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Translated Article†

FACTOR ANALYSIS OF FINANCIAL STANDING OF THE SHANGHAI COOPERATION ORGANISATION MEMBER STATES



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Abstract

Subject The article focuses on the financial position of the Shanghai Cooperation Organisation nations. **Objectives** This research represents factor analysis of trends in the financial standing of the Shanghai Cooperation Organisation countries and assesses an increment in a set of interdependencies with subsequent polynomial approximation. **Methods** We draw upon fundamental principles of the factor analysis theory and practice, laws of economic and

Methods We draw upon fundamental principles of the factor analysis theory and practice, laws of economic and finance, findings of scholarly studies into the equilibrium and non-equilibrium development of global economy and world order by country.

Results We identify countries demonstrating high and low growth rates of inderdependencies and high and low instability in terms of absolute peak values.

Conclusions and Relevance Analyzing the 2006–2016 period, we capture high growth rates in Tajikistan (liquid bank reserves to assets ratio), Kyrgyzstan (extensive money supply, inflation, consumer prices), Kazakhstan (foreign exchange rate), Uzbekistan (deflator), Russia (loan interest rate for the private sector), China (national trading companies), and high absolute peak values of instability in Kazakhstan (liquid bank reserves to assets ratio), Tajikistan (extensive money supply), India (foreign exchange rate), Russia (deflator, national trading companies), China (inflation, consumer prices), Kyrgyzstan (loan interest rates for the private sector). The findings would be useful in outlining and adjusting the international policy and foreign trade with the Shanghai Cooperation Organisation countries and improving the implementation mechanisms.

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Introduction

Intensifying competition and rearrangements in the global economic leadership necessitate finding

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modern and effective options of international cooperation. An international cooperation organization should continuously and constantly monitor how its capabilities are formed and subsequently exercised as its pursues its interests in the ever changing global environment and fierce competition. Evaluating and subsequently analyzing such capabilities, the international cooperation organization revises

opportunities it and some of its members have to strengthen their positions in the global economic process and influence the world order.

Factor analysis is quite a popular and frequent technique the Russian researchers resort to in order to evaluate the performance and development of business entities in certain economic systems [1, p. 4], analyze the solvency of borrowers [2, p. 4], build econometric models to review the current tendencies and forecast the future scenarios [3, p. 18], impact of sustainable development factors on the effectiveness the investment decision making process [4, p. 48]. This technique is also deployed to forge a set of indicators and apply them to evaluate capabilities [5, p. 154], create models for a comprehensive technological and economic evaluation of new and conventional technologies [6, p. 154]. Foreign researchers also opt for factor analysis when studying a choice and implications of types of preferential agreements on economic integration [7, p. 143], polarization of neighboring regions where spatial relationships rest on changes in the demand for manpower [8, p. 115], growth and fall in the shortage of current operations in some of the European and Baltic countries [9, p. 153]. They also use it to analyze the International Monetary Fund's forecasts and Fiscal Stability Treaty of the European Union on a vast sample of countries [10, p. 5], social transfers [11, p. 317; 12, p. 91; 13, p. 119; 14], and evaluate the space of possibilities and ultimate achievements [15, p. 247].

Analysis of financial dynamics in the Shanghai Cooperation Organisation member States (SCO countries) [16, p. 272; 17, p. 214; 18, p. 197; 19, p. 263; 20, p. 185] includes an evaluation of growth rates of financial and economic interdependencies, such as the liquid bank reserves to assets ratio, extensive money supply, foreign exchange rate, deflator, inflation (consumer prices), loan interest rate (private sector), national trading companies.

Analyzing the financial position of the SCO countries (India, Kazakhstan, Kyrgyzstan, China, Pakistan, Russia, Tajikistan, Uzbekistan) in terms of growth rates (*GR*) of financial and economic interdependencies, we use indicators in the related time series with subsequent polynomial approximation, which is best fit to describe frequently changing values for analyzing diverse combinations of unstable factors. Polynomial approximation involves the power of six that cannot

have more than five peaks, being sufficient for the analyzable period of time.

