Sanitary, Phytosanitary and Technical Measures in Agri-food Trade

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Brown Bag Seminar, April, 16. GTAP, Purdue University

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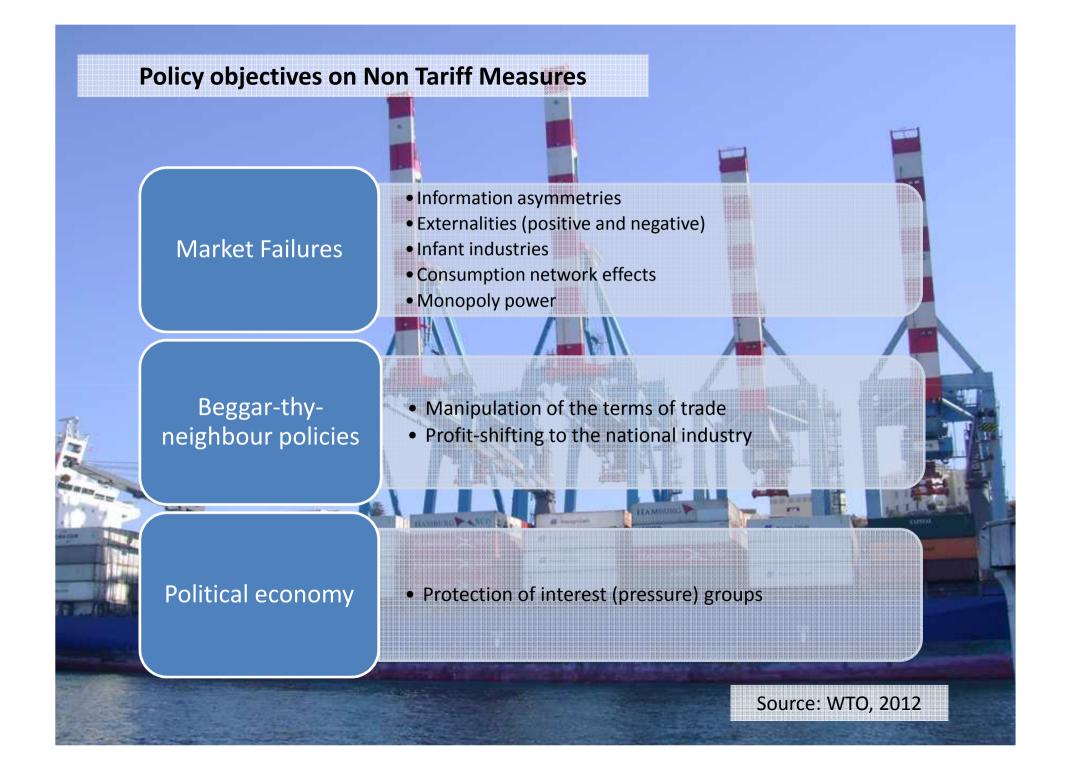
Overview

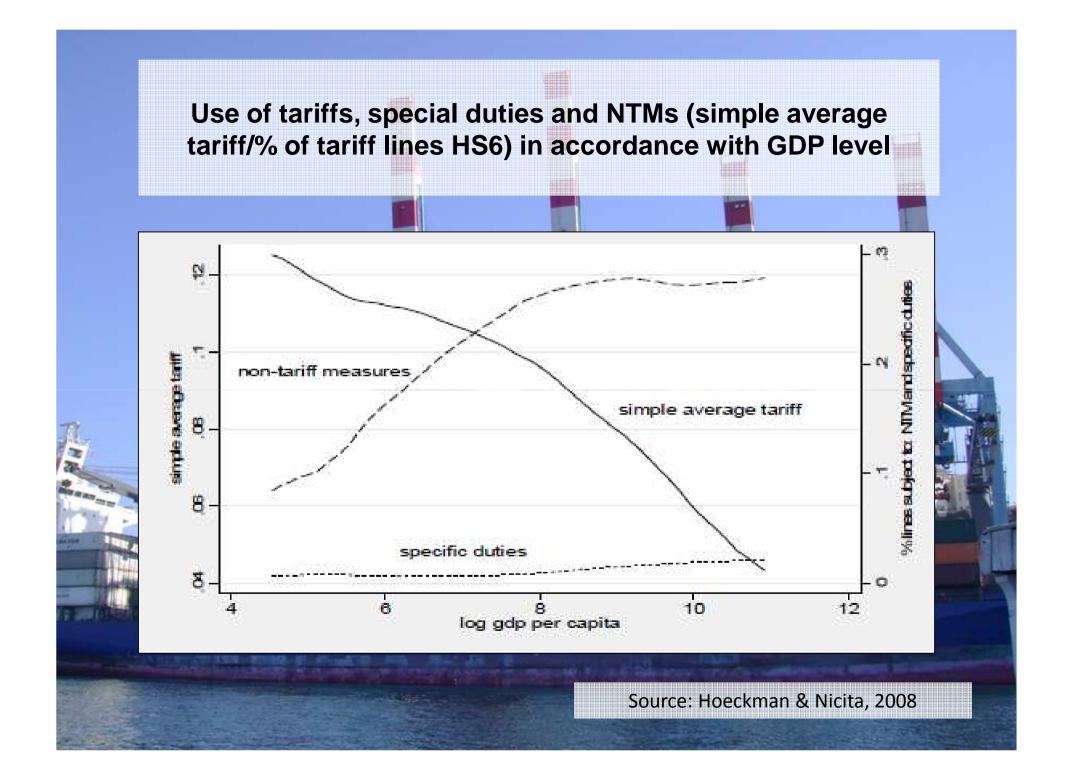
- Introduction
- SPS/TBT Agreements
- WTO member participation

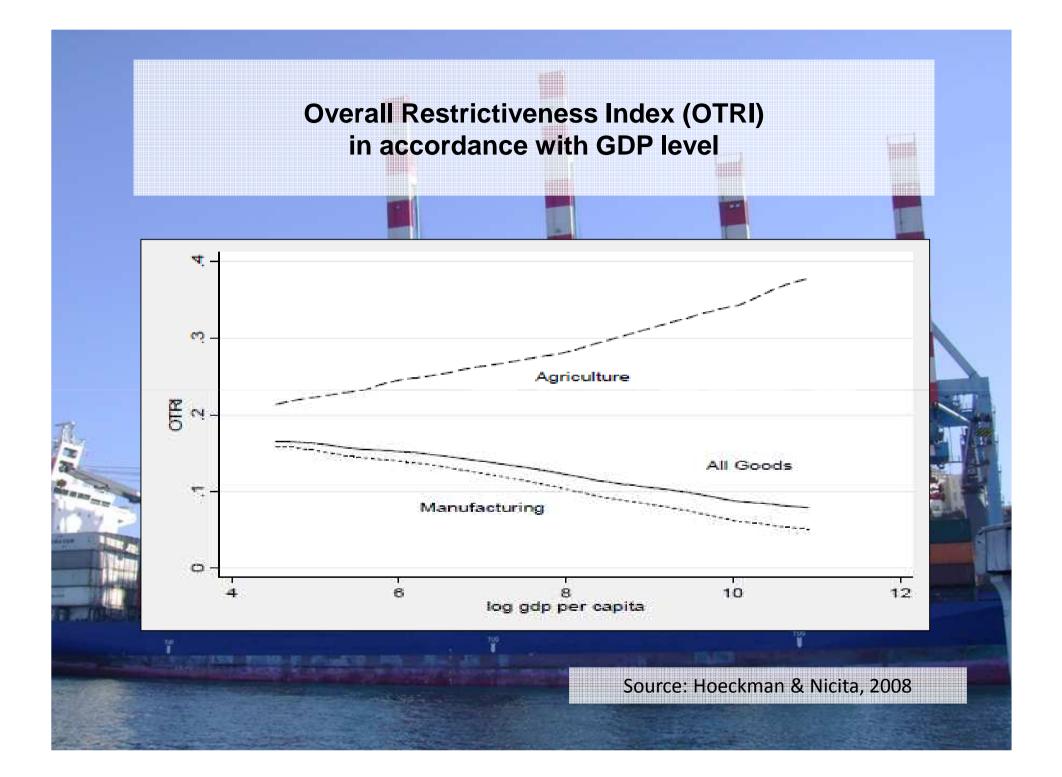
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- Current research review
- Project: "Assessing the impact of sanitary, phytosanitary and technical requirements on

"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).







