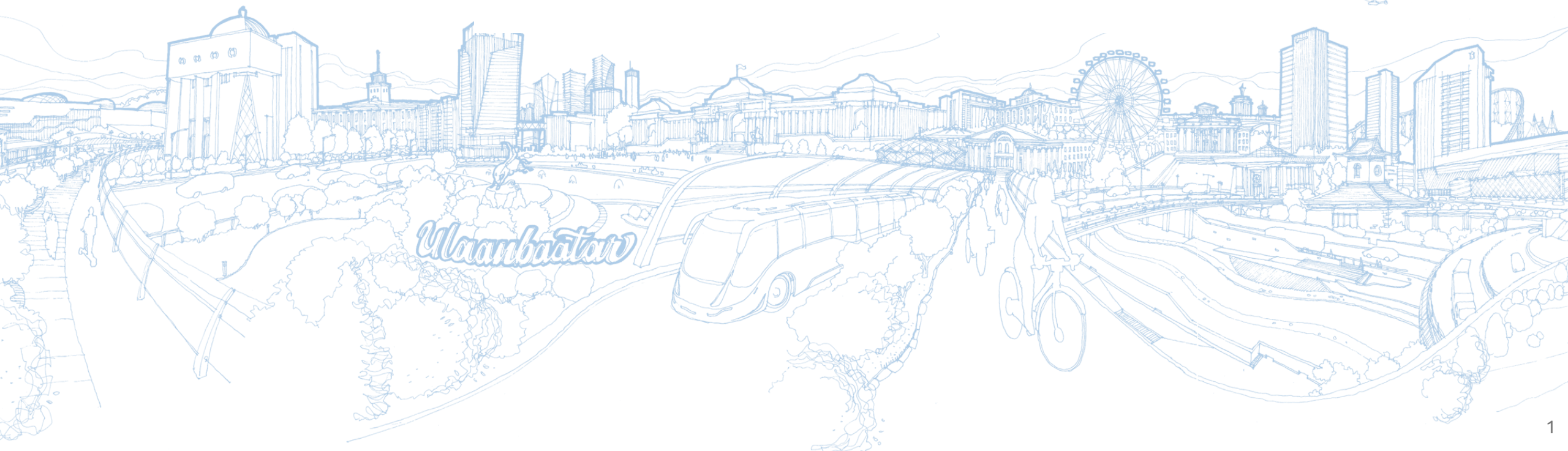




**MINISTRY OF ROAD AND  
TRANSPORT**

# **FIRST MEETING OF THE SMART MOBILITY WORKING GROUP**

**21 MAY 2026, MANILA, PHILIPPINES**



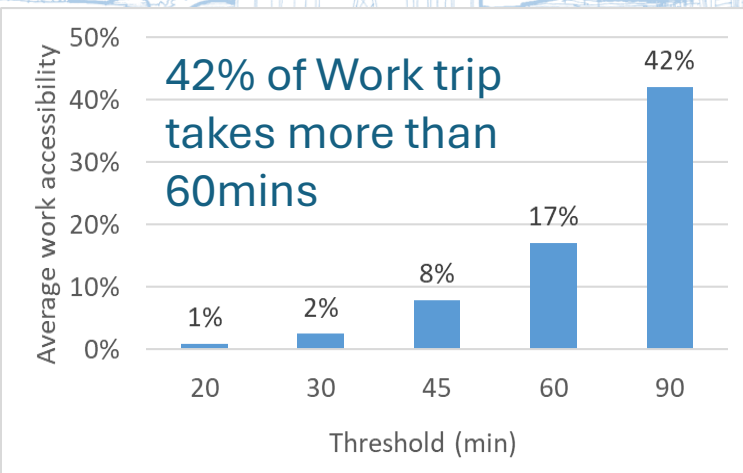
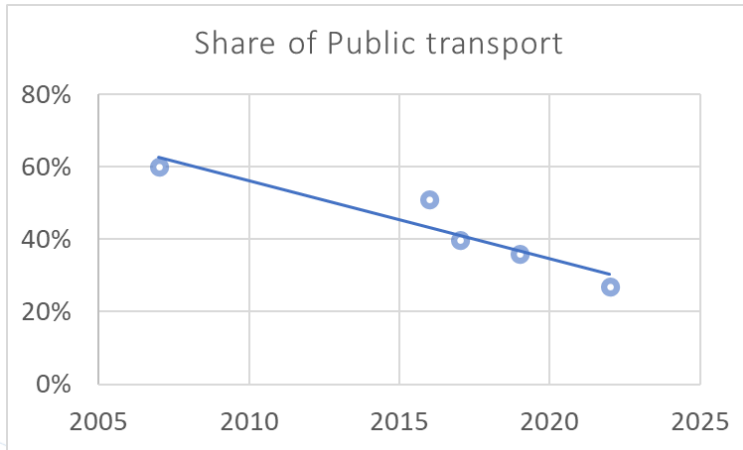
# Sustainable Urban Mobility Strategy and Plan for Ulaanbaatar City in 2050



