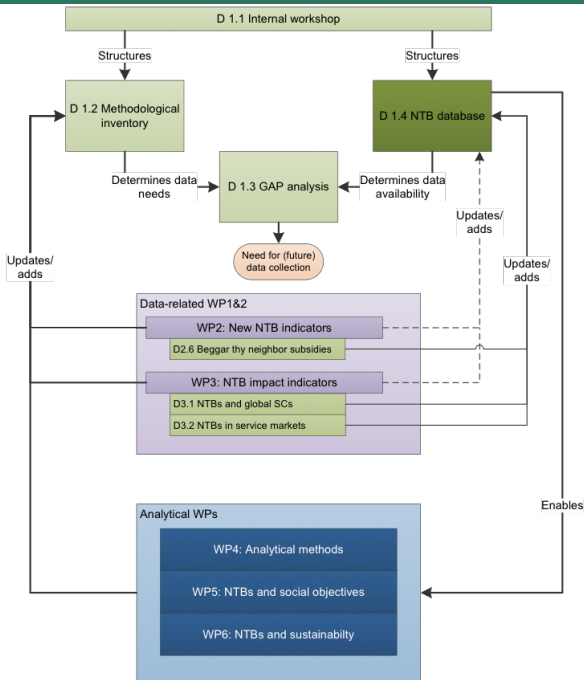


WP1: Methodology Inventory

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Methodology Inventory

- The methodological inventory: *"develop an inventory of methodological approaches for NTM estimation and assessment. It will do so by surveying both the current state of the art academic literature and the efforts of various policy institutions..."*
- ⇒ Comprehensive overview of what is out there
- ⇒ A meta-analysis in terms of methods (of course), but also data used, as well as geographical scope (?)
- ⇒ A first step in linking methods to data, i.e. basis for the GAP analysis
- ⇒ A living doc that is updated in the course of PRONTO

D12_Method_inventory_WIP.xlsx - Microsoft Excel

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ADD Paper

PREVIEW

Bibliographic information

Lead Author	Co-author(s)	Year	Source	Title	Full reference
Fontagné, L.	Bernard, A.B., Sarkar, S., Hertel, T., Davies, R.B.	2012	Journal	Test	Test

Methodological information

Reason	Scope	Method	Data source	Country focus
Consequences of NTM	Industry/Sector		WTO, Regional Trade Agreements Information System (RTA-IS)	

Enter title

Bibliographic information

Select lead author

Select co-author(s)

Enter year

Select source

Enter title

Enter full reference

Fontagné, L.

Bernard, A.B.

2012

Journal

Book

Book chapter

Working paper

Discussion paper

Document

Test

Test

Enter new lead author

Enter new co-author(s)

Davies, R.B.

Methodological information

Reason	Scope	Method	Data source	Country focus
Alternative Measure of NTM	Industry/Sector	Price difference	WTO Regional Trade Agreements Information System (RTA-IS)	
Consequences of NTM	Economy wide	Quantity	WTLSE/INCC/IFN-NF/Uni Salzburg, Design of Trade Agreements Data	

ADD paper

Literature

Web

Data

Raw

Summary Stats

REF

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70%

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22/09/20

Methodology Inventory

- In thinking about classifying *how* NTM measures are used:
 - ⇒ Reason: what is the goal?
 - ⇒ Perspective: looking backwards or forwards?
 - ⇒ Scope: How wide is the net?
 - ⇒ Method: in what way is the NTM measure used?

