Labour Force Mobility in Poland - Preliminary Analyses

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April 21, 2005

Various aspects of labour market mismatches

- skills mismatch (education level)
- occupational mismatch/industrial mismatch (industry specific skills)
- demographic mismatches (race, gender, age)
- regional mismatch lack of spatial mobility
- sectoral mismatch private-state sector

Studies dealing with mismatches/mobility in CEEC

- Rutkowski (2002) Faggio&Konings (1998)(2003)
 occupational/industrial mismatches and flows between
 economic sectors + regional patterns.
- Nesporova&Cazes (2001), Sorm&Terrel 2000 personal characteristics of individual and mobility.
- Fidrmuc (2002), Bornhorst&Commander (2004),
 Andrienko&Guriev (2003) regional mismatch
- Lehman et.al (1997), Lehman&Walsh (1999), Walsh (2000) and Socha&Newell (2003) regional and skill mismatches + (Walsh 2000) demographic mismatches
- Boeri&Flinn (1999) state-private sector mismatches

Main results

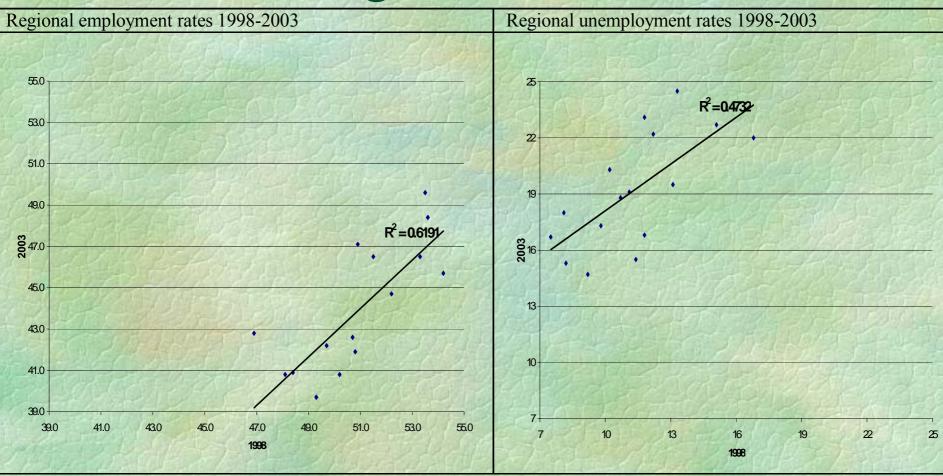
- total reallocation similar as in western economies
- most of reallocation takes place within industries,
 regions, firms sizes and mainly in developed regions
- job creation much higher in private sector
- state sector/declining industries job losers don't find jobs in private sector
- young and educated most mobile groups (most often changing jobs)
- spatial mobility similar to south-European countries
 - not enough

Main reasons for lack of spatial mobility - rather intuitive

- liquidity trap
- information barrier
- housing problems (shortages, price differentials
- underdeveloped credit market
- wage rigidity
- react to economic variables but migration patterns correlated hence economically ineffective

Mismatches and mobility in Poland - attempt of preliminary analysis

Persistent regional mismatches



•Increasing employment mismatches and falling unemployment mismatches

Education mismatch

	1998	2003						
Measures of disparity of employment rates for various education levels								
AverageDeviation	32.65%	34.36%						
Average	A PIECE							
Standard Deviation	35.82%	40.05%						
Average								
VAR (ei/e)**	15.34	18.53						
disparity	79.9 / 24.6 = 325%	73.7 / 17.8 = 414%						
maximum / minimum								
Measures of disparity of unemp	loyment rates for various educ	ation levels						
AverageDeviation	35.38%	29.68%						
Average								
Standard Deviation	40.34%	34.21%						
Average		为了一种多数多数。 第一种多数						
VAR (ui/u)	15.67	11.88						
disparity	14.4 / 3 = 480%	25.3 / 7.4 = 342%						
maximum / minimum								

Education structure of labour force tries to follow rapidly changing labour demand but it is unable to catch up - (demography, education system limitations