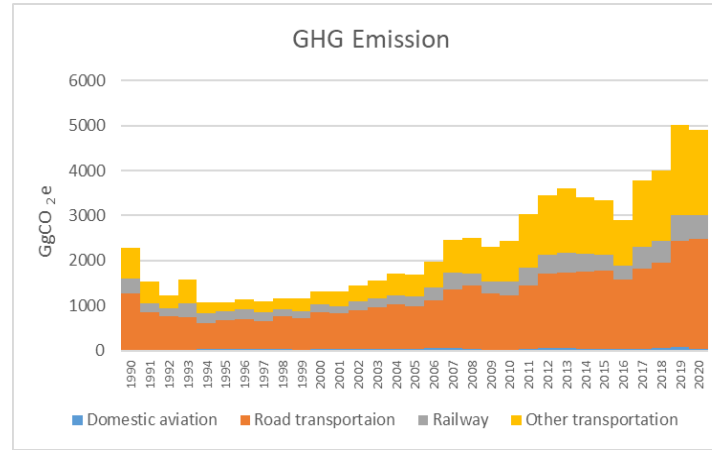
# Diagnostic Analyses



## Inclusive problem



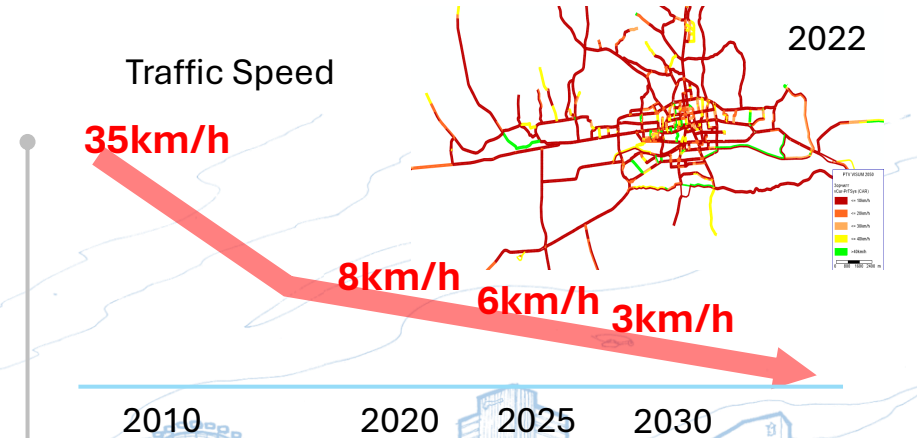
## Environment problem



Not enough of network for active transport



## Sustainable problem



Traffic Accident map



# What will happen on UB Traffic State in 2050, if no actions are taken? It is the worst scenario for UB Transportation.

## Do Nothing 2050

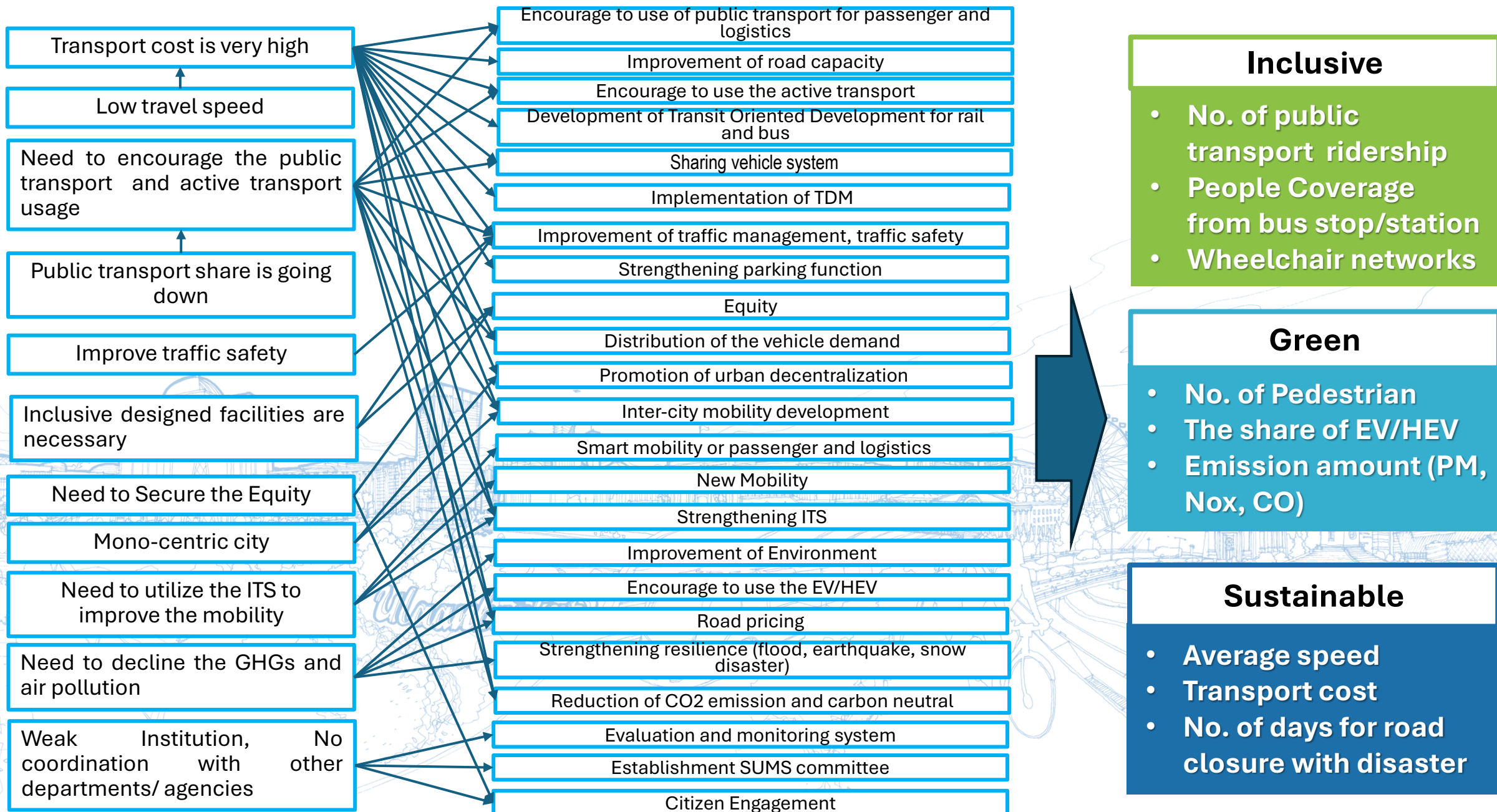
- Transport cost will reach 26 times from 2022
- NOx and CO2 emission will reach 5 times as much as those in 2022
- Almost of all sections of roads will be heavily congested, and the average travel speed in the UB City will be 2km/h.