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D10

	A	B	C	D
19				
20	CATEGORIES			
21				
22	Reason	Alternative Measure of NTM	A	For example, converting the number of import documents needed into a tariff equivalent
23	Reason	Consequences of NTM	C	For example, the impact of the number of import documents needed on trade flows
24	Reason	Both A and C	B	
25	Reason	Determinants of NTM use	D	For example, how corruption feeds into the level of NTMs
26	Perspective	Retrospective	Retro	Explaining past patterns; e.g. regression analysis
27	Perspective	Predictive	Predict	Predicting future outcomes; e.g. CGE
28	Perspective	Both	Both	
29	Scope	Industry/Sector	Micro	Relatively narrow impacts, e.g. regression on trade in a product or partial equilibrium simulations
30	Scope	Economy wide	Macro	Relatively broad impacts, e.g. total imports, GDP growth, or CGE/cross-sector impacts
31	Method if A	Price	P	Using price differences to back out NTM
32	Method if A	Quantity	Q	Using quantities traded to back out NTMs
33	Method if A	Gravity	G	Using a regressions on trade in order to back out NTM measure
34	Method if A	Financial	F	Using financial data to back out NTMs
35	Method if C	Regression	R	Regression analysis; cross-section or panel
36	Method if C	Gravity	RG	When the regression somehow comes close to a gravity regression; e.g. a dependent variable that is trade flows, FDI activity, etc. Includes bot
37	Method if C	Price Gap/Price Wedge	RP	Where the dependent variable is a price gap, e.g. the difference between the fob and domestic prices
38	Method if C	Other	RO	Catch all for other regressions, including those looking at determinants of GDP growth, etc.
39	Method if C	Event Study	EV	Event study methodology; e.g. impact of NTM announcement on stock prices
40	Method if C	VAR	VAR	VAR analysis (different than CGE as this is determining the coefficients)
41	Method if C	Simulation	Sim	Simulation analysis
42	Method if C	Sectoral	SimSec	Simulations at a sector level; no or limited cross sector impacts
43	Method if C	CGE	SimCGE	General equilibrium; includes income changes and cross-sector impacts
44	Method if C	BOE	BOE	Back of the envelope calculations; e.g. an increase in visas by 1000 means 1000*pay difference increase in GDP
45	Method if D	Regression	RD	
46				

INFO ADD paper / ADD category Literature Websources Data Raw Summary Stats

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Purpose

- What is the reason that the study is using a NTM measure?
 - ⇒ Alternative Measure of NTM (A): converting the number of import documents needed into a tariff equivalent
 - ⇒ Consequences of NTM (B): the impact of the number of import documents needed on trade flows
 - ⇒ Both: both A and C
 - ⇒ Determinants of NTM use (D): how corruption feeds into the level of NTMs
- This informs a lot about the norms for how the measure is being used

Perspective

- Is the NTM measure being used to explain past data patterns or predict future outcomes?
- ⇒ Retrospective (Retro): regression analysis on impact of past liberalization
- ⇒ Predictive (Predict): CGE predictions of liberalization
- ⇒ Both (Both): both Retro and Predict
- This informs the norms as well as type of measure, e.g. CGE would probably need tariff-equivalent whereas regression could use 0/1

Scope

- How wide is the study's focus?
- ⇒ Industry/Sector (Micro): Narrow impacts, regression on trade in a product or partial eq. simulations
- ⇒ Economy wide (Macro): Broad impacts, total imports, GDP growth, or CGE/cross-sector impacts
- This is a bit of a judgement call, but cross-sector impacts would be more Macro

Methods

- Given the differing approaches under the different reasons, we break this down into:
 - ⇒ Method if A (alternative measure)
 - ⇒ Method if C (consequences)
 - ⇒ Method if B (create alternative measure and estimate consequence)
 - ⇒ Method if D (determinant of NTM)

Method if Alternative Measure Reason

- Method determined by the type of data used
- ⇒ Price (P): Using price differences to back out NTM
 - ⇒ Quantity (Q): Using quantities traded to back out NTMs
 - ⇒ Gravity (G): Using a regressions on trade in order to back out NTMs
 - ⇒ Financial (F): Using financial data to back out NTMs

Method if Consequence Reason

- Largest set of different methodologies
 - Three sub-categories
- ⇒ Regression (R): Regression analysis; cross-section or panel
- ⇒ Simulation (Sim): Simulation analysis
- ⇒ Back of the Envelope (BOE): Simple calculations; e.g. an increase in visas by 1000 means $1000 \times \text{pay difference}$ increase in GDP

Regression Methods if Consequence Reason

- Gravity (RG): When the regression is close to a gravity regression; e.g. a dependent variable that is trade flows, FDI, includes both extensive and intensive margins
- Price Gap/Price Wedge (RP): Where the dependent variable is a price gap, e.g. the difference between the fob and domestic prices
- Other (RO): Catch all for other regressions, including those looking at determinants of GDP growth, etc.
- Event Study (EV): Event study methodology; e.g. impact of NTM announcement on stock prices
- VAR (VAR): VAR analysis (different than CGE as this is determining the coefficients)

Simulation Methods if Consequence Reason

- Sectoral Simulation (SimSec): Simulations at a sector level; no or limited cross sector impacts
- CGE (SimCGE): General equilibrium; includes income changes and cross-sector impacts

Method if Determinant of NTM Reason

- Regression (RD): determinants of AD duties

Methodology Inventory

- Four fields of categorization:
 - ⇒ Reason: what is the goal?
 - ⇒ Perspective: looking backwards or forwards?
 - ⇒ Scope: How wide is the net?
 - ⇒ Method: in what way is the NTM measure used?
- Categories are *not* mutually exclusive
- This is intended to be a living classification