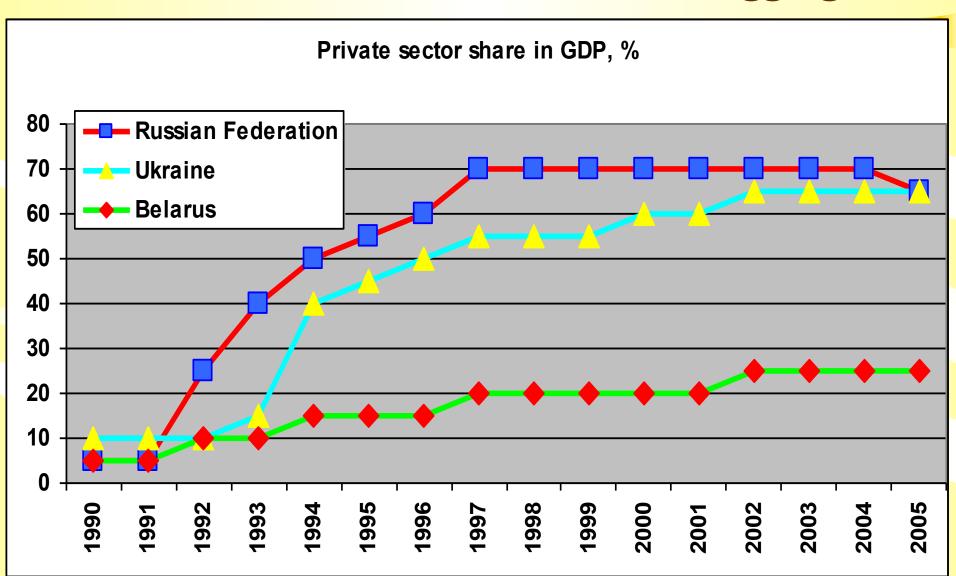
#### The Leaders and Laggers in the Slavic Triangle:

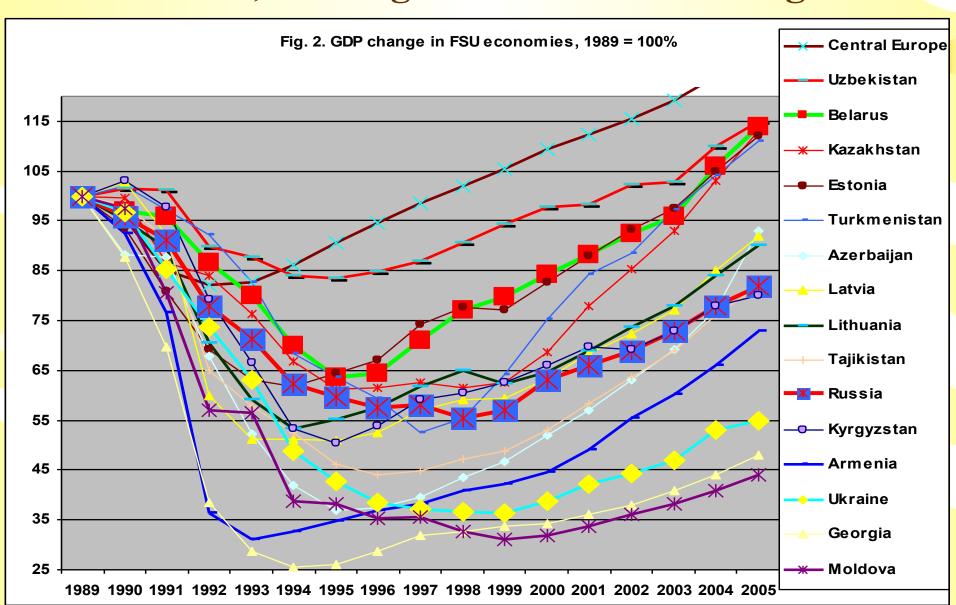
Comparative Economic Performance of Belarus, Russia and Ukraine

Vladimir Popov (vpopov@nes.ru)

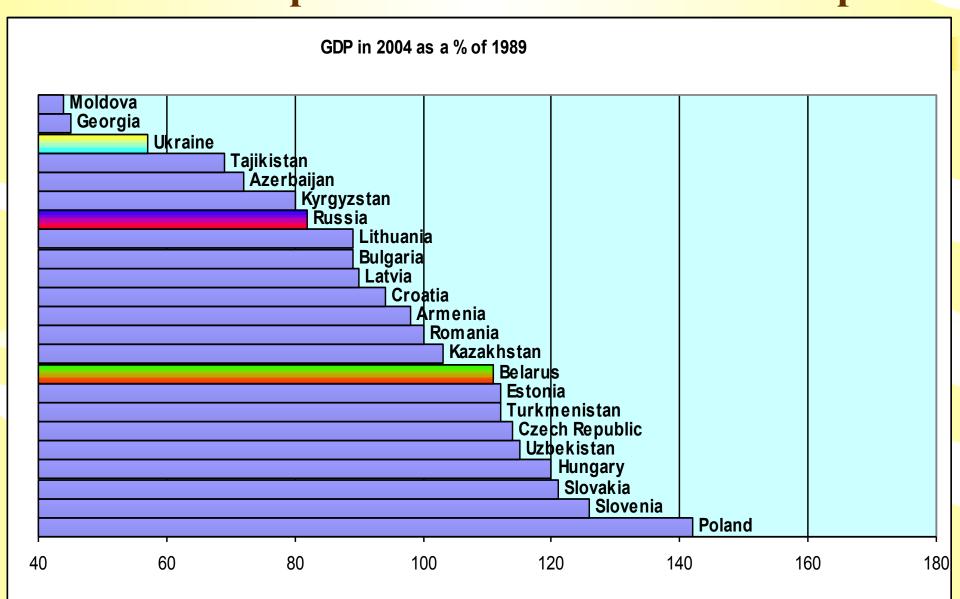
## Russia was leading in economic liberalization, while Belarus was lagging