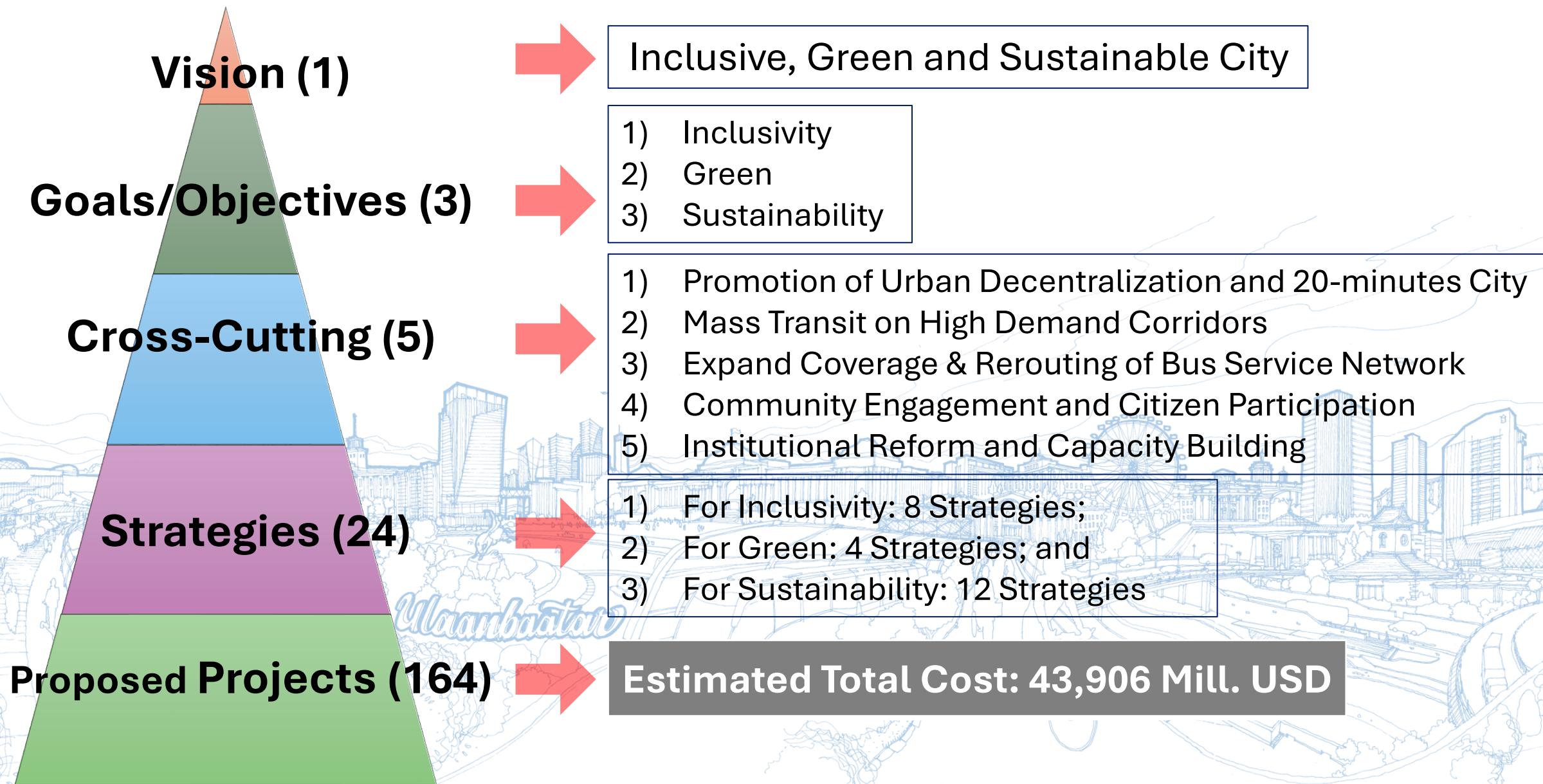
Category	Current	Future (2050) If do-nothing
Demography (Population)	1.5 mil. →	2.5 mil.
Public Transport Usage (PT Share)	27% →	Less than 5%
Traffic Congestion (Average Travel Speed)	12 km/h →	2 km/h
Transport Cost	9 mil. USD (2022) →	243 mil. USD (26 times)



