

ARTNeT Capacity Building for Trade Policy Researchers

Supporting Equitable Development in ASEAN:
Impact of Regional Integration on CLMV Countries

Hands on Session:

**Getting to know
the WITS and ITIP
databases**

- 1. Data. Access and
variables available**
- 2. Incidence measures**

Session 8




UNITED NATIONS
UNCTAD

DITC/TAB, Denise Penello Rial

Bangkok, Thailand, June 2016

i-TIP portal (in cooperation with WTO)

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STATISTICS
Integrated Trade Intelligence Portal (I-TIP)
Improving the transparency of trade policy measures

The Integrated Trade Intelligence Portal (I-TIP) provides a single entry point for information compiled by the WTO on trade policy measures. Containing information on over 25,000 measures, I-TIP covers both tariff and non-tariff measures affecting trade in goods as well as information on trade in services, regional trade agreements and the accession commitments of WTO members. Its aim is to serve the needs of those seeking detailed information on trade policy measures as well as those looking for summary information.

[Feedback on this page](#)
Please contact I-tip@wto.org

[See also:](#)
[Economic research and analysis](#)

Information note:
[I-TIP](#)



Trade in goods

I-TIP Goods provides comprehensive information on non-tariff measures (NTMs) applied by WTO members in merchandise trade. It includes members' notifications of NTMs, such as technical barriers to trade, sanitary and phytosanitary measures, and anti-dumping and countervailing measures, as well as information on "specific trade concerns" raised at WTO committee meetings.
[Go to I-TIP Goods](#)

I-TIP also provides a direct link to the WTO's extensive tariff and trade databases.
[Tariff Analysis Online Facility and Tariff Download Facility](#)

Trade in services

This integrated database — a joint initiative of the WTO and the World Bank — consists of information on members' commitments under the WTO's General Agreement on Trade in Services (GATS), services commitments in regional trade agreements, applied measures, and services statistics.
[Go to I-TIP Services](#)

**WORLD TRADE ORGANIZATION****THE WORLD BANK**

Other applications

[Trade Monitoring Database](#)

The Trade Monitoring Database (TMDB) provides information on trade measures taken by WTO members and observers since October 2008.

ASEAN data

asean.i-tip.org



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Developed by WTO in
cooperation with UNCTAD

I-TIP official NTMs: Integrated analysis and retrieval of collected official non-tariff measures

Over the years, multilateral trade negotiations have helped to substantially reduce tariff rates. Non-tariff measures (NTMs) cover sanitary and phyto-sanitary standards (SPS), technical barriers to trade (TBT), import and export licensing, export restrictions, customs surcharges, anti-dumping and safeguard measures, among others. While tariffs have been reduced, the number of NTMs is increasing and is often blamed to be a source of the lack of integration in ASEAN. However, unlike tariffs, NTMs could play a role of check and balance for the quality of goods. In spite of their growing importance in regulating trade, the exact impact of NTMs on trade flows is not very well understood. There is an urgent need to develop a better understanding and transparency of existing NTMs.

The Economic Research Institute for ASEAN and East Asia (ERIA), in collaboration with UNCTAD, collected and classified NTMs in the 10 ASEAN countries (Brunei Darussalam, Cambodia, Indonesia, Lao PDR, Malaysia, Myanmar, the Philippines, Singapore, Thailand, and Viet Nam). We worked on all regulations and official documents including international conventions adopted by countries which were in effect by January 2015. The project consists of two phases: NTM data collection (the data were released in January 2016) and country report (April 2016) and data analyses on how NTMs will affect trade in the region (January 2017).

The project aims to (i) collect, validate, and store NTM data from official sources; (ii) improve the general understanding of these measures and their impact on world trade; and (iii) provide insights on NTMs in 10 countries.

The project is led by Lili Yan Ing (ERIA) and Santiago de Cordoba (UNCTAD). The core team consists of Michelle Ayu Chinta Kristy, Rizqy Anandhika, Chi Le Ngo, Maxim Gubarev, Fabien Dumesnil, and Denise Penello Rial. The project is advanced by supervision and comments from Shujiro Urata (ERIA), Izuru Kobayashi (ERIA), Ralf Peters (UNCTAD), Guillermo Valles Galmez (UNCTAD), Shimpei Yamamoto (ERIA), Ponciano Intal, Jr. (ERIA), and Olivier Cadot (Lausanne University).

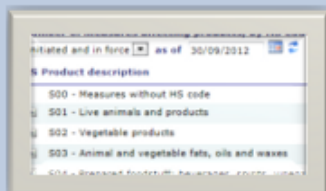
The project also significantly benefited from the supervision and support of ASEAN government officials, particularly Rebecca Fatimah (MITI Malaysia), Sulaimah Mahmood (MTI Singapore), Donna Gultom (MOT Indonesia), Phuong Van Hoang (MIT Vietnam), and Mark Ng (MTI Singapore). Along the way of conducting the project, we presented the initial work at the ASEAN's Senior Economic Officials Meeting in August 2015 and the preliminary findings at ASEAN's High Level Task Force in January 2016. The research fund provided by ERIA (RA-001-001-406) is also gratefully acknowledged.

The successful work would not have been possible without the invaluable work of the ASEAN national teams consisting of the following economists and government officials:

No.	Country	Name	Institution
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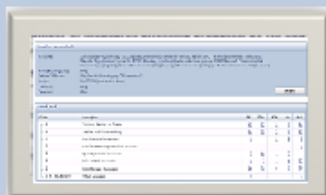
ASEAN data

Choose one of the following options:



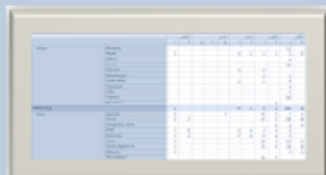
TABLES by PRODUCTS

- Look at the incidence of NTMs by HS sections and chapters, and by country imposing the measure.
- See individual measures by simply clicking on any number in the tables!
- This option does not allow a selection of products.



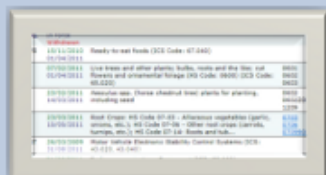
TABLES by MEASURE

- Look at the incidence of NTMs by country imposing the measure.
- This option does not allow a selection of products.



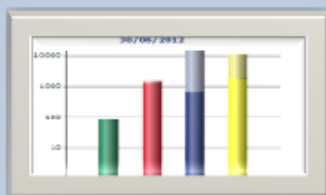
TABLES by MEMBERS

- Look at the incidence of NTMs by WTO member and geographical regions.
- See individual measures by simply clicking on any number in the tables!



DETAILED QUERY

- Select any combination of the five criteria: type of NTM, dates, country imposing, country affected, and product. Get tabular listing of NTMs.
- Drill down for additional details.
- Export summary and detailed NTM information.



GRAPHS over TIME

- You can see and select stocks or flows of Non-Tariff Measures (NTMs), by type of measure.
- See individual measures by simply clicking on any bar in the graphs!
- This option does not allow the selection of country or product affected.

Through any of the five options above you obtain a summary table with measures by country, product and type of measure; by drilling-down you will find a table with detailed information of individual measures, where, through links,

ABOUT

- [How To](#)
- [What Is New](#)
- [Methodology](#)
- [Map of the Application](#)
- [Classification used in the application](#)

WHAT IS AVAILABE NOW

- NTM data for the 10 ASEAN countries
- Brunei Darussalam
- Cambodia
- Indonesia
- Laos
- Malaysia
- Myanmar
- Philippines
- Singapore
- Thailand
- Vietnam

Contact us: ntm.asean@unctad.org
contactus@eria.org



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Home

TABLES by PRODUCTS

TABLES by MEASURE

TABLES by MEMBERS

DETAILED QUERY

GRAPHS over TIME

About

Available search criteria

Selected search criteria

Measures: Sanitary and Phytosanitary [SPS] [A] , Technical Barriers to Trade [TBT] [B] , Pre-shipment inspection [INSP] [C] , Contingent trade protective measures [CTPM] [D] , Quantity control measures [QC] [E] , Price control measures [PC] [F] , Other measures [OTH] [G,H,I,J,K,L,M,N,O] , Export-related measures [EXP] [P]

Member(s) imposing: Any

Partner(s) affected: Any [Include the category "All members"]

Date(s): 15/02/2016 [initiated, in force]

Modify

Search result

i Numbers cannot be compared

HS Code	Product description	TBT	SPS	INSP	CTPM	QC	PC	EXP	OTH
	Total	2528	1964	151	124	157	194	759	32
Sec. I	Live animals and products	277	749	27		21	51	247	8
Sec. II	Vegetable products	414	775	55	2	37	53	252	14
Sec. III	Animal and vegetable fats, oils and waxes	162	322	10		12	29	141	7
Sec. IV	Prepared foodstuff; beverages, spirits, vinegar; tobacco	663	856	24		34	72	201	11
Sec. IX	Wood, cork and articles; basketware	64	65	12		10	21	127	7
Sec. V	Mineral products	258	119	19		17	31	102	12
Sec. VI	Products of the chemical and allied industries	798	316	35	3	47	74	347	17

Available search criteria

Selected search criteria

Measures: **Technical Barriers to Trade [TBT] [B]**
 Member(s) imposing: **Any**
 Partner(s) affected: **Any [Include the category "All members"]**
 Date(s): **15/02/2016 [initiated, in force]**
 Product(s): **HS codes: 06,07,08,09,10,11,12,13,14**

[Modify](#)

Search result

Your query covers 414 measures and
 Your selection resulted in 54 measures


[Export to excel](#)

[Return to summary](#)

Measures:

Member imposing	Partner affected	NTM Code	Measure description	Also domestic	Product description	HS	Source	National legal basis	In force Withdrawn
Brunei Darussalam	All Members	TBT B31	General requirements for labelling. 9. (1) No person shall import, advertise, manufacture, sell, consign or deliver any prepacked food if the packag...	Yes	food products	020110 020120 020130...	Website of the Attorney General's Chambers - Subsidiary Legislation. Regulations Under Section 16. Public Health (Food) Regulations	Public Health (Food) Regulations	01/01/2001
Brunei Darussalam	All Members	TBT B7	Coriander. 291. Coriander shall be the dried fruit of the coriander plant and shall contain — (a) not more than 12% water; (b) not more than 7% tota...	Yes	Coriander.	090921 090922	Website of the Attorney General's Chambers - Subsidiary Legislation. Regulations Under Section 16. Public Health (Food) Regulations	Public Health (Food) Regulations	01/01/2001
Brunei Darussalam	All Members	TBT B7	Coffee and chicory. 212. (1) Coffee and chicory shall be a mixture of ground coffee and ground chicory. It shall contain not less than 50% (w/w)...	Yes	Coffee including instant coffee and chicory, soluble coffee and chicory and coffee mixture	090112 090122 210111100	Website of the Attorney General's Chambers - Subsidiary Legislation. Regulations Under Section 16. Public Health (Food) Regulations	Public Health (Food) Regulations	01/01/2001
Brunei Darussalam	All Members	TBT B6	Greater Cardamon or Lesser Cardamon. 285. (1) Cardamon or Greater Cardamon, and Cardamon or	Yes	Greater Cardamon and Lesser Cardamon.	090831 090832	Website of the Attorney General's Chambers - Subsidiary Legislation. Regulations Under Section 16. Public	Public Health (Food) Regulations	01/01/2001

See ASEAN i-TIP

- Get acquainted with the data and format
- Try to find some information that is particularly interesting



Database on NTM - from WITS

Incidence Calculations

Incidence measures, inventory approach

- Frequency index

$$F_j = \frac{\sum D_i M_{ij}}{\sum M_i}$$

How many of my
importing products have
to comply with an NTM?

