Empirical setting

Estimation

Conclusions

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EU Enlargement, Economic Interdependence and the Labor Markets in 'Old' and 'New' Member States

Alessia Lo Turco* and Aleksandra Parteka**

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Politiche dell'Unione Europea, processi di integrazione economica e commerciale ed esiti del negoziato Wto

1/19 Aleksandra Parteka (SMYE2009,Istanbul 23-25April) Economic interdependence in the enlarged EU

Outline	Introduction	Empirical setting	Estimation	Conclusions







- Data
- Descriptive statistics



Estimation

- Model 1 Total domestic labor vs foreign wages
- Model 2 Domestic employment vs foreign wages by skills

5 Conclusions

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The fact	ts			

- european integration widening in the 1990s involves ex-communist (relatively) low labor cost countries in trade relations with EU-15 countries
- **outward processing trade** boosted (Baldone et al., 2001; de Benedictis and Tajoli, 2008)
- dynamic changes in employment levels and composition in CEECs (periods of high unemployment, structural change, quality upgrading of employment structures?)

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The theory: home and foreign labor - complements or substitutes?

• models with one final good:

Iow skilled labor easily subsitutable by foreign workers from low labor cost locations; foreign **high skilled Iabor rather a complement** for domestic skilled workers (Feenstra and Hanson, 1996, 1999, 2003)

• models with two final goods:

fragmentation of production process - labor intensive parts of production done abroad in labor abundand countries (Arndt, 1997);

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Usually country specific studies (focused on the effects of OPT/intermediate inputs trade)

• Old Members (EU-15):

- in general offshoring and OPT positively affect the relative demand for skilled labor in EU-15
- Austria: Egger&Egger (2003, 2005); Italy and Germany: Helg&Tajoli (2005); Germany: Geischecker (2006)

New Members:

- σ convergence of average wages among CEECs but negative impact of intermediate goods trade on skilled/unskilled wage bill ratio
- Egger&Egger (2002), Egger (2006), Egger&Stehrer (2003): few CEECs

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- 'Old' and 'New' EU members at same time
- **beyond manufacturing** (also services: renting of machinery and equipment, computers and related activities, R&D, financial services etc.)
- domestic demand for labor (overall and for different skill categories) affected by home and foreign input prices (elasticities of L with respect to own and foreign wages)
- **endogeneity** of trade intensification taken into account.

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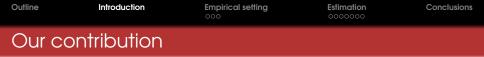
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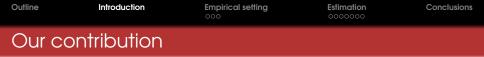
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Data and panel composition

- 'Old': EU-15 and 'New': NMS-5 (Poland, Czech Republic, Slovenia, Hungary, Slovakia)
- 1995-2005; 13 tradable sectors
- Trade data from UN Comtrade (WITS)
- Sector specific labor market statistics from EUKLEMS (overall + by skilled&unskilled workers)
- additional data: exchange rates (Eurostat); price indices (EUKLEMS)

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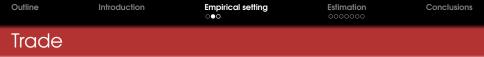
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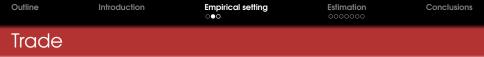
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Trade				

- Trade with EU-15 much more important for NMS than trade with NMS for the EU-15. In 2005: max 14% of EU-15 imports (in a sector) were coming from the NMS, while as much as 70% of NMS imports were coming from the EU-15
- 1995-2005: NMS (mainly NMS-5) gained importance as a source of EU-15 imports
- since 1995 NMS turn from net importers to net exporters also in more advanced sectors (`Electrical and optical equipment', `Transport equipment')



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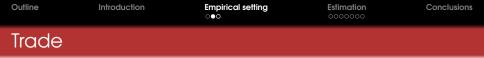
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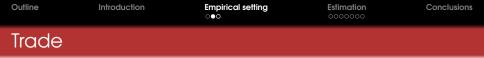
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Labor markets dynamics

- some asymmetries in sectoral employment growth between 'Old' and 'New' members (tradable economy grew in EU-15, modest changes in NMS but dynamics of labor differentiated across sectors)
- skill upgrading both in EU-15 and NMS but interestingly NMS-5 use less intensively high skill labor in typical high-tech sectors while workers with high education level are employed also in less advanced sectors