GR Analysis of the Liquid Bank Reserves to Assets Ratio

We show results of polynomial approximation of growth rates of the liquid bank reserves to assets ratio in the descending order of their absolute peak values (Fig. 1):

- Kazakhstan: $y = 0.0479x^6 1.4179x^5 + 14.844x^4 61.763x^3 + 57.02x^2 + 161.47x 148.74$; $R^2 = 0.8555$; average $GR_{2006-2016} = 26.03$;
- Pakistan: $y = -0.0302x^6 + 1.1056x^5 15.614x^4 + 106.43x^3 357.18x^2 + 531.74x 248.8$; $R^2 = 0.7286$; average $GR_{2006-2016} = 1.68$;
- Tajikistan: $y = 0.029x^6 0.9856x^5 + 12.781x^4 80.542x^3 + 263.22x^2 441.88x + 313.88$; $R^2 = 0.8359$; average $GR_{2006-2016} = 9.5$;
- Russia: $y = 0.0208x^6 0.7586x^5 + 10.713x^4 73.996x^3 + 258.46x^2 421.15x + 233.33$; $R^2 = 0.4743$; average $GR_{2006-2016} = -4.09$;
- Kyrgyzstan: $y = -0.0138x6 + 0.4692x5 5.8065x^4 + 30.431x^3 50.104x^2 65.488x + 164.36$; $R^2 = 0.8509$; average $GR_{2006-2016} = 8.48$.

These results reveal that Kazakhstan leads in terms of instability of its liquid bank reserves to assets ratio with positive *GR*. Kyrgyzstan outperforms the other SCO countries in terms of peak values, but has worse *GR* than Tajikistan and Kazakhstan.

GR Analysis of Extensive Money Supply

We show results of polynomial approximation of growth rates of extensive money supply in the descending order of their absolute peak values (Fig. 2):

- Tajikistan: $y = -0.7518x^6 + 25.756x^5 337.7x^4 + 2,130.9x^3 6,685.1x^2 + 9,583.7x 4,628.1; <math>R^2 = 0.5464$; average $GR_{2006-2016} = -176.83$;
- Kyrgyzstan: $y = -0.0742x^6 + 3.354x^5 57.432x^4 + 472.02x^3 1,918.3x^2 + 3,488.7x 1,970.6; <math>R^2 = 0.7014$; average $GR_{2006-2016} = 73.76$;
- Pakistan: $y = 0.0724x^6 2.3681x^5 + 29.709x^4 180.5x^3 + 552.5x^2 796.03x + 411.75$; $R^2 = 0.6339$; average $GR_{2006-2016} = 18.99$;

- Kazakhstan: $y = -0.035x^6 + 1.6248x^5 28.678x^4 + 244.88x^3 1,047x^2 + 2,031.9x 1,247.2$; $R^2 = 0.7665$; average $GR_{2006-2016} = 24.8$;
- Russia: y = -0.0234x6 + 0.9843x5 16.161x4 + 130.72x3 539.95x2 + 1,054.3x 734.93;R2 = 0.6642; average $GR_{2006-2016} = -9.1$;
- India: $y = 0.0031x^6 0.0928x^5 + 0.9781x^4 3.7499x^3 2.7833x^2 + 47.386x 76.292$; $R^2 = 0.5036$; average $GR_{2006-2016} = -4.61$;
- China: $y = 0.002x^6 0.0697x^5 + 0.8341x^4 3.6193x^3 0.1221x^2 + 27.014x 21.596$; $R^2 = 0.0727$; average $GR_{2006-2016} = -0.31$.

Tajikistan is seen to have the most unstable extensive money supply and very high negative *GR* in comparison with the other SCO countries. China has more preferable peak values but its *GR* follows those of Kazakhstan, Pakistan and Kyrgyzstan.