NON TARIFF MEASURES

Technical

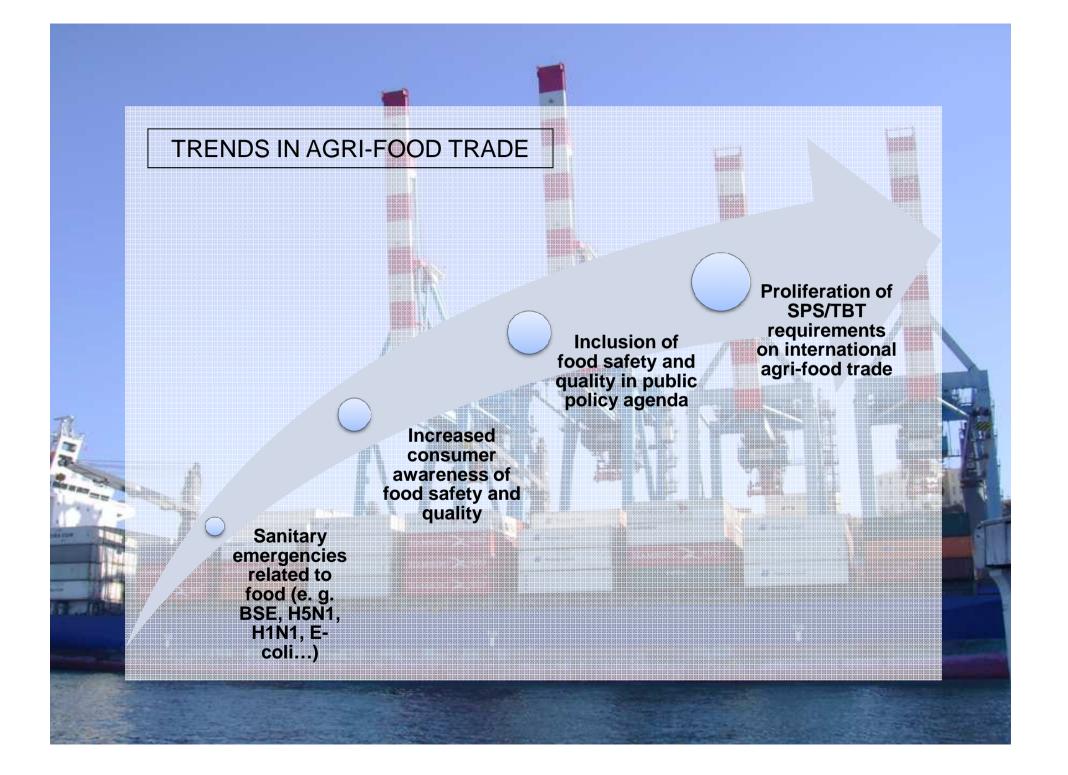
Non technical

Sanitary and Phytosanitary Measures, Technical Barriers to Trade, Customs Formalities Contingent measures, quotas, price control, subsidies, distribution, intellectual property, rules of origin...

Export taxes, export quotas and export prohibitions

Export related

Source: UNCTAD, 2013



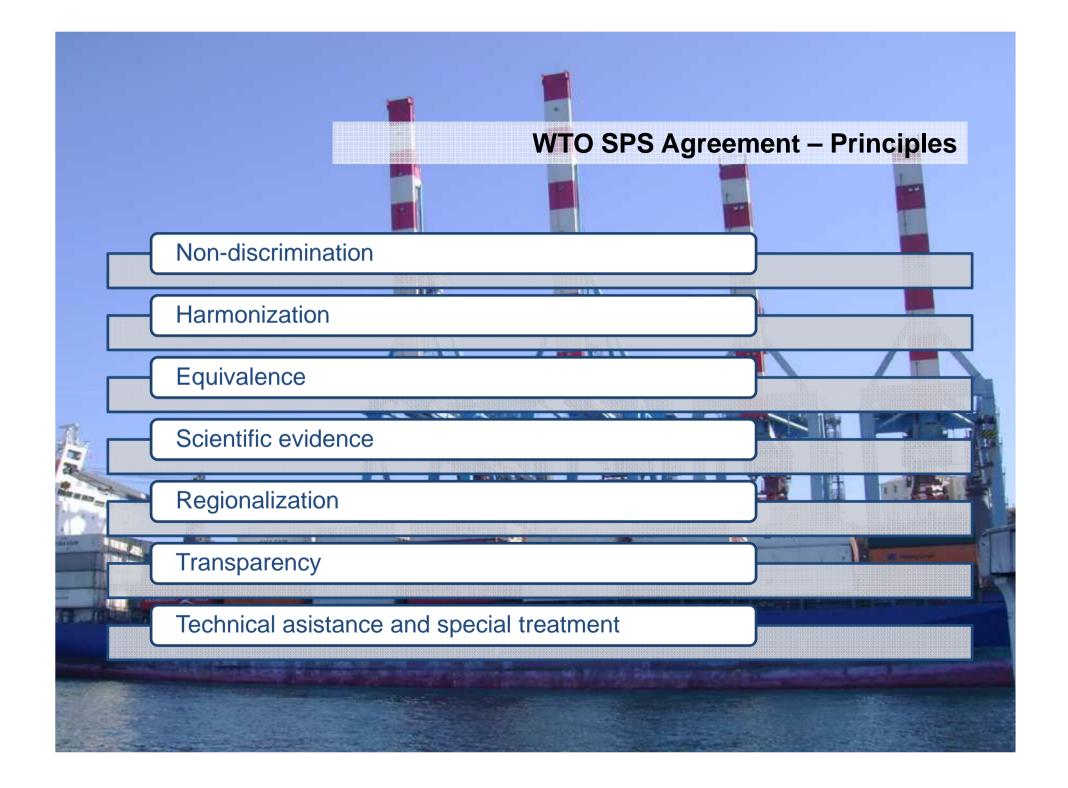
Chronology of multilateral agreements on SPS/TBT

- GATT (1947) --- Allowing the imposition of food safety standards on imported products in order to protect human, animal and plant health (art. XX.b.)
- Tokyo Round (1979) --- TBT Agreement "Standards Code" (includes harmonization and transparency principles. Only 32 members)
 - Uruguay Round (1986-1993) --- More depth regarding trade issues related to agriculture sector (including food safety and quality)
 - 1995 --- Entry into force of Technical Obstacles to Trade and Sanitary and Phytosanitary Measures WTO Agreements

