

# UNESCAP

## Time/Cost-Distance Methodology

### Preparation for TCD study

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# Presentation outline



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- ❖ **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:

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## ▶ 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

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- ▶ Association of transport carriers or freight forwarders
- ▶ University or research institute
- ▶ Individual consultant or team of consultants
- ▶ Government authority

# Sources of data :

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- ▶ Trip diaries
- ▶ Independent survey
- ▶ Interviews
- ▶ Demonstration runs
- ▶ Pre-available data
- ▶ Government authorities' databases
- ▶ Satellite positioning records

# Data required:

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- ▶ 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 :

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- ▶ 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):

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- ▶ Top 5 commodities
- ▶ Seasonality factor
- ▶ Means of transport

# Ranking the commodity (commodities):

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	Commodity	Value	Volume	Transport mode
1				
2				
3				

# Defining the corridor routes:

✓ Multiple routes along the same transport corridor

✓ Alternative transport modes

MAP



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Thank you!