GR Analysis of Foreign Exchange Rate

We show results of polynomial approximation of growth rates of foreign exchange rate in the descending order of their absolute peak values (*Fig. 3*):

- India: $y = 0.0092x^6 0.3292x^5 + 4.5981x^4 31.354x^3 + 106.99x^2 165.72x + 91.51$; $R^2 = 0.4649$; average $GR_{2006-2016} = 4.11$;
- Kazakhstan: $y = 0.0088x^6 0.3064x^5 + 4.0959x^4 26.917x^3 + 93.114x^2 172.19x + 156.21; <math>R^2 = 0.9107665$; average $GR_{2006-2016} = 10.17$;
- Pakistan: $y = 0.0087x^6 0.3149x^5 + 4.3771x^4 29.575x^3 + 100.13x^2 154.75x + 82.868; <math>R^2 = 0.704$; average $GR_{2006-2016} = 5.43$;
- Russia: $y = -0.0057x^6 + 0.2735x^5 5.0495x^4 + 45.099x^3 199.88x^2 + 393.27x 222.46;$ $R^2 = 0.8087$; average $GR_{2006-2016} = 9.55$;
- Tajikistan: $y = -0.0029x^6 + 0.1297x^5 -$ - 2.1956 x^4 + 17.604 x^3 - 67.081 x^2 + 102.53x -- 23.491; R^2 = 0.797; average $GR_{2006-2016}$ = 9.14;
- Kyrgyzstan: $y = 0.0027x^6 0.0618x^5 + 0.269x^4 + 2.9284x^3 28.44x^2 + 73.279x 39.38$; $R^2 = 0.8698$; average $GR_{2006-2016} = 5.27$;
- China: $y = 0,0003x^6 0,0061x^5 + 0,0482x^4 0,2338x^3 + 1,6334x^2 8,6081x + 13,745$; $R^2 = 0,8278$; average $GR_{2006-2016} = -1.82$.

India demonstrates the most unstable foreign exchange rate and positive *GR*. China has not only the most preferable peak values among the other SCO countries but also negative *GR*.

GR Analysis of the Deflator Index

We show results of polynomial approximation of growth rates of the deflator index in the descending order of their absolute peak values (*Fig. 4*):

- Russia: $y = -0.0081x^6 + 0.2914x^5 4.0412x^4 + 27.152x^3 90.883x^2 + 140.57x 69.646;$ $R^2 = 0.5128$; average $GR_{2006-2016} = 10.96$;
- Kyrgyzstan: $y = -0.0055x^6 + 0.1904x^5 -$ - 2.527 x^4 + 16.187 x^3 - 51.425 x^2 + 76.208x -- 36.391; R^2 = 0.4828; average $GR_{2006-2016}$ = 9.93;
- China: $y = -0.0034x^6 + 0.1158x^5 1.5181x^4 + 9.4915x^3 28.796x^2 + 39.069x 17.281;$ $R^2 = 0.6496$; average $GR_{2006-2016} = 3.75$;
- Pakistan: $y = 0.0029x^6 0.0868x^5 + 0.9656x^4 4.8818x^3 + 11.067x^2 6.9834x + 0.4065$; $R^2 = 0.7788$; average $GR_{2006-2016} = 10.52$;
- Uzbekistan: $y = 0.0018x^6 0.0697x^5 +$ + $1.0218x^4 - 7.231x^3 + 25.264x^2 - 37.768x +$ + 26.559; $R^2 = 0.9068$; average $GR_{2006-2016} = 16,36$;
- Tajikistan: $y = -0.0014x6 + 0.0336x5 0.2153x4 0.4482x3 + 9.0458x2 26.267x + 23.084; R2 = 0.9237; average <math>GR_{2006-2016} = 12.87;$
- Kazakhstan: $y = -0.0011x^6 + 0.0338x^5 0.3395x^4 + 0.8119x^3 + 5.556x^2 27.858x + 35.058$; $R^2 = 0.5478$; average $GR_{2006-2016} = 12.57$;
- India: $y = 0.0002x^6 0.01x^5 + 0.1993x^4 1.9717x^3 + 9.7215x^2 20.206x + 15.939$; $R^2 = 0.8866$; average $GR_{2006-2016} = 6.09$.

Russia demonstrates the most unstable deflator index and moderate *GR* (it is higher in Tajikistan, Uzbekistan and Kazakhstan). India has more preferable peak values but its *GR* lags behind that of China.