- Coverage ratio

$$C_j = \frac{\sum D_i V_{ij}}{\sum V_i}$$

What share of my
imports (in value) have
to comply with an NTM?

- Intensity (prevalence score?), or frequency count

+ What are the most typical
measures in my country?

+ How many regulations do
food products have?

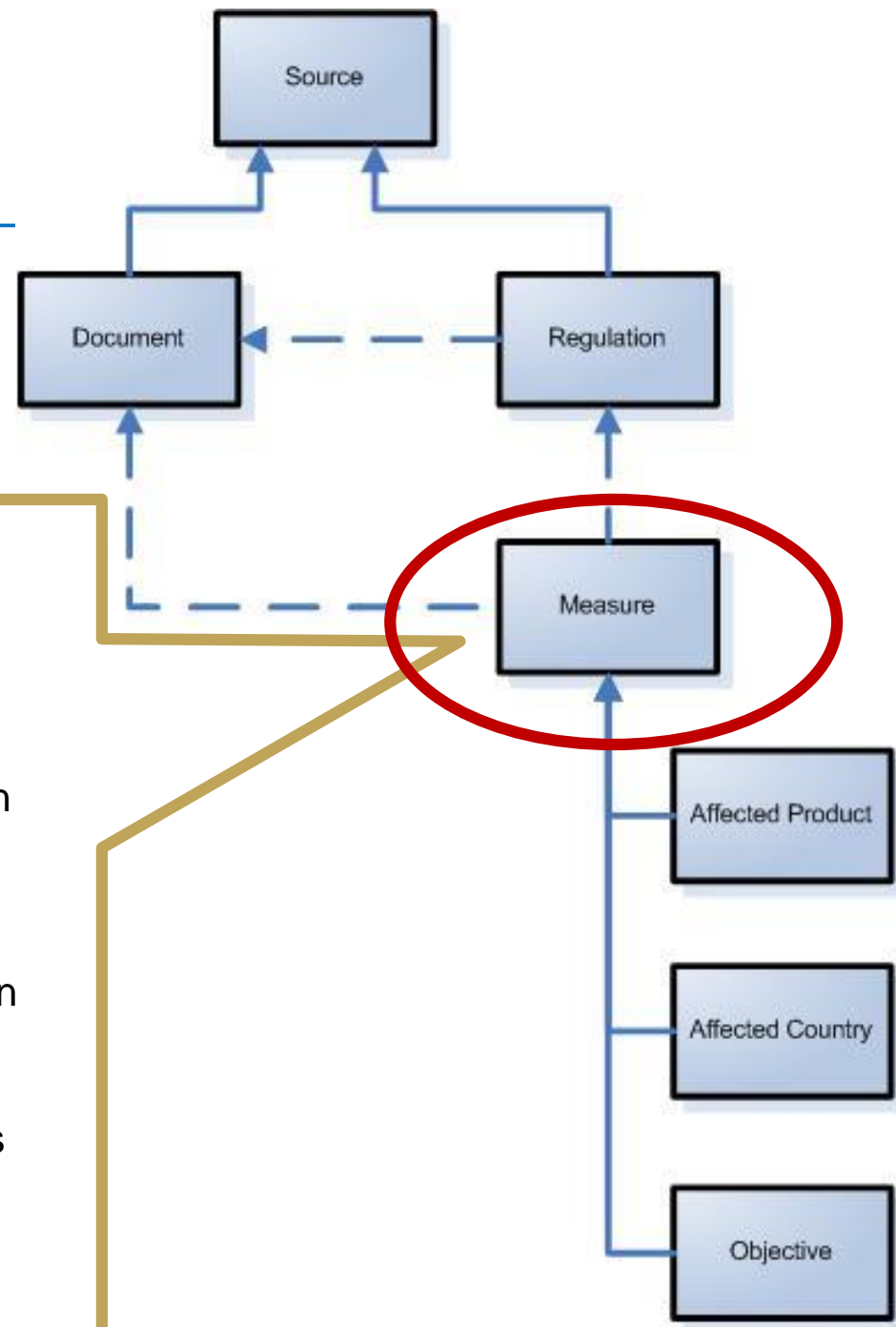


Key simple questions on NTM that we can (now) start to answer

- What are the measures that countries impose?
 - Legal mandatory requirements, all trade-control regulations
- What measures are applied to a particular product?
- How many of my importing products have to comply with an NTM?
- What share of my imports (in value) have to comply with an NTM?
- What are the most typical measures in my country?



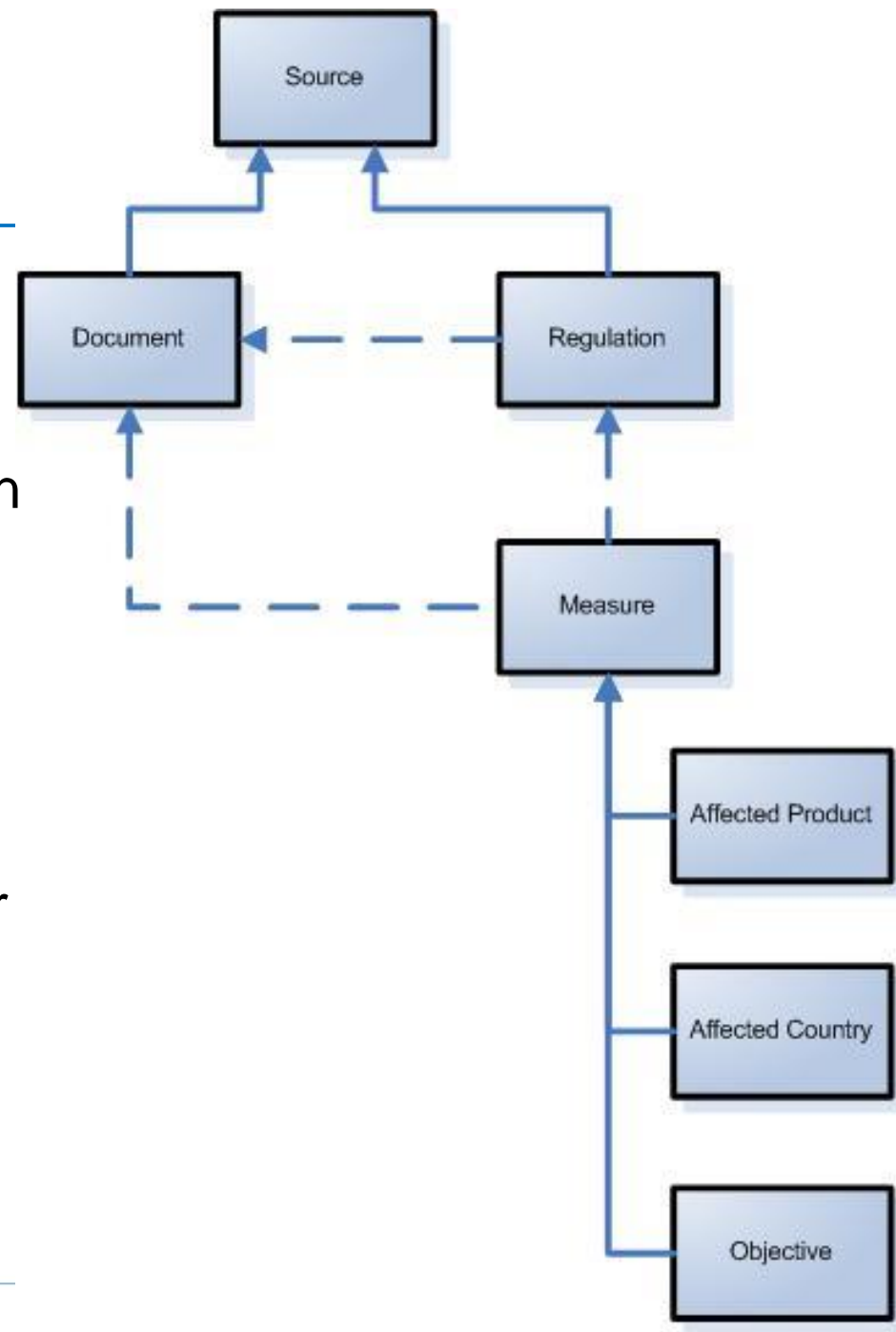
UNCTAD NTM Data Model



- **NTM Code** (NTM classification)
- **Measure Implementation Date**
- Measure Repeal Date
- **Measure Description**
Description of the measure in the regulation
- **Measure Reference**
Specific place within the regulation
- **Affected Products Description**
Description of affected products as stated in the regulation
- **Affected Regions Description**
Description of affected countries/regions as stated in the regulation
- Notes, Optional additional notes

UNCTAD NTM Data Model

- ASEAN reports discuss “how many measures” were collected in each country
- This starts from the regulation legal text
- Useful for political analysis, reviewing competencies of different ministries, how broad, which areas, etc
- COULD BE MISLEADING for statistical analysis
 - The data collection work starts from the legal texts
 - But the statistical analysis starts ONLY by the product



Example

“To better understand NTMs in the Lao PDR, NTM data were analysed in detail. It may be noted that **NTM data analysis started at the measure level**. That means regardless of a number of tariff lines affected, each registered measure is **counted as one**.

- For example, Decree on the Control of the Movement of Animals and Animal Products, number 230/GOL dated on 4th June 2012, indicates that
 - ‘To import of livestock and animal products, the **import permit** issued designated by the relevant department of the **Ministry of Agriculture and Forestry** is required’.
- This is an NTM and **classified as A14** according to UNCTAD’s February 2012 Version Classification.
- This measure **affects 913 national tariff lines**.
- **It is, however, counted as one measure.**
- The national tariff line of the Lao PDR is at 8-digit HS Code and the total number of tariff lines is 9,558.”



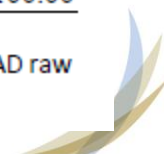
Counting measure_id, and not measures on products

Table 11.2: Types of Non-tariff Measures Imposed by Thailand

Code	NTM by Type	Number of NTMs	%
A	Sanitary and phytosanitary measures (SPS)	788	48.34
B	Technical barriers to trade (TBT)	562	34.48
C	Pre-shipment inspection and other formalities	44	2.70
D	Contingent trade protective measures	44	2.70
E	Non-automatic licensing, quotas, prohibitions, and quantity control measures other than SPS or TBT reasons	40	2.45
F	Price control measures including additional taxes and charges	21	1.29
G	Finance measures		
H	Measures affecting competition	3	0.18
I	Trade-related investment measures		
J	Distribution restrictions		
K	Restrictions on post-sales services		
L	Subsidies (excluding export subsidies under P7)		
M	Government procurement restrictions		
N	Intellectual property		
O	Rules of origin		
P	Export-related measures	128	7.85
	Total coded NTMs	1630	100.00

Notes: J to O types of NTMs are not collected in this project.