# SUMS Framework







# Inclusivity (1/2)

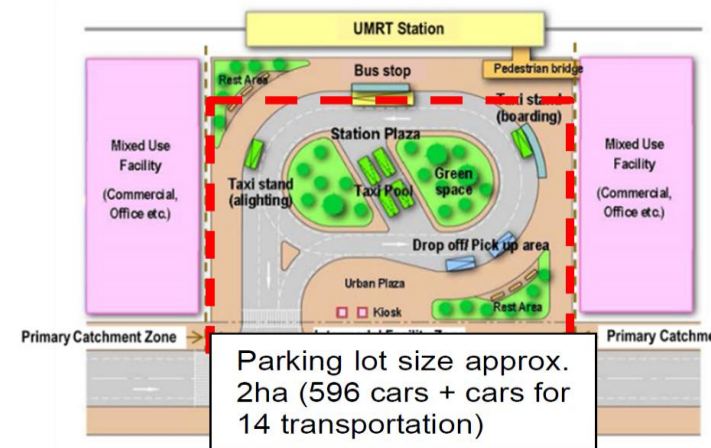
**Goal: All groups of citizens have equal access to any socio-economic opportunity.**

Key Objective	Strategy
Improved quality and coverage of public transport	I1: Integrated fares and ticketing across transport modes
	I2: Multi-modal interchange facilities
	I3: Comfortable and safe bus shelters
	I4: Test the viability of on-demand transportation services
Inclusive and affordable transport options	I5: An extensive and accessible pedestrian network
	I6: A city-wide network of cycle routes linking key destinations and supporting the 20-minute city
	I7: Universally accessible transport infrastructure
	I8: Support the development of Mobility as a Service

## I1. Integrated fares and ticketing across transport modes



## I2. Multi-modal interchange facilities,



## I3. Safe bus shelters with Realtime information system



## I4. Test the viability of On-Demand transportation services



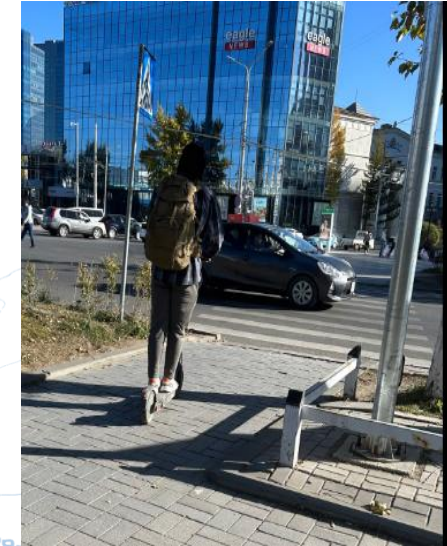
## Inclusivity (2/2)

