

External Trade by Enterprise Characteristics

Bülent TUNGUL

SESRIC Statistical Cooperation Programme
Workshop on External Trade Statistics

6-8 January 2013
Kuwait

Introduction

- Global economies require data on who is trading and what are the characteristics of trade operators.
- Trade statistics do not present by nature any explicit information on the characteristics of traders.
- This case requires establishing a direct relation between foreign trade and industrial statistics.

Introduction

Trade statistics in their traditional form show which goods are moving between countries but they do not describe what kind of businesses are behind these trade flows.

Business registers contain essential identification information, such as

- name and address and stratification information, such as
- size class and main economic activity of businesses.

Introduction

Coherent compilation of trade statistics by enterprise characteristics requires micro level data linkage.

This can be done by establishing a linkage between trade registers and business registers.

The linkage of trade statistics with business statistics allows to measure,

- on the one hand, the contribution of real economic sectors to trading,
- on the other hand, to complement business data with detailed information on trade.

Data Requirements

External Trade Statistics

- ✓ Country
- ✓ Product (CPA 2008)
- ✓ Value (\$)

Business Register

- ✓ Activity Sector (NACE Rev.2)
- ✓ Number of employees

Most important benefit of linkage is
no additional
burden on data providers.

Definition

- ✓ ***Reference year; 2011***
Dataset are compiled by linking micro data (data at trader level) on external trade with business registers in 2011

- ✓ ***The statistical unit; enterprise***

- ✓ ***Activity code; NACE Rev.2***
(B-E: Industry, G:Trade, Others)

- ✓ ***Product Code; CPA 2008***

Definition

- **Trade by activity**
 - What is the contribution of each activity sector to total trade?
- **Trade by activity and products**
 - Does an enterprise trade typical products of that industry?
 - Which industries are involved in trade of each product (manufacturers, service sector)?
- **Trade by size-class**
 - What is the contribution of small, medium-sized and big enterprises to trade?
- **Trade by size-class and activity**
 - Are small/big enterprises more typical in trade flows of certain activity sectors?
- **Trade by products or by partners**
 - How concentrated is the trade in particular products or with particular partner countries?

Matching Rates-1

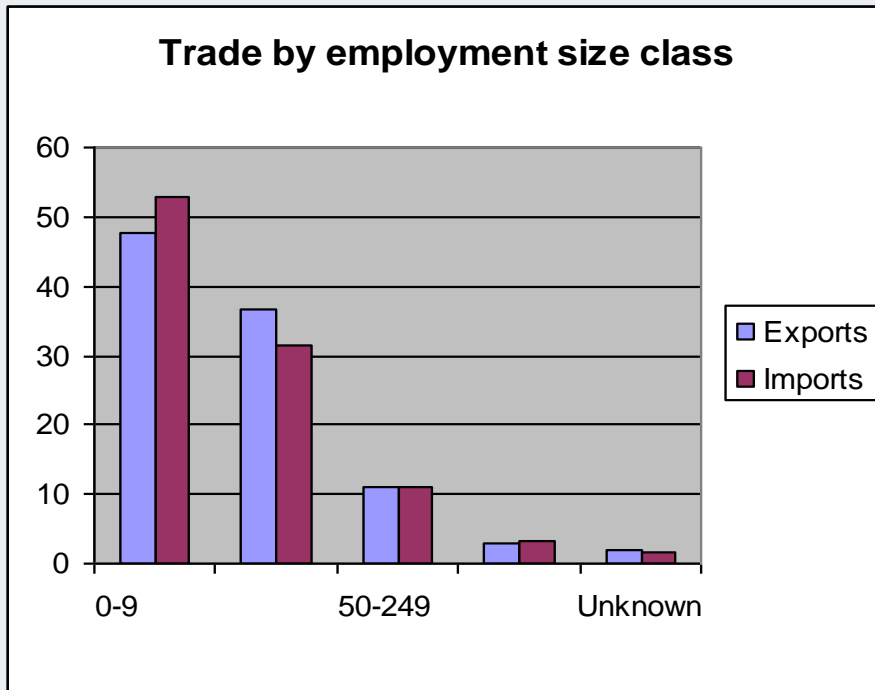
		Exports	Imports
		2011	2011
All trade operators	Number of foreign trade operators	53.140	68.391
	Value (000 \$)	134 906 869	240 841 676
Trade operators successfully matched with BR	Number of foreign trade operators	52 495	63 351
	Value (000 \$)	134 682 469	240 305 843
	Trade coverage (Number, %)	98,8	92,6
	Trade coverage (Value, %)	99,8	99,8

Matching Rates-2

Matching may be impaired by various reasons.