WTO SPS Agreement – General objective

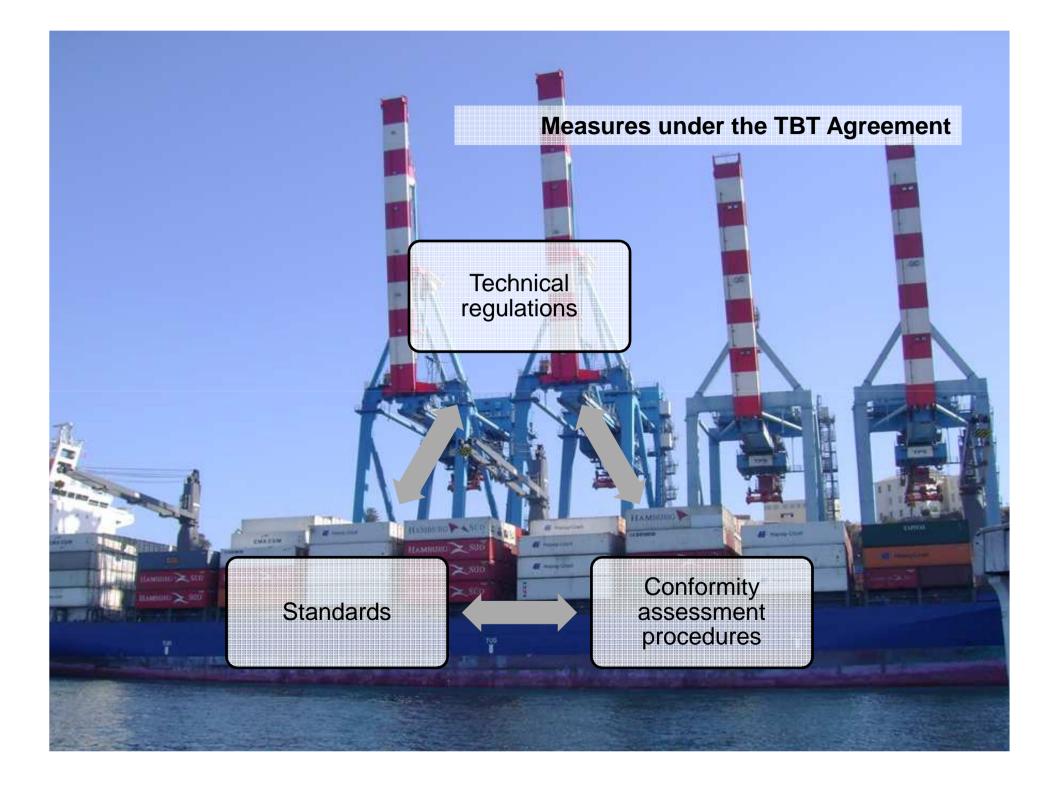
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"Reaffirming that no Member should be prevented from adopting or enforcing measures necessary to protect human, animal or plant life or health, subject to the requirement that these measures are not applied in a manner which would constitute a means of arbitrary or unjustifiable discrimination between Members where the same conditions prevail or a disguised restriction on international trade" (SPS Agreement, preamble)



WTO TBT Agreement – General objective

"Recognizing that no country should be prevented from taking measures necessary to ensure the quality of its exports, or for the protection of human, animal or plant life or health, of the environment, or for the prevention of deceptive practices, at the levels it considers appropriate, subject to the requirement that they are not applied in a manner which would constitute a means of arbitrary or unjustifiable discrimination between countries where the same conditions prevail or a disguised restriction on international trade" (TBT Agreement, preamble)



• "Document which lays down product characteristics or their related processes and production methods, including the applicable administrative provisions, with which compliance is mandatory"

1. Technical regulations

 "It may also include or deal exclusively with terminology, symbols, packaging, marking or labelling requirements as they apply to a product, process or production method"

(TBT Agreement, Paragraph 1, Annex 1)

• "Document approved by a recognized body, that provides, for common and repeated use, rules, guidelines or characteristics for products or related processes and production methods, with which compliance is not mandatory"

2. Standards

• "It may also include or deal exclusively with terminology, symbols, packaging, marking or labeling requirements as they apply to a product, process or production method"

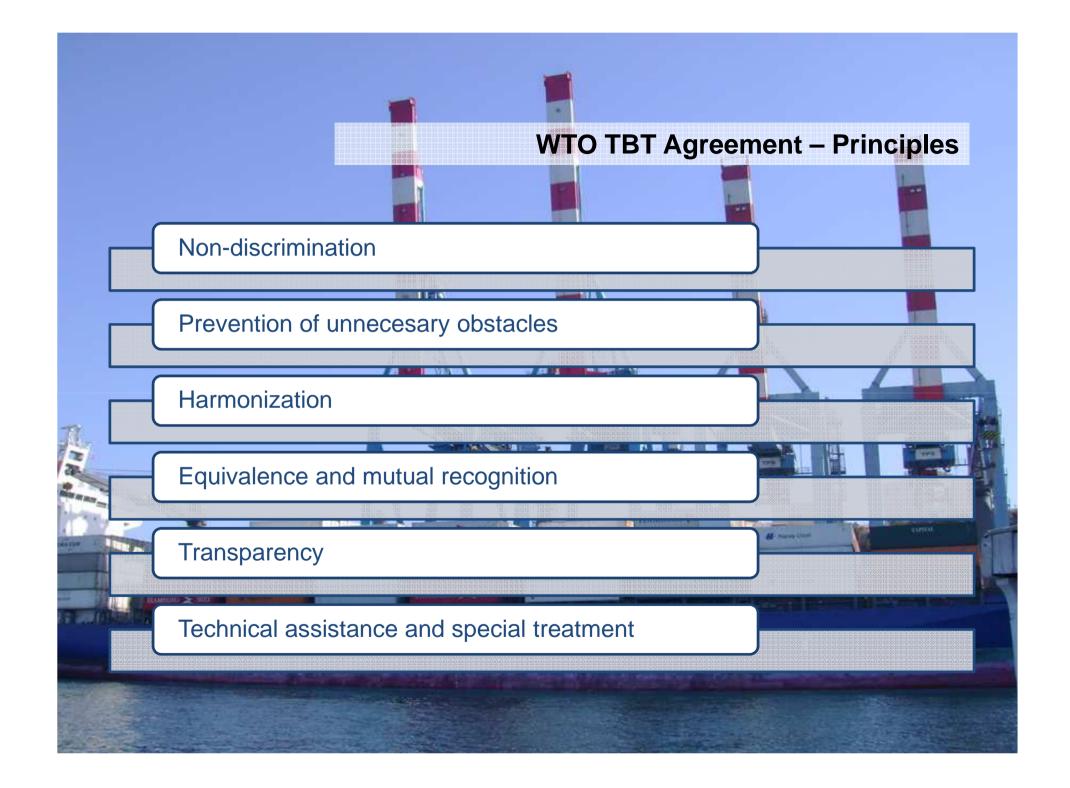
(TBT Agreement, Paragraph 2, Annex 1)