**Goal: All groups of citizens have equal access to any socio-economic opportunity**

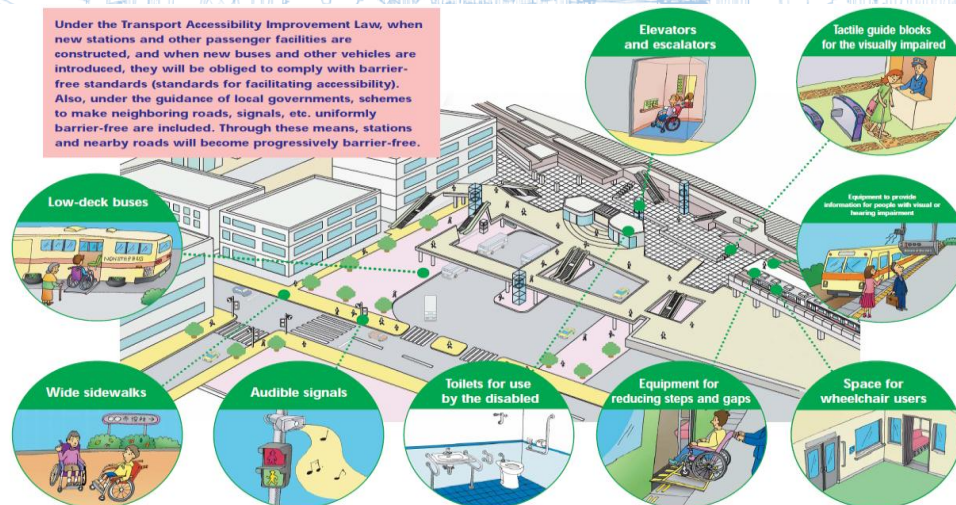
**15:** An extensive and accessible pedestrian network



**16:** A city-wide network of cycle routes linking key destinations, supporting the 20-minute city structure.



**17:** Universally accessible transport infrastructure



**18:** Support the development of **Mobility as a Service**



# Green

**Goal: Healthy and livable urban environment should be ensured for residents.**

Key Objective	Strategy
Reduced emissions from road transport	G1: Greening of transport corridors
	G2: Promotion of electric vehicles
Resilience and security to climate and disaster shocks	G3: Stormwater system improvements
	G4: Earthquake warning system
Greater use of active transport	See Inclusivity Strategies 5 and 6

**G1.** Greening of transport corridors through tree-lined boulevards and alcove parks.



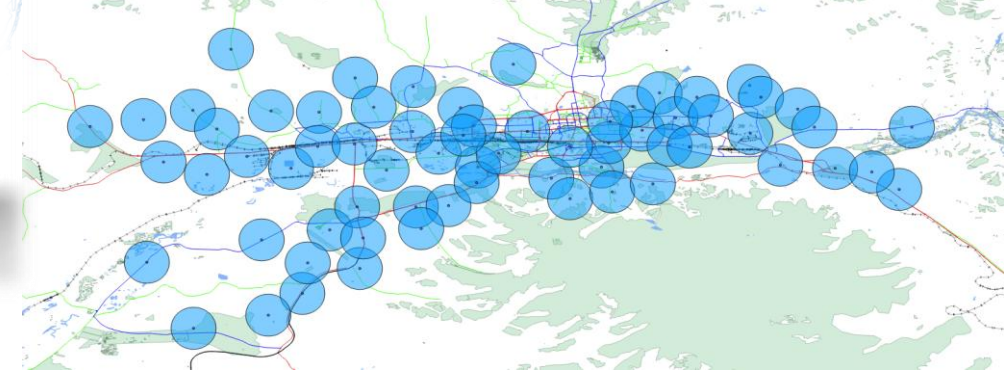
**G2.** Introducing electric vehicles, promoting active transportation, creating emission-zero zones, and regulating



**G3.** Drainage management, flood-resistant roads standards



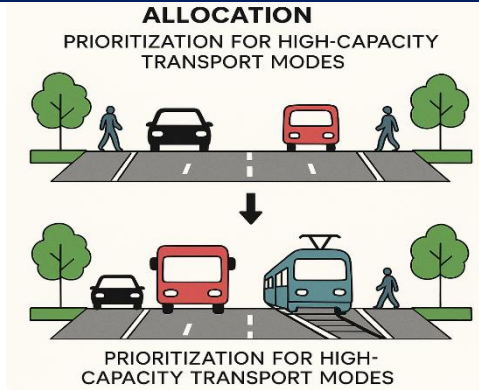
**G4.** Disaster (e.q. Earthquake) warning system. Earthquake warning system, emergency transportation routes, evacuation plans, and fire escape design.



# Sustainability (1/2)

**Goal: Efficient, safe and advanced mobilities for people and freights should be well-maintained**

<p><b>Encourage behavior change to support use of efficient transport modes</b></p>	<p>S1: Allocate road space to space efficient transport modes</p> <hr/> <p>S2: Support implementation of shared mobility options and their integration with the public transport network</p>
<p><b>Reduce the need to travel</b></p>	<p>S3: Assess appropriate travel demand management measures</p> <hr/> <p>S4: Continued formalization and development of Ger areas</p> <hr/> <p>S5: Transit Orientated Development</p>