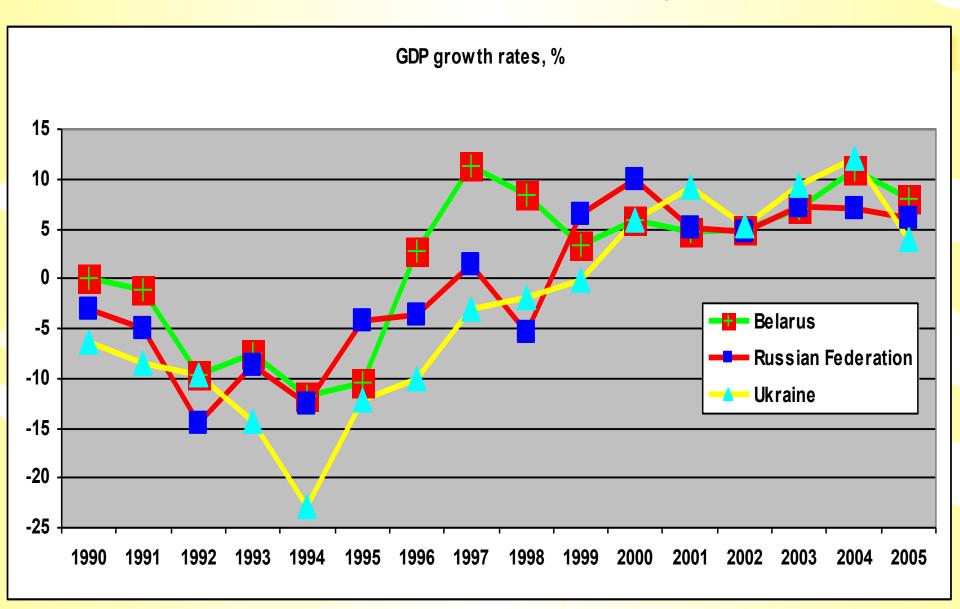
## But economic performance was more impressive in Belarus, although Russia has oil and gas



