

# Implementation of Aichi 2030 Declaration in Asia (2021-2030) - Role of Bus System & Stakeholders

### **Busworld Turkey**

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#### TRANSPORT IN ASIA - SDGS

- **SDG 3.6: Road safety:** over 800,000 people die annually because of fatal road crashes
- SDG 3.9:Air Pollution: over 250,000 people die prematurely due to transport related air pollution
- SDG 9.1: Rural Access: 630 million people do not live within 2 km of an all weather road
- SDG 11.2: Urban Access: 480 million urban dwellers do not have access to good public transport
- SDG 13.2: Climate Change: transport related CO2 emissions are fastest growing of all sectors









Apart from growing motorization, air pollution, GHG emission and traffic accidents, climate and disaster resilience has not been an integral part of transport policy, planning and infrastructure development ...

Asian countries and cities are highly vulnerable to natural disasters while there is rise in frequency and magnitude of natural disasters (flood, earthquake, cyclones, landslides, etc.) across the world;		
	majority of developing countries and cities have NOT considered disaster and climate resilience as well as health emergencies like COVID-19 pandemic as an integral part of their policy and planning for the development of transport infrastructures and services, including bus system	
	urban/transport infrastructures in Asia are vulnerable to effects of climate change and natural disasters, and these vulnerabilities should be addressed in the design, construction, and geometry of roads, and other transport infrastructure	
	Transport system and services should take into account the health emergencies like COVID-19 pandemic through provision of adequate preventive measures such as – social distancing, sanitizing, ventilation, etc.	
	most of the Asian developing countries and cities lack state-of- the art early warning systems, strong enforcement of building codes, land-use planning, people-and environment-friendly transport system, and climate and disaster resilient transport infrastructure and services	
	limited accessibility and transport facility; and	
	lack of rural-urban connectivity	





## New Urban Agenda 2016



Paris
Agreement
2015



Sendai Frame for Disaster Risk Reduction 2015

2030 Agenda for Sustainable
Development /
SDGs

Nairobi Mandate 2016



Adil Action 2015





# AICHI 2030 DECLARATION (2021-2030) ADOPTED BY THE MEMBER COUNTRIES ON 20 OCT 2021 AT THE 14<sup>TH</sup> REGIONAL EST FORUM IN ASIA

- Goal I Environment sustainability
- Goal 2 Road safety
- Goal 3 Economic sustainability
- Goal 4 Rural access
- Goal 5 Urban access
- Goal 6 National access and connect

# High-Level 14th Regional Environmentally Sustainable Transport Forum in Asia 18-20 October 2021

18-20 October 2021 Tokoname City, Aichi, Japan



Theme: Next Generation Transport Systems for Achieving SDGs and Carbon Neutrality – for a Safer, Affordable, Accessible and Resilient Asia









### AICHI 2030 DECLARATION (2021-2030) FOR ACHIEVING UNIVERSALLY ACCESSIBLE, SAFE, AFFORDABLE, EFFICIENT, RESILIENT, CLEAN AND LOW-CARBON PASSENGER & FREIGHT TRANSPORT IN ASIA

- Goal I Environment sustainability By 2030, improve the environmental sustainability of transport in Asia
  - Ia: low carbon (climate change mitigation) move towards decarbonization aligned with SDG 7.2, SDG 9.1, SDG 13.2, Paris Agreement
  - Ib: enhance resilience aligned with SDG 13, Paris Agreement, the Sendai Framework for Disaster Risk Reduction (2015-2030)
  - Ic: minimize air pollution aligned with SDG 3.9, SDG 11.6



- Goal 3 Economic sustainability By 2030, realize sustainable economic & employment growth by leveraging science, technology & innovation & green investments in quality passenger & freight transport infrastructure & services in a manner that fully incorporates environmental & social impacts throughout the lifecycle of the transport infrastructure & services aligned with SDG 8.4, SDG 9.1, 12.1 and 12.c.
- Goal 4 Rural access By 2030, realize accessible, inclusive, safe, affordable, & resilient rural transport infrastructure and services, facilitating improved access to markets, basic utilities & services including health & education by the farming community, & other rural population including physically disabled & vulnerable groups aligned with SDG 2 and SDG 9.1
- Goal 5 Urban access By 2030, ensure access to accessible, inclusive, safe, efficient, affordable, and sustainable transport facilities, systems and services for urban dwellers, including physically disabled and vulnerable groups through the development of urban transport infrastructure and services aligned with SDG 11.2 and SDG 11.7
- Goal 6 National access and connectivity By 2030, facilitate inclusive multi-modal national (including rural-urban) and regional (cross-border) connectivity through the provision of sustainable multi-modal freight and passenger transport infrastructure and services aligned with SDG 9.1