Source: Authors' calculation based on the newly constructed 2015 NTM database ASEAN-ERIA-UNCTAD raw data.

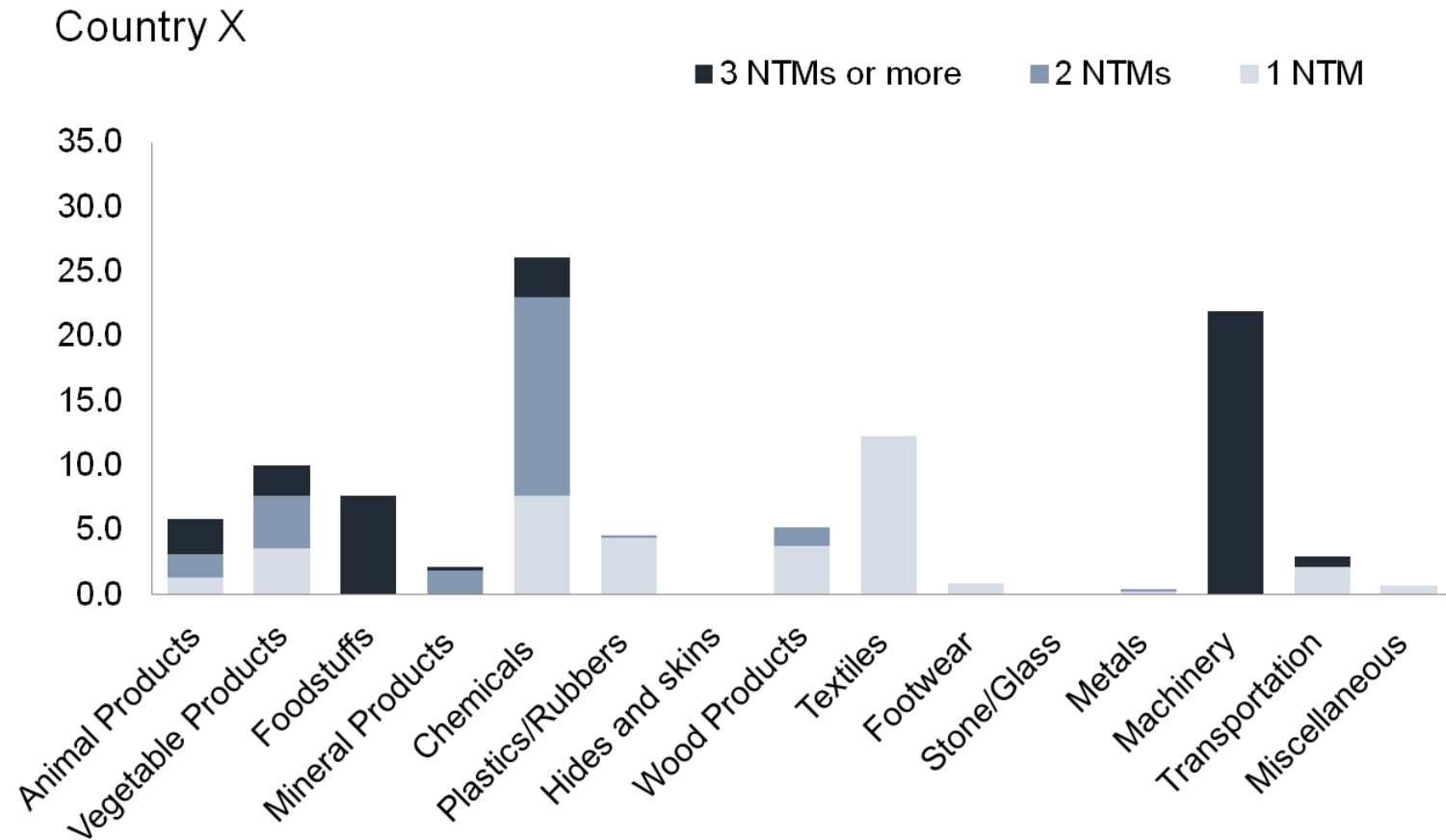


“NTM by source/issuing institution”, the same as mentioned above

No	Issuing Institution	Number of NTMs	% of total number of NTMs
1	Ministry of Trade		
2	Ministry of Agriculture		
3	Ministry of Health		
4			
5			
6			
7			
8			
9			
10			
11	The rest institutions		
	Total		

* The NTM issuing institutions can be varied in every country, the mentioned 3 ministries are just an example. Please mention the top 10 institutions that issue the highest number of NTM-related regulations, then the rest of institutions are classified as ‘the rest’ institutions (No. 11)

This is not 'Percentage of NTM by product', but % OF PRODUCTS WITH 3 OR + MEASURES

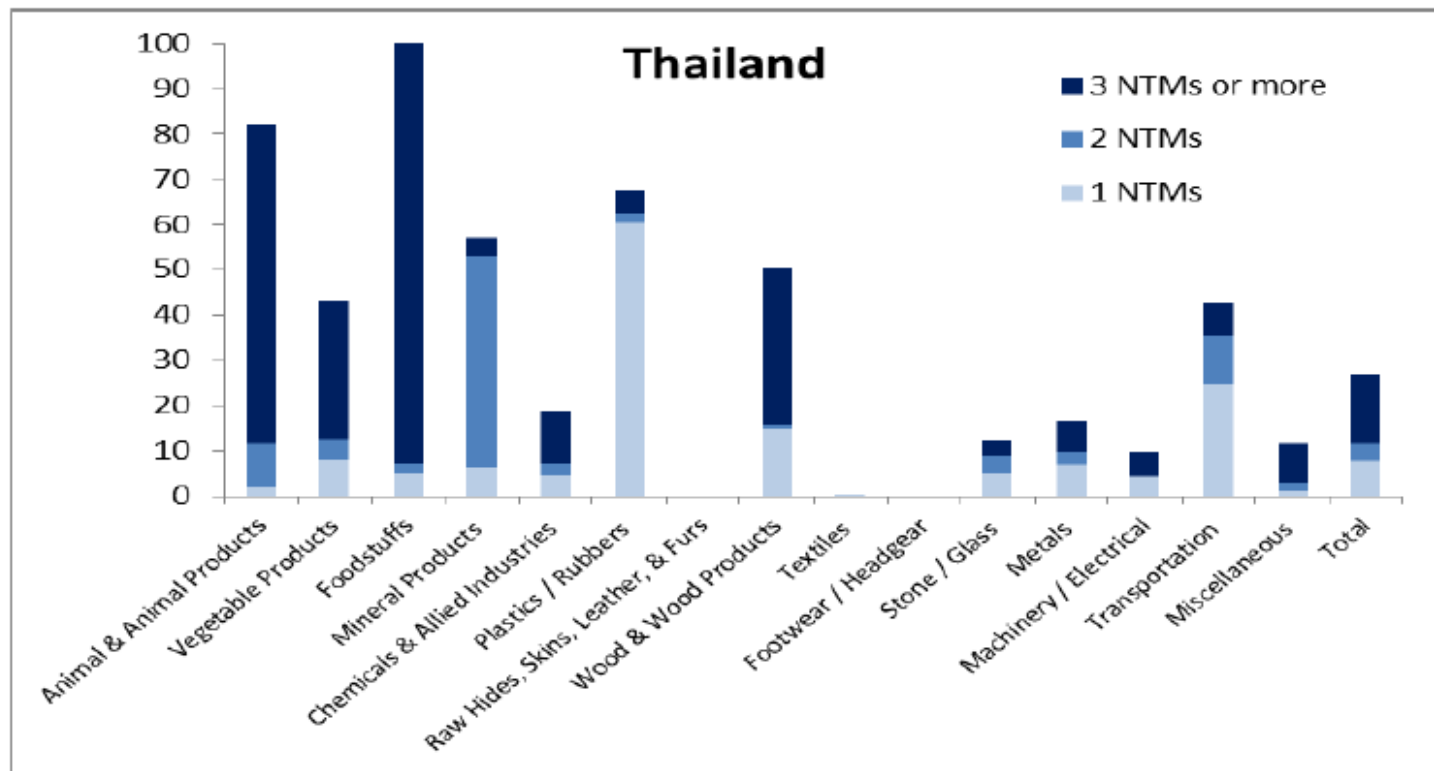


Correctly named: this is nbr of products, not nbr of measures

TDRI

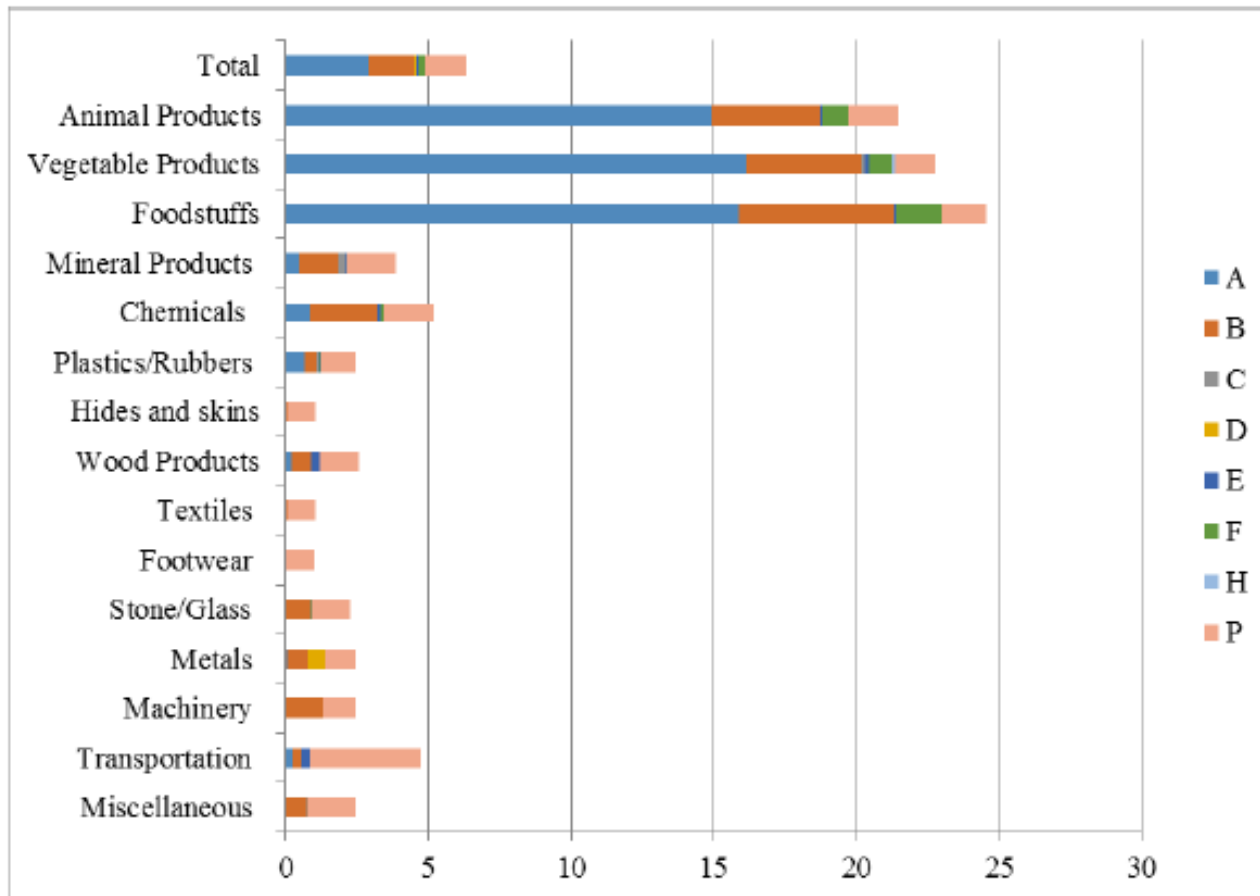
Percentage of product (of each product group) affected one or more NTMs.