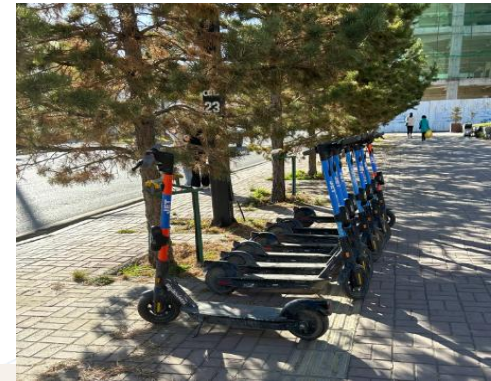


S1 Allocate road space to space efficient transport modes

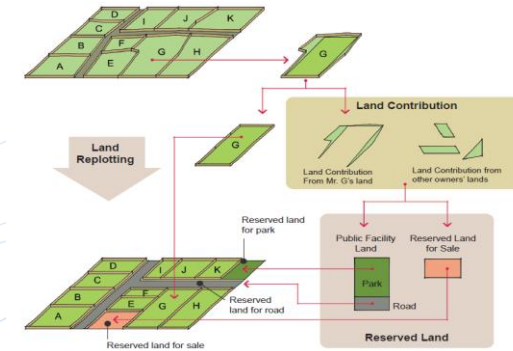


S4 Traffic demand management, toll roads, parking control, and delivery zone planning

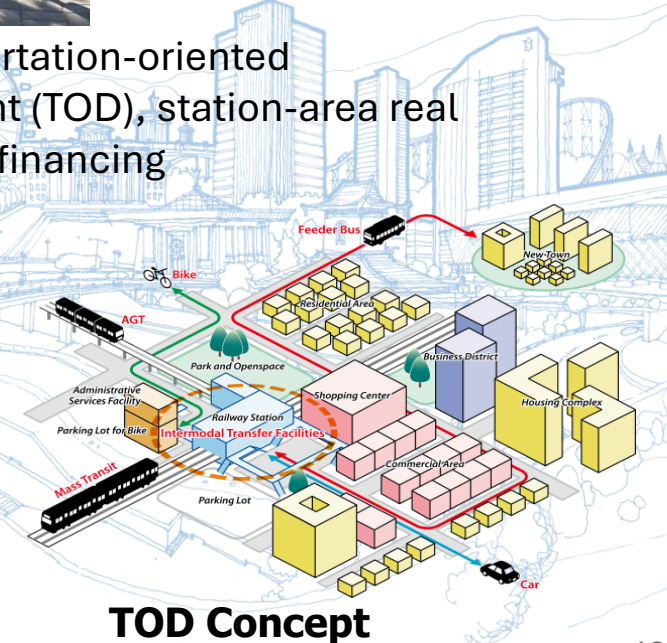
S2 Carpooling, improving intersections, reducing parking demand, etc.



S3 Carpooling, improving intersections, reducing parking demand, etc.



S5 : Transportation-oriented development (TOD), station-area real estate, PPP financing

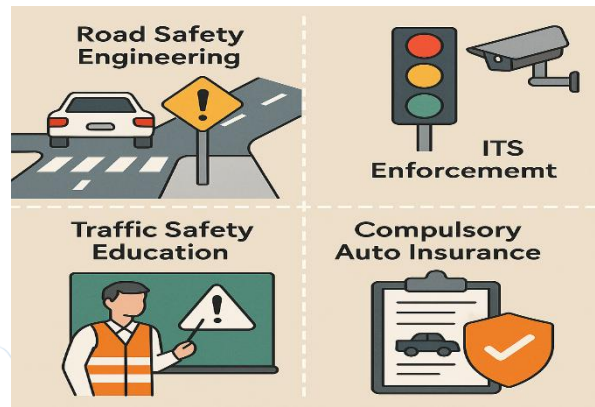


**TOD Concept**

# Sustainability (2/2)

**Goal: Efficient, safe and state-of-the-art mobilities for people and freights should be well-maintained**

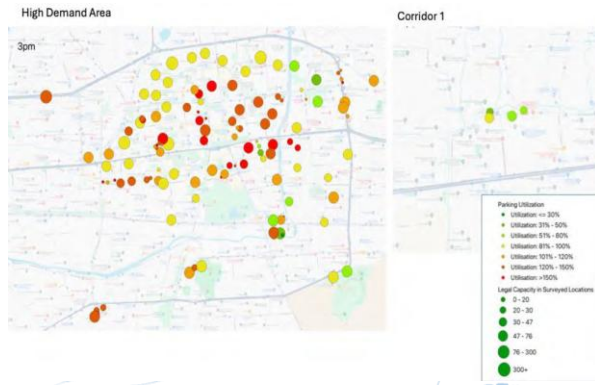
S6 : Traffic safety engineering, ITS implementation, traffic safety education, compulsory automobile insurance



S7 Priority bus lanes, centralized bus lanes, public transport traffic light priority, touch-sensitive traffic lights, etc.