## By 2004 Belarus was among 5 FSU economies that exceeded the pre-recession 1989 level of output

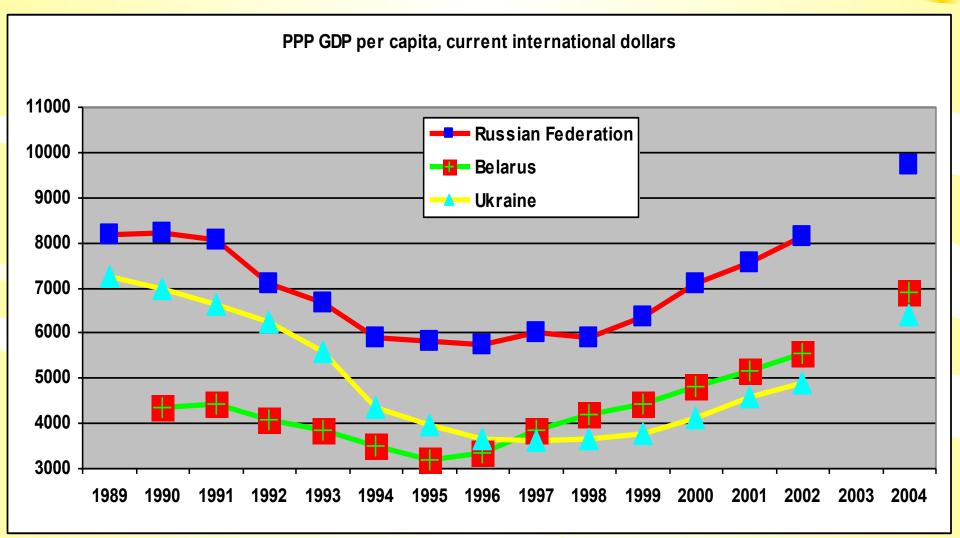


## In 1989-2005, growth rates in Belarus were higher than in Russia and Ukraine for 10 years out of 16

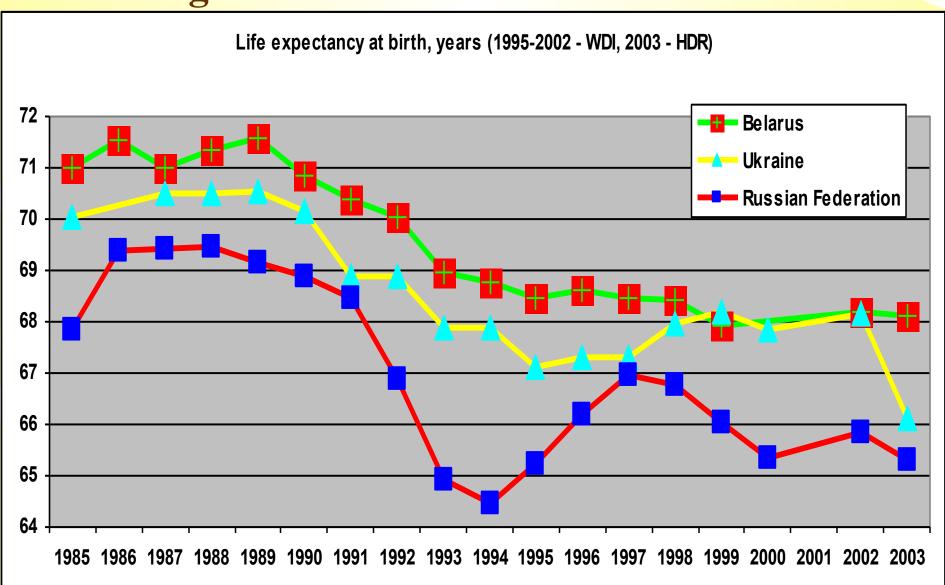


### In 1990 PPP GDP per capita in Belarus was half of that in Russia and 60% of the level of Ukraine.

In 2004 it was higher than in Ukraine and reached 70% of the Russian level

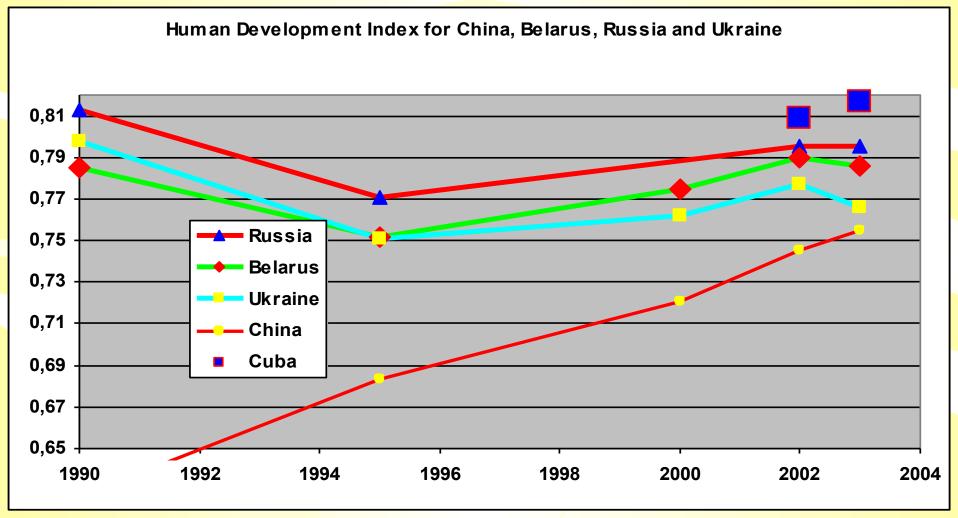


## Life expectancy in Belarus was generally higher than in Ukraine and Russia



Human Development Index (GDP per capita, life expectancy, education) was lower in Belarus than in Russia and Ukraine in 1990, but now is higher than in Ukraine and is nearly as