- Compared to previous study based on ASEAN secretary database, we found higher “**incidence**” and more “**depth**” of NTMs in many sectors e.g. in Animal products, Vegetable products, Foodstuff, Wood product and Transportation.



This is average number of measures on any product in a certain group

Figure 11.4: Intensity of Non-tariff Measures: Average Number of Non-tariff Measures per Tariff Line for Each Product Group



Source: Authors' calculation based on the newly constructed 2015 NTM database ASEAN-ERIA-UNCTAD raw data.

-
- Data collection starts from reading regulations,
 - data analysis starts from the products affected
 - to see how many,
 - or which ones, are affected,
 - by which measures and/or
 - by how many of them.




WITS website

<http://wits.worldbank.org/wits/>

World Integrated Trade Solution

wits.worldbank.org

**WITS**
World Integrated Trade Solution

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Custom QueryShare

INTRODUCTION

The World Integrated Trade Solution (WITS) software provides access to international merchandise trade, tariff and non-tariff measures (NTM) data. Browse the country profile and related pages to view trade (exports and imports with countries and by product groups), tariff (Effectively Applied and MFN) and relevant development data like Trade as percentage of GDP and others. Register and log in to WITS to perform custom analysis, using standard and derived product classifications. WITS also features built-in analytical tools that help assess the impact of tariff cuts. Use the Trade Outcomes module to assess trade competitiveness of countries by calculating and visualizing trade indicators [Read More](#).









WITS CUSTOM QUERY

To execute custom queries registration is necessary.

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SUPPORT LINKS

- Glossary
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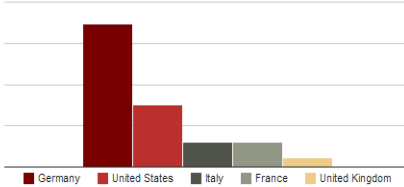
MY COUNTRY: Switzerland 2012 VIEW DETAILED DATA FOR THIS COUNTRY

Trade Summary

Import (US\$ Mil)	197,787
Export (US\$ Mil)	225,949
Weighted Average Tariff (%)	...
Trade (% of GDP)	94.16
GDP (current US\$ Mil)	631,000

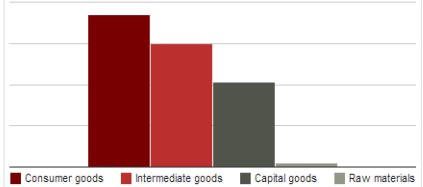
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Export Partners



Country	Export (US\$ Mil)
Germany	~180,000
United States	~100,000
Italy	~50,000
France	~40,000
United Kingdom	~20,000

Exports by Product Groups



Product Group	Export (US\$ Mil)
Consumer goods	~180,000
Intermediate goods	~100,000
Capital goods	~50,000
Raw materials	~20,000

WORLD AT A GLANCE

Top Importers 2012

Country	Trade (US\$ Mil)	Share %
United States	2,028,202	11.83
China	1,391,648	8.12
Germany	1,061,773	6.19
Japan	664,999	3.88
United Kingdom	644,221	3.76

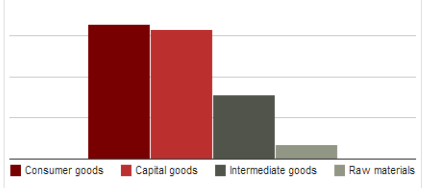
[View All >](#)

Top Exporters 2012

Country	Trade (US\$ Mil)	Share %
China	2,260,298	12.90
United States	1,438,335	8.21
Germany	1,298,071	7.41
Japan	867,318	4.95
France	550,992	3.15

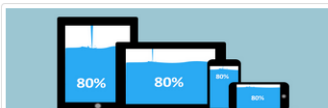
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Exports by Product Groups 2012



Product Group	Export (US\$ Mil)
Consumer goods	~180,000
Capital goods	~100,000
Intermediate goods	~50,000
Raw materials	~20,000

FEATURED



RELATED LINKS

[view all](#)


- Transparency in Trade
- United Nations - Conference on Trade and Development - TRAINS
- World Bank - Temporary Trade Barriers Database
- World Bank Trade Post (Trade Blogs)
- United Nations - Statistics Division - Comtrade

Desktop FR 11:53

How to access data



<http://wits.worldbank.org/wits/>

Change Password Logout

Quick Search ▾

UN COMTRADE By Product

UN COMTRADE By Country Period

Tariff - Find A Tariff

Tariff - View And Export Raw Data

NTM - View and Export Raw Data

Trade - View and Export Tariff-line Imports

Ad valorem equivalents (AVEs) of specific tariffs using different methodologies

Advanced Query ▾

Tariff and Trade Simulations ▾

Results ▾

Utilities ▾

Support Materials ▾






help users find trade values and quantities for products on various nomenclatures; find tariff rates for products in different markets based on various are tariffs across markets; analyze protection levels for countries and products over time; compare scenarios of changes to applied or bound tariffs; of various market access conditions. List of available data include:

- Trade values and quantities from UNSD's COMTRADE database
- Tariff simulations
- Predefined country and product groups (various product nomenclatures: HS, SITC, ISIC, CPC, GTAP etc)

What is new:

- Offline tool
- Tariff Bulk download
- Tariff Indicators module
- Discussion Forum

HomeAboutContactUsage ConditionsLegalData Providers



NTM - View and Export Raw Data

Home > Quick Search > NTM - View and Export Raw Data

NTM - View and Export Raw Data

This option provides you with primary information on non-tariff measures (NTMs), collected and classified by UNCTAD and stored in its TRAINS database. For a given country and year, you can download the entire raw data on NTMs for that country/year, or filter the data by affected products, type of NTMs (according to the NTM Classification category). The information includes HS code for the affected products, NTM code (4-alpha-numeric code of the NTM Classification), source of information, date of entry into force. Where available, it provides detailed information in the affected products and specific description of the measure. [More details...](#)

A detailed inventory by country of available non-tariff measures can be [download here](#)

Reporter :

Year :

NTM Measures :

- ALL - All NTB Measure Codes
- A - Sanitary and phytosanitary measures
- B - Technical barriers to trade
- C - Pre-shipment inspection and other formalities
- D - Contingent trade protective measures
- E - Non-automatic licensing, quotas, prohibitions and quantity control measures other than for SPS or TBT reasons
- F - Price control measures including additional taxes and charges

Selected NTM Measures :

ALL - All NTB Measure Codes

Added 1 NTM Measure(s)

Search based on level of aggregation

Tier :

OR

Products :

- All Products
- 01 -- LIVE ANIMALS
- 02 -- MEAT AND EDIBLE MEAT OFFAL
- 03 -- FISH AND CRUSTACEANS, MOLLUSCS AND
- 04 -- DAIRY PRODUCE; BIRDS' EGGS; NATURAL
- 05 -- PRODUCTS OF ANIMAL ORIGIN, NOT ELSE
- 06 -- LIVE TREES AND OTHER PLANTS; BULBS, I
- 07 -- EDIBLE VEGETABLES AND CERTAIN ROOTS

Selected Products :

Select which product/s

Always shows most detailed product level, does not aggregate

NTM - View and Export R... x

← → ↻ wits.worldbank.org/WITS/WITS/QuickQuery/NTMs/NTMsQuickQuery.aspx?Page=NTMs

Apps Mathletics - Spellodr... Gravity Cookbook w... Thierry Mayer's web... Hf Cabellos virtuales - ... La Châtaig

F - Price control measures including additional

WITS - Report Columns Selection

Select Report Columns

Available Columns

- OriginalID
- MeasureDescription
- Regulation
- RegulationURL
- Agency
- Source
- NomenCode
- YearProductClassification
- ProductCode
- PartialCoverage
- AffectedProductsDescription
- Partner
- AffectedRegionsDescription
- StartDate
- EndDate

>>

>

<

<<

Selected Columns

- NTMNomenclature
- ReporterISON
- ReporterName
- Year
- NTMCode
- MeasureID
- NomenCode
- ProductCode
- PartialCoverage
- Partner

Up

Down

Proceed Cancel

Key simple questions on NTM that we can (now) start to answer

- What are the measures that countries impose?
 - Legal mandatory requirements, all trade-control regulations
- What measures are applied to a particular product?
- How many of my importing products have to comply with an NTM?
- What share of my imports (in value) have to comply with an NTM?
- What are the most typical measures in my country?



Incidence measures, inventory approach

- Frequency index

$$F_j = \frac{\sum D_i M_{ij}}{\sum M_i}$$

How many of my
importing products have
to comply with an NTM?

- Coverage ratio

$$C_j = \frac{\sum D_i V_{ij}}{\sum V_i}$$

What share of my
imports (in value) have
to comply with an NTM?

- Intensity (prevalence score?), or frequency count

+ What are the most typical
measures in my country?

+ How many regulations do
food products have?



Some data. América Latina

- Frequency index

	ARG	BOL	BRA	CHL	COL	CUB	ECU	MEX	PER	PRY	URY	VEN
No NTM	17%	75%	38%	44%	30%	7%	54%	40%	67%	72%	50%	12%
With NTM	83%	25%	62%	56%	70%	93%	46%	60%	33%	28%	50%	88%
Total Nbr. Of HS6	5,461	5,461	5,461	5,461	5,461	5,461	5,461	5,461	5,461	5,461	5,461	5,461

