#SMEOutlook





From Tariffs to Standards Assessing the role of Non-Tariff Measures FIW-Workshop

Olga Solleder, ITC 21 October 2016, Vienna



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Plan

1. SME Competitiveness Outlook 2016:

Meeting the standard for trade

- Thematic part: Standards and regulations
- Country profiles and regional analysis
- 2. The effect of NTMs on countries' GVC participation
 - Introduction
 - Measure of GVCs
 - Measure of NTMs: Regulatory distance
 - Empirical framework
 - Results



Meeting the Standard for Trade

ITC Flagship Report 2016 provides evidence on how standards and regulations affect SME international competitiveness.

Report contains:

- Comprehensive analysis based on
 - NTM regulatory data (ITC, UNCTAD, World Bank)
 - Firm-level surveys on NTMs
 - Voluntary sustainability standards
- Global thought leader insights
- Case studies
- Guidance for SME managers
- 5 Point Action Plan for Policy Makers
- How to think strategically about standards:
 - Regional snapshots
 - ➢ 35 country profiles





For entrepreneurs, terminology is not of primary concern

The terms 'standard' and 'regulation' mean different things to those who use them.

ITC firm-level surveys show that what matters for SME interviewees is whether access to a selected market depends on meeting the relevant quality level, not whether that level is imposed by the government or a non-governmental actor.

In this presentation:

- Standard a required or agreed level of quality or attainment.
- Regulation a rule or directive made and maintained by an authority, often a government.



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Standards are an inherent part of international trade

- They are pervasive and diverse;
- They affect every aspect of running a business;
- They are in high demand by consumers (protection, environmental, social sustainability)
- They can facilitate trade



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Standards are not only set in industrialized countries



Share of voluntary sustainability standards with headquarters in developing countries





Standards are here to stay ...

...but they also represent a cost for business



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Regulatory burdens hit small firms twice as hard as large firms







Governments may have to make hard choices



But standards and regulations are often sector or even product-specific



Being part of an GVC reduces costs for SMEs

Standards are more producer accessible when they are set by businesses



But only the most competitive SMEs manage to enter GVCs

Competitiveness reduces the cost of compliance





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Hard choices; but way forward exists

Five-point government action plan





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Information on growth opportunities and on SME competitiveness is needed for strategic decisions



Asia Pacific



- Still unexploited export potential in IT and electronics
- Chemicals are promising avenue for export diversification (21% of the top 200 products are in this sector)
- International management and quality standards well adopted in large economies like China and India, but several other economies in region are lagging behind

Shift from electronics/IT to chemicals will imply shift from compatibility standards to consumer protection standards



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More on:

http://www.intracen.org/ smecompetitiveness

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The effect of NTMs on countries' GVC participation

Loe Franssen and Olga Solleder

Introduction

- Harmonisation/regulatory heterogeneity in the negotiations of megaregionals
- Multiple channels through which technical measures can affect countries' participation in GVCs
 - Direct
 - Indirect via imports of intermediates
- Focus on legitimate technical measures (SPS, TBT)

Summary

Research question:

What is the effect of the regulatory heterogeneity on countries' forward participation in GVCs?

Measurement:

- GVC: intermediate and final goods (UN BEC Classification)
- NTMs: regulatory distance combined with Input-Output tables

Findings:

Export of final goods is negatively associated with the regulatory distance on intermediate inputs.

Measuring GVC

Figure 7: Summary of main strands of the empirical research on GVCs



Notes: The size of the circles represents the coverage of each measure relatively to the real size of the GVCs phenomenon in the world economy, with larger circles standing for higher coverage. The x-axis corresponds to the complexity of data required to compute the measure and the y-axis stands for the accuracy of the resulting quantification, i.e., to what extent the measure records with precision the aspects of GVCs that it aims to assess.

Source: João Amador and Sónia Cabral, 2014

Literature review: GVCs

- Trade in parts and components
 - Feenstra et al (2000); Egger and Egger (2001)
- Firm-level data
 - Shepherd & Stone (2012)
- Trade in value added / Input-output
 - Feenstra and Hanson 1996
 - Daudin et al (2011) ; Johnson and Noguera (2012) Koopman,
 Wang, Wei (2014)

Literature review: NTMs (1)

- Frequency based measures
 - Cadot & Malouche (World Bank, 2012)
 - Gourdon (CEPI, 2014)
- Ad Valorem Equivalents (AVEs)
 - Kee, Nicita and Olarreaga (2009)
 - Grübler, Ghodsi and Stehrer (2015)
 - Ghodsi and Stehrer (2016)
 - Fontagné, Mitaritonna, Signoret (2016)

Literature review: NTMs (2)

- Expert evaluations
 - Borchert, Gootiiz and Mattoo (World Bank, 2012)
- Regulatory distance
 - Kox and Lejour (2005)
 - Kox and Nordås (2007, 2009)
 - Winchester et al (2012)
 - Knebel et al (UNCTAD, 2016)
 - Nordås (2016)
 - EU NTM Impact project

Regulatory distance: example



 b) data-analysis of
"distance in regulatory structures"

Source: Knebel et al, 2016

Aggregating over product p and measure type k, the unweighted regulatory distance between industry j in the home country c and industry i in the partner country f: $RD_{cjfi} = \frac{1}{pk} * \sum_{pk} |n_{cjfipk} - n_{ficjpk}|$

Regulatory distance: summary stats



Regulatory distance applied to GVC



The extent to which the regulatory distance between cj and i is a problem depends on how much cj relies on i. Therefore, in estimating the effect of RD on the exports of cj, we weigh RD_{ficj}^{II} by the relative contribution of foreign industry i to domestic industry cj via IO coefficients, indicated as a_{icj} :

$$\overline{RD_{cj}^{II}} = \sum_{f}^{F} \sum_{i}^{I} IO_{ficj} * RD_{ficj}^{II}$$

Data

Name	Source	Level	Scope
Regulatory database on NTMs	ITC, UNCTAD and World Bank	HS 6	48 countries, cross-section, technical regulations only
Trade Map	ITC	HS 6	Export values of final goods
EORA Multi Region Input Output (MRIO) Database	Lenzen, Kanemoto, Moran and Geschke (2013)	Industry level (ISIC)	IO weights

Empirical framework



Estimated equation

 $\ln(Exports_{cj}^{Final}) = \alpha_1 \ln(RD_{cj}^{II}) + \alpha_2 \ln(RD_{cj}^{F}) + \delta_c + \varphi_j + \varepsilon_{cj}$

Preliminary results



Note: The graph shows 95% confidence intervals

Preliminary results – cont.

	Export of final	al Export of final Export of final		Export of final
	goods	goods	goods	goods
	(1)	(2)	(3)	(4)
	no fe	country fe	industry fe	country and
				industry fe
Ln $\overline{\left(RD_{cj}^{II} \right)}$	0.278	-0.333	-0.257	-0.745**
	(0.649)	(-1.183)	(-0.413)	(-2.233)
$Ln(RD_{cj}^{F})$	1.873***	1.195***	4.198***	1.581**
	(5.872)	(5.136)	(3.211)	(2.102)
Constant	16.91***	13.54***	17.32***	11.97***
	(7.527)	(9.212)	(6.038)	(6.190)
Observations	400	400	400	400

Concluding remarks

- We integrate the regulatory distance concept into GVCs.
- Regulatory distance is negatively related to countries' forward participation in GVCs.
- Policy implications:

International standards > harmonisation > national standards

Next steps

- Theoretical model/better identification
- Extension to the panel dataset