"Effective mobility" of Polish labour force

 measure - percentage of successful job searches in total working age population or for given subgroups

data - LFS IV'2002

total for working age population - 5.67%

Education and Age

AGE						
	15-17	18-24	25-34	35-44	45-64	
Percent of job finders	0.74%	9.79%	9.57%	5.59%	2.45%	
male	1.10%	10.27%	11.21%	6.26%	3.46%	
female	0.38%	9.32%	7.89%	4.91%	1.53%	
EDUCATION	J					
	primary	vocational	general secondary	vocational secondary	tertiary	
Percent of job finders	2.72%	6.67%	5.57%	6.42%	7.89%	
male	3.94%	7.74%	6.42%	7.19%	8.07%	
female	1.58%	4.98%	5.23%	5.76%	7.76%	

- •young and educated are the most mobile groups
- •mobility in general higher for men than women, but in increases more with education in case of women

Type of area

	rural	<5000	5000-9999	CONTRACTOR OF THE PARTY OF THE	20000- 49999	50000- 99999	>1000 00
Percent of finders	job 5.59%	6.16%	6.11%	5.43%	5.4%	6.19%	5.69%

- •does not differ much for various classes of localities
- •place of residence not of the workplace taken into account
- •high commuting?

Mobility by regions

- not correlated neither with regional employment or unemployment rates
- correlated with share of long-term unemployment in total unemployment

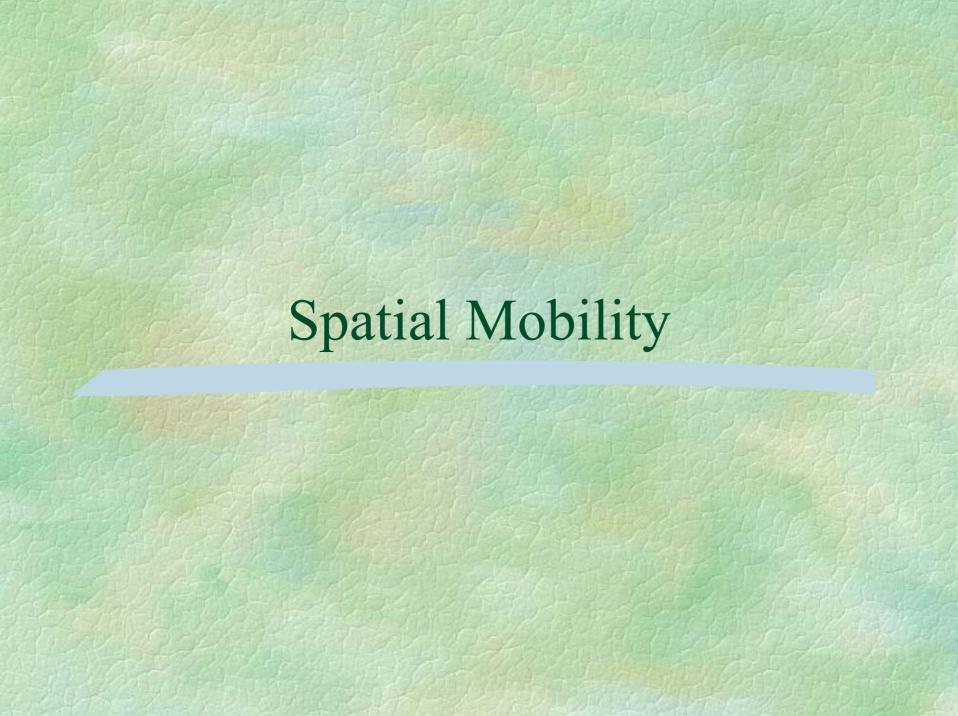
TENTATIVE EXPLANATIONS

unemployment and employment driven by labour demand if mobility exogenous mobility as such driven by job creation and job destruction