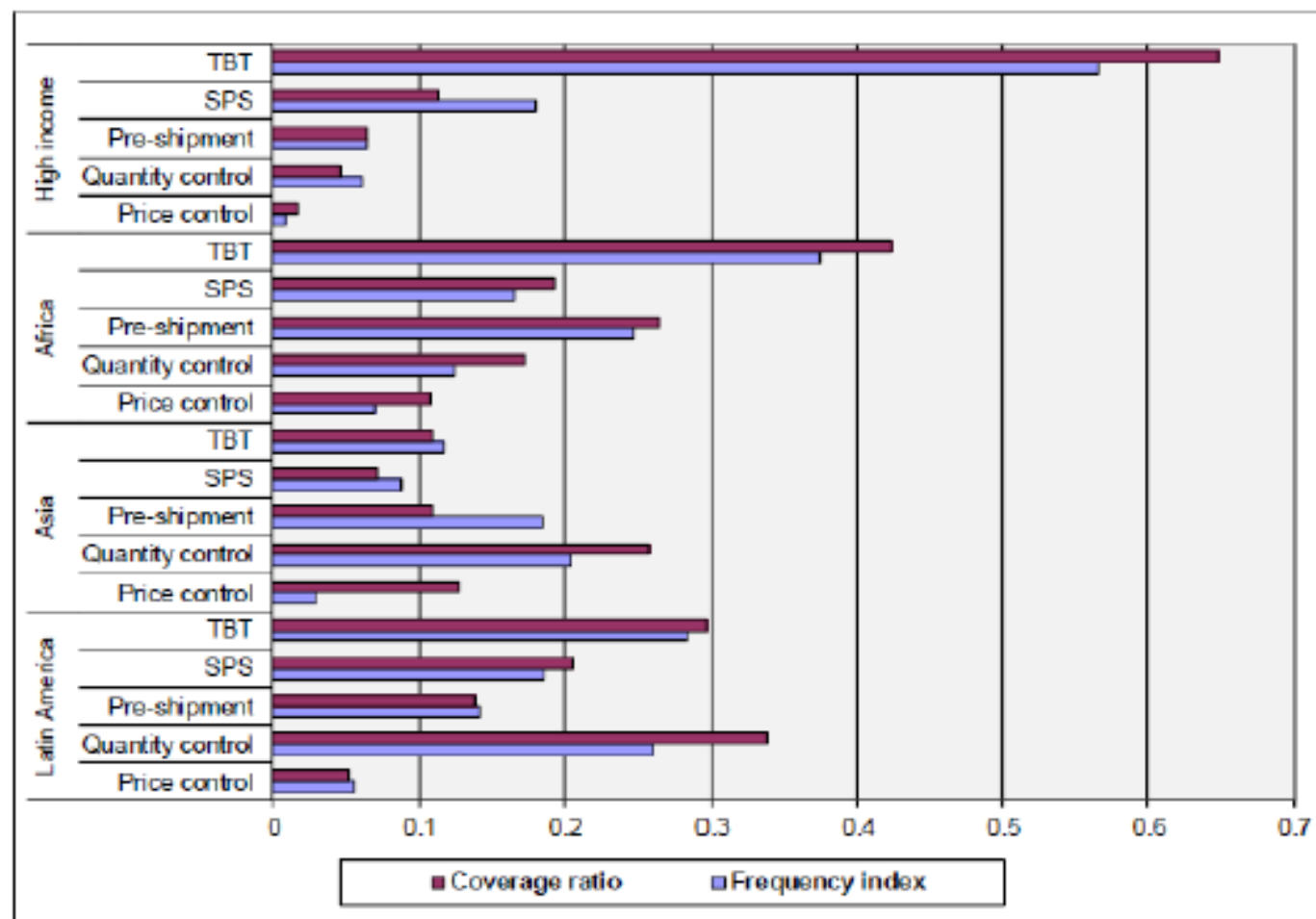
Coverage Ratio

	ARG	BOL	BRA	CHL	COL	CUB	ECU	MEX	PER	PRY	URY
Ratio	92%	44%	72%	46%	88%		57%	65%	43%	41%	66%



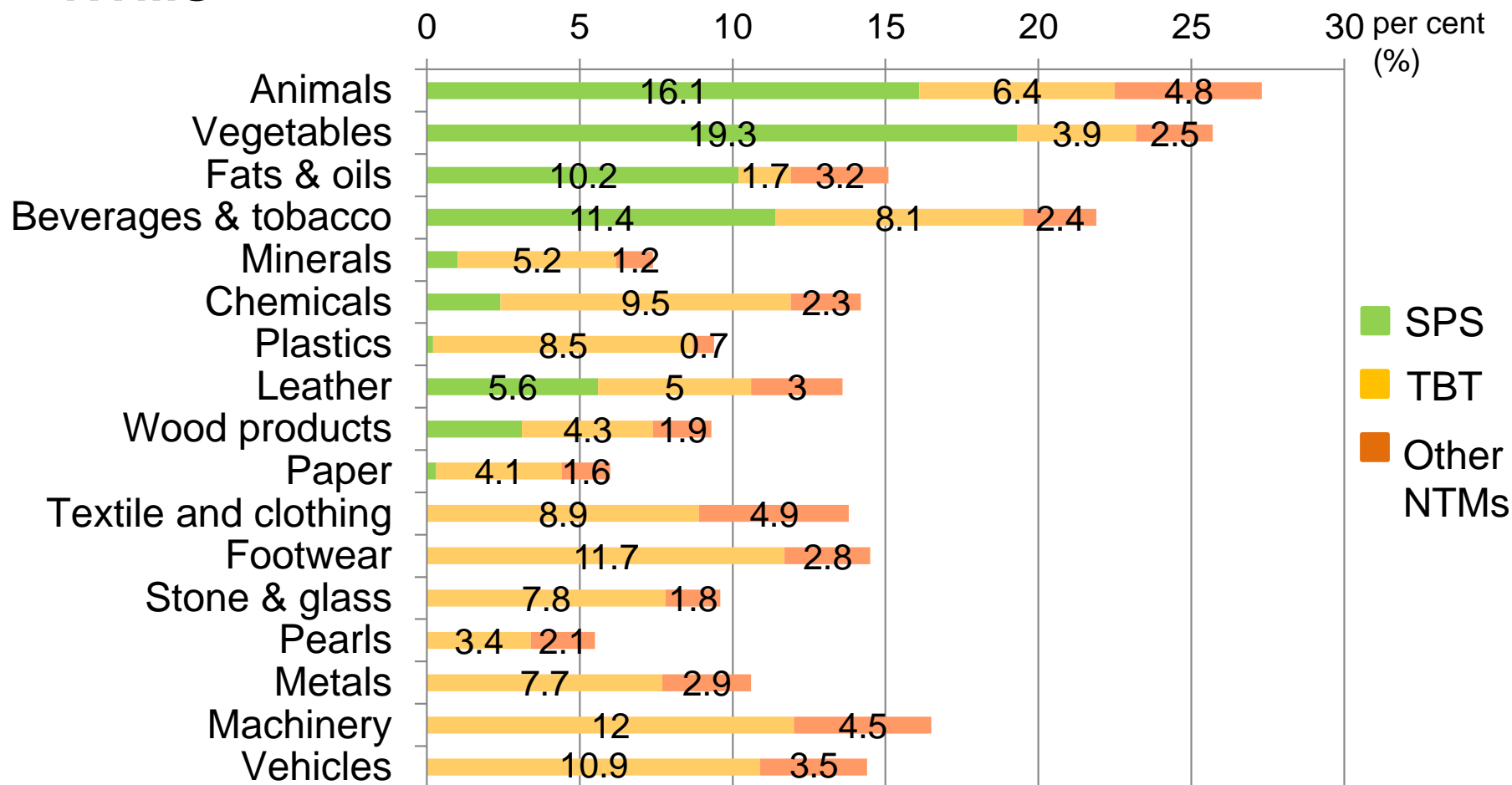
Inventory approach: Illustrations (cont')

Frequency index & coverage ratio, by NTM category & region (2010)



Based on data collected through TNT initiative. Source: Nicita & Gourdon (2013)

WORLD AVERAGE AD-VALOREM EQUIVALENT OF NTMS



Not included: subsidies/domestic support and export restrictions

Source: UNCTAD 2015

UNITED NATIONS CONFERENCE ON TRADE AND DEVELOPMENT

UNCTAD



NTM from WITS - Mock exercise

- Excel small example

Table 1, part 1. Appearance of variables at HS6 digit level, NTM data combined with imports value						
	Exporter	HS6	Trade Value ('000)	NTM code	Legal Regulation Code	Region affected by Measure
1	PAN	280110		A14	Reg 1	World
2	PAN	280110		A49	Reg 1	World
3	PAN	280110		A84	Reg 1	World
4	PAN	280110		B4	Reg 2	World
5	PAN	280110		B9	Reg 2	World
1	PER	280110	179.6	A14	Reg 1	World
2	PER	280110	179.6	A49	Reg 1	World
3	PER	280110	179.6	A84	Reg 1	World
4	PER	280110	179.6	B4	Reg 2	World
5	PER	280110	179.6	B9	Reg 2	World
1	PRY	280110	128.3	A14	Reg 1	World
2	PRY	280110	128.3	A49	Reg 1	World
3	PRY	280110	128.3	A84	Reg 1	World
4	PRY	280110	128.3	B4	Reg 2	World
5	PRY	280110	128.3	B9	Reg 2	World

NTM from WITS - exercise

- Download one country , e.g. Viet Nam
- We need to merge with trade data,
 - We download Viet Nam exports it from WITS



Trade data - choose COMTRADE database

- Reporter

The screenshot displays the WITS website interface. The main navigation bar includes links for Quick Search, Advanced Query, Tariff and Trade Simulations, Results, Utilities, and Support Materials. The 'Advanced Query' section is active, showing a 'Trade Data (UN Comtrade)' query. The 'Query Name' is set to 'CLMV'. Below this, there are dropdown menus for 'Reporters', 'Products', 'Partners', 'Years', and 'Trade Flow', all currently set to '<<Select-->'. A 'Submit' button is visible at the bottom of the query form.

A 'Country List' dialog box is open, titled 'Select Reporters'. It contains a list of countries with their ISO codes, including Israel -- ISR, Italy -- ITA, Jamaica -- JAM, Japan -- JPN, Jordan -- JOR, Kazakhstan -- KAZ, Kenya -- KEN, Kiribati -- KIR, Korea, Rep. -- KOR, Kuwait -- KWT, Kyrgyz Republic -- KGZ, and Lao PDR -- LAO. The 'Lao PDR -- LAO' entry is selected. To the right of the list, the text 'Cambodia -- KHM' is displayed. Below the list, there are sections for 'Predefined Country Groups' and 'My Country Groups'. At the bottom of the dialog, there is a checkbox for 'Include Country Group Breakdown' and buttons for 'Remove', 'Remove All', 'Proceed', and 'Cancel'.

The Windows taskbar at the bottom shows several open files, including '980783_15A2229A-7.zip', '980767_5CBC4492-2.zip', '980763_B621BF08-5.zip', '980754_825A7D12-2.zip', '980716_1D6118EB-1.zip', '980713_00534F48-A.zip', '980711_783CAC79-1.zip', and '980707_FD504A94-1.zip'. The system clock indicates the time is 5:28 PM.

Trade data

- Products

The screenshot displays the WITS Trade Data Query interface within a web browser. The browser's address bar shows the URL: `wits.worldbank.org/WITS/WITS/AdvanceQuery/RawTradeData/QueryDefinitionSelection.aspx?Page=RawTradeData&querytoken=698973&selection=Existing`. The page title is "Product List".

Select Products/Product Groups

You can use the product search box to find a specific product. You can also select from one or several products by choosing desired nomenclature. Once you choose your nomenclature, you can select products based on their (a) aggregation level (one-digit codes, 2-digit codes, etc.); (b) Product list which contains all products and sub-products; (c) Standard Product Groups which are pre-defined aggregates; and (d) Product Groups which are your own customized product aggregates. Please note that you can select from one or all these options.

Product Search

Enter a product for search

Nomenclature

HS 2012

Use Reported Nomenclature

- Select Reported Nomenclature -

Search based on level of aggregation

Select from product tree

Clusters

- ALL1 -- Chapter (all 2-digit HS codes)
- ALL2 -- Heading (all 4-digit HS codes)
- ALL3 -- Sub-Heading (all 6-digit HS codes)

Standard product Groups

My Product Groups

Trade data

- Products

The screenshot displays the WITS Trade Data Query interface in a web browser. The page title is "WITS - Trade Data Query". The URL is wits.worldbank.org/WITS/AdvanceQuery/RawTradeData/QueryDefinitionSelection.aspx?Page=RawTradeData&querytoken=698973&selection=New. The page is titled "Product List".

