Vision for Decarbonising Transport in Asia

14th EST Forum, 19 October 2021
Plenary 1: Decarbonising Transport Sector towards Net Zero by 2050

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The problem

- **Total CO2 emissions** from fossil fuels in transport in Asia have increased by **243%** between 1990 and 2018.
- **The share of emissions from Asia** in global emissions increased from **14% to 27%** over the same period.
- Around **half of transport GHG emissions** are caused by **freight**.
- The highest growth trend in **non-urban passenger** transport (including aviation).

Source: ITF Transport Outlook 2021

Source: ADB. 2020. Asia Transport Outlook. Data for review, World Development Indicators

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Our vision: Effective, efficient and socially just zero carbon transport in 2050

- **Clean Air**: Lots of green space to most, play, relax
- **Accessibility**: All essentials are close to home
- **Safety**: Lots of safe ways for walking & cycling
- **Efficiency**: 100% electric 2/3-wheelers
- **Integration**: One app, one ticket all modes
- **Affordability**: Affordable, safe, reliable and comfortable electric-based public transport available for all
- **Technology**: Intensive use of electric water taxis (where possible)
- **Planning**: Integrated urban planning takes all needs into account

**Urban**
- **Passenger**:
  - Clean Air
  - Accessibility
  - Safety
  - Efficiency
  - Affordability
  - Technology
  - Planning

**Freight**
- **Joint distribution hubs served by rail**
- **Light-mile delivery by (electric) bikes**
- **Supply chains are regional**
- **Home solar systems enabling individual mobility**
- **Rail & river distribution hubs**
- **Fully electric delivery vans**

**Non-urban**
- **Passenger**:
  - Domestic
  - Local renewable energy powering shared mobility services
  - Rail is the backbone of domestic non-urban passenger transport
  - Some city connections by air are replaced by high-speed rail
  - Fully electric airplanes are available for medium distances
  - 100% Synthetic fuels and biofuel are used for long-distance flights

**International**
- Improved ICT reduces need for international business travel

**Clean Air**
- **Clean Air**: Lots of green space to most, play, relax

**Integration**
- **Integrated urban planning takes all needs into account**

**Power**
- **Integrated urban planning takes all needs into account**

**Domestic**
- **Home solar systems enabling individual mobility**

**International**
- **Improved ICT reduces need for international business travel**

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Decarbonising Transport in Asia
Overarching principles to decarbonise transport in Asia

- Translate national climate strategies into sector strategies and make sectors (ministries) accountable by setting sector-specific GHG targets
- Climate goals cannot be separated from development goals
- No one size fits all, differentiation between countries/regions is required
- Involve all stakeholders in strategy development and implementation (public and private)
- Taking people along (social justice, multi-stakeholder approach, etc.) and
- Use opportunity for economic growth in infrastructure and technology sector
There is no time to lose

Decisive action is required to minimise risk of climate impacts and stranded assets!
Thank you!

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More information on the Council:
https://www.ndctransportinitiativeforasia.org/council-for-decarbonizing-transport

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