Mobility, job history and income*

<u>Ownership</u>	non-	public	communal	private	NGO,			
type of	employed				co-			
<u>2001</u>	or not				operative			
<u>employer</u>	reported							
Percent of	4.22	1.41	1.24	4.82	1.2			
job finders								
<u>economic</u>	not-	agriculture	mining	manufa	trade	market	construct	non-
activity of	reported or			cturing		services	ion,	market
<u>2001</u>	non-						commun	services
<u>employer</u>	employed						al&other	
Percent of	4.71	2.21	0.82	3.59	3.02	3.35	4.83	1.53
job finders						以原创方式		
net income	missing	reported	< 500	500-	750-1000	1000-1500	1500-	above
<u>in</u>	income	income =		750			2000	2000
<u>previous</u>		zero						
<u>main job</u>								
Percent of	4.52	2.02	5.49	4.82	2.25	2.47	1.48	4.5
job finders								

•mobility is highest for low or very high wage construction worker from private sector



Spatial mobility - 2002 census data and LFS

- According to census total mobility in 2001 was
 1.3% and interregional mobility only 0.35%
- According to LFS 2002 total mobility was 0.94% and interregional 0.26%

- LFS underestimates mobility
- 13.3% of those migrating in years 1989-2002 declared job search as the reason for migration

Age, education and mobility

AGE								
	15-17	18-24	25-34	35-44	45-64			
Change	0.16%	1.64%	1.18%	0.41%	0.18%			
locality								
Change	0%	0.67%	0.55%	0.12%	0.05%			
region								
EDUCATION (analysis only for working age population 15-64)								
EDUCATION	(analysis only	for working ag	e population 13	0-64)				
EDUCATION	primary	vocational	general	vocational	tertiary			
EDUCATION	AND THE PROPERTY OF THE PROPER	A SHOW THE RESIDENCE AND DRIVE TO SHOW THE PARTY OF A SHOW THE PAR	THE RESERVE OF THE PARTY OF THE		tertiary			
Change	AND THE PROPERTY OF THE PROPER	A SHOW THE RESIDENCE AND DRIVE TO SHOW THE PARTY OF A SHOW THE PAR	general	vocational	tertiary 1.14%			
	primary	vocational	general secondary	vocational secondary				
Change	primary	vocational	general secondary	vocational secondary				

Main hosting and sending voivodships

	As the percent of re	gions' population	The share of all mig	grants
The Control of the Control	Lowest	Highest	Lowest	Highest
Immigration/inflo	zachodniopomors	świętokrzyskie	zachodniopomors	mazowieckie
WS	kie (0,08%),	(0,49%), lubelskie	kie (1,46%),	(14,39%),
	podlaskie	(0,44%),	podlaskie	dolnośląskie
	(0,05%), lubuskie	dolnośląskie	(0,50%), lubuskie	(11.85%),
	(0,04%)	(0,42%)	(0,49%)	małopolskie
				(11,42%)
Emigration/outflo	dolnośląskie	lubuskie (0,72%),	dolnośląskie	śląskie (11,59%),
WS	(0,07%), łódzkie	warmińsko-	(2,08%), lódzkie	podkarpackie
	(0,07%), opolskie	mazurskie	(1,92%), opolskie	(10,99%),
	(0,00%)	(0,58%),	(0,00%)	lubelskie (9,29%)
		podkarpackie		
		(0.58%)		

Economic activity and migration

	Migration rates	s for groups	Group members in total number of			
			migrants			
	change	change	change	change		
OF LESS !	locality/gmina	region/voivodship	locality/gmina	region/voivodship		
employed	0.65%	0.18%	49.38%	34.91%		
unemployed	0.65%	0.22%	12.64%	10.56%		
students	0.89%	0.40%	21.08%	24.03%		
army	18.66%	16.87%	8.90%	20.25%		
servicemen						
inactive due	0.47%	0.48%	2.68%	6.87%		
to family						
matters				CONTRACT PU		
pensioners	0.14%	0.11%	1.27%	2.42%		
other inactive	0.83%	0.11%	2.94%	0.96%		

- •migration is ineffective only 19% of previously unemployed migrants have found job after migration 43% have left labour force and 37% have stayed unemployed
- •for comparison employment rate among former employed is 76% and among former students 35%

Summary

- regional and educational mismatches strong and persistent
- agricultural and declining industries job losers are not able to find jobs, regional characteristics consistent with that
- labour force mobility related to age, education and gender
- mobility (surprisingly) equal in rural and urban areas
- non-linear relationship between incomes and mobility
- most of migration decisions not related to job search and ineffective

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