Select Products/Product Groups
You can use the product search box to find a specific product. You can also select from one or several products by choosing desired nomenclature. Once you choose your nomenclature, you can select products based on their (a) aggregation level (one-digit codes, 2-digit codes, etc.); (b) Product list which contains all products and sub-products; (c) Standard Product Groups which are pre-defined aggregates; and (d) Product Groups which are your own customized product aggregates. Please note that you can select from one or all these options.

Product Search
Enter a product for search
Nomenclature
HS 2012
Use Reported Nomenclature
- Select Reported Nomenclature -

Search based on level of aggregation
Total Trade

Select from product tree
Total Trade
01 -- LIVE ANIMALS
02 -- MEAT AND EDIBLE MEAT OFFAL
03 -- FISH AND CRUSTACEANS, MOLLUSCS AND OTHER A
04 -- DAIRY PRODUCE; BIRDS' EGGS; NATURAL HONEY; I
05 -- PRODUCTS OF ANIMAL ORIGIN, NOT ELSEWHERE S
06 -- LIVE TREES AND OTHER PLANTS; BULBS, ROOTS A
07 -- EDIBLE VEGETABLES AND CERTAIN ROOTS AND TU
08 -- EDIBLE FRUIT AND NUTS; PEEL OF CITRUS FRUIT C
09 -- COFFEE, TEA, MATÉ AND SPICES
10 -- CEREAIS

Clusters
Standard product Groups
My Product Groups

Trade data

- Partner

The screenshot displays the WITS (World Integrated Trade Solution) web application interface. The main window shows the 'Trade Data (UN Comtrade)' section with a 'Query Name' field set to 'CLMV'. Below this, there are sections for 'Reporters' (Cambodia -- KHM, Lao PDR -- LAO, Myanmar -- MMR, Vietnam -- VNM), 'Products' (HS 2012 (Selected Classification) Total Trade), 'Partners' (<<-Select->), 'Years' (<<-Select->), and 'Trade Flow' (<<-Select->). A 'Country List' dialog box is open, titled 'Select Partners'. It contains the following text: 'Select partner Countries from the Country List, Predefined Country Groups, and/or "My Country Groups". The latter option contains your customized country groups. You can also use "Include Country Group Breakdown" to get results for country components of country group aggregates.' The dialog box has three main sections: 'Country List' (with a search bar), 'Predefined Country Groups' (with a list of groups like 'All countries All -- All', 'All high-income (OECD plus non-OECD countries)', 'All OECD members -- OECD', 'EU25 -- EU25 members -- EU25', 'EU27 -- EU27 members -- EU27', 'High-income OECD -- hioECD', 'Least Developed Countries -- LDC', 'Low & Middle income East Asian & Pacific countries', 'Low and middle income economies -- lmincome', 'Low and Middle Income Europe -- LDCEurope', 'Low and Middle Income Latin America and Caribbean', and 'Low and Middle income Middle East and North Africa'), and 'My Country Groups' (with a search bar). There is a checkbox for 'Include Country Group Breakdown' and buttons for 'Remove', 'Remove All', 'Proceed', and 'Cancel'. The background interface includes a 'Quick Search' bar, navigation tabs (Advanced Query, Tariff and Trade Simulations, Results, Utilities, Support Materials), and a footer with links to Home, About, Contact, Usage Conditions, Legal, and Data Providers. The UN Comtrade logo is also visible in the top right corner of the main window.

Trade data

- View results

Mail - Inbox - IBM Lotus Notes

WITS - Query Result

wits.worldbank.org/WITS/WITS/Results/Queryview/QueryView.aspx?Page=DownloadandViewResults&Download=true

Apps Google Maps Imported From IE Other bookmarks

Change Password Logout

WITS

Quick Search Advanced Query Tariff and Trade Simulations Results Utilities Support Materials

Home > Results > Download and View Results

Download and View Results

This option allows you to check the status of your submitted queries including simulations, view results, add/remove indicators from your results, and download the data. [More details...](#)

View and Request Download Download Data

ID	Query/Simulation Name	View	Chart	Download	Delete	Log	Status	Source	Date
958684	CLMV						Completed	UN COMTRADE	6/3/2016 11:36:00 AM

Home About Contact Usage Conditions Legal Data Providers

980783_15A2229A-7.zip 980767_5CBC4492-2.zip 980763_B6218F08-5.zip 980754_825A7D12-2.zip 980716_1D6118E8-1.zip 980713_00534F48-A.zip 980711_783CAC79-1.zip 980707_FD504A94-1.zip Show all downloads...

EN 5:46 PM

Trade data

- Download data

WITS - Query Result

wits.worldbank.org/WITS/WITS/Results/Queryview/QueryView.aspx?Page=DownloadandViewResults&Download=true

Change Password Logout

Quick Search Advanced Query Tariff and Trade Simulations Results Utilities Support Materials

Home > Results > Download and View Results

Download and View Results

Once you choose the download option from "Download and View Results screen", you can click on "Download Data" tab to check the status and save results on your desktop. More details...

View and Request Download Download Data

ID	Query/Simulation Name	Save	Delete	Status	Source	Date	File Size	Total Rows
980838	CLMV				UN COMTRADE	6/3/2016 11:45:53 AM	5	282
980783	ntmcambodia				Revised NTB report	6/3/2016 11:00:22 AM	848	138,577
980767	ntmcambodia				Revised NTB report	6/3/2016 10:52:25 AM	1,276	138,577
980763	ntmescap				Revised NTB report	6/3/2016 10:46:50 AM	478	53,716
980754	ntmescap				Revised NTB report	6/3/2016 10:38:59 AM	1,276	138,577
980716	ntmescap				Revised NTB report	6/3/2016 10:00:51 AM	568	68,246
980713	ntmescap				Revised NTB report	6/3/2016 9:54:07 AM	1,276	138,577
980711	ntmescap				Revised NTB report	6/3/2016 9:53:05 AM	367	41,806
980707	ntmescap				Revised NTB report	6/3/2016 9:51:07 AM	1,159	150,740
974427	ilit				UN COMTRADE	5/22/2016 9:20:10 AM	17,636	1,915,893
974418	ilit				UN COMTRADE	5/22/2016 8:21:28 AM	16,614	1,602,460
974417	ilit				UN COMTRADE	5/22/2016 8:20:08 AM	19,285	2,355,257
972883	wineEU				Revised NTB report	5/20/2016 6:16:37 AM	25	2,222

Home About Contact Usage Conditions Legal Data Providers

980783_15A2229A-7.zip 980767_5CBC4492-2.zip 980763_B6218F08-5.zip 980754_825A7D12-2.zip 980716_1D6118E8-1.zip 980713_00534F48-A.zip 980711_783CAC79-1.zip 980707_FD504A94-1.zip Show all downloads

NTM from WITS – preparing for exercise

- Problems encountered
 - NTM data is at 8 digits for products
 - Trade data from WITS is HS6
 - So we need to turn NTM data into 6 digits to combine both datasets



Incidence measures, inventory approach

First descriptive analysis

- Frequency index

$$F_j = \frac{\sum D_i M_{ij}}{\sum M_i}$$

How many of my
importing products have
to comply with an NTM?

1. “Marking” those HS categories with a binary variable
 - equal to one for those that have NTMs and
 - zero otherwise.
2. Counting how many products are signaled with a 1
3. Relate to the total number of products
 - Existing products (for all countries in the World), **or**
 - Only those in the export basket of the country
4. This gives a coverage ratio of 32.35 per cent in our example (31.28% + 1.07 %). The same calculation can be carried out for a country’s entire trade, producing a summary measure of the incidence of NTMs.



Incidence measures, inventory approach

- Coverage ratio
$$C_j = \frac{\sum D_i V_{ij}}{\sum V_i}$$

What share of my imports (in value) have to comply with an NTM?
- 1. “Marking” those HS categories with a binary variable
 - equal to one for those that have NTMs and
 - zero otherwise.
- 2. Multiplying this binary variable by the import share of each category and taking the sum.
- 3. Relate to the total import value of the ‘affected products’ to
 - total import value
 - (at bilateral level?)
- 4. This gives a coverage ratio of 32.35 per cent in our example (31.28% + 1.07 %). The same calculation can be carried out for a country’s entire trade, producing a summary measure of the incidence of NTMs.



Incidence measures, inventory approach

- Frequency index

$$F_j = \frac{\sum D_i M_{ij}}{\sum M_i}$$

How many of my
importing products have
to comply with an NTM?

- Coverage ratio

$$C_j = \frac{\sum D_i V_{ij}}{\sum V_i}$$

What share of my
imports (in value) have
to comply with an NTM?

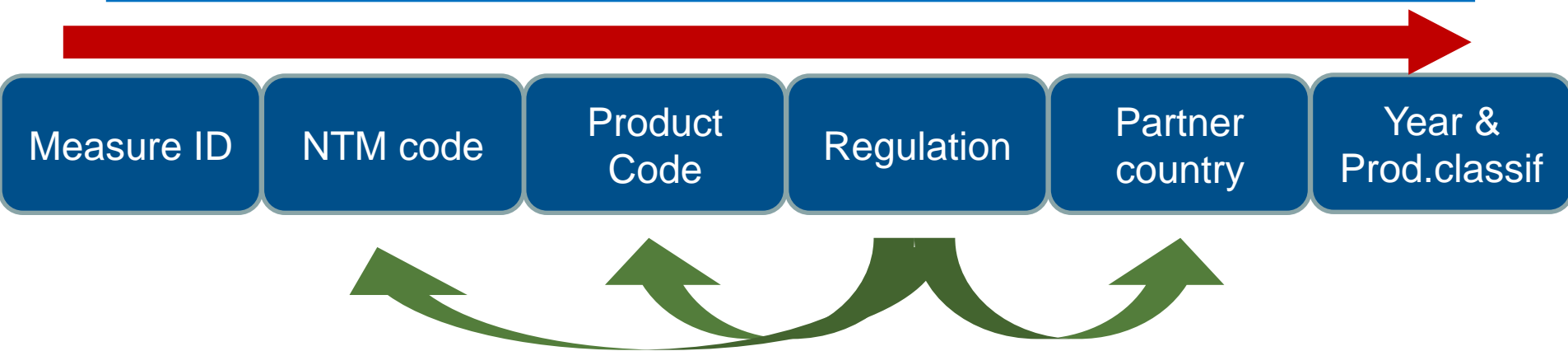
- Intensity (prevalence score?), or frequency count

+ What are the most typical
measures in my country?

