

**Capturing non-tariff related trade costs for  
Asia-Pacific countries**  
***ESCAP Trade Cost Database and Implications***

Yann Duval,  
Trade Facilitation Section  
Trade and Investment Division,  
United Nations Economic and Social Commission for Asia  
and the Pacific (ESCAP)

# Background

---

- Much progress has been made in developing trade facilitation/costs indicators
- However, there are limitations, including:
  - (1) partial coverage of international trade costs (e.g., only international shipping costs)
  - (2) little or no information on bilateral/regional/south-south trade costs
  - (3) very large variations in trade efficiency across products and trade routes not captured
- ESCAP is therefore:
  - Developing a database of bilateral and intraregional trade costs [macro]
  - Building capacity in Trade Process Analysis [micro]

# ESCAP's Intraregional Trade Cost Database

- Based on the comprehensive trade costs measure proposed by Jacks, Meissner and Novy (2009)
  - Measure derived from the gravity equation, i.e., ratio based essentially on bilateral trade data and Gross Output data → “objective” measure of costs
- Captures all *additional costs involved in trading goods bilaterally relative to those involved in trading goods domestically*. It includes
  - International shipping and logistics costs
  - Tariff and non-tariff costs, including indirect and direct costs associated with trade procedures and regulations
  - Costs from differences in language, culture, currencies...

# Methodology

Comprehensive trade cost equation:

$$\tau_{ij} \equiv \left( \frac{t_{ij} t_{ji}}{t_{ii} t_{jj}} \right)^{\frac{1}{2}} - 1 = \left( \frac{x_{ii} x_{jj}}{x_{ij} x_{ji}} \right)^{\frac{1}{2(\sigma-1)}} - 1$$

where

$t_{ij}$  denotes geometric average trade costs between country i and country j

$t_{ij}$  denotes international trade costs from country i to country j

$t_{ji}$  denotes international trade costs from country j to country i

$t_{ii}$  denotes intranational trade costs of country i

$t_{jj}$  denotes intranational trade costs of country j

$x_{ij}$  denotes international trade flows from country i to country j

$x_{ji}$  denotes international trade flows from country j to country i

$x_{ii}$  denotes intranational trade of country i

$x_{jj}$  denotes intranational trade of country j

$\sigma$  denotes elasticity of substitution (which is set = 8)



United Nations  
ESCAP  
Economic and Social Commission for Asia and the Pacific

# ESCAP's Intraregional Trade Cost Database

(version 2, December 2011)

- Bilateral Comprehensive Trade Costs (CTC)
- Between 107 countries
- From 1994 to 2009 (2010 for some countries)
- 2 sectors: Agricultural CTC & Manufacturing CTC
- **CTC excluding tariffs (NT-CTC) also calculated**

● Available at:

[www.unescap.org/tid/artnet/trade-costs.asp](http://www.unescap.org/tid/artnet/trade-costs.asp)

## Non-tariff intra and extra regional trade costs in Asia (2007/9)\*

Region	ASEAN-4	East Asia-3	North & Central Asia	SAARC-4	AUS-NZL	EU-3	USA
ASEAN-4	79% (-9.5%)	73% (-5.9%)	291% (-14.2%)	134% (2.1%)	90% (-12.3%)	97% (-4.9%)	77% (3.0%)
East Asia-3	73% (-5.9%)	47% (-21.1%)	187% (-32.7%)	119% (-2.8%)	78% (-15.7%)	70% (-19.0%)	53% (-13.5%)
North & Central Asia	291% (-14.2%)	187% (-32.7%)	149% (-20.5%)	270% (-22.4%)	270% (-22.2%)	149% (-26.0%)	165% (5.0%)
SAARC-4	134% (2.1%)	119% (-2.8%)	270% (-22.4%)	113% (5.0%)	130% (-2.7%)	101% (-3.2%)	99% (5.9%)
AUS-NZL	90% (-12.3%)	78% (-15.7%)	270% (-22.2%)	130% (-2.7%)	45% (-23.5%)	89% (-17.0%)	82% (-11.1%)
EU3	97% (-4.9%)	70% (-19.0%)	149% (-26.0%)	101% (-3.2%)	89% (-17.0%)	32% (-32.6%)	51% (-18.2%)
USA	77% (3.0%)	53% (-13.5%)	165% (-17.3%)	99% (5.9%)	82% (-11.1%)	51% (-18.2%)	