- ✓ Matching can be hampered for instance in cases when there is no ID code in use. In other words, this data contains normally all trade information - product and partner country - but not information on the business characteristics (activity sector or size-class).
- ✓ From the methodological viewpoint this procedure is analogical to the cases where matching is successful but in the business register size-class missing is defined unknown.

Trade by Employment Size Class (Number of enterprises)



Small and Medium Sized Enterprises (SME's) are forefront for both

- **Exports %95.1**
- **Imports %95.0**

Number of Employees

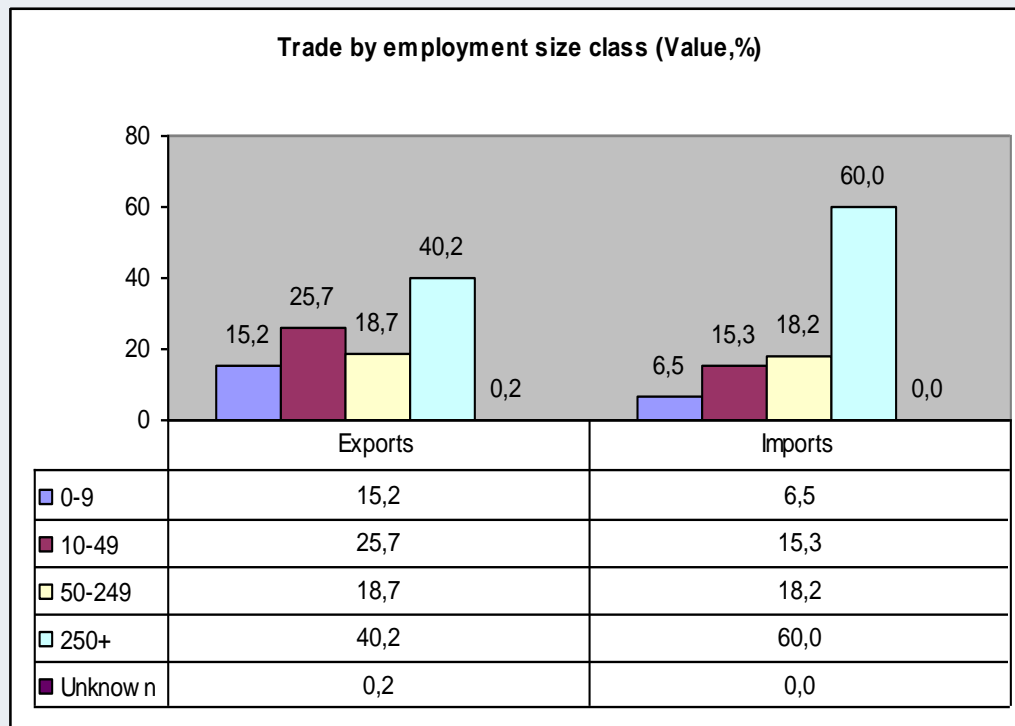
