



Indirect tax expenditure:

Principles, modelling and data

7 December 2023

TaxDev Country Economist, IFS



#TaxDev

Edris Seid,

Presentation outline

TaxDev

- VAT tax expenditure
 - Principles and modelling VAT TE
- Trade tax expenditure
 - Methodology and benchmarking
 - Data requirement
- Practical session







VAT TEX EXPENDITURE:



VAT Expenditures

The "ideal" VAT System



- Broad-based tax on final consumption
 - > a tax on all final consumption of goods and services at a single rate
 - > no distortionary effect on production decisions
 - consumers have no incentive to shift consumption to more lightly taxed
- It is collected through a staged process through an invoice credit system
 - Each business in the supply chain takes part in controlling, collecting, and remitting the tax;
 - Suppliers deduct VAT paid on inputs from the output VAT and remit the net to the tax authority
 - generates third-party paper trails; helps to improve compliance and reduce tax avoidance



Mechanics of VAT in the supply chain

Simple supply chain with a standard VAT rate of 15% with no exemptions or rate reduction





TaxDev

VAT expenditures

Mechanics of VAT in the supply chain



.II IFS



VAT Expenditures

Departure from the 'ideal'VAT System

• In practice, there are departures from the ideal VAT system in various forms:

Exempt supplies like financial services, basic food items

Reduced-rate supplies use reduced rates for certain items including food items

Size-based registration

micro and small enterprises

• Such departures from the *'ideal'* system give rise to TE



TaxDev

VAT expenditures





Modeling VAT TEs



VAT Expenditures

Measuring VAT TE

TaxDev



companies/businesses Inputs & equipment used businesses OR used by registered companies that sell VAT-exempt goods.



Decision-making flowcharts-VAT

TaxDev



Approaches to Estimating VAT TEs

Top-down approach

- is a subtractive process
 - first estimate the potential tax and then subtract from that the actual tax to arrive at the tax gap.
 - relies on 'National Account data/SUT; and survey data
 - provide a comprehensive assessment of all TEs;





Top-down approach



VAT Expenditures

Approaches to Estimating VAT TEs

Bottom-up approach

- The policy gap (which includes tax expenditure) is estimated directly using tax admin data, such as results of random audits or operational audits targeted by some criteria
 - potential revenue is arrived at through an additive process, adding the calculated gaps to the actual tax to arrive at the potential tax.

• Often used for income taxes.









TRADE TAX EXPENDITURE



Trade tax expenditures

Measuring trade TE

Defining the benchmark tax system:

- For customs and import taxes, the benchmark tax system USUALLY includes:
 - International agreements like the Vienna Convention, Chicago Convention, Florence Agreement, and Nairobi Agreement
 - ➢ Regional and bilateral trade agreements (granting preferential treatments for goods originating from the bloc or partner country).
- The benchmark customs duty rate will not be the same for all the imported goods.

➤ the benchmark customs duty could be based on the 'Tariff Book'.







Approaches



VAT expenditures

Issues in estimating trade TE



• Issues: Estimation of trade TE is a bit complicated.

• Customs duty & import taxes are charged sequentially:

>TE on a given tax will indirectly affect the collection of taxes in the later stage.

> Excise on imports is calculated on the sum of the CIF value of imports and the customs duty payable.

> This gives rise to 'direct' and 'indirect' effects.

• Trade taxes (such as VAT on imports) affect domestic TE estimations



Approaches to estimating trade TE



How do we account for these indirect and interaction effects in import TE estimates?

- No 'correct' way of doing but different approaches have advantages and disadvantages
- Two common approaches to account for these effects



Approaches to estimating trade TE

Approach I

Approach II

TEs are counted where they ACCRUE, not where they ORIGINATE

Customs TE captures only TEs accruing to customs. TEs arising from exemptions or reductions in customs duties but accruing to excise are reported as excise TE. TEs are counted where they ORIGINATE, not where they ACCRUE.

Direct TE: resulting from the tax itself. Indirect TE: arising indirectly from other taxes (through its impact on the tax base)



TaxDev



Approach I

Example: Country A has customs duty (on CIF value) and excise on imports (on the sum of CIF value and customs duty payable).

CIF	Benchmark duty	Applied duty rate	Benchmark	Applied
Value	rate		excise rate	excise rate
2,000	0.10	Exempt	0.20	0.20

• Under Approach I: the TE is reported as:

Customs duty TE= (Benchmark duty rate- Applied duty rate)* CIF Value







Approach I

Example: Country A has customs duty (on CIF value) and excise on imports (on the sum of CIF value and customs duty payable).

CIF Value	Benchmark	Applied duty	Benchmark	Applied
	duty rate	rate	excise rate	excise rate
2,000	0.10	Exempt	0.20	0.20

• Under Approach I: the TE is reported as:

Excise TE= Benchmark excise rate (CIF+CIF*Benchmark duty rate) less \leftarrow Collections Applied excise rate (CIF+CIF*Applied duty rate) \leftarrow Actual collections =440-400=40



Approach II

Example: Country A has customs duty (on CIF value) and excise on imports (on the sum of CIF value and customs duty payable).

CIF Value	Benchmark duty rate	Applied duty rate	Benchmark excise rate	Applied excise rate
2,000	0.10	Exempt	0.20	0.20

• Under Approach II: We report TEs as direct effect and indirect effects

Direct Customs duty TE= (Benchmark duty rate- applied duty rate)* CIF Value = 200



Approach II

Indirect Customs duty TE (through excise)=

(Benchmark Excise Rate) (Direct customs duty TE) = <u>0.20*200=40</u>

Excise TE=

(Benchmark Excise Rate- Applied Excise Rate) (1+Applied Customs Duty Rate)(CIF)

=0



VAT Expenditures





DATA REQUIREMENTS



Data requirements

- The data for customs & import tax expenditure comes from the Customs Commissions/Authority/
 - ASYCUDA World/customs management system:
 - >Shipment level import, the customs, and import tax payable
 - CIF value of imports, customs duty payable, VAT payable, surtax payable
 - HS code of the shipment, Customs Procedure Code (CPC)
 - ≻The country's Tariff Book
 - >List of the regional, and bilateral trade agreements





The Centre for Tax Analysis in Developing Countries (TaxDev) LinkedIn: @taxdev Twitter: #TaxDev

www.taxdev.org

The Institute for Fiscal Studies 7 Ridgmount Street London WC1E 7AE

www.ifs.org.uk

The Overseas Development Institute 203 Blackfriars Road London SE1 8NJ

www.odi.org