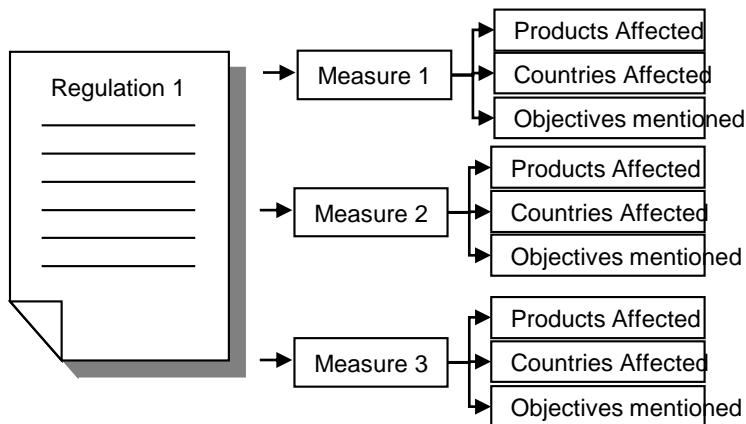
+ How many regulations do
food products have?



NTM database structure



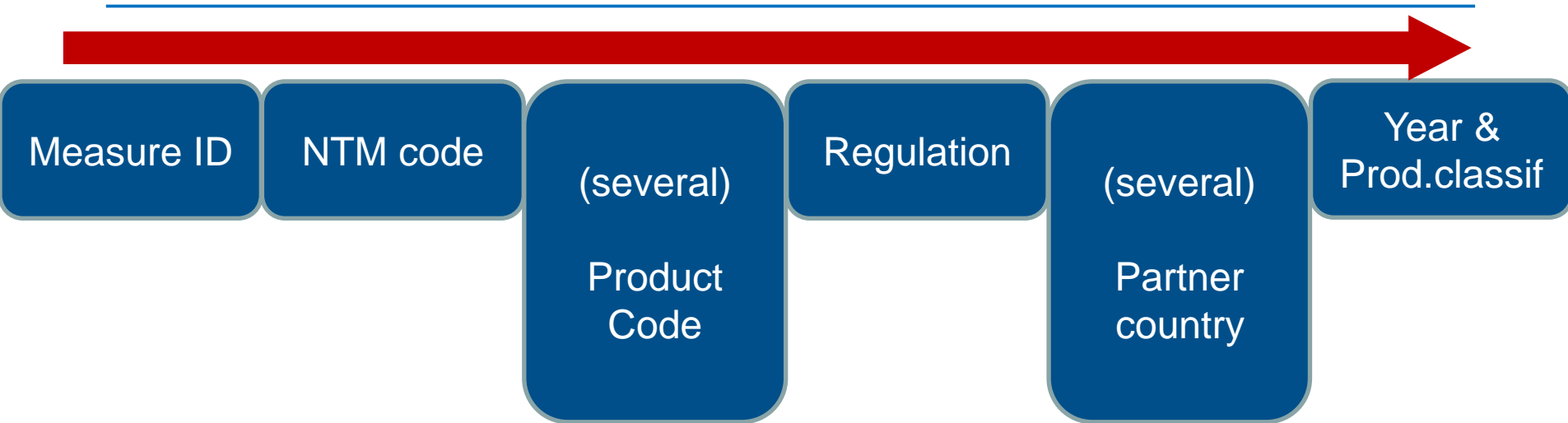
Remember :



- Each 'measure' in the regulation will have a different ID
- And each NTM affects the same (or different) group of products

This means we will find “duplications”

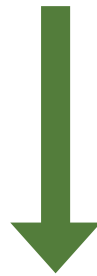
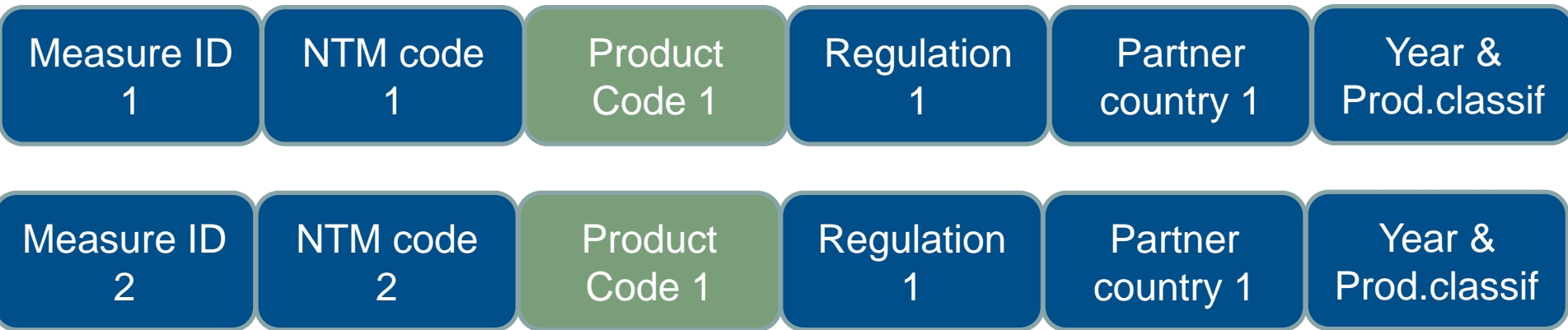
NTM database structure



- There are several products for each NTM code
- And several countries affected

This means we will find “duplications”

NTM database structure



This means we **cannot** simply **erase** all **'duplications'** to compute FreqIndex and CoverageRatio



- Each product may appear more than once in the database, with different NTM,
- But with the same value of trade

- Or the same product with different Regulation

NTM from WITS - exercise

- Any introduction needed for STATA?



WARNING

Aggregation from Tariff Line to HS6, HS4 or HS2

- There will appear several duplications.
 - Some duplications come from the aggregation itself, (a number of products at tariff line is to be replaced by just one code at HS6). All these should disappear
 - Done already
 - Need to observe and distinguish the legal origin of the measure, (2 or more legal texts mention the same NTM code on the same products)
 - These have to remain, they are taken into account with 'measure_id'
 - Also see Partial Coverage
 - On the 'original' product, at tariff line – type I
 - 'Partial' due to the aggregation (only some lines affected fully) – type II



Frequency index

Coverage ratio

- Brazil, 2014

	Calculated at HS6	Calculated at HS4	Erroneous calculation
Frequency Index	80.6%	79.6%	99.7%
Total products traded	5,617	1,234	8,790,072
Total products traded that are affected by an NTM	4,527	982	8,768,012

	Calculated at HS6	Calculated at HS4	Erroneous calculation
Coverage Ratio	87.3%	88.8%	98.4%
Total value of imports	229,054,272	229,054,272	2,102,506,240
Total value of imports that are affected by an NTM	200,054,736	203,347,456	2,069,077,120

NTM data is legal in origin

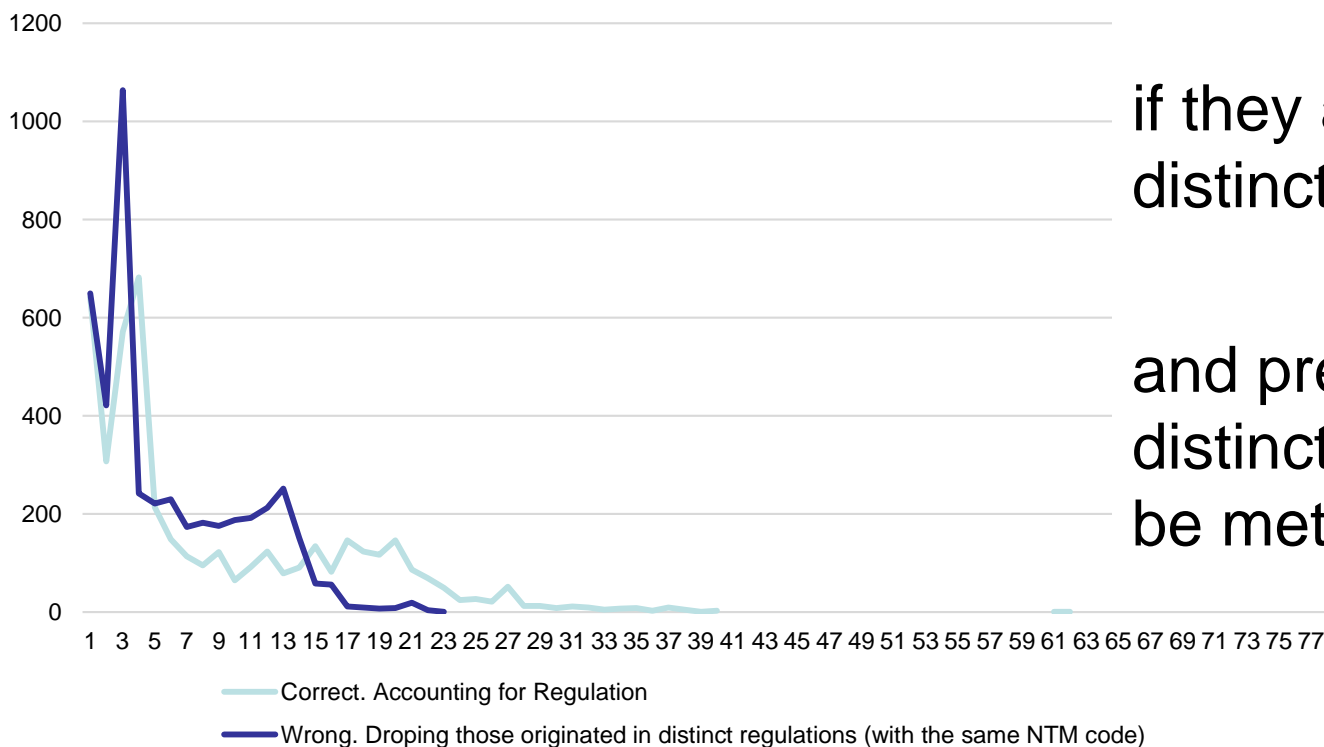
Counting of measures, not dummy any more

Two measures with the same NTM code would be counted twice

if they are set by two distinct legal texts,

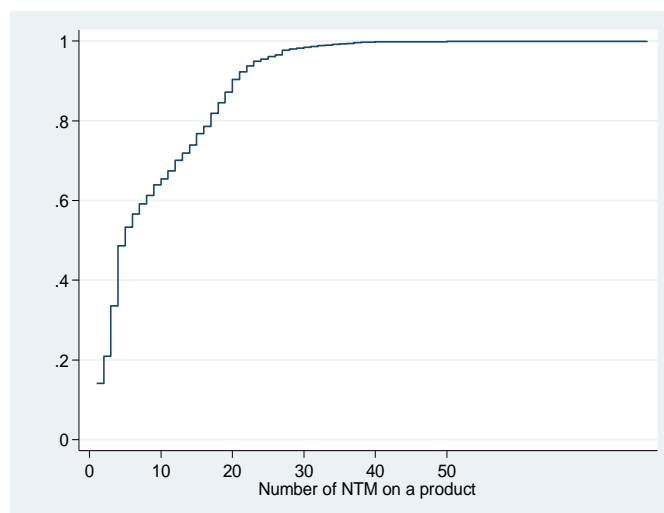
and presumably refer to distinct requirements to be met by exporters.