## IMPLEMENTATION 2030 DECLARATION: -- AVOID, SHIFT, IMPROVE + CROSS CUTTING STRATEGIES + ---- SUPPORT OF BILATERAL/MULTILATERAL DONORS + OTHERS

#### Avoid:

- 1. Land-use, logistics and transport planning
- 2. Mixed-use development, TOD
- 3. ICT

#### **Shift:**

- 4. Rail and Inland Water Transport
- 5. Public Transport
- 6. Walking and Cycling
- 7. Transport Demand Management

#### Improve:

- 8. Infrastructure for low carbon mobility
- Standards for fuel quality, efficiency and emissions
- 10. Vehicle Inspection and Maintenance
- II. ITS
- 12. Improved Freight Efficiency
- 13. Improve Road Safety



- 14. Adequately funded institutions and institutional arrangement
- 15. Funding and financing arrangements
- 16. Life cycle approach for transport infra and services
- 17. Short, medium and long term targets for lower and later zero emission
- 18. Remove fuel subsidies, introduce financing mechanisms
- 19. Social and gender inclusiveness
- 20. Informal transport/ IPT
- 21. Road safety measures
- 22. Resilient strategy
- 23. Contribution of sustainable transport to better health and preparedness
- 24. Air quality and noise standards
- 25. Information and awareness raising campaigns on sustainable transport









## IMPLEMENTATION 2030 DECLARATION: COMMUNITIES OF INTEREST

- Communities of interest, around the goals of the new 2030 Declaration consisting of EST supporting organizations
   and interested EST countries
- Roles of Cols:
  - a) share knowledge and create best practice examples,
  - b) developing and implementing capacity building programs,
  - c) where relevant develop and implement pilot programs and projects,
  - d) reach out to the multilateral and bilateral development community to assist them in aligning development assistance to the transport sector in Asia increasingly with the objectives of the 2030 Declaration.
- Facilitated by EST Secretariat and coordinated with Roll-out of Col's to be done in a gradual manner
- Asian Transport Outlook (ATO), coordinated by ADB









Tracking the Aichi 2030 Declaration - Complementary Relationship between Aichi 2030 Declaration & **Asian Transport Outlook** 

Aichi 2030 Declaration (2021 - 2030)

Asian **Transport** Outlook

- Tracking the implementation of goals of the Aichi 2030 Declaration using a set of agreed indicators (Annex 2) which are in line with the agreed upon SDG indicators (mainly SDG Tier 1 & Tier 2).
- ATO provided a Baseline report for the Aichi 2030 Declaration (regional status with country data in Annex)
- The data for reporting on indicators will be from the ATO, which will serve as a reference for tracking implementation of the Declaration.
- Tracking of national policies, institutional arrangements and funding in support of the Declaration.
- EST member countries will be requested to submit annual progress reports inline with standardized reporting guidelines (capacity building training workshop).
- The information provided through the country reports will be combined with relevant policy information collected through the ATO.



Third release in October 2021 with about 40 updated indicators and about 50 new indicators

















Connectivity

11/11 indicators





https://data.adb.org/dataset/asian-transport-outlook-database

actions/targets

#### **Bus Infrastructure Development in the Context of Aichi 2030 Declaration**

## Aichi 2030 Declaration: Goals

- Goal 1 Environment sustainability
  - − 1a: low carbon (climate change mitigation)
  - 1b: resilience
  - 1c: air pollution
- Goal 2 Road safety
- Goal 3 Economic sustainability
- Goal 4 Rural access
- Goal 5 Urban access
- Goal 6 National access and connectivity

## **Bus Infrastructure** development need

- New bus transport infrastructure
  - Rural Access: ATO indicates 680 million do not meet SDG 9 I I
  - Urban Access: ATO indicates that 1.3 billion do not meet SDG 11.2
- Well maintained bus infrastructure
- Safe bus infrastructure
  - Each year over 600.000 die in road crashes
- Clean and green-bus infrastructure that allows Asia to meet SDG 3.9 and SDG 13

Mobilization of investments

Annual EST

 Forums discuss
 resource
 mobilization to
 meet transport
 infrastructure
 gap

#### issues related to the Public Bus Transport system in Asia and the Pacific

- ✓ Safety and security
- ✓ Availability and affordability
- **✓** Connectivity and frequency
- **✓** Reliability and flexibility
- ✓ Integration and inclusiveness
- ✓ Comfort and quality services
- ✓ Less-people and environment friendly (air & noise pollution and GHG emissions)