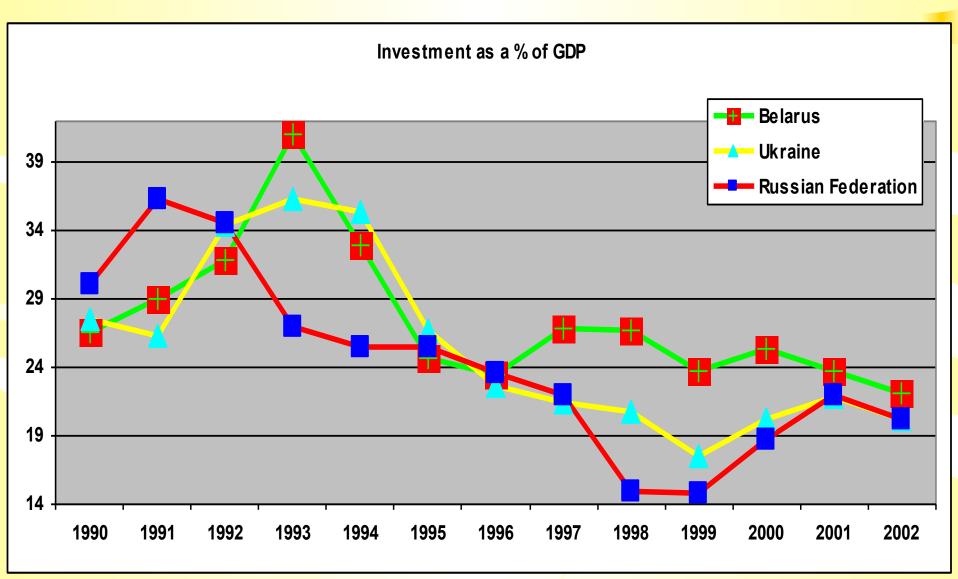
#### high as in Russia



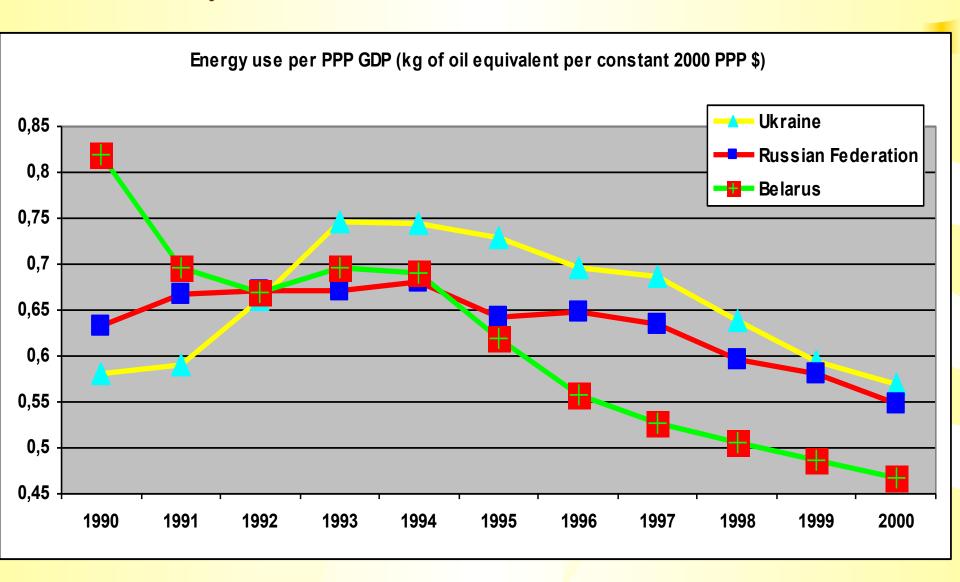
There is only one former Soviet republic with which Russia has today a negative migration balance (more people leave for B republic than come from B republic to Russia)

• Yes, it is B e la r u s

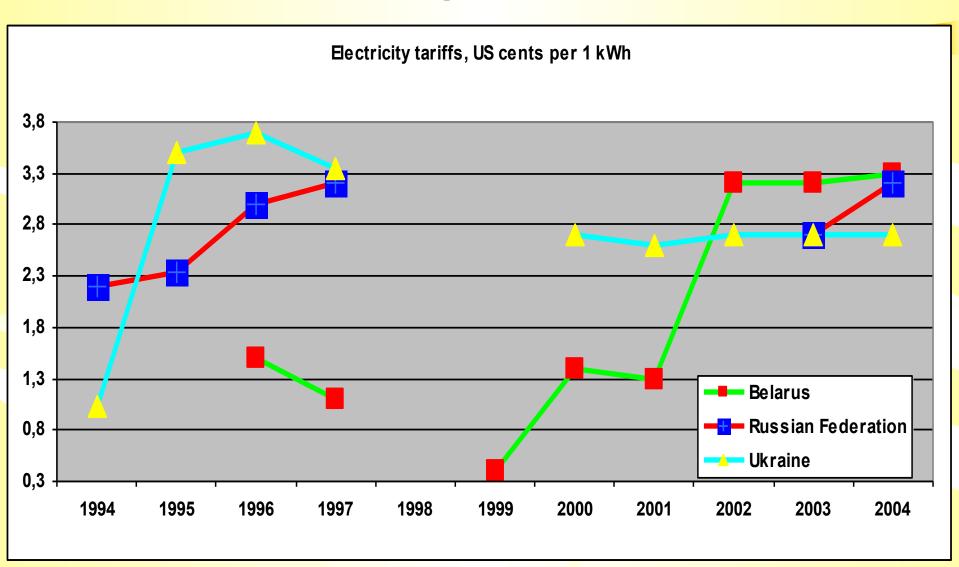
## It was argued that Belorussian economy is not restructuring, but investment is higher in Belarus than in Russia and Ukraine