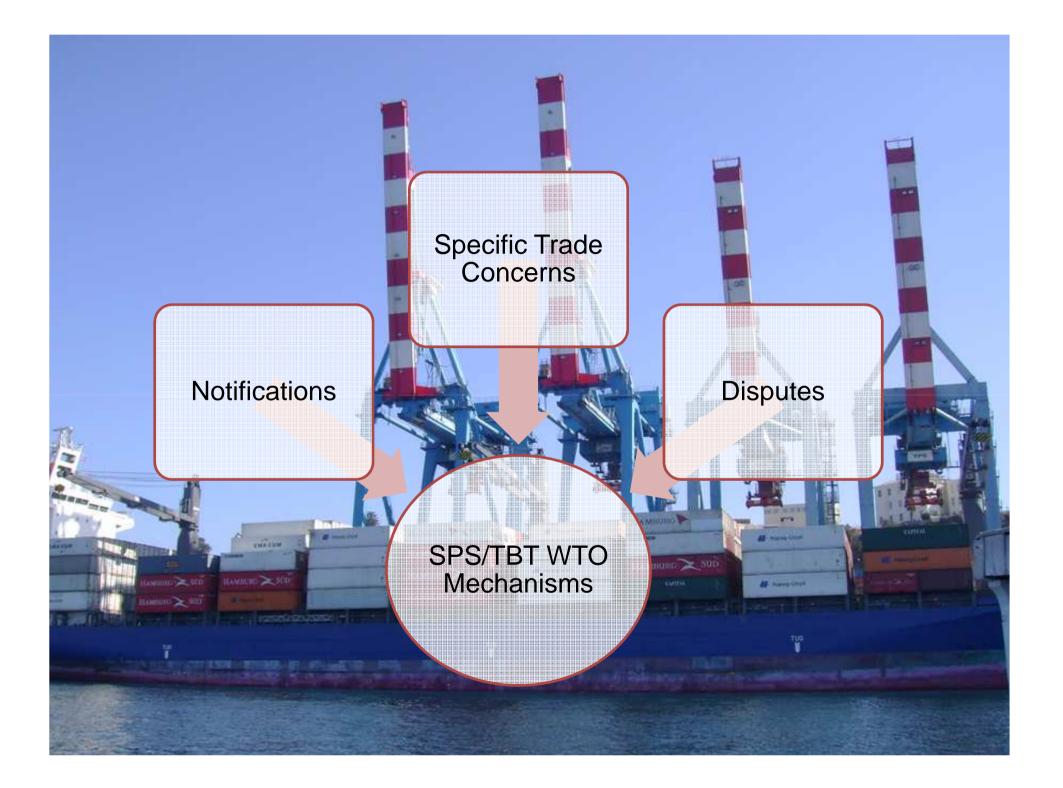
3. Conformity assessment procedures

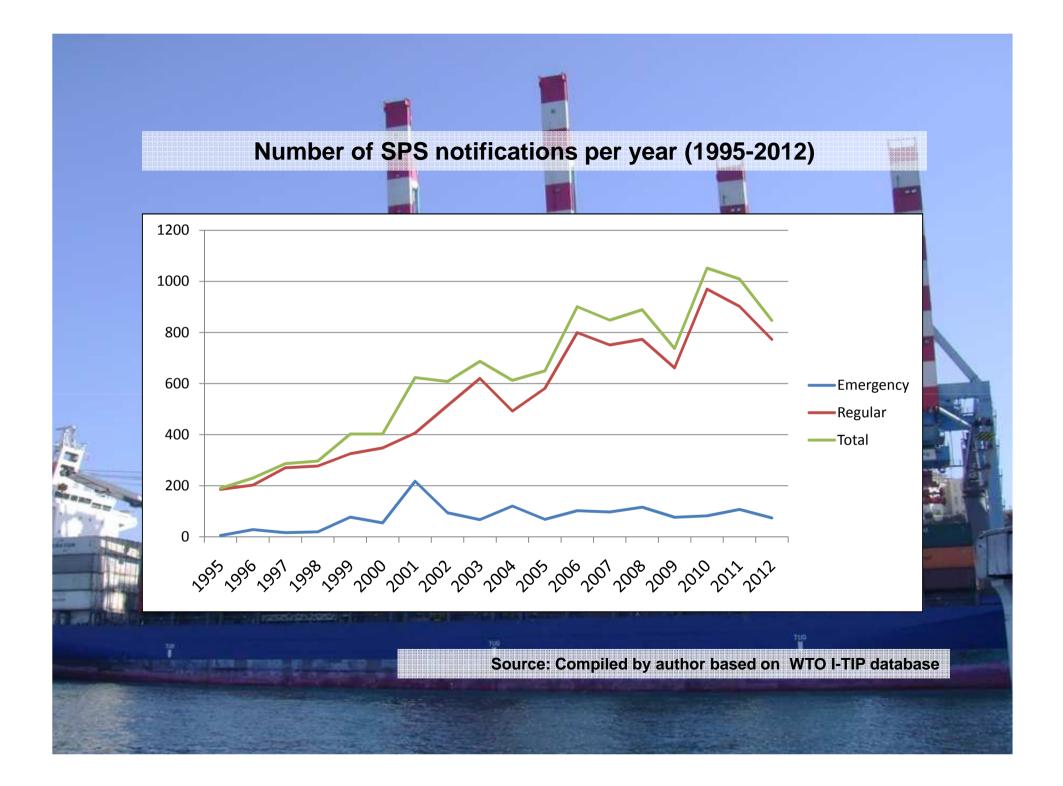
• "Any procedure used, directly or indirectly, to determine that relevant requirements in technical regulations or standards are fulfilled"

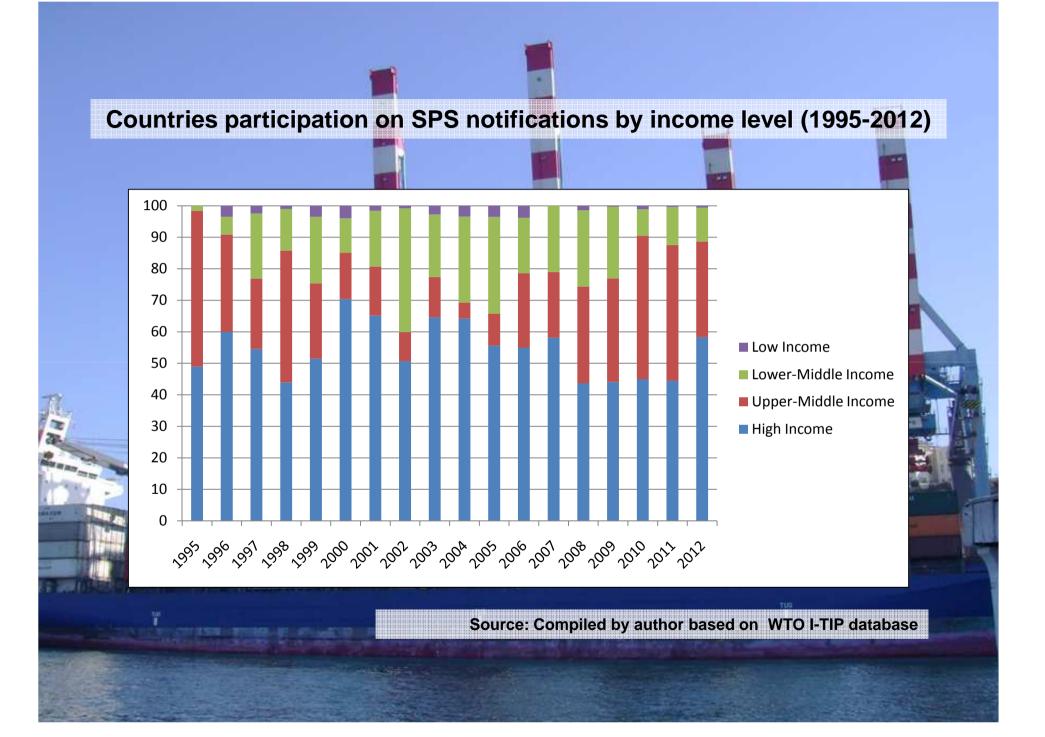
• Explanatory note "Conformity assessment procedures include, inter alia, procedures for sampling, testing and inspection; evaluation, verification and assurance of conformity; registration, accreditation and approval as well as their combinations"