GR Analysis of Inflation (Consumer Prices)

We show results of polynomial approximation of growth rates of inflation (consumer prices) in the descending order of their absolute peak values (Fig. 5):

- China: $y = -0.0675x^6 + 1.7446x^5 14.259x^4 + 28.303x^3 + 121.07x^2 495.81x + 404.98;$ $R^2 = 0.5821$; average $GR_{2006-2016} = -41.44$;
- Pakistan: $y = 0.0599x^6 2.2664x^5 + 33.255x^4 238.69x^3 + 868.65x^2 1,481.8x + 869.58$; $R^2 = 0.5251$; average $GR_{2006-2016} = 3.85$;
- India: $y = 0.0335x^6 1.2131x^5 + 17.13x^4 119.05x^3 + 421.56x^2 696.81x + 381.8$; $R^2 = 0.7521$; average $GR_{2006-2016} = 4.69$;
- Tajikistan: $y = -0.0354x^6 + 1.2489x^5 16.989x^4 + 111.98x^3 367.37x^2 + 548.09x 275.45$; $R^2 = 0.1839$; average $GR_{2006-2016} = 9.66$;
- Kazakhstan: $y = -0.0056x^6 + 0.1569x^5 1.6382x^4 + 8.5937x^3 27.746x^2 + 56.488x 45,074$; $R^2 = 0.2818$; average $GR_{2006-2016} = 3.32$;
- Russia: $y = -0.023x^6 + 0.9048x^5 14.331x^4 + 115.58x^3 487.99x^2 + 972.32x 636.97;$ $R^2 = 0.6038$; average $GR_{2006-2016} = 3.97$;
- Kyrgyzstan: $y = -0.005x^6 + 0.0499x^5 + 0.9846x^4 14.987x^3 + 53.893x^2 + 3.257x 136.7$; $R^2 = 0.3728$; average $GR_{2006-2016} = 24.67$.

China demonstrates a more unstable inflation (consumer prices) and high negative *GR*. Kyrgyzstan has attractive peak values but its *GR* significantly lags behind the other SCO countries.

GR Analysis of Loan Interest Rate (Private Sector)

We show results of polynomial approximation of growth rates of loan interest rates (private sector) in the descending order of their absolute peak values (Fig. 6):

- Kyrgyzstan: $y = -0.013x^6 + 0.4668x^5 6.57x^4 + 45.794x^3 163.33x^2 + 272.89x 157.81;$ $R^2 = 0.6419$; average $GR_{2006-2016} = -1.26$;
- India: $y = -0.0128x^6 + 0.4209x^5 5.224x^4 + 30.777x^3 88.842x^2 + 117.92x 58.19$; $R^2 = 0.454$; average $GR_{2006-2016} = -0.01$;
- China: $y = -0.0114x^6 + 0.3891x^5 4.9576x^4 + 29.124x^3 77.831x^2 + 80.761x 29.437$; $R^2 = 0.461$; average $GR_{2006-2016} = -1.13$;

- Russia: $y = 0.0099x^6 0.3147x^5 + 3.4913x^4 14.309x^3 + 0.7993x^2 + 102.24x 109.36;$ $R^2 = 0.6692$; average $GR_{2006-2016} = 3.66$;
- Tajikistan: $y = 0.0056x^6 0.1961x^5 + 2.6116x^4 16.503x^3 + 49.496x^2 60.887x + 22.642$; $R^2 = 0.366$; average $GR_{2006-2016} = 0.82$;
- Pakistan: $y = 0.0056x^6 0.1892x^5 + 2.4485x^4 15.179x^3 + 46.287x^2 61.284x + 13.824; R^2 = 0.8915; average <math>GR_{2006-2016} = 0.26$.

Kyrgyzstan demonstrates more unstable loan interest rates (private sector) and negative *GR*. Pakistan has more preferable peak values but its *GR* lags behind those of Kyrgyzstan, India and China.