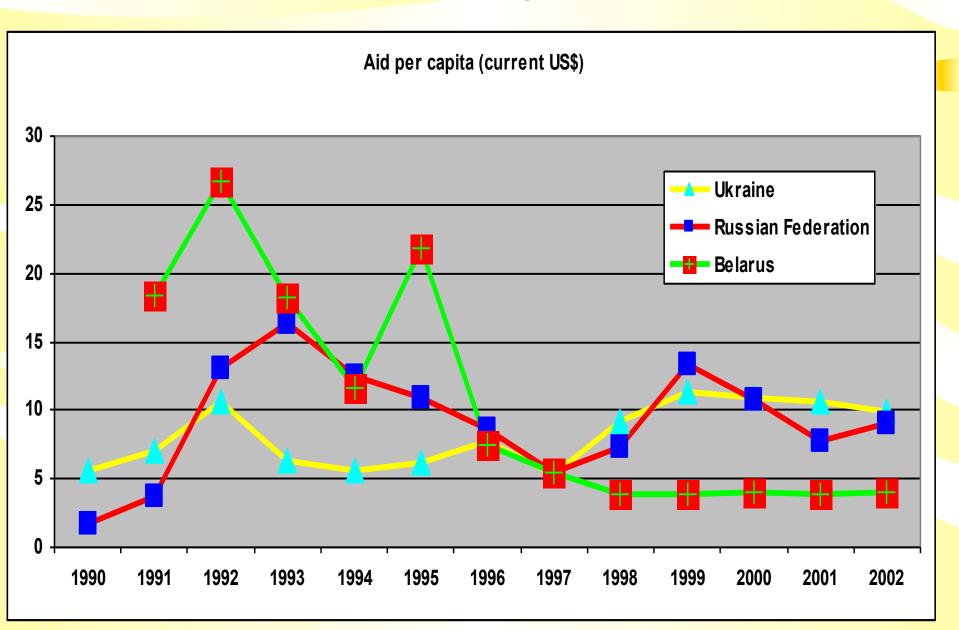
It was argued that investment are supported by government subsidies and are used to finance inefficient projects, but energy intensity of GDP fell faster than in Russia and Ukraine



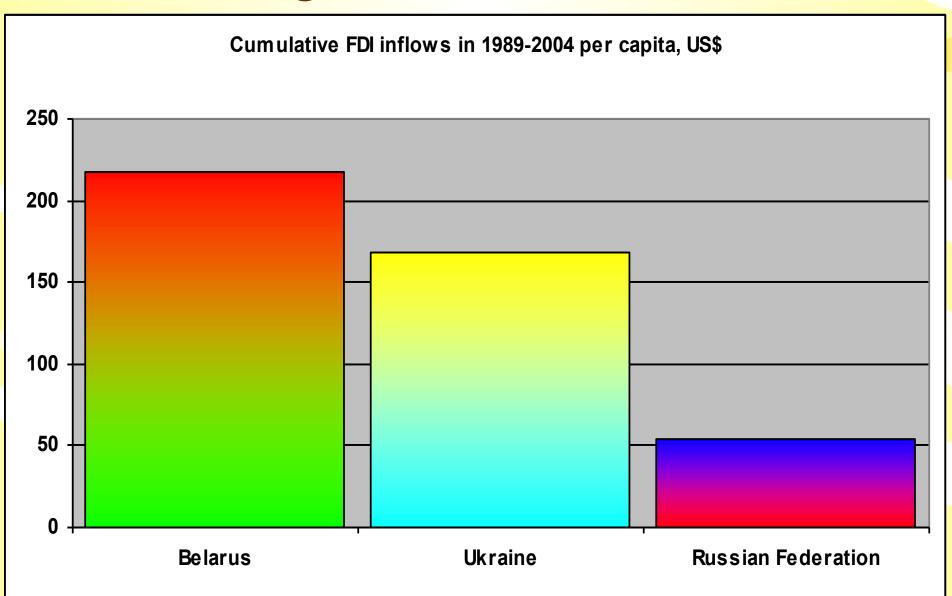
## Belarus is biting the bullet - electric energy tariffs grow fast



#### ODA to Belarus was high, but now is low



## However, investment climate is good - FDI inflows are higher than in Ukraine and Russia



### Why differences in performance? Answers are available from vpopov@nes.ru on request

- Shock Therapy versus Gradualism Reconsidered: Lessons from Transition Economies after 15 Years of Reforms. TIGER Working paper No. 82, 2005
- Shock Therapy versus Gradualism: The End of the Debate (Explaining the Magnitude of the Transformational Recession). Comparative Economic Studies, Vol. 42, Spring, 2000, No. 1, pp. 1-57.
- Reform Strategies and Economic Performance of Russia's Regions. World Development, Vol. 29, No 5, 2001, pp. 865-86.
- Democracy and Growth Reconsidered: Why Economic Performance of New Democracies Is Not Encouraging, co-authored with V. Polterovich)

#### Impact of initial conditions, institutions, liberalization: 1989-96

Table 1. Regression of change in GDP in 1989-96 on initial conditions, policy factors, and rule of law and democracy indices, robust estimates

Dependent variable = log (1996 GDP as a % of 1989 GDP)

