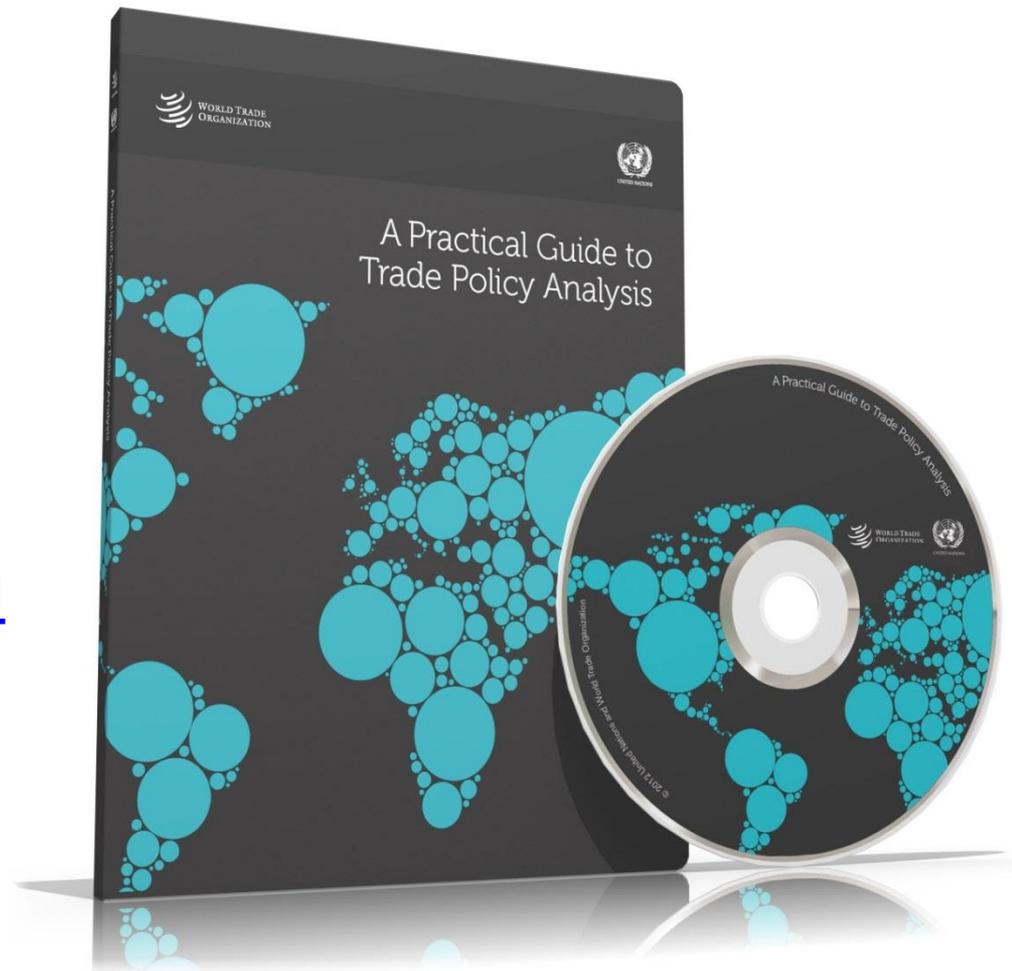


# A Practical Guide to Trade Policy Analysis

A joint UNCTAD – WTO  
publication

<http://vi.unctad.org/tpa>



# Table of contents

1. Analyzing trade flows
2. Quantifying trade policy
3. Analyzing bilateral trade using the gravity equation
4. Partial-equilibrium trade-policy simulation
5. General equilibrium
6. Analyzing the distributional effects of trade policies

# Diversity of approaches

- Chapters 1 and 2 present methodologies for the descriptive analysis of a country's trade performance and its trade policy
- Chapter 3 presents the work horse approach for ex post analysis of trade and trade policies
- Chapters 4 to 6 discuss three different ex-ante approaches that can be used to assess various effects of trade policies

# If you want to assess a country's trade performance:

- Chapter 1: *Analyzing trade flows* will:
  - Help with key measurement issues (reliability, missing values, etc)
  - List main indices used to assess the structural, sectoral and geographical composition of trade flows
  - Suggest how to display trade data graphically in a clear and appealing way