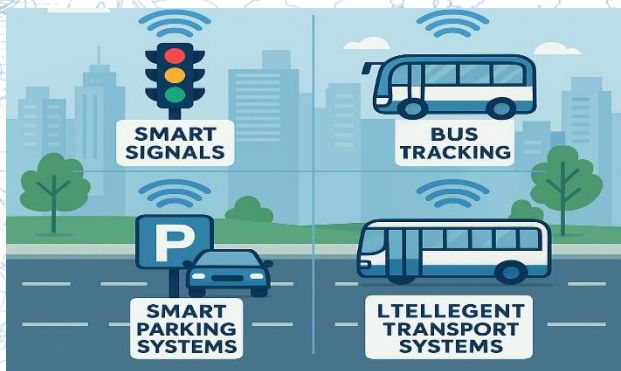
S10 Parking management system, dedicated parking for logistics, reducing traffic congestion



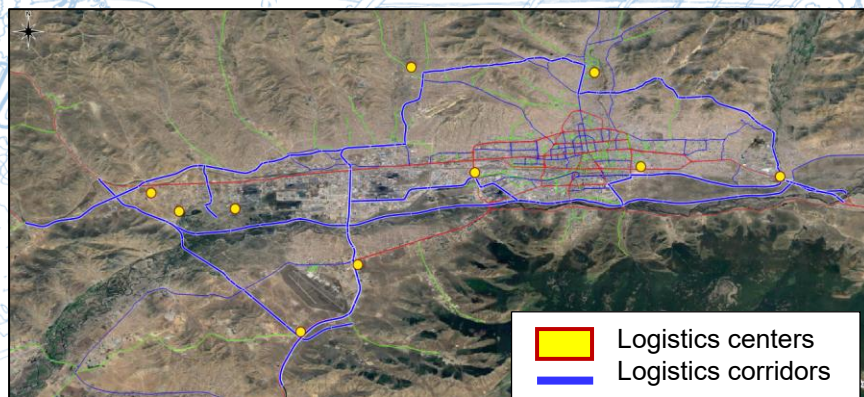
S11: Improve intersections, turn lanes, improve signals, improve road network connectivity



S8 : Intelligent transportation system (ITS), smart traffic lights, bus location tracking, smart parking system



S9 Relocation of logistics centers, integrated logistics centers, specialized centers, online ordering, cold chain warehouses



S12: Comprehensive street design, multi-modal transportation infrastructure, universal and accessible green streets



**Goal: Integrated actions to realize the vision and three goals.**

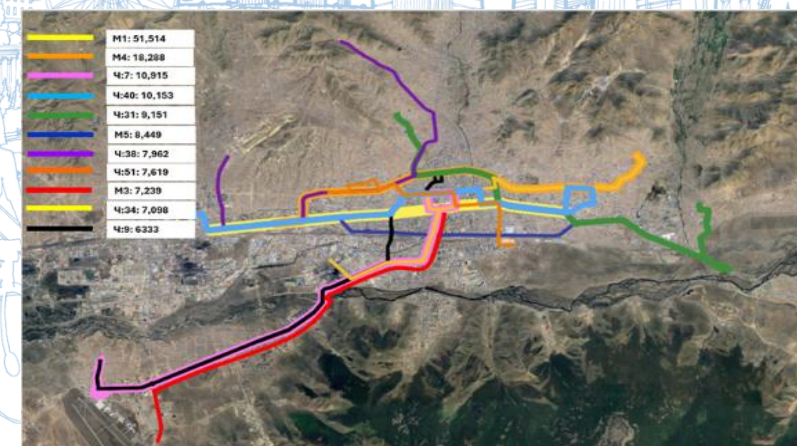
Key Objective	Strategy
<b>Decentralize spatial development</b>	C1: Promotion of urban decentralization and a 20-minute city
<b>Improve the quality and coverage of Public Transport</b>	C2: Mass transit on high demand corridors using modes appropriate for corridor demand and physical characteristics ..... C3: Expand coverage of the bus network and restructure routes to align with the needs of a 20-minute city
<b>More efficient use of transport infrastructure to move people and goods</b>	C4: Community engagement and citizen participation ..... C5: Institutional reform and capacity building

**C1.** Promotion of urban decentralization and a 20-minute city, in association with urban development such as TOD and improvement of mobility modes for pedestrians, bicycles and bus users in service quality and travel times.