For China - all indicators are for the period of 1979-86 or similar

Equations, Number of	1,	2,	3,	4,	5,	6,	7,
Observations / Variables	N=28	N=28	N=28	N=28	N=28	N=28	N=28
Constant	5.3***	5.4 <mark>***</mark>	5.2***	5.4***	5.4***	5.5***	5.7***
Distortions, % of GDP <sup>a</sup>	005**	005**	003	006**	007***	007***	007***
1987 PPP GDP per capita, % of the	009**	<del>00</del> 6*	007**	007**	009***	008	008***
US level						***	
War dummy <sup>b</sup>				$19^{c}$	36***	37***	45***
Decline in government revenues as					011***	011	011
a % of GDP from 1989-91 to 1993-						***	***
96							
Liberalization index			.05			02	.03
Log (Inflation, % a year, 1990-95, geometric average)	16***	20***	18***	17***	13***	13***	14***
Rule of law index, average for 1989-97, %	.008						
Democracy index, average for 1990-98, %	005 ***						003**
Ratio of the rule of law to democracy index		.07***	.07***	.06***	.05***	.05***	
Adjusted R <sup>2</sup> , %	82	83	83	85	91	91	90

<sup>\*, \*\*, \*\*\* -</sup> Significant at 1, 5 and 10% level respectively.

<sup>&</sup>lt;sup>a</sup>Cumulative measure of distortions as a % of GDP equal to the sum of defense expenditure (minus 3% regarded as the 'normal' level), deviations in industrial structure and trade openness from the 'normal' level, the share of heavily distorted trade (among the FSU republics) and lightly distorted trade (with socialist countries) taken with a 33% weight – see (Popov, 2000) for details.

<sup>&</sup>lt;sup>b</sup>Equals 1 for Armenia, Azerbaijan, Croatia, Georgia, Macedonia, and Tajikistan and 0 for all other countries.

<sup>&</sup>lt;sup>c</sup> Significant at 13% level.

### Best performance: low distortions, strong institutions Worst performance: high distortions, weak institutions

INITIAL CONDITIONS (DISTORTIONS) AND INSTITUTIONS – CLASSIFICATION OF COUNTRIES

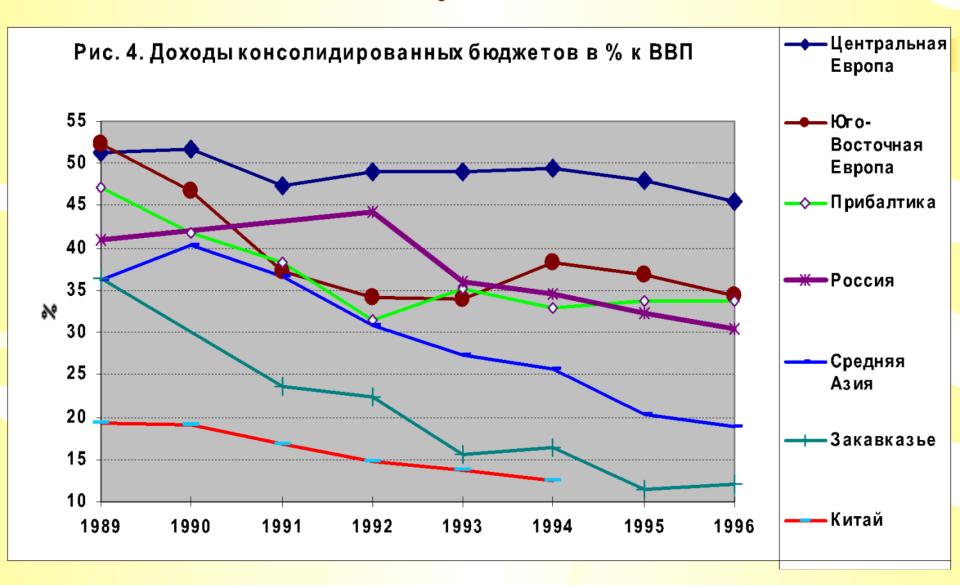
INSTITUTIONAL CAPACITY	LOW	HIGH
HIGH	CHINA, VIETNAM	EASTERN EUROPE
LOW	ALBANIA, MONGOLIA	FSU

# Belarus had very distorted economy before transition, but managed to avoid the collapse of the institutional capacity of the state