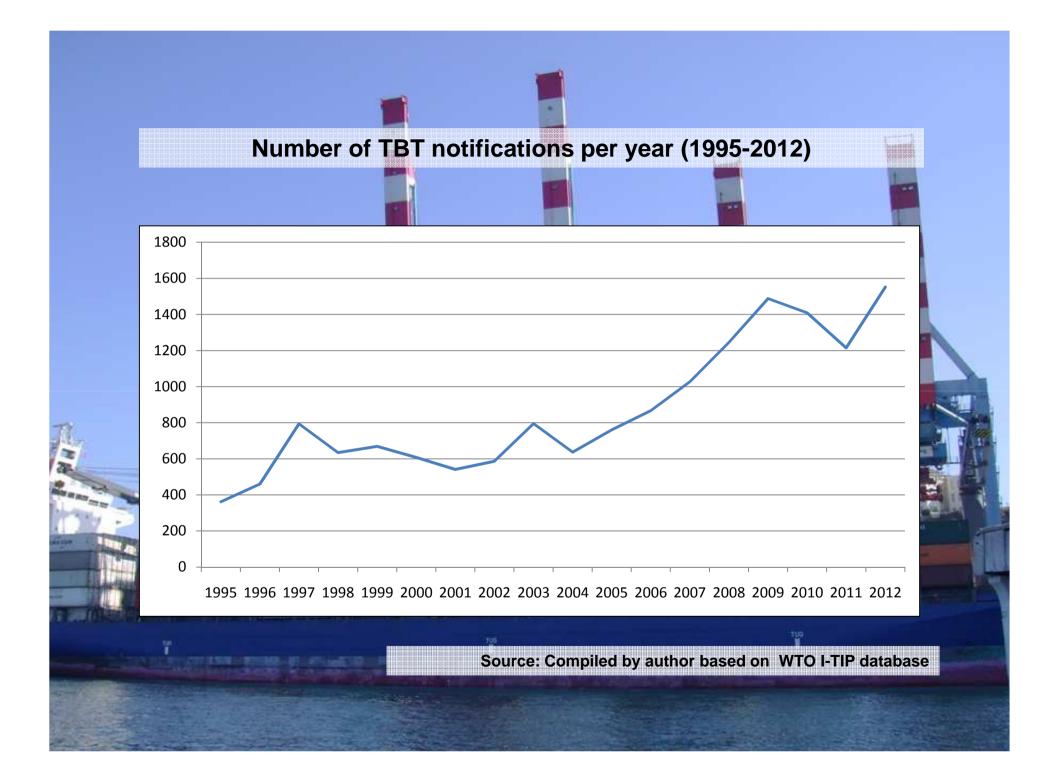
(TBT Agreement, Paragraph 3, Annex 1)

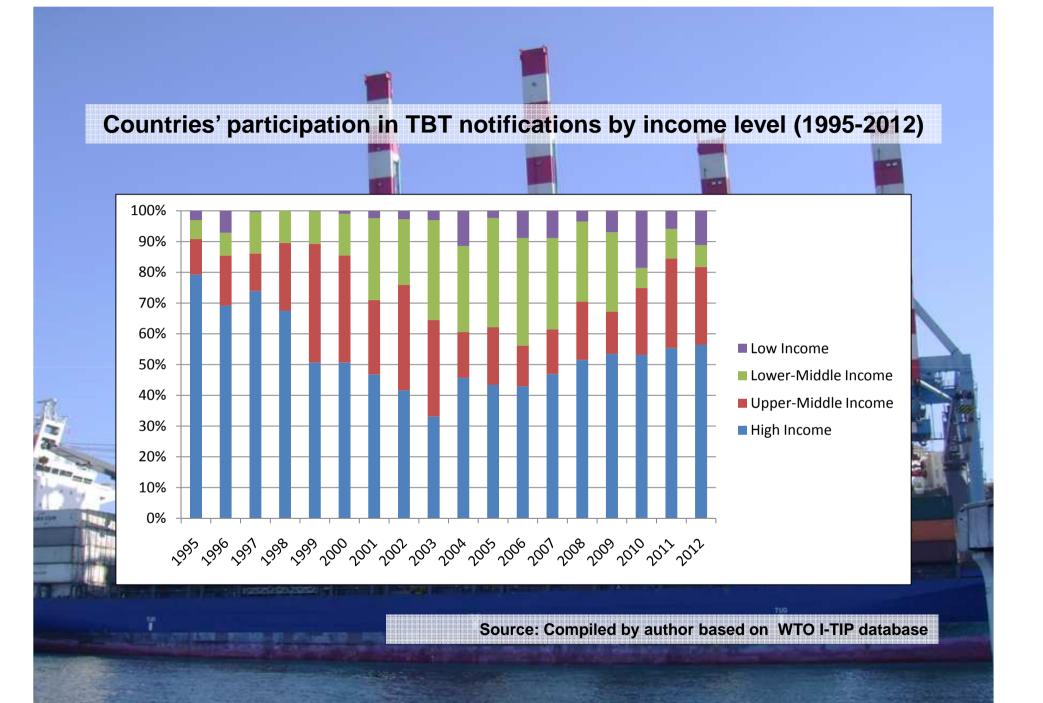




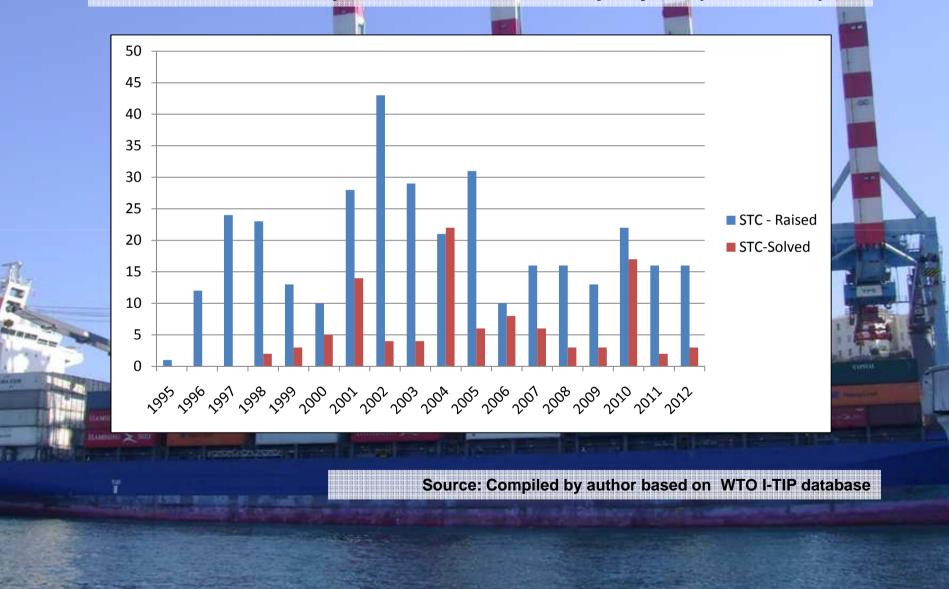




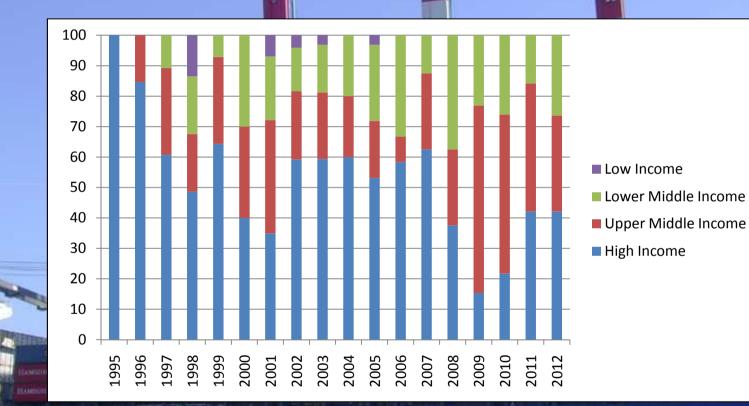




Number of SPS SpecificTrade Concerns per year (1995-2012)