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Outline	Introduction	Empirical setting	Estimation ●000000	Conclusions
	es partners' nent level?	labor cost inf	uence dor	nestic

Sector level estimation (country i, sector j, time t)

 $emp_{ijt} = \alpha + \beta_0 emp_{ijt-1} + \beta_1 wp_{Lijt}^{New} + \beta_2 wp_{Lijt}^{Old} + \beta_3 y_{ijt} + \beta_4 w_{ijt} + \delta D_t + \theta D_j + +\mu_{ij} + \epsilon_{ijt}$

emp= {log of persons engaged, employees}
y = log of real output
w = log of real domestic wage
time and industry effects

wp^{New}, wp^{New} - logs of partners' wage:'New', 'Old' GMM system estimation (dynamic model+endogeneity problems)



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Employment effects of wage conditions in Partner countries

	SYS-	GMM	SYS-	GMM		GMM
	1 st step	2 nd step	1 st step	2 nd step	1 st step	2 nd step
Panel B	(Dep.v	ariable DON	IESTIC EMPLO	DYMENT - Nu	mber of Emp	oloyees)
	All Sc	ample	`New'	(NMS-5)	`Old′	(EU-15)
emp_1	0.881***	0.874***	0.842***	0.822***	0.961***	0.957***
	(0.045)	(0.052)	(0.048)	(0.074)	(0.017)	(0.019)
W	-0.738*	-0.824*	-1.533	-2.935	-0.382**	-0.377*
	(0.447)	(0.424)	(0.998)	(1.862)	(0.178)	(0.196)
Y	0.056**	0.063**	0.04	0.029	0.021	0.023
	(0.027)	(0.031)	(0.035)	(0.064)	(0.025)	(0.023)
wp ^{Old}	-0.115*	-0.114*	-0.114	-0.062	-0.075**	-0.077*
	(0.064)	(0.065)	(0.114)	(0.175)	(0.035)	(0.040)
wp_L^New	0.035	0.048	-0.013	-0.016	0.047**	0.050**
· L	(0.032)	(0.035)	(0.070)	(0.117)	(0.021)	(0.021)
Obs.	2470	2470	650	650	1820	1820
Groups	247	247	65	65	182	182
Hansen	0.06	0.06	0.99	0.95	0.08	0.08
AR(2)	0.56	0.55	0.69	0.7	0.54	0.53

Note: Robust Standard Errors in Brackets.

All estimates bear industry dummies and common time effects.

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ϵ based on the estimation of **cost shares of high and low** skilled labor: (Berndt, 1991; Hijzen et al., 2005)

 $\forall k = h$ (high skill), I (low skill); $\forall z = \{Old, New\}$; country i, sector j, time t

$$\tilde{S}_{ht} = \alpha_h \tilde{S}_{ht-1} + \sum_{k=h}^{I} \beta_{hk} * \frac{\tilde{w}_{kt}}{\tilde{p}_{mt}} + \gamma_{hy} * \tilde{\gamma}_t + \sum_{z=New}^{Old} \sum_{k=h}^{I} \delta_{hk}^z * \tilde{wp}_{kt}^z$$

•
$$\tilde{S}_{lt} = \alpha_l \tilde{S}_{lt-1} + \sum_{k=h}^l \beta_{lk} * \frac{\tilde{w}_{kt}}{\tilde{\rho}_{mt}} + \gamma_{ly} * \tilde{y}_t + \sum_{z=New}^{Old} \sum_{k=h}^l \delta_{lk}^z * \tilde{w} \tilde{\rho}_{kt}^z$$

 w_k - log of domestic hourly wage wp_k^z - log of weighted cost of labor in partner countries ~- deviation from the cross-sectional mean p_{mat} - unit price of material inputs y - log of real output

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 $\forall n = h \text{ (high skill), I (low skill)}$

•
$$\epsilon_{nn} = \frac{\beta_{nn} + S_n^2 - S_n}{S_n}; n = \{h, I\}$$

•
$$\epsilon_{nm} = \frac{\beta_{nm} + S_n S_m}{S_n}$$
; $n, m = \{h, l\}$ and $n \neq m$

for example $\epsilon_{L_l W p_l}$:

 if positive elasticity of L₁ with respect to wp₁ then domestic and foreign low skill labor are substitutes (thus competition between domestic low skilled and foreign low skilled)

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• if negative elasticity - then complementarity



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• alternative definitions of low and high skilled (where medium skill workers should be put?)