**C2.** Mass transit on high demand corridors using modes appropriate for corridor demand and physical characteristics.



**C3.** Expand bus coverage and restructure routes to connect subcenters and ger-areas with the City Center.

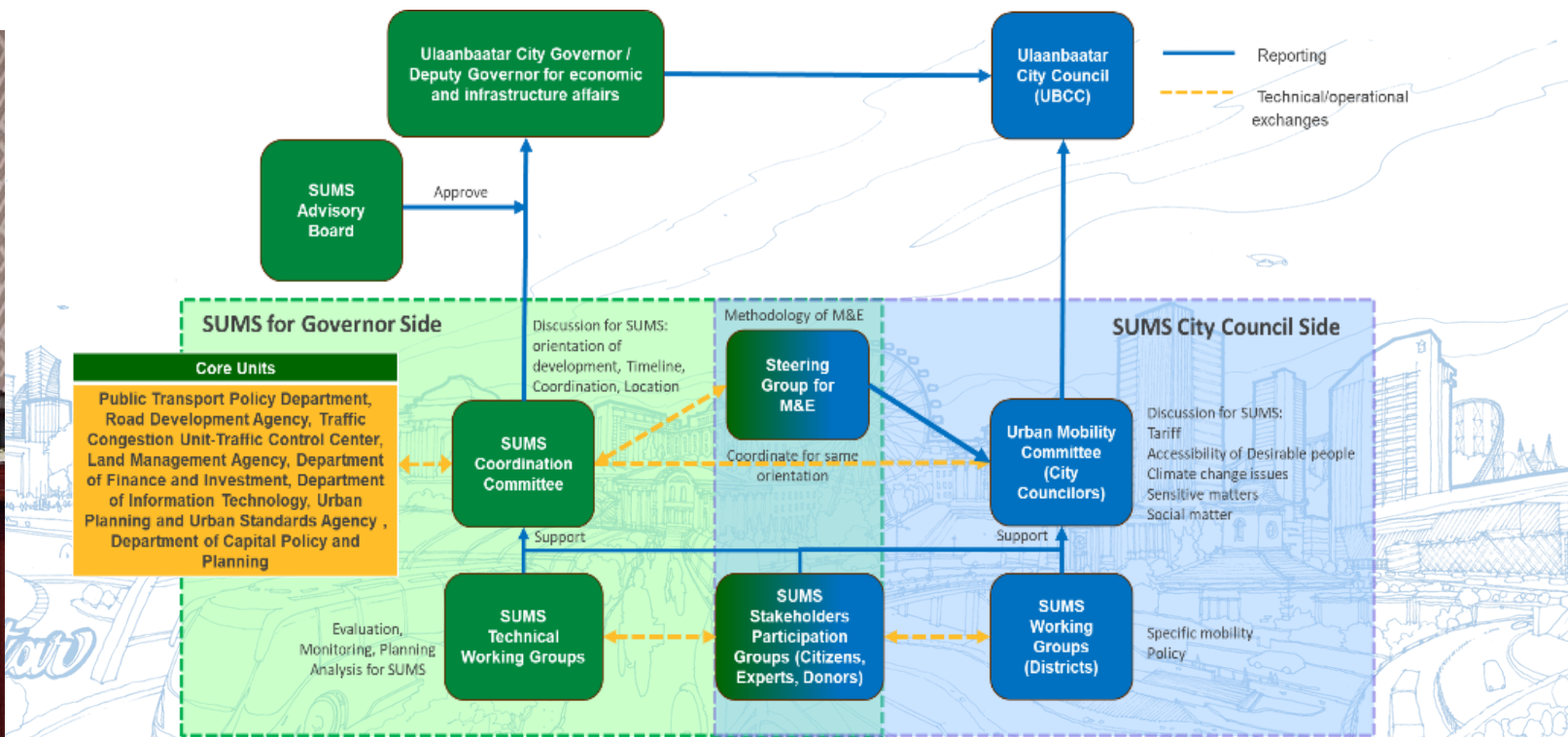


## Goal: Integrated actions to realize the vision and three goals.

**C4.** Community engagement and citizen participation, facilitating the citizen and public feedback from the planning stage, and providing opportunities for collaboration and consensus building.



**C5.** Institutional reform for capacity building to strengthen urban transport institutions, stakeholder organization, smart transport-based monitoring and analysis, and human resource capacity.



# SUMS/P Implementation



## Short-term Plan (2030)

Enhance Public Transport Services and their Networks with Sub-city Centers Development

2030

## KPIs in 2030

Shar of PT ( %)	<b>38 %</b>
Transport Cost	<b>USD 21 mil.</b>
CO2 (t)	<b>2,119 ton</b>
Av. Speed (Km/h)	<b>7.1 km/h</b>

## Mid-term Plan (2040)

Encourage Sub-city Centers with Road Transport and PT Systems with TDM Polices

2040

## KPIs in 2040

Shar of PT ( %)	<b>42 %</b>
Transport Cost	<b>USD 15 mil.</b>
CO2 (t)	<b>1090 ton</b>
Av. Speed (Km/h)	<b>17.7 km/h</b>

## Long-term Plan (2050)

Keep Executing SUMS/P on New Mobilities, High Speed Rail Systems in associated with Development of Satellite Cities and New IT Technologies.

2050

## KPIs in 2050

Shar of PT ( %)	<b>46 %</b>
Transport Cost	<b>USD 2 mil.</b>
CO2 (t)	<b>703 ton</b>
Av. Speed (Km/h)	<b>21.0 m/h</b>

- This strategy will serve as a strategic roadmap for Ulaanbaatar to transition to sustainable mobility.
- This strategy will lead to the development of a detailed action plan that identifies specific projects, funding sources, implementation measures, and coordination.
- The implementation of the strategic vision will require long-term, sustained engagement and collaboration between local governments, central government agencies, private sector partners, and the public.
- Only through collaborative and coordinated implementation will we overcome today's traffic problems and leave a more environmentally friendly, more accessible and sustainable city for future generations.

*Thanks for your attentions !*

