



**BỘ GIAO THÔNG VẬN TẢI**  
**MINISTRY OF TRANSPORT OF VIETNAM**



# **SUSTAINABLE TRANSPORT DEVELOPMENT PLANNING**

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# Definition

“Sustainable Development means satisfactory of current demand but not negatively affecting that in the future” – (Decision No 153-TTg of the Government)

**In the following aspects:**

- *Economic*
- *Social*
- *Environmental*

# Sustainable Transport Development

## Sustainable Transport Development

### Economic aspect:

- Ability to meet financial requirement
- Index to improved economic efficiency
- Support for a dynamic growing economy

### Social aspect:

- Safety
- Health
- Equity
- Services (Living quality)

### Environmental aspect:

- Mitigated emission, toxic waste, noise
- Usage of reusable or unlimited fuel
- Usage of less natural resources (land, water...)

# Principles for Planning

- Mobility rights for all (children, elderly, the disabled, low income people...)
- Traffic demand management (reduced inappropriate trips, prioritized public transport...)
- Integration of infrastructures and environment (safety, noise, landscape, water resources...)
- Environmental friendly means of transport (fuel, noise, size...)
- Feasible financial resources

# Elements affecting Transport Sustainability

- Characteristics of the cities and existing means of transport
- Living behaviors and characteristics of all residents
- Habitants' expectations
- Relocation as result of socio-economic conditions
- Population size and economic state

# Impacts of a Transport System onto Economy - Society and Environment

Improved transport system to expanded socio-economic and environmental conditions:

- Relocation of habitants/housing
- Relocation of economic activities
- Fuel consumption, air and water resource quality...

# Sustainable Transport Development Strategies

- Development and Integration of public transport (urban, inter-provincial and rail)
- Development of environment friendly means of transport
- Maximization of efficiency of existing means of transport
- EIA of all strategy/planning scenarios

# Indicators to Assess Sustainability of a Transport System

- Density of transport infrastructure provision by region (km/per km<sup>2</sup>, or Km/1000 persons) and vehicle rate against infrastructure provision (vehicle/km)
- Mobility of the network (persons, vehicles)
- Modal spilt by region
- Public transport share
- Accessibility by region (travel time)



# Indicators to Assess Sustainability of a Transport System

- Pollution and fuel consumption
- Quiet area and noisy polluted area (caused by traffic)
- Isolation or/and partition resulted by functional areas
- Length of flooded roads and rate of roads in services
- Roads with improved landscape, noise, surface water crossing treatment, and usable by various means of transport
- Investment and operation cost estimate

# Sustainable Transport Development Tools

- Market based tools: financial tools based on adjustment of market.
- Regulation tools: technical standards and regulations.
- Living behavior based tools: policies involving living quality, education and public information.
- Infrastructure and Transport service tools: policies involving provision of infrastructures and public transport services.

# Planning Management Policies

- Recommendation to the Government to issue a decree on sector planning, which assign functional ministries to develop its own sector strategy.
- Decentralization of planning management and implementation to Sector Departments
- Establishment of professional institutions to manage and monitor planning implementation/performance

# Conclusions

- Development of indicators on sustainable development and sustainable transport development
- Issue of legal framework on enforcement of implementation of the above indicators
- Dissemination, education and strict implementation of planning management



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