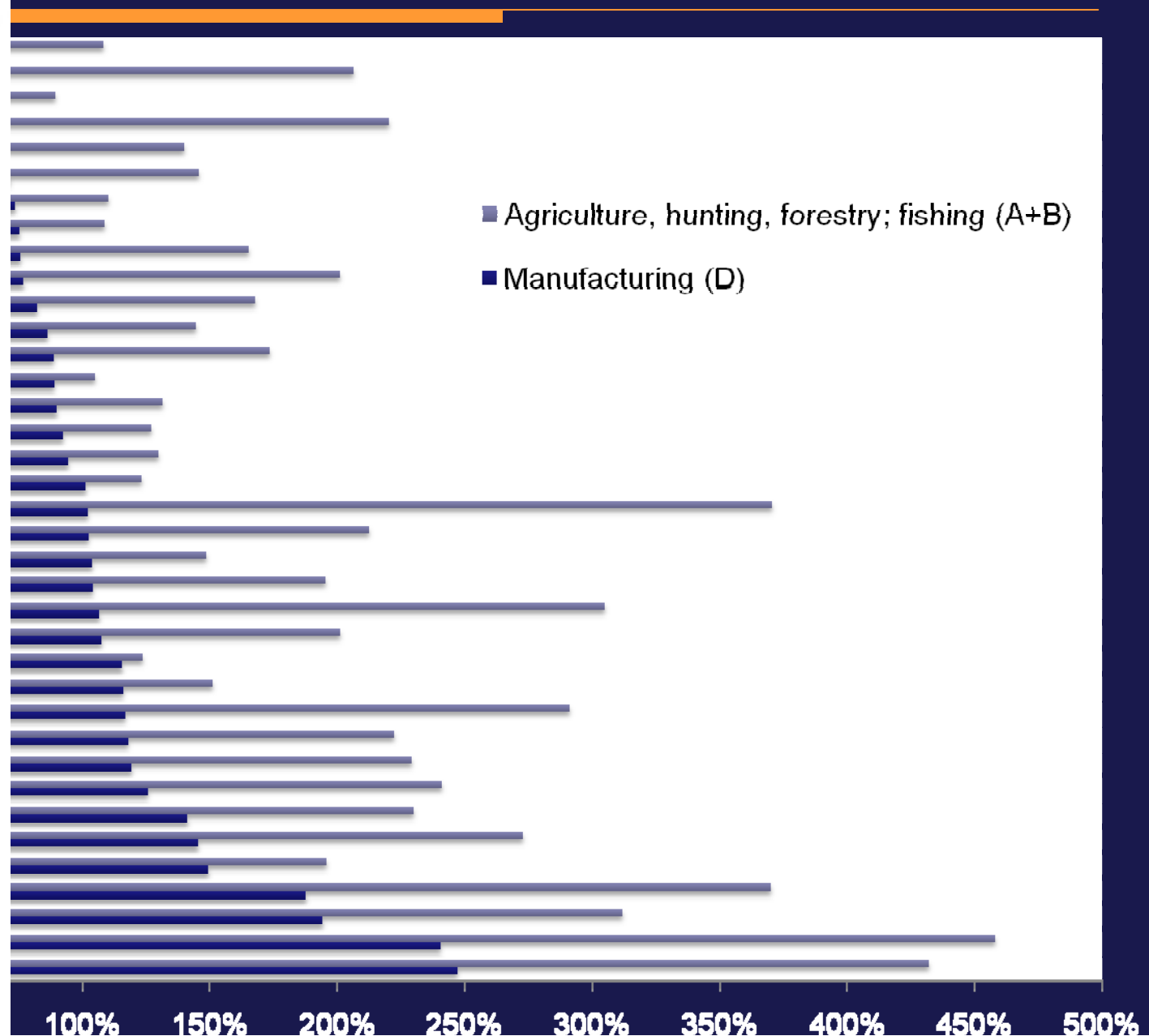
Source: ESCAP Trade Cost Database (version 2).

## Non-tariff intra and extra regional trade costs in Asia (2007/9)\*

Region	ASEAN-4	East Asia-3	North & Central Asia	SAARC-4	AUS-NZL	EU-3	USA
ASEAN-4	79% (-9.5%)	73% (-5.9%)	291% (-14.2%)	134% (2.1%)	90% (-12.3%)	97% (-4.9%)	77% (3.0%)
East Asia-3	73% (-5.9%)	47% (-21.1%)	187% (-32.7%)	119% (-2.8%)	78% (-15.7%)	70% (-19.0%)	53% (-13.5%)
North & Central Asia	291% (-14.2%)	187% (-32.7%)	149% (-20.5%)	270% (-22.4%)	270% (-22.2%)	149% (-26.0%)	165% (5.0%)
SAARC-4	134% (2.1%)	119% (-2.8%)	270% (-22.4%)	113% (5.0%)	130% (-2.7%)	101% (-3.2%)	99% (5.9%)
AUS-NZL	90% (-12.3%)	78% (-15.7%)	270% (-22.2%)	130% (-2.7%)	45% (-23.5%)	89% (-17.0%)	82% (-11.1%)
EU3	97% (-4.9%)	70% (-19.0%)	149% (-26.0%)	101% (-3.2%)	89% (-17.0%)	32% (-32.6%)	51% (-18.2%)
USA	77% (3.0%)	53% (-13.5%)	165% (-17.3%)	99% (5.9%)	82% (-11.1%)	51% (-18.2%)	

Source: ESCAP Trade Cost Database (version 2).

## Diff Comprehensive Trade Costs of Selected ies with India (2007/2009, % ad valorem)



预览已结束，完整报告链接和二维码如下：

[https://www.yunbaogao.cn/report/index/report?reportId=5\\_7326](https://www.yunbaogao.cn/report/index/report?reportId=5_7326)

