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# Non-Tariff Measures and Agri-Food Trade: Assessment, Measurement, Impact

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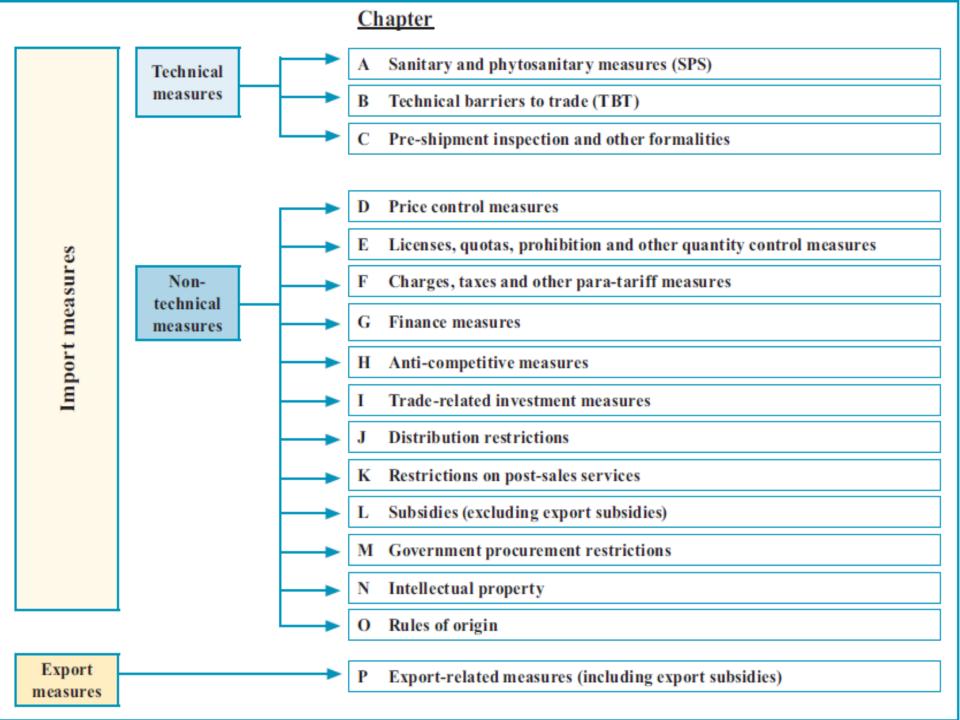
## **Background**

"Non-tariff measures (NTMs) are policy measures, other than ordinary customs tariffs, that can potentially have an economic effect on international trade in goods, changing quantities traded, or prices or both" (UNCTAD 2010)

- NTM universe is diverse and large
  - Efforts by UNCTAD (TRAINS) and WTO collects and classifies NTMs
    - TRAINS reports > 47,000 NTMS for the EU
    - WTO SPS Notifications: > 18,000 cumulative notifications (1995-2014)
- Without expert judgement or surveys of export firms it is difficult to synthesize info & discern economic importance of each measure whether justified or not