#### Better Public Transport Design and Development can Transform Cities in Asia and the Pacific

- Development of safe, people centric accessible, integrated and well-connected public transport
- The public transport should be reliable, affordable, and inclusive
- Encouraging walking and cycling at transit stations – bus-cycle connectivity
- Use of state-of-the-art user-friendly technologies such as IoT, ITS, GPS, sensors, smart cards (system & fare-integration), mobile apps
- Use of energy efficiency, low-carbon, environment friendly transport such as MRT, BRT
- Compact and mixed-use development and bus-NMT integration for first-mile and last-mile connectivity













Role of Key Stakeholders in improving public transport system (including bu system) towards the objectives of the Aichi 2030 Declaration (2021-2030)	
Key Stakeholders	Possible Role

Federal/National Policy reform keeping in mind climate, natural disasters and health emergencies like COVID-19 pandemics, policies governing land use and transport integration (smart growth, transit-oriented-development), accessibility, Government regional connectivity, rural-urban connectivity, mega-transport master plans, dedicated transport corridors, rules

modal integration, technology transfer, capacity building, funding, institutional arrangements and overall governance, promote public-private-partnerships (PPPs), ensure vertical integration (central -> provincial -> city) point of manufacture, etc.

Law enforcement, smart city, smart mobility, overseeing route design and time-table, infrastructure development, local tax, SoS, walking and bicycling network and their integration with bus/rail systems, etc.

Vehicle design with due considerations to safety measures and needs of the transport sensitive groups (physically Industry/Manufacturers challenged, women, older, children, poor, etc.), intelligent transport system (ITS), technological innovations and (engine, chassis, body builders, etc.) development, customer comfort and safety through appropriate body building, engineering and design, etc.

cooperation towards safety, constant feedbacks towards continuous improvements, etc.

(such as zero tolerance towards alcohol drink and driving), etc.

On-time performance, cleanliness, choice of vehicles, choice of chassis, fuel choice, maintenance, local

information, safety, security, dialogue with the manufacturers, route design in consultation with local government,

on-board medical and first-aid facilities, prevention of spread of infections (e.g., COVID-19), drivers' behaviour

**Operators** 

**Passengers** 

and horizontal integration (inter-ministerial cooperation, e.g., transport, environment, health agencies), test buses at State/Provincial Regulate bus services and fare in line with people's affordability, improve accessibility, mobility and connectivity through integrated city master plans, inter-state connectivity, walking and bicycling network and their integration Government with bus/rail systems, promote public-private-partnerships (PPPs), etc. Local/City Government

and regulations towards safety and pollution control (emission standards), inspection and maintenance (I/M), multi-

## Conclusion: Achieving Sustainable Transport is essential for progress on all the SDGs..

- ➤ Better accessibility to essential utilities (SDG 1)
- ➤ Efficient supply chain and logistic reducing food grain loss (SDG 2)
- Safe, clean and low-carbon transport solutions (SDG 3)
- ➤ Improved transport access to schools & universities (SDG 4)
- ➤ Better access to job, healthcare, childcare, women empowerment (SDG 5)
- Clean inland water transport towards better water quality and protection of water-related ecosystems (SDG 6)
- Fuel economy, clean and low carbon transport system and technologies transport (SDG 7)
- Accessibility to employment, job, training, sustainable tourism, trade (SDG 8)
- ➤ High-quality, resilient, sustainable transport infrastructures and services towards economy, well-being, equitable access (SDG 9)
- Sustainable transport for all sections of society including vulnerable groups, regionwide economic integration covering SIDS, land-locked and least developed countries (SDG 10)
- Efficient and reliable urban mobility for all, including vulnerables (SDG 11)
- Fuel economy, energy efficiency, NMT, efficient supply chain towards minimizing food losses & post-harvest losses (SDG 12)
- Sustainable and low carbon transport solutions, NMT, fuel economy, energy efficiency (SDG 13)
- Sustainable maritime transport to reduce marine pollution (SDG 14)
- Sustainable transport infrastructure development without affecting terrestrial ecosystems (forests, wetlands, mountains, etc.) and their services (SDG 15)
- Effective, accountable and transparent transport institutions (SDG 16)
- Enhanced collaboration and partnership among transport stakeholders (SDG 17)