If you want an analytical description of a country's trade policy:

- Chapter 2: *Quantifying trade policy* will:
  - Show how to present a tariff profile
  - Explain how to calculate import coverage ratios and ad valorem tariff equivalents of NTMs
  - Suggest how to assess the overall trade restrictiveness of a trade policy stance

If you're interested in the effect of NTMs on trade (ex post)

- Chapter 3: *Analyzing bilateral trade using the gravity equation* will:
  - Explain the logic of the gravity equation
  - Instruct on how to build a gravity database
  - Present various estimation methods of the gravity equation
  - Explain how to handle zero-trade flows

# If you wish to assess (ex ante) the effect of a sectoral tariff reform

- Chapter 4: *Partial-equilibrium trade-policy simulation* will:
  - Explain how and when to use four ready-made PE models:
    - SMART (single market analysis tool)
    - Global Simulation Analysis of Industry-Level Trade Policy (GSIM)
    - Tariff Reform Impact Simulation Tool (TRIST)
    - Agricultural Trade Policy Simulation Model (ATPS)

If you want to estimate (ex ante) the potential effects of the Doha round

- Chapter 5: *General equilibrium* will
  - Explain how GE models work and why you may wish to use one to simulate the effect of Doha proposals
  - Not provide the tools and the techniques to actually run an economically meaningful GE model

If you want to estimate (ex ante) the distributional effects of a trade reform

- Chapter 6: *Analyzing the distributional effects of trade policies* will
  - Explain how to think about the transmission of trade shocks to individual households in simple terms
  - List the data you will need
  - Introduce the statistical techniques used to deal with household survey data

# Into the Practical Guide

# Where is the data?

Detailed instructions on what kind of data each databases has and how to access it:

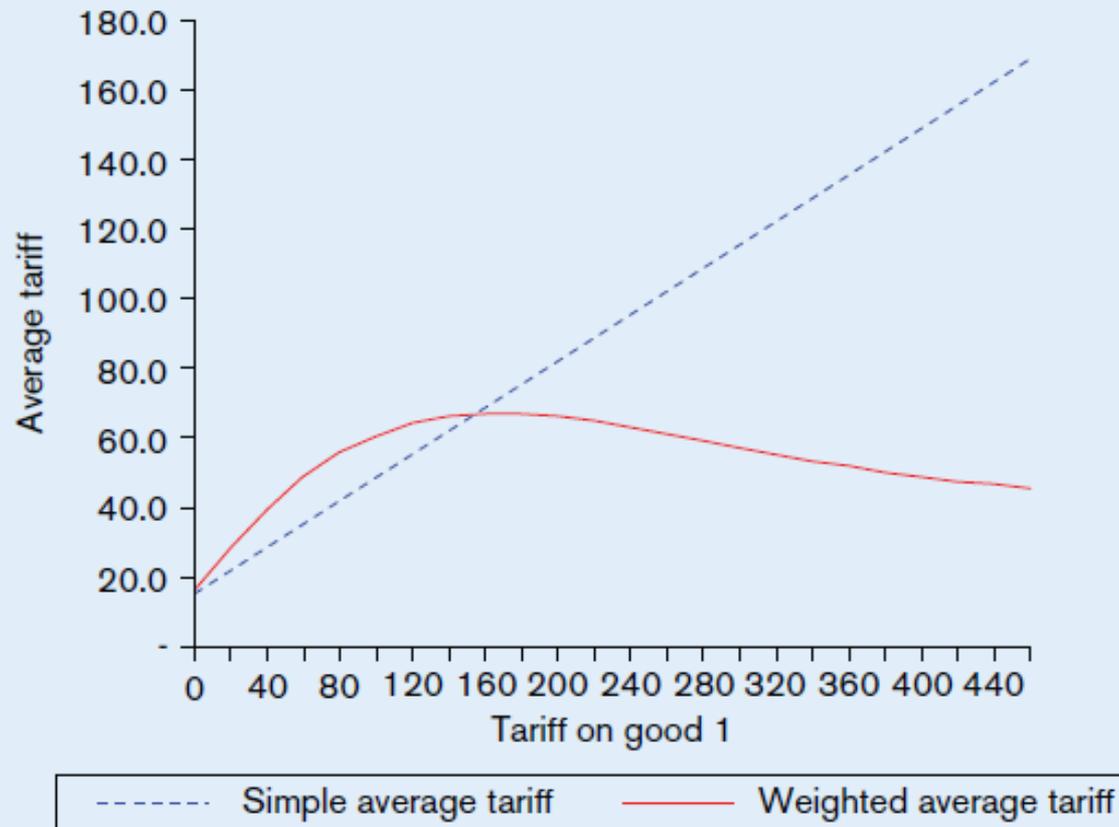
- WTO IDB CTS
- UNCTAD TRAINS
- World Bank WITS
- ITC MACMAP
- Many other databases