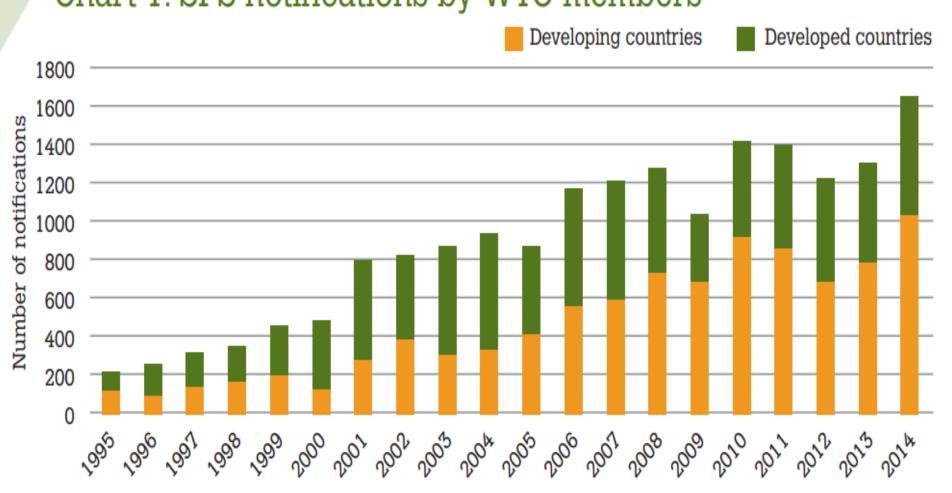




Source: WTO Secretariat, 2015

"Ensuring Safe Trading without unnecessary Restrictions"

## Chart 1: SPS notifications by WTO members





## Literature

- NTM assessments are difficult but broad-based & case-study approaches have made significant headway
  - Broad-based approach
    - Moenius (2004) (bilaterally shared standards)
    - Disdier et al. (2008) (OECD NTMs)
    - EU Commission TTIP study (Bureau et al. (2014)) (WTO Notifications)
    - NTM impact project (Orden, Beghin, Henry 2012) (index of regulatory heterogeneity)
  - Case-study approach
    - Otsuki (2001) (Aflatoxin and groundnuts)
    - Wilson and Otsuki (2004) (chlorpyrifos (insecticide) on banana);
    - Wilson et al. (2003) (drug residues)
    - Peterson and Orden (2006) (Avocados)
    - Jayasinghe, Beghin and Moschini (2009) (US Corn seed exports)
    - Xiong and Beghin (2012) (Aflatoxins revisited);
    - Peterson et al. (2008); Grant et al. (2015) (phytosanitary issues & fruits and vegetables)



## **Other Trade Literature**

- Stringency measures and heterogeneity indices
  - Li and Beghin (2014), Winchester et al. (2012), Grant, Peterson, and Hejazi (2015); Xiong and Beghin (2014) (MRLs), Beghin, Disdier, and Marette (2015)
- NTMs and CGE Assessments
  - TPP: Petri, Plummer, Zhai (2011), Disdier, Emlinger, and Foure (2015)
  - TTIP: Bureau et al. (2014), Beckman et al. (2015), ECORYS (2009)







## **Objectives of IATRC Commissioned Paper**

- Review and Assessment:
  - Review the landscape & state of the art on the issue of NTMs
- Identification (blend of broad & case-study approaches):
  - Targeted: identify cross-cutting SPS/TBT issues based on "revealed" notifications
  - Broad-based: in terms of NTM types and commodity & country coverage
- Measurement:
  - Develop a framework to summarize and quantify revealed SPS restrictions since 1995.
  - Identify key NTM bottlenecks where international harmonization or equivalency of SPS or TBT measures would enhance market efficiency





## A Method to Identify Measures

**Revealed Trade Concerns - A Targeted Approach** 







## **The WTO Specific Trade Concerns (STC) Database**

- WTO SPS Committee is a venue by which Members can bring attention to, discuss, and potentially resolve STCs
  - Not a formal dispute in any legal sense
  - Not even a precursor (only 43 total disputes have escalated out of STCs)
  - No obligation for members to raise a concern
- Committee allows members to exchange info on STCs and discuss implementation rules of SPS agreement
  - Members can "point fingers"
  - Or "reveal" strong signal that partner measures inconsistent with SPS agreement







## 4 Advantages of STC Database

- 1. <u>Rich detail</u> bilateral, nature of measure, product coverage, members raising, maintaining, and supporting the concern, years concern active & date of resolution, time-varying, 1995-present
- 2. <u>Revealed Concerns</u> policy-makers have little incentive to notify their own SPS measures but all kinds of incentive to notify "barriers" of its partners!
- 3. Shifts the focus from NTMs to NTBs by focusing on concerns, Members elicit their prior that they have strong reasons to believe their partners' SPS obligations are being violated
- 4. <u>Improvement over Disputes and Notifications</u>
  - 43 disputes underestimates > 380 revealed concerns
  - 18,000 SPS notifications makes it difficult to discern which measures are impediments to trade and thus of economic significance







## **Example Concerns**







## Sri Lanka cinnamon exports to EU



Source: WTO (2015)



Case study
Resolving a trade concern: Cinnamon exports
from Sri Lanka

In 2005 and early 2006, Sri Lanka raised a specific trade concern in the SPS Committee about the European Union's import restrictions on cinnamon exports from Sri Lanka.