0-9 » Micro enterprise

50-249 » Medium- sized enterprise

10-49 » Small enterprise

250+ » Large enterprise

Trade by Employment Size Class



The proportion of SME's is

- 59,6% for exports
- 39,9% for imports

Number of Employees

0-9 » Micro enterprise

50-249 » Medium- sized enterprise

10-49 » Small enterprise

250+ » Large enterprise

External Trade by Activity



Exports

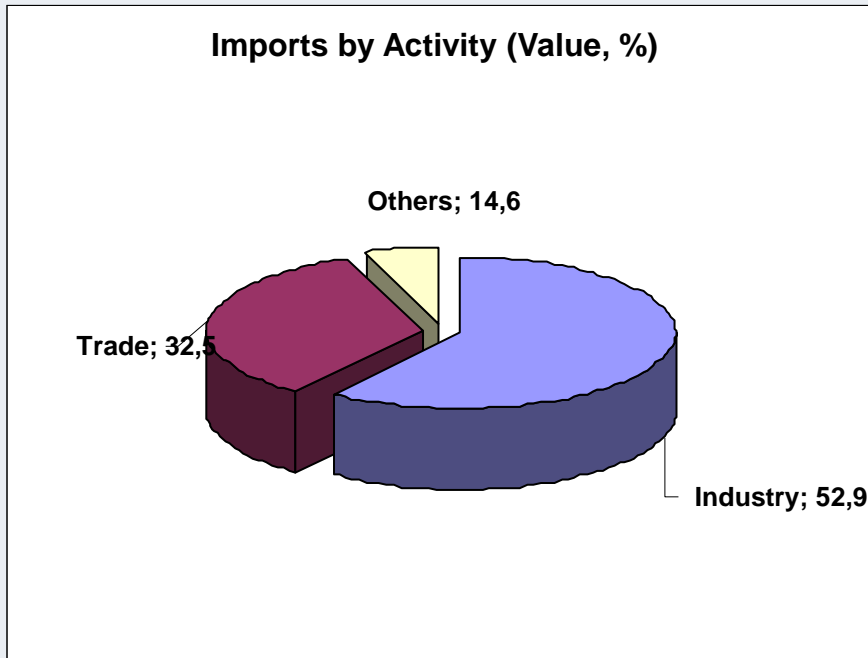
➤ “Industry”

first,

➤ “Trade”

second

External Trade by Economic Activity



Imports

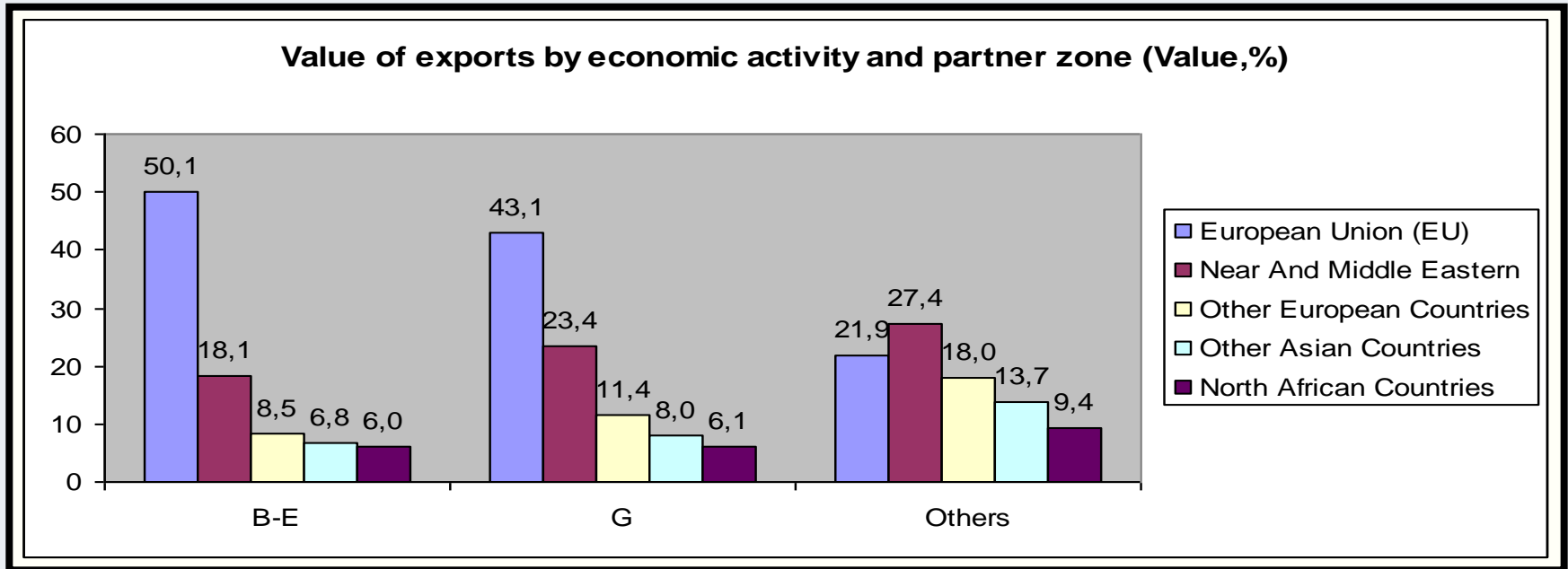
➤ “Industry”

first,

➤ “Trade”

second

Trade by Economic Activity and Partner Zone



Industrial enterprises exported to :