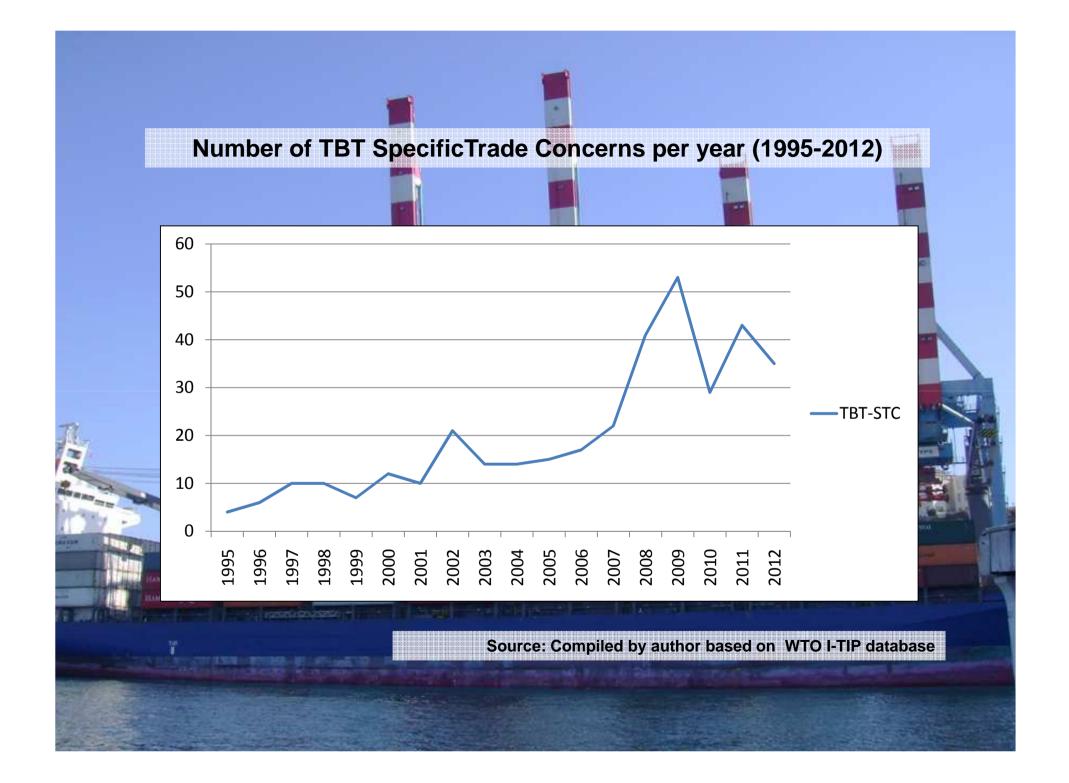


Annual percentage of participation as concerned country in SPS-STCs according to members' income level (1995-2012)

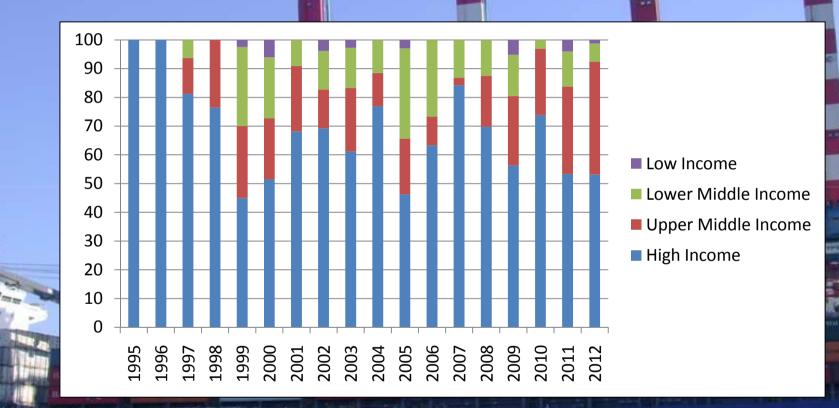


Annual percentage of participation as maintaining country in SPS-STCs according with members' income level (1995-2012)





Annual percentage of participation as concerned country in TBT-STCs according to members' income level (1995-2012)



Annual percentage of participation as maintaining country in TBT-STCs according to members' income level (1995-2012)