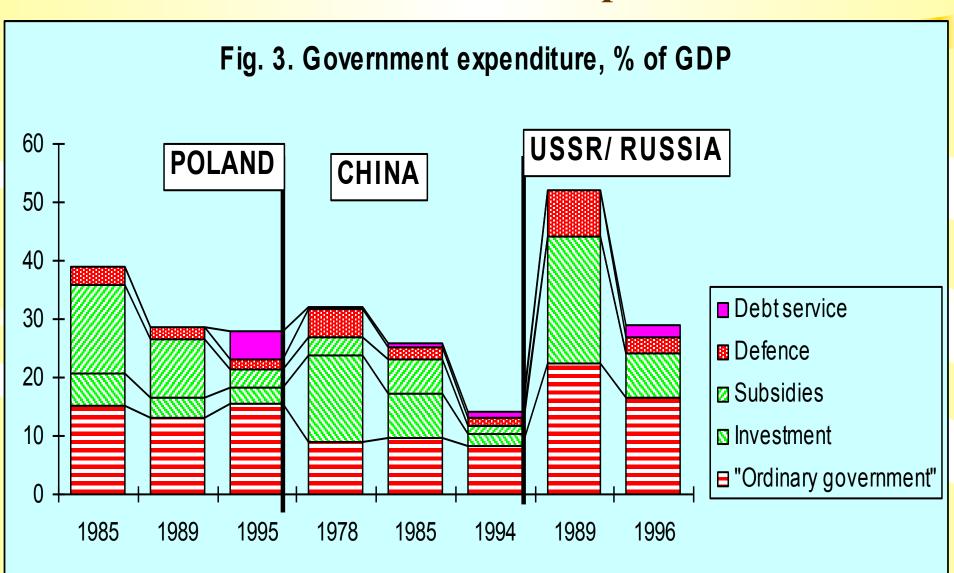
INITIAL CONDITIONS (DISTORTIONS) AND INSTITUTIONS – CLASSIFICATION OF COUNTRIES

DISTORTIONS	LOW	HIGH
INSTITUTIONAL		
CAPACITY		
<b>HIGH</b>	CHINA,	BELARUS
	VIETNAM	
LOW	RUSSIA	<b>UKRAINE</b>

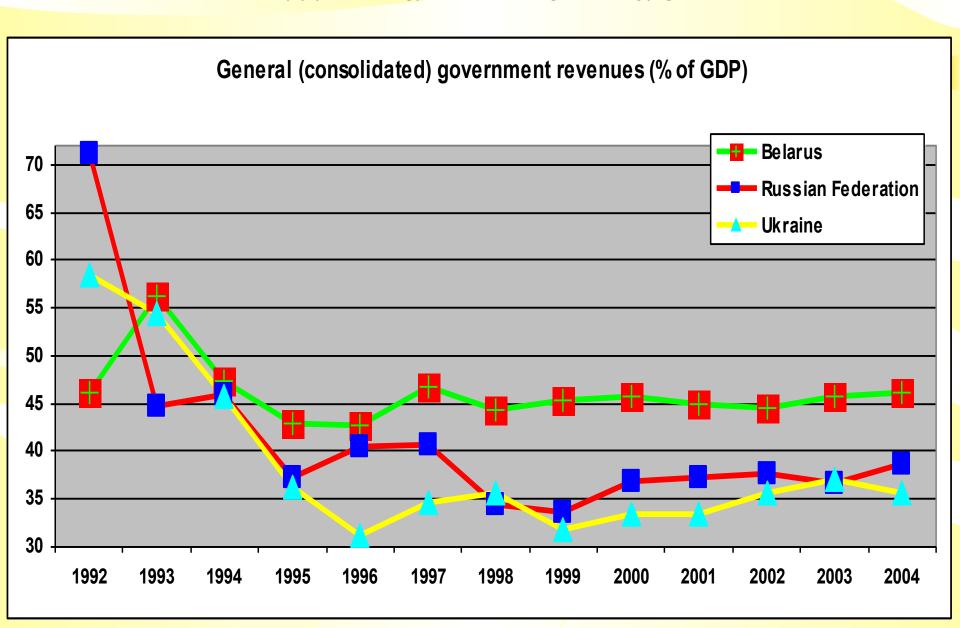
## Government revenues and expenditure declined in virtually all transition economies



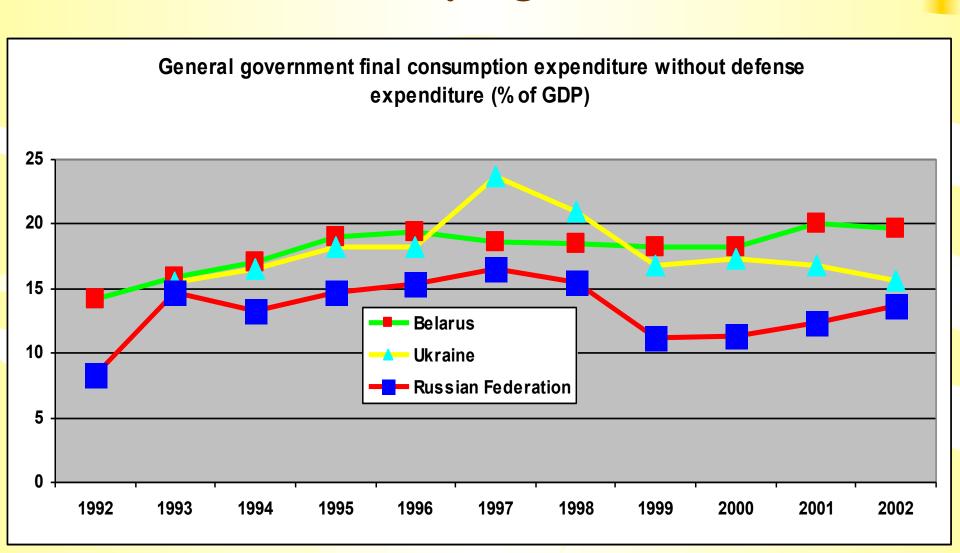
## Expenditure for "ordinary government" did not decline in Central Europe and in China...