EU 27

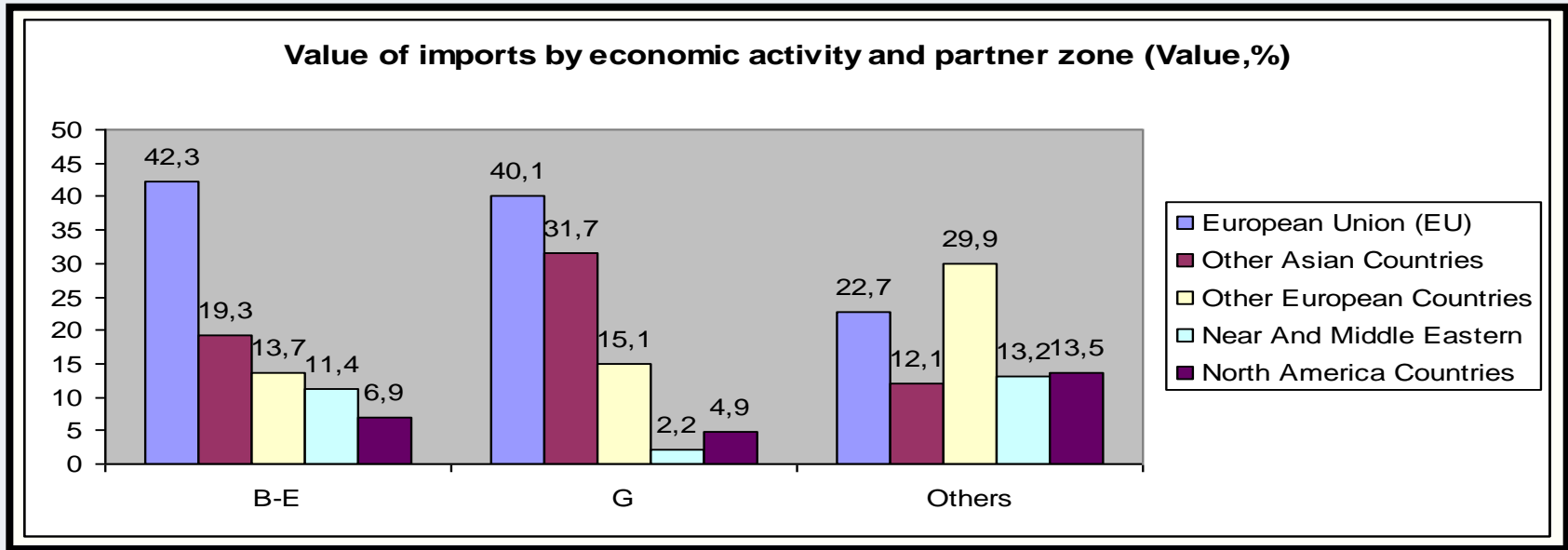
Near and Middle East

Other European Countries

North African Countries

Other Asian Countries

Trade by Economic Activity and Partner Zone



Industrial enterprises imported from :

