

Standardization of Global Transport Database for Climate Change

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Background

- Difficult to obtain reliable transport DB from developing countries
- Duplicate data collection for individual feasibility studies
- Estimation of GHG emission from transport sector is getting important: MRV

Objectives

- Recommendation of standard national transport DB for developing countries
- Identification of reliable transport data collection at reasonable costs
- Drafting a global standard transport DB

Project Scope

- Road, railway, aviation, and maritime
- But more priority for road sector
- Pilot study is dependent on the resource availability
- Completed by Dec. 2011
- Cooperation project with World Bank

Expected Outputs

- List of standard national transport data, unit, collection method etc.
- Pilot study to test feasibility of suggested standard national DB
- Draft global standard transport data and its structure

Activities and Methodologies

- Identifying the current status of the transport database in developing countries (World Bank)
 - Main issues in transport data collection, database, and application
 - Comparison of transport data types among countries
 - Comparison of transport statistics on transport infrastructure, trips, volumes, safety, and greenhouse gas emissions, etc.
 - Identification of common data types, different data types, and limitations
 - Review of data management in transport projects
 - Data collection, data usage, and management

Activities and Methodologies

- List of transport data items for standardization
 - Data requirements in transport sectors
 - Setting purpose of transport database to be standardized: feasibility study, greenhouse gas emission study etc.
 - Review of data items in Korea Transport DB
 - Review of data items in UNESCAP, OECD, World Bank, ADB etc.
 - Selection of data items for standardization

Activities and Methodologies

- Standardization of database
 - Specifying standardization items
 - Data definition, form & format, unit
 - Data collection method, period, time, spatial scope, aggregation level
 - Metadata items, contents of each item
 - An example of the definition to be standardized is “vehicle classification”
 - * Different countries may use different class schemes for the same vehicle type, which may cause inefficiency for a multi-national project
 - Pilot study for standard transport DB
 - Structure of standard transport DB
 - Sample DB: Convert the existing Korean transport database to the standard database (Pilot study in Asian developing countries is subject to resource availability)

Activities and Methodologies

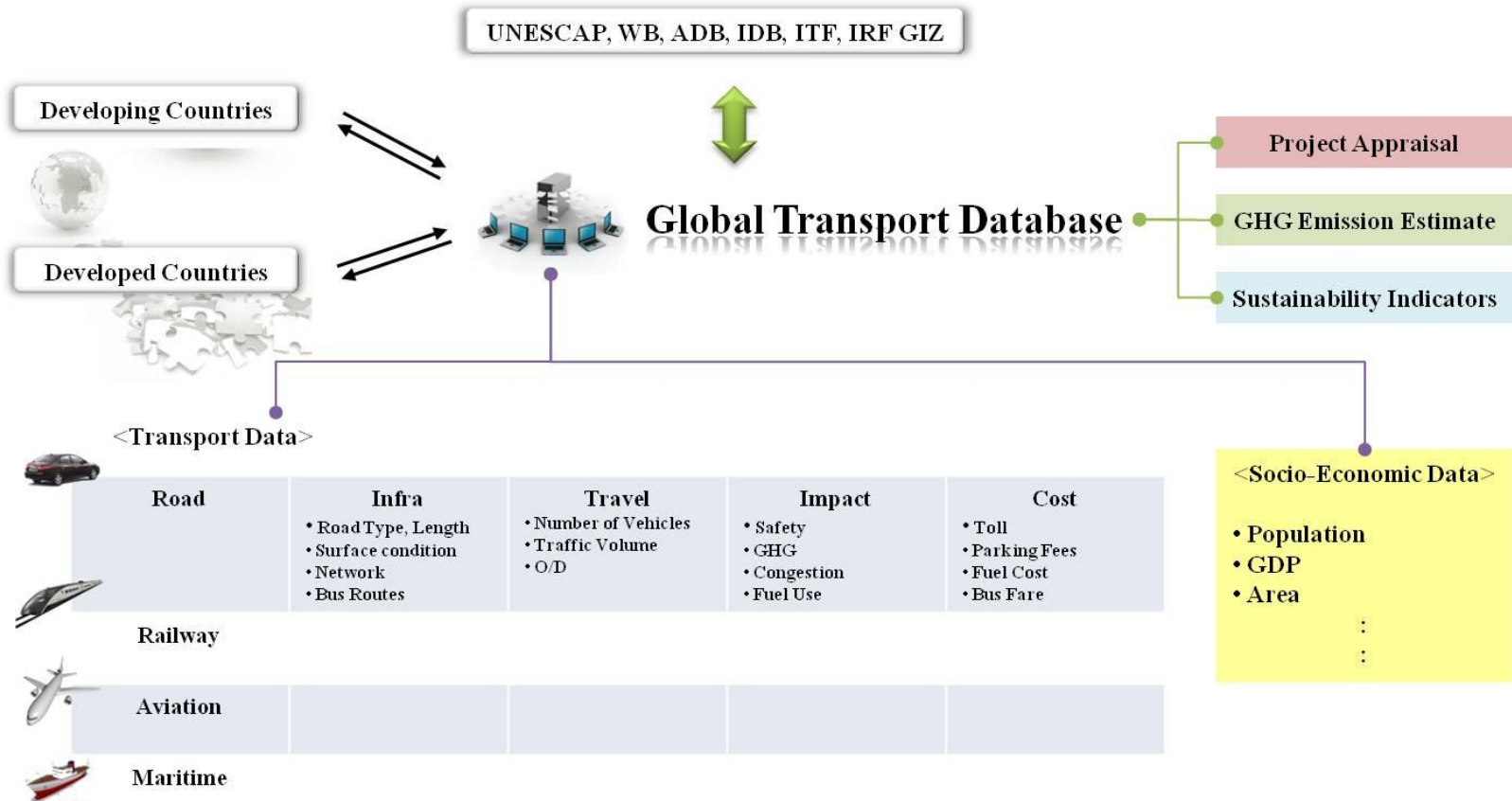
- Towards a global standard transport database
 - Background and purpose
 - Structure of global standard transport DB
 - Operation of global standard transport DB
 - Integration of transport DB in international organizations
 - Collection of standard transport DB from individual countries
 - Provision of global standard DB to users
 - Committee on global transport DB
 - Regular data collection and update
 - Construction and management of global transport DB
 - Publications

Activities and Methodologies

- Next Steps
 - Application of standard DB to other developing countries
 - Institutional arrangement for global DB centre
 - Funding sources

System

<Global DB Structure>



Thank you