Number of WTO disputes iniciated per year

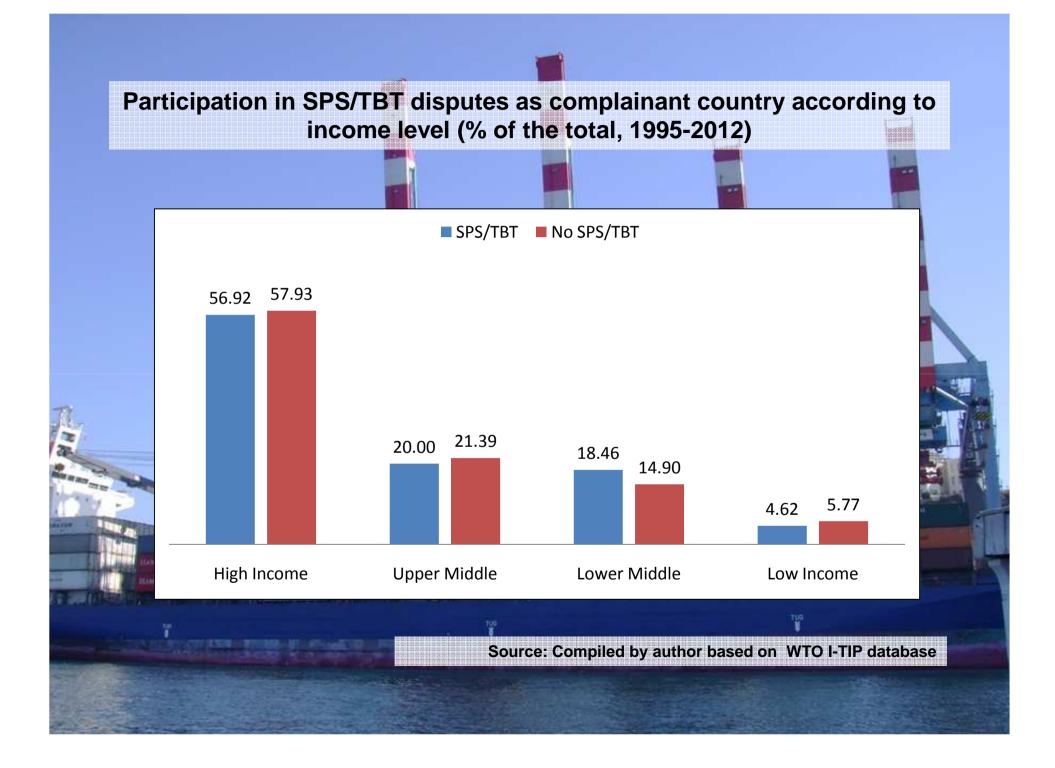
		Less			
	SPS/TBT	No SPS/TBT		SPS/TBT	No SPS/TBT
1995	10	15	2004	0	19
1996	5	34	2005	0	11
1997	6	44	2006	0	21
1998	6	35	2007	2	11
1999	0	30	2008	3	16
2000	3	31	2009	5	9
2001	4	19	2010	1	16
2002	6	31	2011	0	8
2003	7	19	2012	7	20
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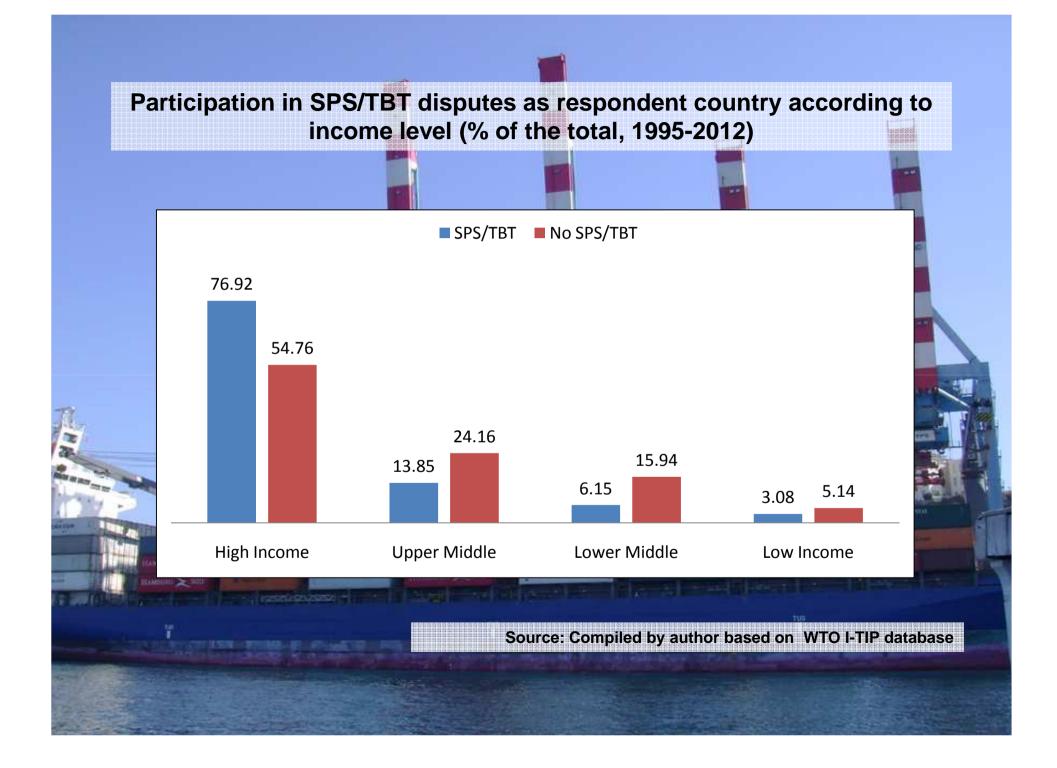
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Source: Compiled by author based on WTO I-TIP database

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Working paper "Assessing the impact of sanitary, phytosanitary and technical requirements on food and agricultural trade: what does current research tell us?", SECO/WTI Academic Cooperation Project, 2/2013

Literature review on the following topics:

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- SPS/TBT on a specific product and/or motivation impact
 - SPS/TBT on a pool of products and motivations impact Effects of the heterogeneity/homogeneity regarding SPS/TB1

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SPS/TBT impact on a specific product and/or motivation

		TT.
Authors (year)	Specific Issue	SPS/TBT Effects
Xiong & Beghin (2012)	-African nut exports to the EU -EU standard on aflatoxins MRL	- Non significant
Wei, Huang & Yang (2012)	-Chinese tea exports -Pesticides MRLs	- Negative impact
Schlueter, Wieck & Heckelei (2009)	-Meat product trade -Analysis of different SPS requirements	-Contradictory impacts (according to measure)
Wieck, Schlueter & Britz (2012)	-Poultry meat trade -Quarantine measures – Avian Flu	-Negative impact (raw) -Positive impact (cooked)
Beghin & Melatos (2012)	-Pork meat trade -Australian quarantine regime	- Negative impact
Disdier & Fontagné (2010)	-Exports from USA, Canada and Argent. -EU moratory on GMO	- Negative impact
Wilson & Bray (2010)	-Fish exports to the USA -HACCP mandatory requirements	-Negative impact
Disdier & Marette (2010)	-Crustacean trade -Cloranfenicol MRL standards	-Negative impact (volume)

Source: Boza (2013)

		-
Authors (year)	Specific Issue	SPS/TBT Effects
Hoeckman & Nicita (2008)	 Global trade overview Tariffs, NTMs and "red tape" 	- Significant impact
Disdier, Fontagné & Mimouni (2008)	-International agricultural trade -SPS/TBT	-Non significant (OECD) -Negative impact (non OECD
Crivelli & Groschl (2012)	-International agricultural trade -SPS/TBT	-Contradictory impacts (according to measure)
Bao & Qiu (2010)	-Imports to China -TBT raised by China	-Negative impact
Song & Chen (2010)	-Chinese agricultural exports -SPS	-Non significant (voluntary) -Positive impact (mandatory)
Mangelsdorf, Portugal-Pérez & Wilson (2012)	-Chinese agricultural exports -Standards (local/international)	-Negative impact(short term) -Positive impact (long term)
Meneguelli Pinto de Souza & Lee (2011)	-Brazilian poultry exports -SPS/TBT	-Contradictory impacts (according to measure)
Melo et. al. (2012)	-Chilean fruit exports -SPS	 Negative impact (according to perceived stringency)

Effects of the heterogeneity/homogeneity regarding SPS/TBT

Authors (year)Specific IssueSPS/TBT Effectsinchester et al. 012)-Agricultural trade -EU members and nine non EU countries -SPS/TBT heterogeneity- Non significant (heterogeneity)sdier, Fontagné Cadot (2012)-South-South agricultural trade -TBT harominization disclosures in North- South trade agreements-Positive impact (N-S) -Negative impact (S-S) -Negative impact (S-S) -Negative impact (S-S) -Negative impact (homogeneity)gani, Raimondi Olper (2009)-Agricultural trade -GMO regulations-Positive impact (homogeneity)rogué & emaría (2012)-Fruit trade (apples and pears) -Pesticides MRL legislation-Positive impact (bout trade 2000)Image: Automotion of the structure of the s
012) -EU members and nine non EU countries -SPS/TBT heterogeneity (heterogeneity) sdier, Fontagné Cadot (2012) -South-South agricultural trade -TBT harominization disclosures in North- South trade agreements -Positive impact (N-S) -Negative impact (S-S) gani, Raimondi Olper (2009) -Agricultural trade -GMO regulations -Postive impact (homogeneity) rogué & emaría (2012) -Fruit trade (apples and pears) -Pesticides MRL legislation -Positive impact (bource: Boza (2)
Cadot (2012) -TBT harominization disclosures in North- South trade agreements -Negative impact (S-S) gani, Raimondi -Agricultural trade -Postive impact (homogeneity) olper (2009) -GMO regulations -Postive impact (homogeneity) rogué & -Fruit trade (apples and pears) -Positive impact emaría (2012) -Pesticides MRL legislation -Positive impact
Olper (2009) -GMO regulations (homogeneity) ogué & -Fruit trade (apples and pears) -Positive impact emaría (2012) -Pesticides MRL legislation -Positive impact
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U-INICIA Project "Assessing the impact of sanitary, phytosanitary and technical requirements on Chilean food and agricultural trade"

