# UNESCAP
# Time/Cost-Distance Methodology

## Preparation for TCD study

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# Presentation outline

❖ **Steps required at the stage of preparation for Time/Cost-Distance study**

  ▸ Defining the survey method

  ▸ Defining on the team or consultant or institution to conduct the study

  ▸ Choice of data sources

  ▸ Defining the commodity/commodities for the study

  ▸ Selection of the transport corridor or route

# The survey method:

- ▶ **Self-answering questionnaire**
  - ✓ if respondents can freely and willingly provide data

- ▶ **Access to respondents**
  - ✓ Obtaining direct access to respondents by face-to-face meetings or telephone interviews

# Institution for the study

▸ Association of transport carriers or freight forwarders

▸ University or research institute

▸ Individual consultant or team of consultants

▸ Government authority

# Sources of data :

- Driver trip diaries

- Independent survey

- Interviews

- Demonstration runs

- Pre-available data

- Government authorities' databases

- Satellite positioning records

# Data required:

- Origin and destination of the cargo
- Full routeing from origin to destination, with indication of the places where the cargo is essentially stationary (such as border crossings and points of intermodal transfer)
- Mode of transport for each leg
- Distances involved for each leg
- Transit time for each leg (in hours or days)
- Cost or quotes for each leg

# Data validity :

- ▸ Data triangulation, i.e. using different data sources

- ▸ Sampling, i.e. multiple shipment of the same products

- ▸ Multiple measurements at the same corridor/route

# Defining the commodity (commodities):

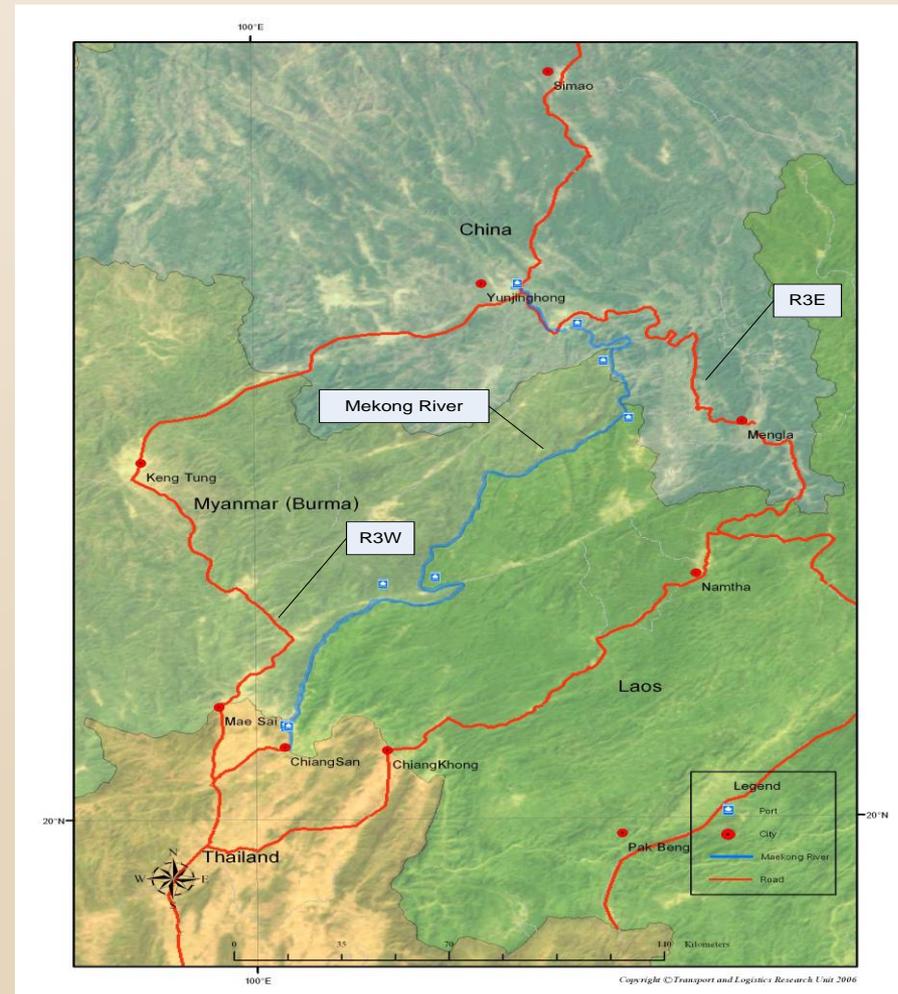- ▸ Top 5 commodities

- ▸ Seasonality factor

- ▸ Means of transport

# Ranking the commodity (commodities):

| | Commodity | Value | Volume | Transport mode |
|---|---|---|---|---|
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |

# Defining the corridor routes:

✓ Multiple routes along the same transport corridor

✓ Alternative transport modes

# Thank you!