The issue related to Sri Lanka's traditional practice of burning sulphur as a way of protecting cinnamon from possible fungi and insects. While this practice does not require direct application of sulphur on the cinnamon, it does leave some residue.

The EU's directive setting maximum residue levels for sulphur dioxide (SO<sub>2</sub>) prevented Sri Lanka's cinnamon exports from entering the EU market. In raising the trade concern, Sri Lanka said that there was no international standard for sulphur

levels in cinnamon. Codex Alimentarius Commission was at that time in the process of considering the use of SO<sub>2</sub> as an additive but had not developed maximum permitted residue levels for SO<sub>2</sub> in cinnamon.

Following discussion in the SPS Committee, the Chair drew the matter to the attention of the Codex Commission, which subsequently adopted a standard establishing a maximum residue level for SO<sub>2</sub> in cinnamon. As a result, the EU decided to base its requirements on the Codex standard and by the end of 2006, Sri Lanka reported to the SPS Committee that this issue had been satisfactorily resolved.



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Ongoing

EU

<b>Example STCs</b>						
Initiated	Resolved	Member Maintain	Members Raising/Supp	Issue		
2002	Partially 2008	PAN,VEN	CAN, COL, CHL, USA	Discretionary import licenses and permits		
2004	2013	EU	COL, BOL, BRA, CHL, Many others	Ocratoxin A tolerance (Coffee)		
2005	2010	THA	USA, NZL, JPN	Public Health Regulation (High risk foods: milk pwd, beverages, fresh/frozen veg, infant foods		
2005	2006	JPN	IND	Fruit Fly interception, regional restrictions on Indian mangoes		
2007	Not reported	CHN	USA	Unrealistic zero tolerance for pathogens on raw meat and poultry that are inconsistent with equivalent domestic standards		
2012	Ongoing	JPN	ARG	Recognition of FMD-free regional zones in Northern Argentina		
2013	Ongoing	RUS	UKR, KAZ	Presumed false labelling of confectionary products		
	Initiated  2002  2004  2005  2007  2012	Initiated Resolved  2002 Partially 2008  2004 2013  2005 2010  2005 2006  2007 Not reported  2012 Ongoing	Initiated Resolved Member Maintain  2002 Partially 2008  2004 2013 EU  2005 2010 THA  2005 2006 JPN  2007 Not reported CHN reported  2012 Ongoing JPN	InitiatedResolvedMember MaintainMembers Raising/Supp2002Partially 2008PAN,VEN CAN, COL, CHL, USA20042013EUCOL, BOL, BRA, CHL, Many others20052010THAUSA, NZL, JPN20052006JPNIND2007Not reportedCHNUSA2012OngoingJPNARG		