# Concepts / Constructions / Examples

- Tariffs
  - Applied, MFN, bound
  - Specific duties, ad-valorem
- Show how to compute tariff profiles
  - Simple / weighed
  - Peaks / dispersion
  - Effective protection

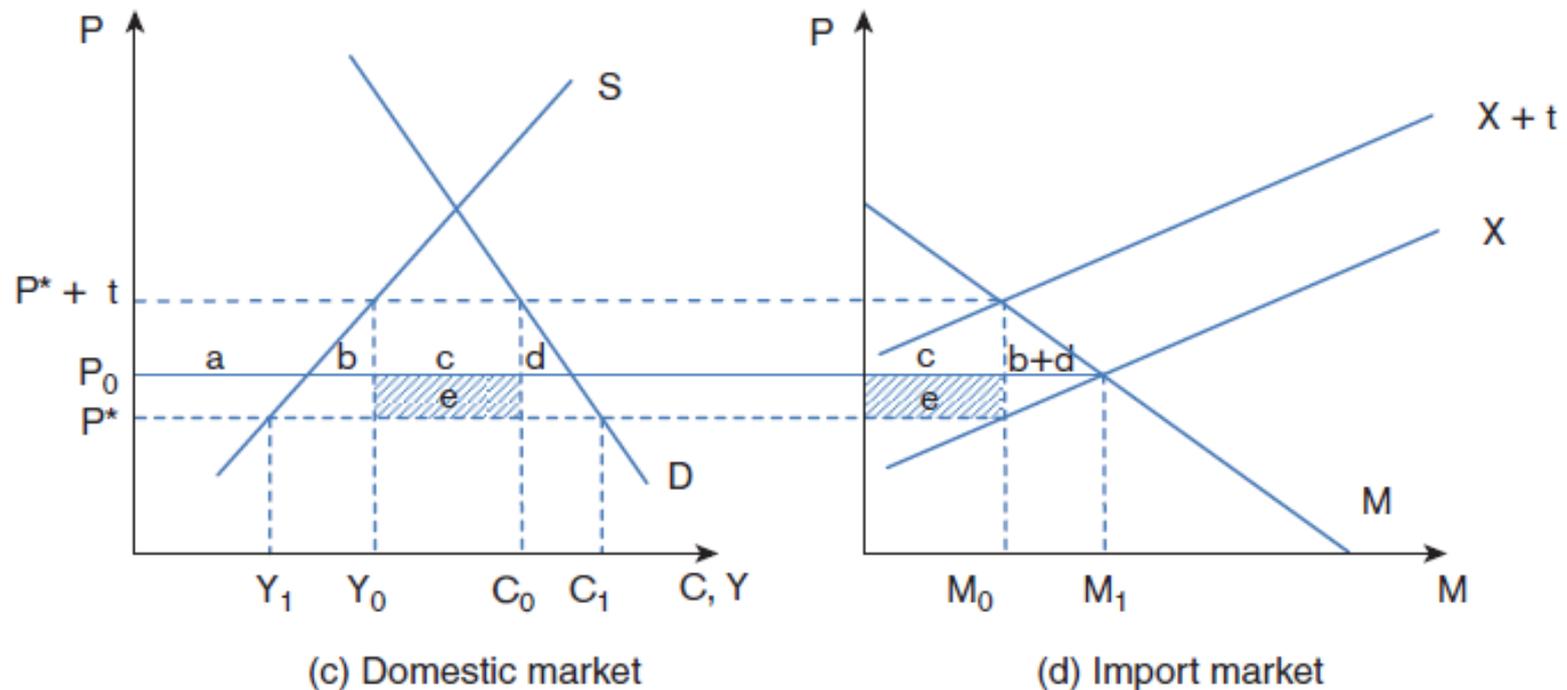
# Illustration of basic concepts

Figure 2.1 Bias of trade-weighted average tariffs



# Simple, graphical intuitions

Figure 4.2 Tariff reduction in the large country case



# Trade-related Indices

- Trade over GDP
- Import content of exports and external orientation
- Trade in intermediate goods
- Offshoring
- Vertical specialization
- Intra-industry trade
- Export diversification
- Regional Trade