Number of measures (horizontal axis) applying to
number of products (vertical axis)

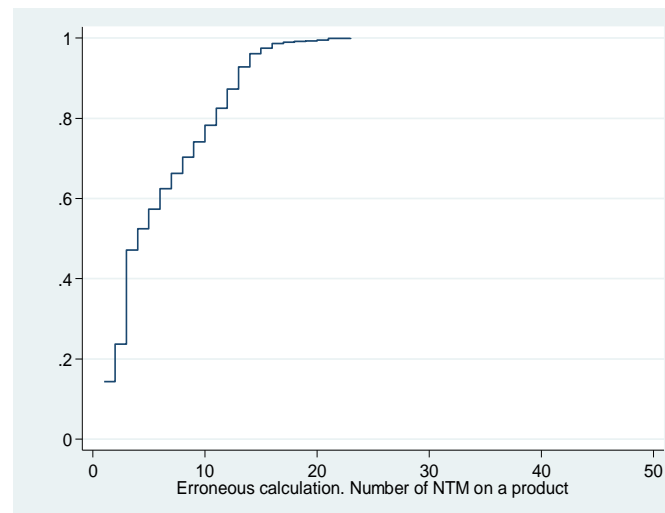


NTM data is legal in origin

Cumulative distribution function for
Frequency count of NTM for Brazil, 2014



Correct identification of Regulations

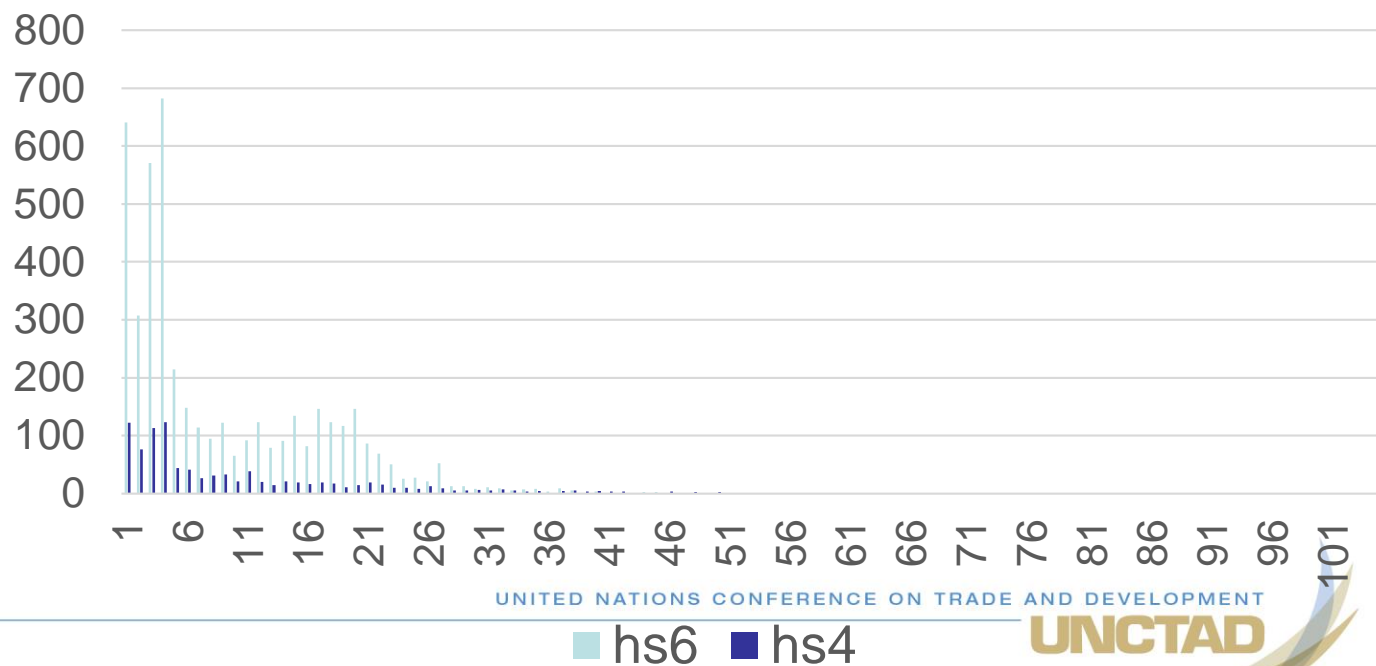


Erroneous dropping of observations when
originated in different regulations

Counting products vs. measures

1. Counting of products at HS6 level that face have distinct NTM,

Number of products in each category of number of
NTM



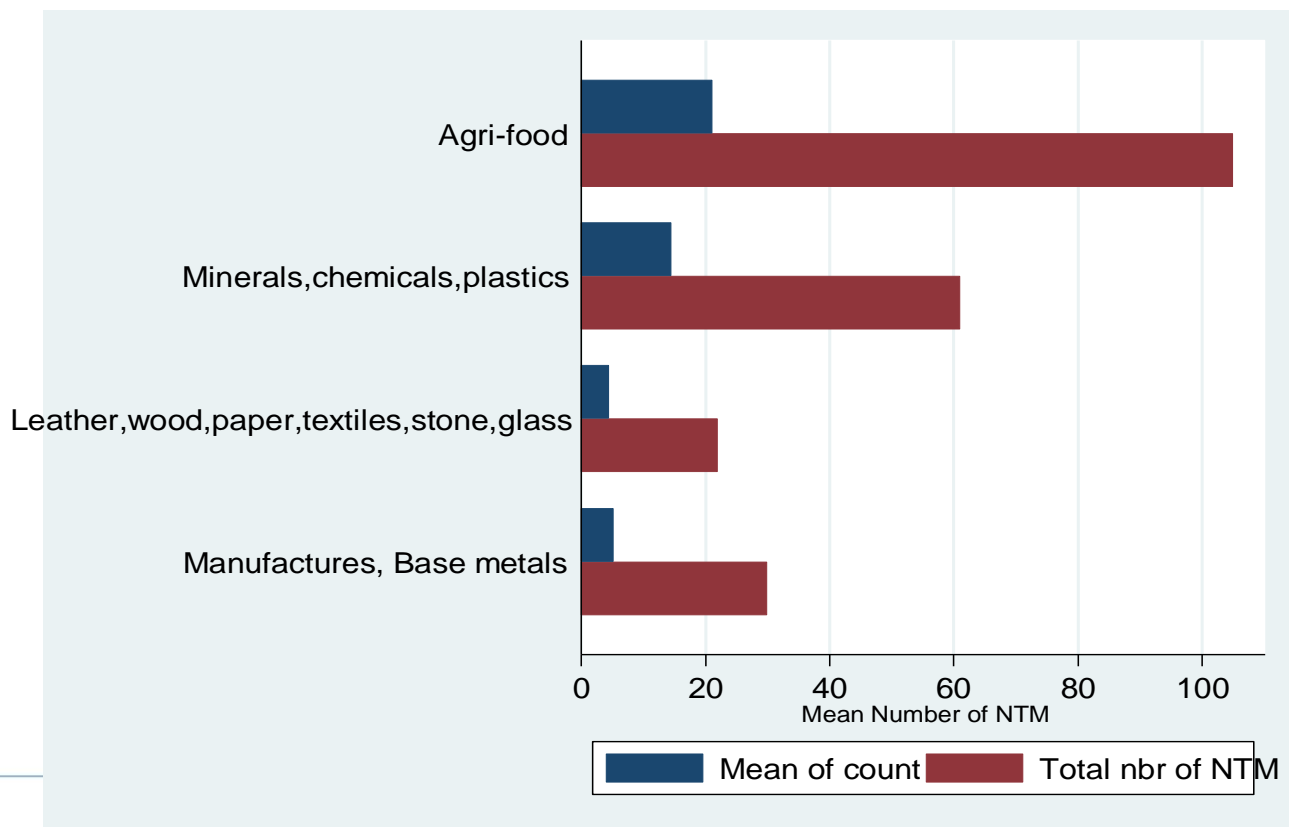
all types of measures
all sectors

Counting of Measures

Agri-food is usually one of the highest regulated sectors

How many measures does any agri-food / manufacturing product face?

- In all (the maximum for this country)
- On average

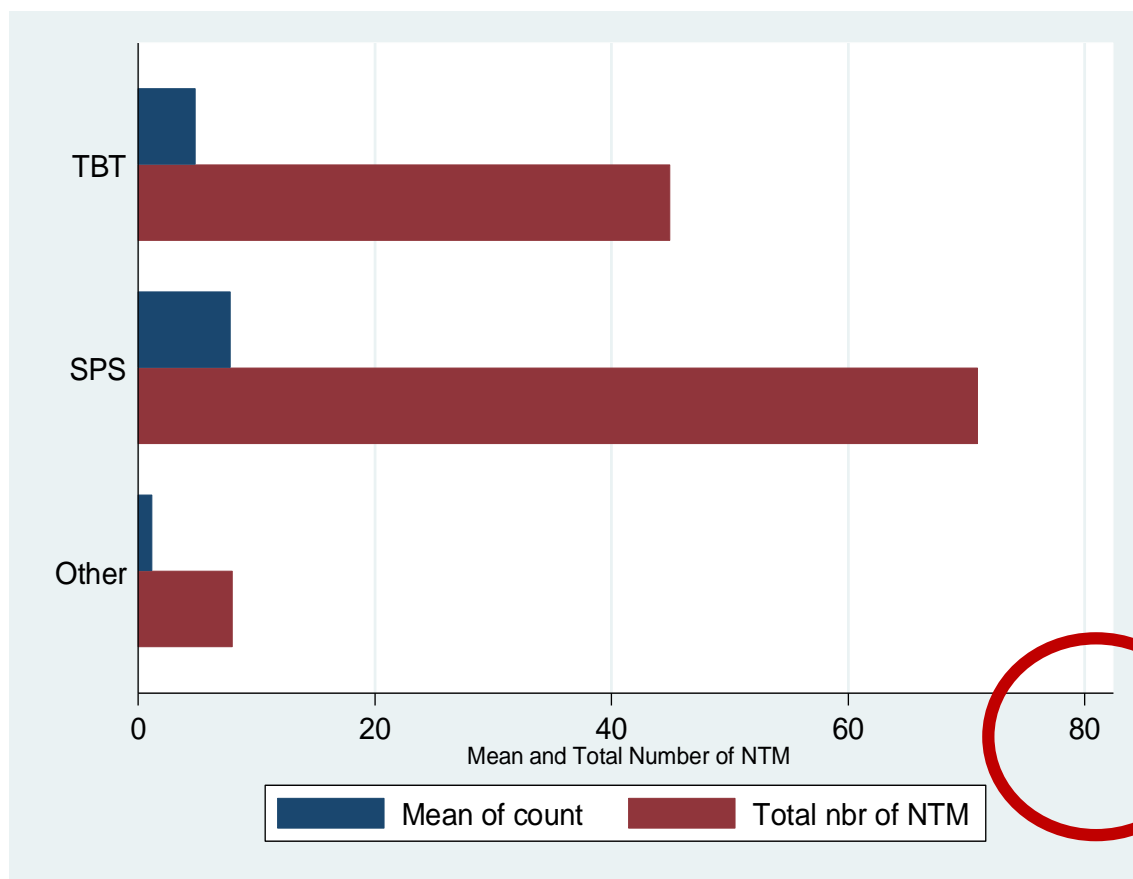


Counting of Measures

0.9 percentile

How many measures does any agri-food / manufacturing product face?

- In all (the 0.9 percentile for this country)
- On average



NTM data is bilateral

The average of the bilateral Coverage Ratio for all countries is **not equal** to the global Coverage Ratio.

While the global value is above 87%, the average of all individual bilateral values is 84% (in our recent example from Brasil)



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