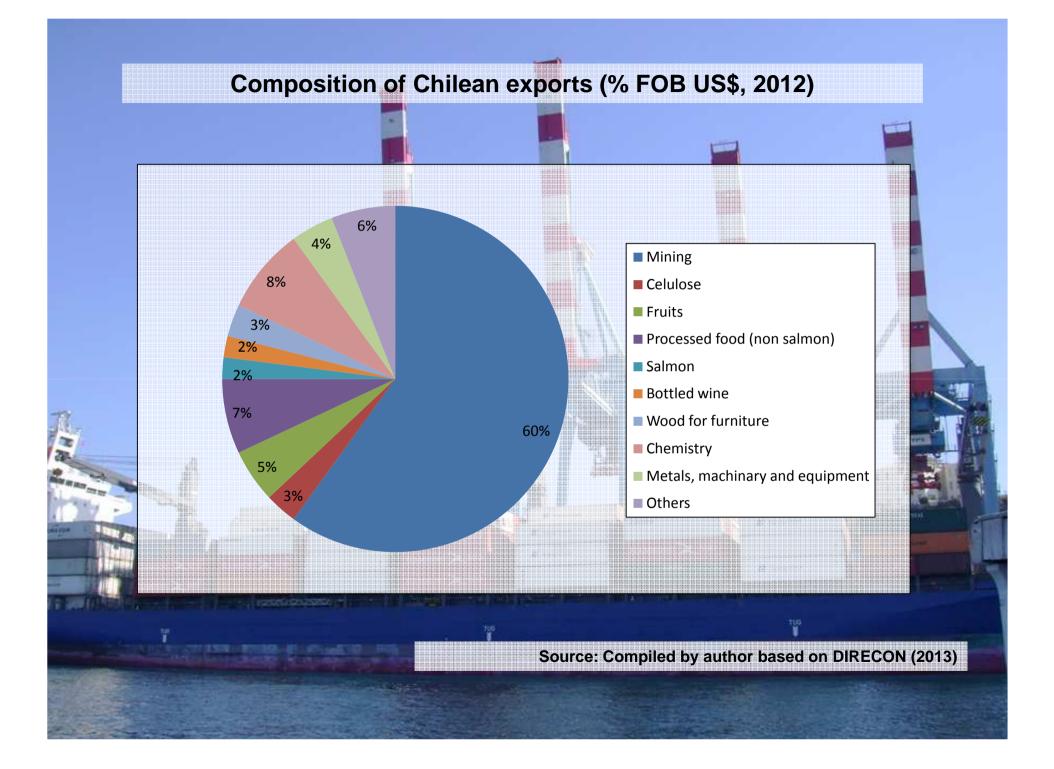
Quantify the presence and impact of NTMs regarding sanitary, phytosanitary and technical requirements implemented by major markets in relation to Chilean food and agricultural exports.

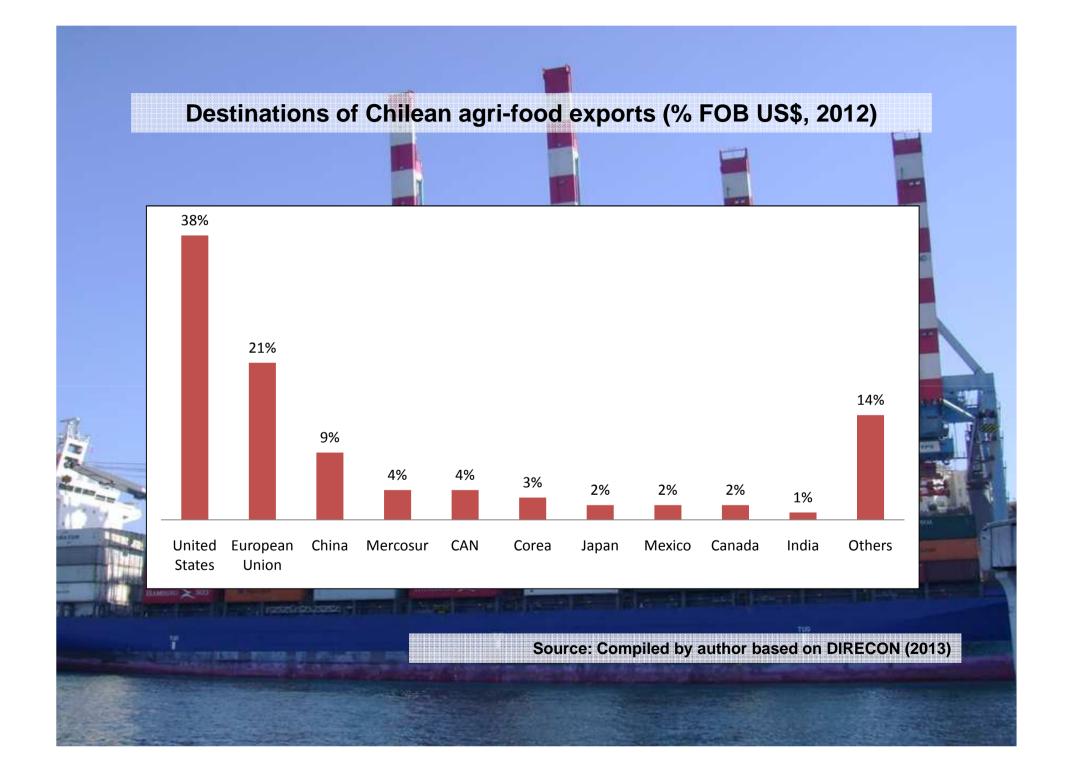
Identify the main results of up to date research on the effects of sanitary, phytosanitary and technical requirements for international food and agricultural trade

OBJETIVES

Describe the recent evolution and the current characteristics (in terms of frequency and coverage) of SPS/TBT concerning Chilean food and agricultural exports. Estimate the implications of sanitary, phytosanitary and technical requirements for Chilean food and agricultural trade through the specification of a gravity model.







WORK PLAN

Stage 1: Literature Review

- Activities: Complete a review of the most recent research about the effects of sanitary, phytosanitary and technical requirements on international trade.

Stage 2.1: SPS/TBT Data Collection

- Activities: Begin collecting and tabulating secondary information on SPS/TBT notifications and concerns from the World Trade Organization I-TIP database.

Stage 2.2: Descriptive analysis

 Activities: Estimate frequency indices, coverage ratios and groups according to WITS classification using data in SPS/TBT generated database.
 Synthesize and analyze results obtained.

Stage 3: Model estimation

- Activities: Collect additional data needed to estimate the gravity model (volumes traded, GDP, distance, tariffs and consumption). Specify the model and estimate the parameters using a variety of approaches. Analyze results and compare them with preceding research.





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