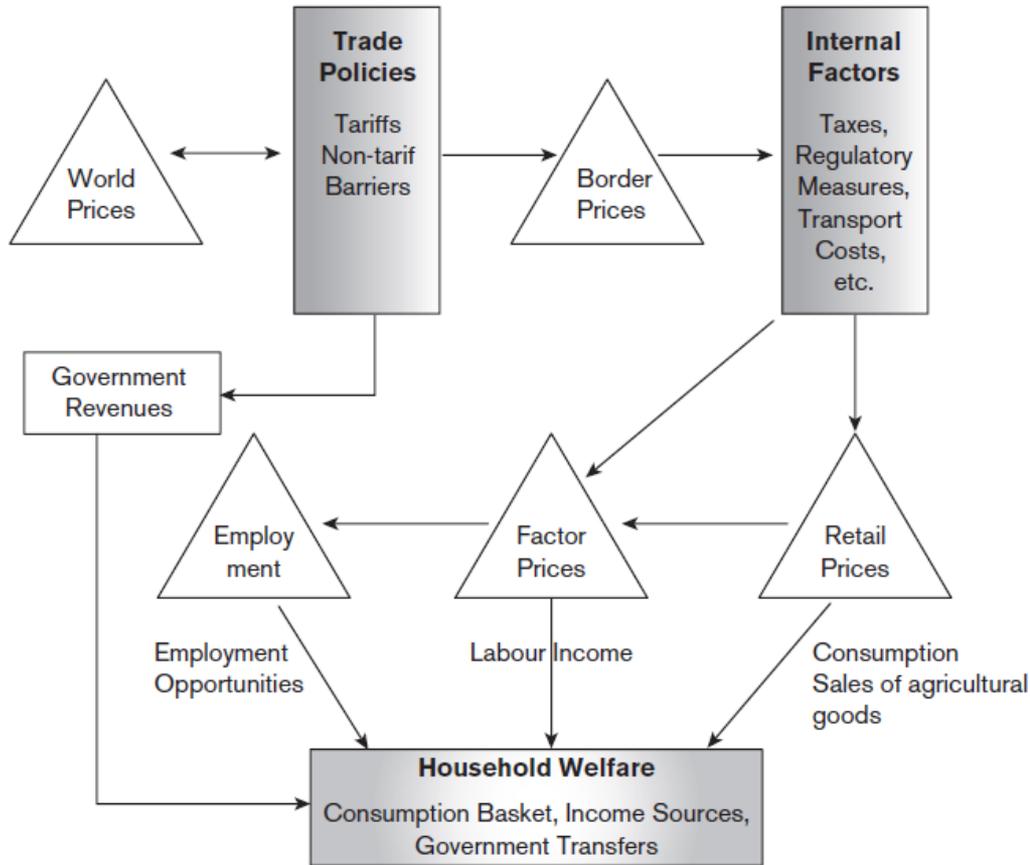
# Advanced topics: Gravity

How to set up a gravity database and estimate the model

- Step by Step approach with examples:
  - Where to get the data
  - Basic theoretical foundations
  - Setting up the model
  - Running the model in STATA
  - Understanding the results
  - Translating the results into policy

