## Exchange rate pass-through in Russian Federation

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### **Presentation Plan**

- Main aim of my research and relevance of this problem in Russian Federation
- Theoretical aspects of the research
- Future goals of the research
- References



### Main aim

to analyze the the exchange rate pass-through of the ruble in the prices of goods and services on the territory of the Russia **Relevance of the issue** 

is determined by a high degree of openness of Russian economy and its high dollarization-dependence on other economies



### Main theoretical definitions

• Exchange rate:

Price for which the currency of a country can be exchanged for another country's currency

• Exchange rate pass-through:

The percentage change (in local currency!) of import prices resulting from a one percent change in the exchange rate between the exporting and importing countries.



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The main factors which have influence on exchange rate pass through

- The macroeconomic situation in the country
- Transaction costs
- Interchangeability of imported goods
- Demand shocks
- The degree of segmentation of the market between two countries
- Currency pricing

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### **Practical example**

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Suppose that the US is importing widgets from England

	Exchange rate	Widgets cost
	\$1 for £1	\$10
	\$1.5 for £1	\$12.5
Change	50%	25%

The exchange rate pass-through is:  $\frac{25\%}{50\%} = 0.5$ 

For every 1% increase in the exchange rate, there has been a 0.5% increase in the price of the widgets.

# A simple model of the dependence of the exchange rate and inflation

$$\begin{split} s_t &= p_t^T - p_t^{T*} \\ \begin{cases} p_t &= \gamma \times p_t^T + (1 - \gamma) \times p_t^N \\ p_t^* &= \gamma \times p_t^{T*} + (1 - \gamma) \times p_t^{N*} \end{cases} \end{split}$$

The connection

between the nominal exchange rate and price levels is determined by:

$$\begin{split} E_t &= \mu \times p_t - \mu^* \times p_t^* + \delta, & \text{where is} \\ \mu &= [\gamma + \varphi(1 - \gamma)],^{-1} \\ \mu^* &= [\gamma + \varphi * (1 - \gamma)],^{-1} \\ \delta &= (\alpha^* \mu^* - \alpha \mu)(1 - \gamma) \\ \gamma &\text{-share of tradable goods, 1-} \gamma &\text{-share of non tradable goods} \end{split}$$

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### Future goals of my research

- To analyze different mechanisms of ERPT (direct and indirect mechanisms)
- To determine the dependence of ERPT on the regime of monetary policy, including exchange rate regime (fixed or floating)
- To examine the dynamics of the ruble exchange rate and domestic prices in recent years, using panel data
- To give basic conclusions and recommendations for the monetary policy in Russia

### What I am going to use for this purpose?

- Michael B. Devereux and James Yetman(2007) Price-Setting and Exchange Rate Pass-Through
- Reginaldo P.Nogueira «Does the exchange rate pass- through respond for measures of macroeconomic instability?»(May 2011)
- Handbook G Kaunonen and Juntilla 2010
- To analyse data of ERPT in different countries

#### References

- Пономарев Ю.; Трунин П.; Улюкаев А. Эффект переноса динамики обменного курса на цены в России.(2001)
- Goldberg, P.K.; Knetter, M.M. (1997). "Goods prices and exchange rates: What have we learned?"
- Campa, J.M.; Goldberg, L.S. (2005). "Exchange Rate Pass-Through into Import Prices". Review of Economics and Statistics.

### Thank you for your attention!