EU 27

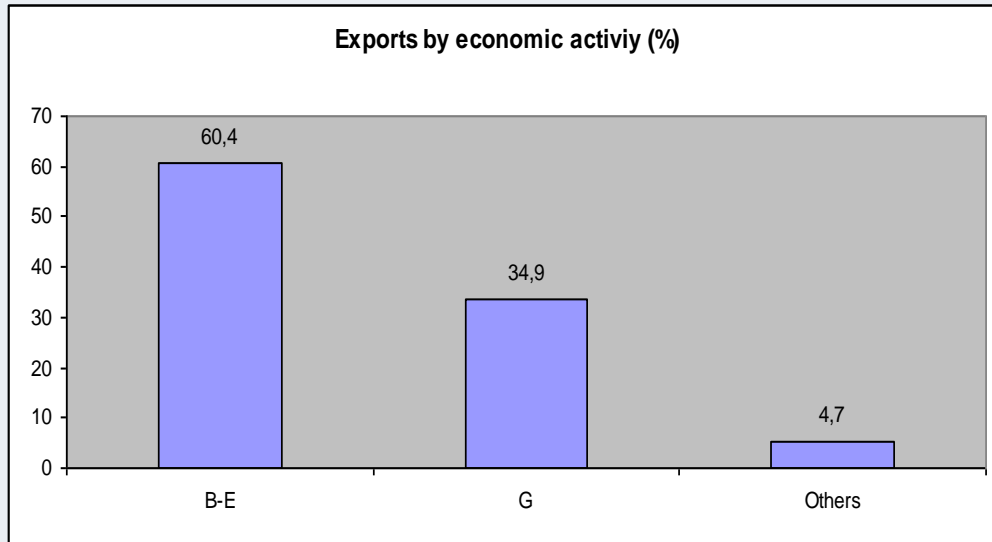
Other Asian Countries

Other European Countries

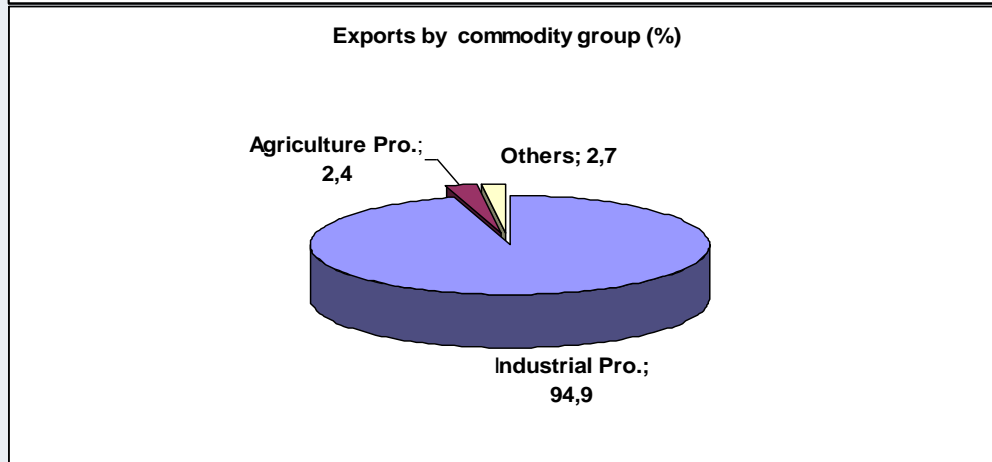
Near and Middle East

North American Countries

Trade by commodity group and economic activity(%)

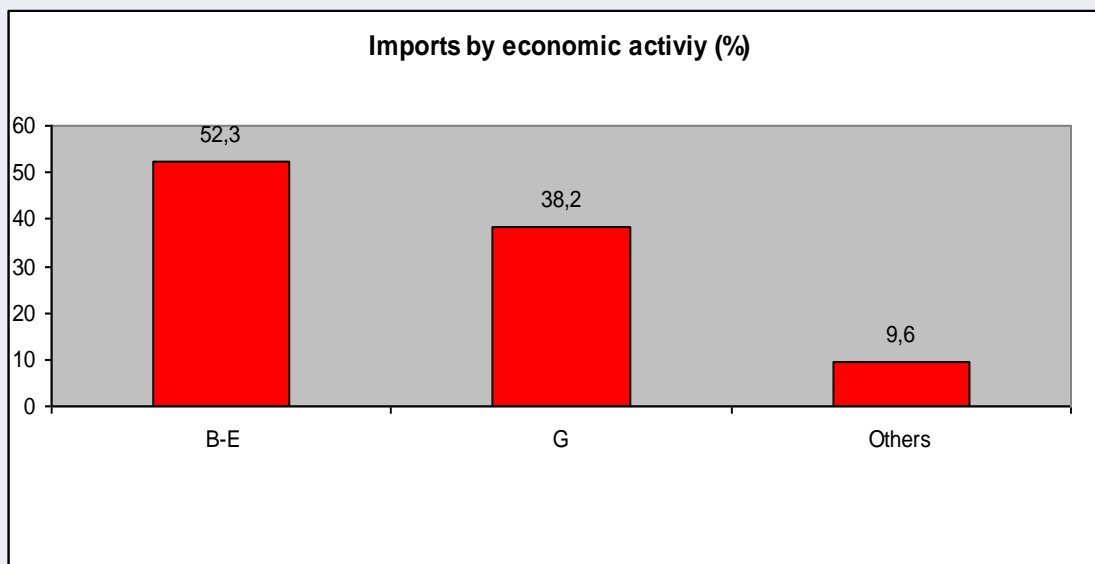


❖ 60,4% of enterprises which exported industrial products, performed in “industry” as a main activity