# Advanced topics: Distribution

Figure 6.1 Trade policies and households' welfare



# How to illustrate the results

Figure 1.6 EU Regional intensity of trade indices with the CEECs

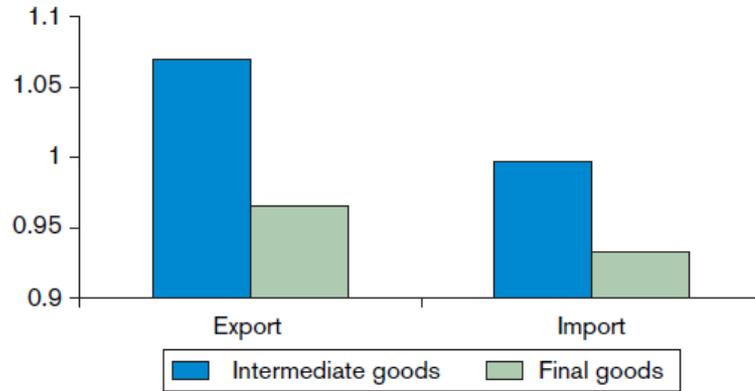


Figure 4.5 Total welfare effects in GSIM

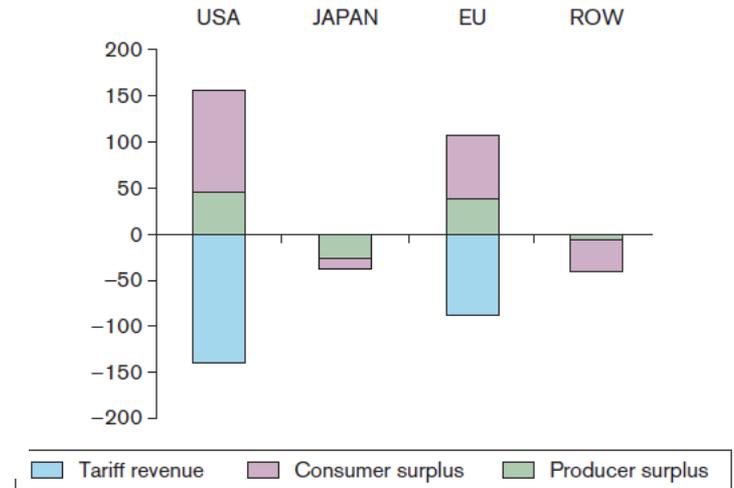
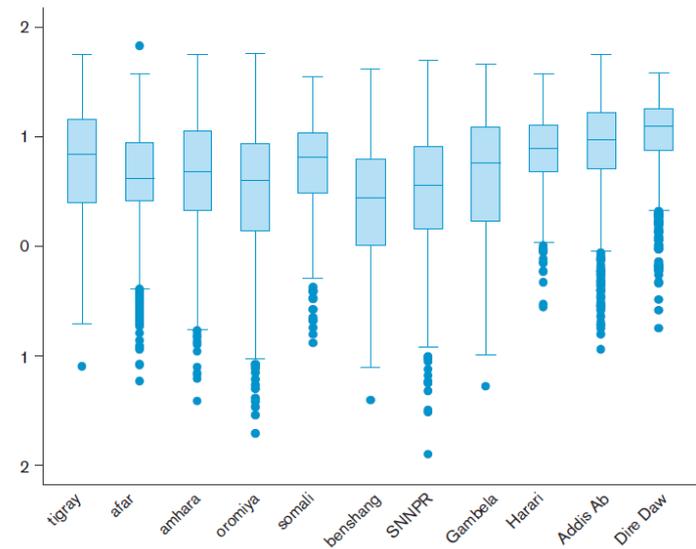
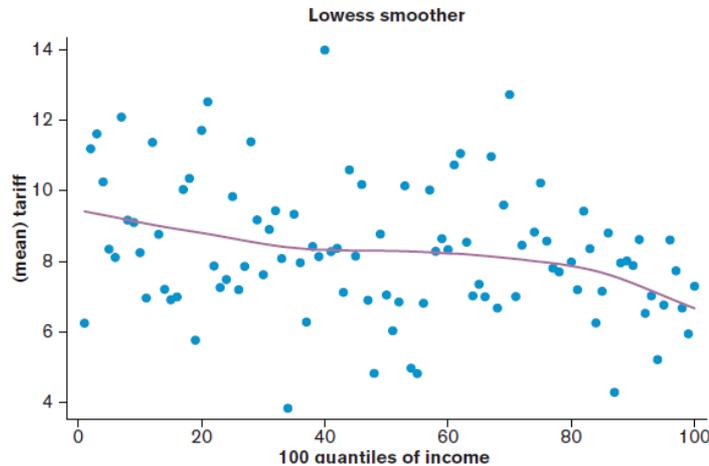


Figure 6.6 Tariff on consumption



# A user-friendly website

<http://vi.unctad.org/tpa>