USA, ARG,

BRA, CAN,

URY, PRY

GMO Import 'Opt-Out' Proposal without scientific

evidence



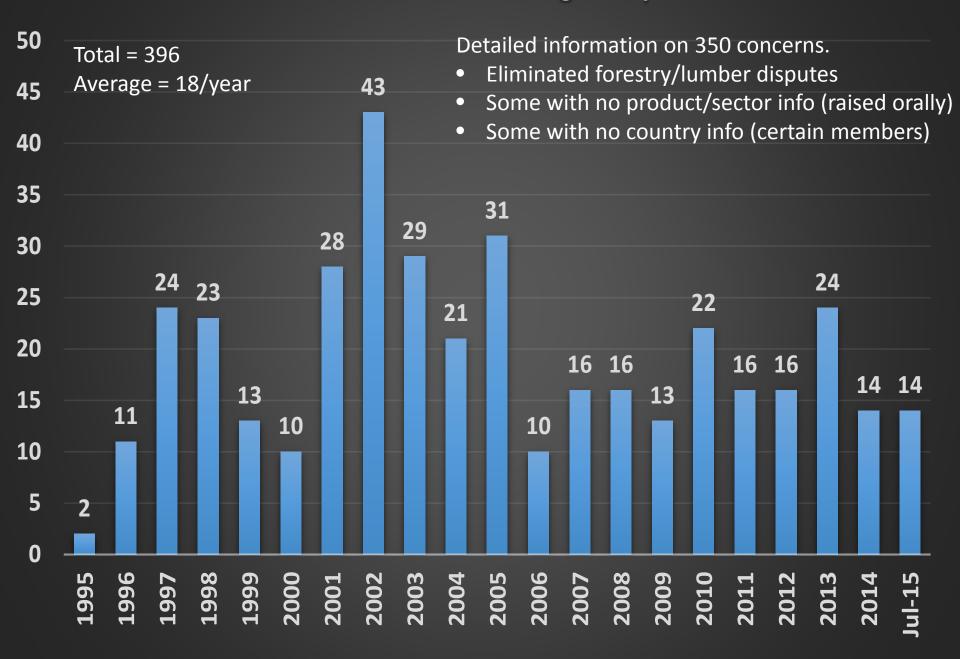
## **Early Tabulations**

**Slicing the Data** 





## STC Notification - through July 2015





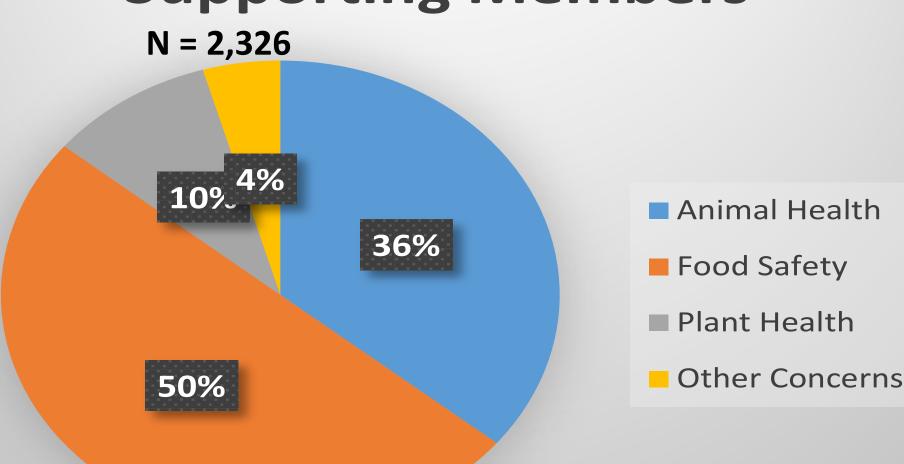
## **Notifications by SPS Subject Area**

- 1. Animal Health
- 2. Food Safety
- 3. Plant Health
- 4. Other Concerns





# STCs w/ Members & Supporting Members





## **Categorizing NTM Types**







9. Tolerances and Limits

NTIVI Types		
NTM	Abbrev	Description/Example
1. Animal Disease Related	ADR	FMD, BSE, and applications

is of waste from infected animals on other sectors

2. Customs/Procedures, Certification, Licensing

**CPR** Discretionary import licensing (VEN); Certification procedures (CAN); comment periods for new regulations (CHN)

3. Conformity Standards & Risk Assessment

**CRA** FAD

PPR

TOL

Risk assessment for entry of queen bees

Cold/heat treatment, fumigation, pest-free

Hygiene requirements, Grade A facilities,

Maximum residue limit (MRL) requirements

restrictions on hormones/beta agonist

Benzoic acid in sauces (AUS); Genetic

modification in cereals

Salmonella; Campylobacter

(ARG)