•
$$h_1 = HS; I_1 = MS + LS$$

•
$$h_2 = HS + MS; I_2 = LS$$

- estimates by sectors groups heterogeneity of sectors (low skill intensive and high skill intensive)
- estimates by EU-15 subgroups heterogeneity within 'Old' group
 - specialising in skill intensive sectors or not
 - more involved and less involved in trade with NMS

Outline	Introduction	Empirical setting	Estimation	Conclusions
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Elasticities L vs wp - selected results 1

Panel A:	$h_1 = HS$ $I_1 = MS + LS$					
	DOMESTIC LABOUR					
	All Sc	Imple	`New' ((NMS-5)	`Old' ((EU-15)
	Lhl	LII	L _{h1}	L _{I1}	Lhl	L_{l_1}
w _{h1}	-0.76***	0.05***	-0.98***	0.05***	-0.67***	0.05***
w _{/1}	(0.03) 0.21***	0) -0.78***	(0.05) 0.17***	0) -0.82***	(0.03) 0.22***	0) -0.77***
1	0)	0)	0)	0)	0)	0)
У	-0.13*** (0.02)	-0.09*** (0.01)	-0.14*** (0.04)	-0.14*** (0.02)	-0.14*** (0.02)	-0.09*** (0.01)
wp ^{Old}	0.03	0.06*	-0.26	0.2*	0.03	0.02
	(0.07)	(0.04)	(0.19)	(0.12)	(0.07)	(0.03)
wp ^{Old}	-0.02	0	0.18	-0.24	0	0.07*
	(0.08)	(0.04)	(0.23)	(0.14)	(0.08)	(0.04)
$wp_{h_1}^{New}$	0.11***	-0.03	0.87***	0.19**	0.01	-0.06***
1	(0.06)	(0.03)	(0.15)	(0.1)	(0.05)	(0.03)
wp ^{New}	-0.17***	-0.03	-1.14***	-0.31***	-0.05	0.02
	(0.05)	(0.03)	(0.16)	(0.1)	(0.05)	(0.03)

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Elasticit	ies L vs wp	- selected res	ults 2	

Panel A:					$l_1 = MS + LS$ DOMESTIC LABO	ID	
		High Skill int	ensive sectors	High Skill i	ntensive sectors I. Services		ensive sectors
		L _{h1}	L_{l_1}	Lh1	LII	L _{h1}	L_{l_1}
'OLD'	wp _{h1} old	-0.04	0.05	-0.16	0.07	0.59***	-0.03
LESS		(0.09)	(0.06)	(0.24)	(0.13)	(0.14)	(0.07)
INVOLVED	wp _{l1} old	-0.21**	-0.12*	0.18	-0.08	-0.27	0.09
	wp ^{new}	(0.1) 0.36***	(0.07) 0.03	(0.26) 0.28**	(0.14) 0	(0.17) -0.08	(0.08) 0
	wp ^{new}	(0.09) -0.44***	(0.06) -0.15**	(0.14) -0.26*	(0.08) -0.09	(0.09) -0.01	(0.04) -0.03
'OLD'	wp _{h1} ^{old}	(0.1) 0.04	(0.06) -0.07	(0.14) 0.03	(0.08) -0.23*	(0.08) 0.66****	(0.04) -0.27***
MORE	• 11	(0.18)	(0.09)	(0.27)	(0.12)	(0.15)	(0.06)
INVOLVED	wp _{l1} old	-0.01	0.11	0.01	0.33***	-0.61***	0.35***
	wp ^{new}	(0.2) -0.08	(0.09) 0.08	(0.29) -0.12	(0.13) -0.13	(0.16) -0.46***	(0.07) - <mark>0.14***</mark>
	wp ^{new}	(0.13) -0.01	(0.07) -0.13*	(0.25) 0.09	(0.11) 0.14	(0.1) 0.43****	(0.04) 0.13***
	'1	(0.14)	(0.07)	(0.26)	(0.11)	(0.09)	(0.04)

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- Revealed interaction mechanisms between EU-15 and NMS-5 labor markets, resulting from the intensification of trade relations between 'Old' and 'New' member states;
- In particular domestic EU15 employment levels negatively related to wage conditions in EU-15 partners (complementarity) and positively related to wage levels in 'New' partners (substitution)
- Competition between EU15 and NMS-5 labour especially considers workers employed in low skill intensive sectors in those 'Old' countries that trade intensively with the 'New' ones

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Thank You! (Contact: *aparteka@zie.pg.gda.pl*)

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