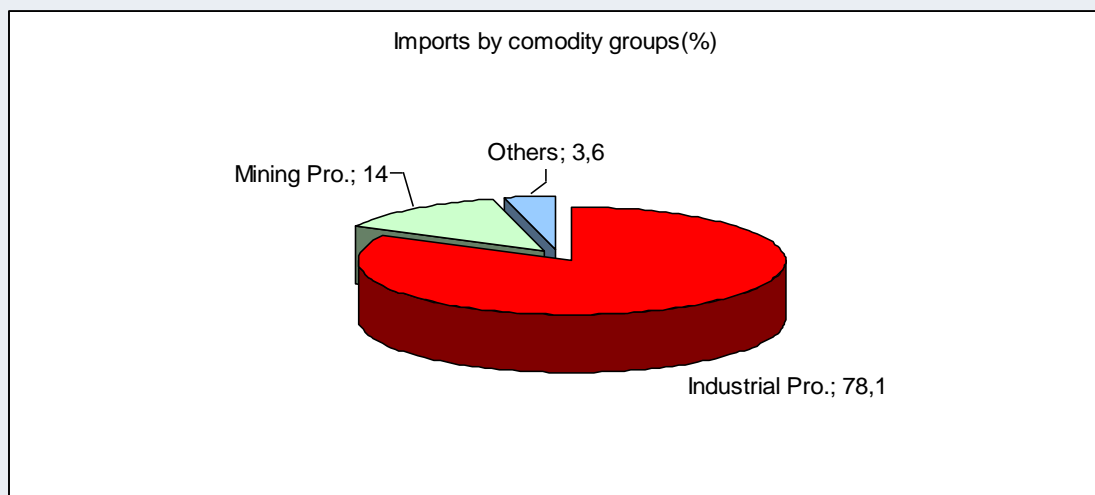


❖ Industrial enterprises exported “industrial products” as a rate of 94,9% and 2,7% “agricultural products”

Trade by commodity group and economic activity(%)



❖ **52,3% of enterprises which imported industrial products, performed in “industry” as a main activity**



❖ **Industrial enterprises imported “industrial products” as a rate of 78,1% and 14% “mining products” and 3,6% “agricultural products”**

Concentration of trade by economic activity (%)

		B-E	G	Others	Total			B-E	G	Others	Total
		Industry	Trade					Industry	Trade		
Exports	Top 5 enterprises	18,5	13,9	20,7	17,0	Imports	Top 5 enterprises	20,2	11,9	52,8	22,0
	Top 10 enterprises	25,6	19,8	25,8	23,6		Top 10 enterprises	27,0	17,8	60,1	28,5
	Top 20 enterprises	32,3	26,3	33,1	30,2		Top 20 enterprises	35,6	25,7	68,9	36,9
	Top 50 enterprises	40,5	36,5	45,3	39,4		Top 50 enterprises	47,1	37,3	79,3	48,4
	Top 100 enterprises	47,7	44,6	55,7	47,0		Top 100 enterprises	56,7	46,1	85,5	57,2
	Top 500 enterprises	68,8	65,4	81,7	68,3		Top 500 enterprises	77,1	68,1	94,3	76,5
	Top 1000 enterprises	78,8	75,3	90,7	78,2		Top 1000 enterprises	85,0	77,0	96,9	84,1
	All enterprises	100	100	100	100		All enterprises	100	100	100	100

Trade according to number of partner countries, 2011(%)

		Economic Activity (NACE Rev.2)					
		B-E Industry	G Trade	Other	B-E Industry	G Trade	Other
		Exports			Imports		
1 partner country	Number (%)	38,1	46,4	62,6	38,2	47,6	54,6
	Value (%)	3,4	9,2	34,0	1,3	6,1	5,7
2 partner countries	Number (%)	16,3	17,3	16,5	15,8	17,1	17,6
	Value (%)	2,6	5,8	14,9	1,3	4,5	2,4
3-5 partner countries	Number (%)	20,1	18,8	13,2	21,8	19,3	17,4
	Value (%)	7,0	9,7	24,9	4,4	11,3	4,2
6-9 Partner countries	Number (%)	10,6	8,2	4,5	11,8	8,6	6,0
	Value (%)	6,6	9,8	7,9	6,0	10,5	5,5
10-14 partner countries	Number (%)	6,0	3,9	1,8	6,3	4,0	2,7
	Value (%)	8,1	9,0	8,0	8,3	13,9	52,5
15-19 partner countries	Number (%)	3,2	2,0	0,5	3,0	1,8	1,0
	Value (%)	6,6	5,5	2,4	8,2	7,8	9,2
20+ countries	Number (%)	5,7	3,3	0,9	3,1	1,7	0,8
	Value (%)	65,7	51,0	7,9	70,5	45,9	20,4

Thank you
for your attention!