zones

Plant disease

4. Food Additives & Alterations 5. Microbiological related

**MICB** 

PHT

6. Treatments PI CT

7. Plant Contamination

8. Production & Process Requirements



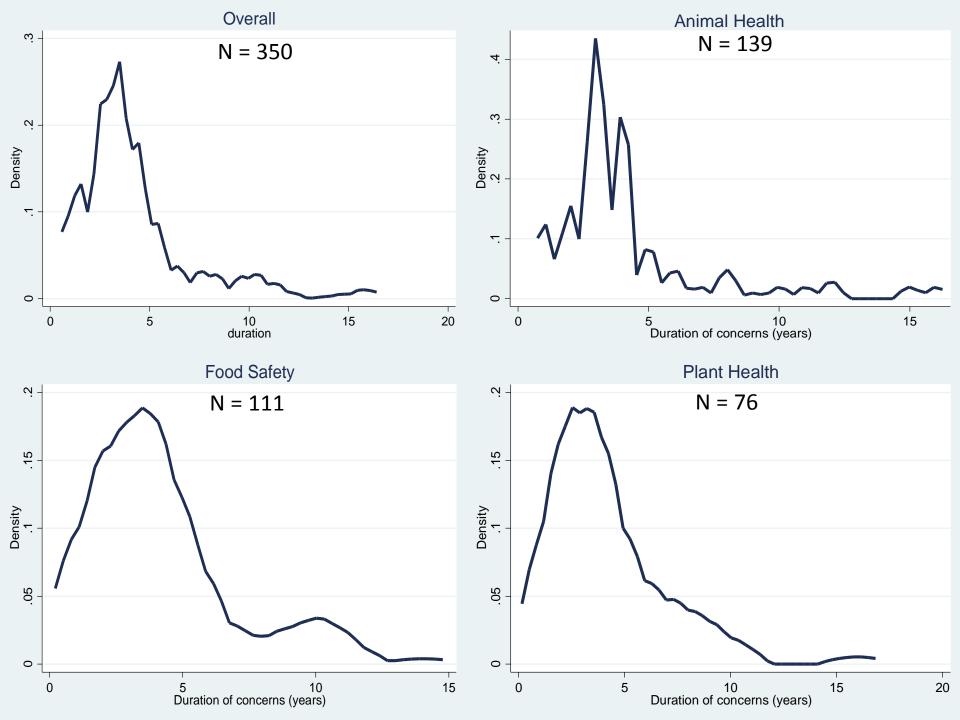
## **Duration of STCs**

**Density plot of:** 

Year resolved (incl. partially) – Year initiated





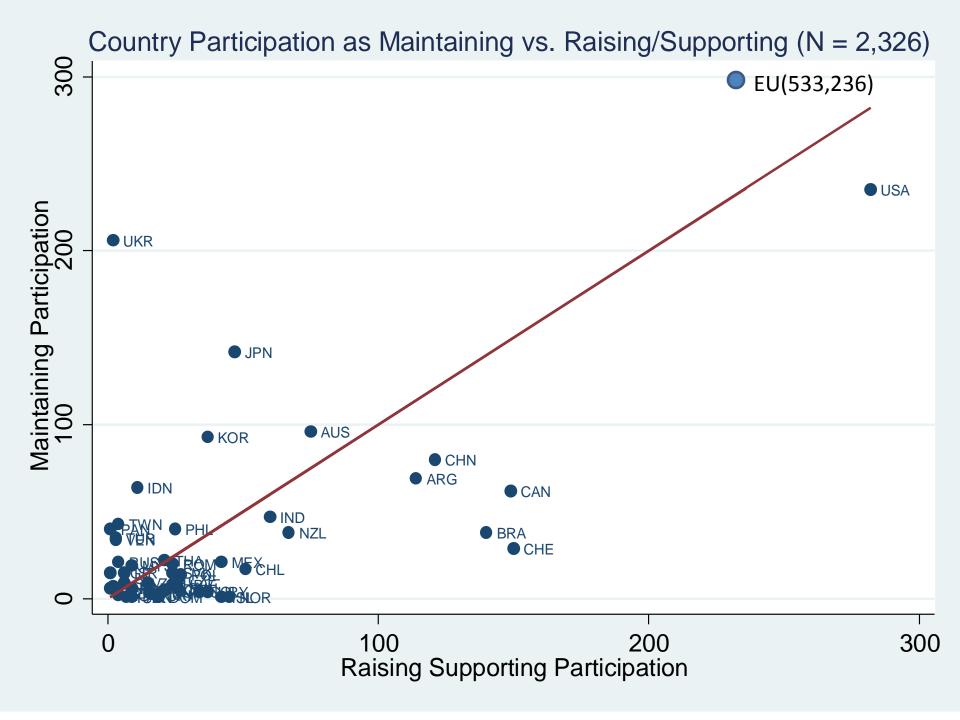




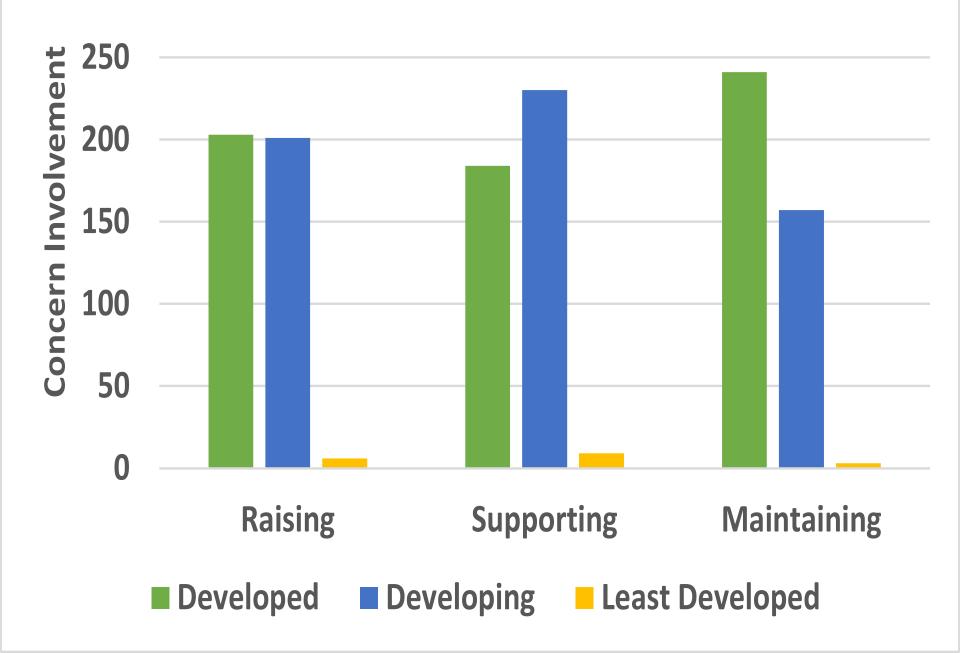
## Countries Involved (Prolific "complainers" & "maintainers")













## **Conclusions & Next Steps**

- 1. Members have raised ~400 SPS concerns since 1995 (larger for TBT)
- STCs reveal important information on NTBs (vs. NTMs) that would otherwise be missed when collecting dispute data or WTO notifications of SPS
  - Many STCs cite non-notification of SPS measures
- 3. SPS committee important venue to clarify and resolve trade conflicts (approx. 40% of concerns reported as resolved)

### **Next Steps**

- Incorporate measures of "severity" of concern using number of times concern subsequently raised (some > 10 times)
- 2. From tabulations to quantification. How to quantify the trade restrictiveness of "revealed" SPS concerns?