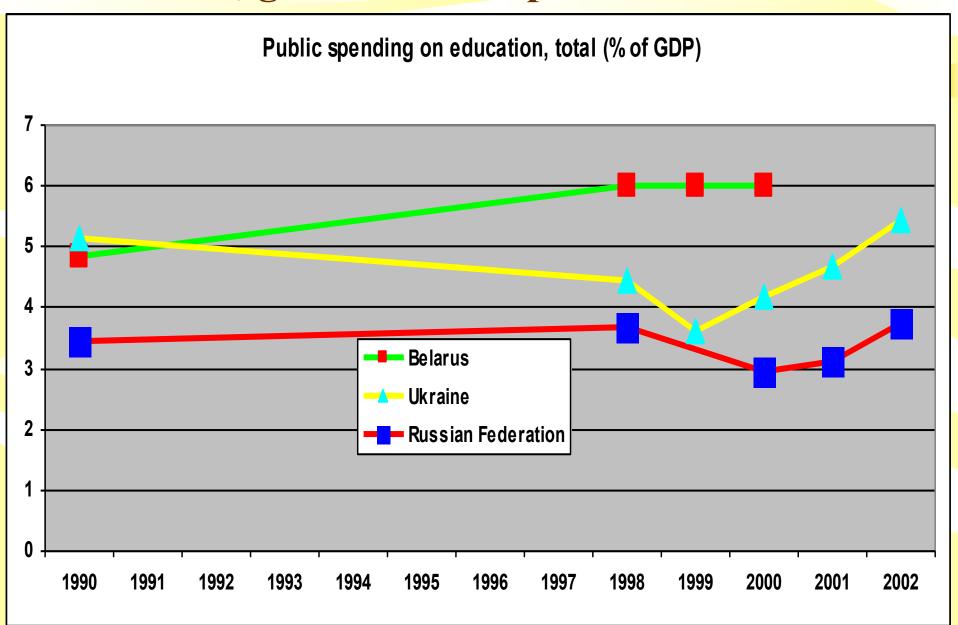
#### ...And in Belarus



# Government purchases of goods and services (i.e. government expenditure minus transfers) were relatively high in Belarus



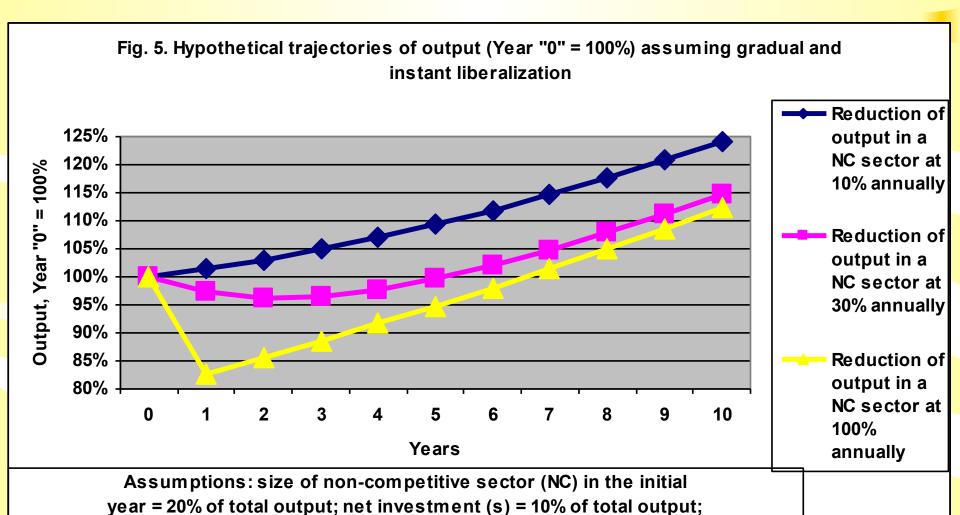
#### For instance, government expenditure on education



- The impact of the speed of liberalization at the initial stage of transition, i.e. during the transformational recession, appears to be negative, if any.
- The reason for the negative impact is most probably associated with limited ability of the economy to adjust to new price ratios

 Differences in performance during transition depend strongly on the initial conditions:

- The higher the distortions (militarization, overindustrialization, "under-openness" of the economy and the share of perverted trade flows), the worse is the performance
- The higher was GDP per capita before transition, the greater were distortions embodied in fixed capital stock, the more difficult it was to overcome these distortions to achieve growth



marginal capital productivity, output increase per unit of net investment (a) = 1/3.

- At the recovery stage liberalization starts to affect growth positively, whereas the impact of pretransition distortions disappears. Institutional capacity and macroeconomic policy continue to be important prerequisites for successful performance.
- Liberalization at the recovery stage influences performance positively because it creates market stimuli without causing rapid collapse of output of inefficient industries, which cannot be compensated fully by the rise of efficient industries due to investment constraints.

#### Thank you

• Details are available from:

vpopov@nes.ru