GR Analysis of National Trading Companies

We show results of polynomial approximation of growth rates of national trading companies in the descending order of their absolute peak values (*Fig. 7*):

- Russia: $y = -0.0149x^6 + 0.5883x^5 9.0089x^4 + 66.891x^3 245.8x^2 + 403.24x 222;$ $R^2 = 0.3155$; average $GR_{2006-2016} = -0.13$;
- China: $y = -0.008x^6 + 0.2988x^5 4.3281x^4 + 30.288x^3 104.36x^2 + 160.44x 74.884$; $R^2 = 0.7486$; average $GR_{2006-2016} = 7.63$;
- Kazakhstan: $y = -0.0054x^6 + 0.1874x^5 2.4936x^4 + 15.926x^3 49.819x^2 + 67.21x 20.451$; $R^2 = 0.2231$; average $GR_{2006-2016} = 3.29$;
- India: $y = -0.0015x^6 + 0.0586x^5 0.8905x^4 + 6.7992x^3 27.041x^2 + 51.088x 30.33;$ $R^2 = 0.9773$; average $GR_{2006-2016} = 1.85$;
- Pakistan: $y = 0.0009x^6 0.0246x^5 + 0.2199x^4 0.3779x^3 3.391x^2 + 12.589x 9.7197$; $R^2 = 0.4206$; average $GR_{2006-2016} = -1.21$.

Russia's trading companies are more unstable and demonstrate negative *GR*. Pakistan has more preferable peak values but its *GR* lags behind those of India, Kazakhstan, China and Russia.

Summary Analysis of Trends in the Financial Position of the Shanghai Cooperation Organisation Member States

Having performed the summary analysis of growth rates of the liquid bank reserves to assets ratio, extensive money supply, foreign exchange rate, deflator index, inflation (consumer prices), national trading

companies with subsequent polynomial approximation, we revealed the following trends in the financial position of the SCO countries (*Fig. 1–7*):

1) high *GR*₂₀₀₆₋₂₀₁₆:

- Tajikistan: the liquid bank reserves to assets ratio $GR_{2006-2016} = 26.03$;
- Kyrgyzstan: extensive money supply $GR_{2006-2016} = 73.76$, inflation (consumer prices) $GR_{2006-2016} = 24.67$;
- Kazakhstan: foreign exchange rate *GR*₂₀₀₆₋₂₀₁₆ = 10.17;
- Uzbekistan: deflator index $GR_{2006-2016} = 16.36$;
- Russia: loan interest rate (private sector) GR₂₀₀₆₋₂₀₁₆ = 3.66;
- China: national trading companies $GR_{2006-2016} = 7.63$;

2) low GR₂₀₀₆₋₂₀₁₆:

- Russia: the liquid bank reserves to assets ratio $GR_{2006-2016}$, extensive money supply $GR_{2006-2016} = -9.1$;
- China: foreign exchange rate $GR_{2006-2016} = -1.82$, deflator index $GR_{2006-2016} = 3.75$, inflation (consumer prices) $GR_{2006-2016} = -41.44$;
- Kyrgyzstan: loan interest rate (private sector) GR₂₀₀₆₋₂₀₁₆
 = -1.26;
- Pakistan: national trading companies $GR_{2006-2016} = -1.21$;
- 3) high absolute peak values of instability:
- Kazakhstan: the liquid bank reserves to assets ratio: $y = 0.0479x^6 1.4179x^5 + 14.844x^4 61.763x^3 + 57.02x^2 + 161.47x 148.74$; R² = 0.8555;
- Tajikistan: extensive money supply: $y = -0.7518x^6 + 25.756x^5 337.7x^4 + 2,130.9x^3 6,685.1x^2 + 9,583.7x 4,628.1; <math>R^2 = 0.5464$;
- India: foreign exchange rate: $y = 0.0092x^6 0.3292x^5 + 4.5981x^4 31.354x^3 + 106.99x^2 165.72x + 91.51; <math>R^2 = 0.4649$;
- Russia: deflator index: $y = -0.0081x^6 + 0.2914x^5 4.0412x^4 + 27.152x^3 90.883x^2 + 140.57x 69.646$; $R^2 = 0.5128$; national trading companies $y = -0.0149x^6 + 0.5883x^5 9.0089x^4 + 66.891x^3 245.8x^2 + 403.24x 222$; $R^2 = 0.3155$;
- China: inflation (consumer prices): $y = -0.0675x^6 + 1.7446x^5 14.259x^4 + 28.303x^3 + 121.07x^2 495.81x + 404.98; <math>R^2 = 0.5821$;

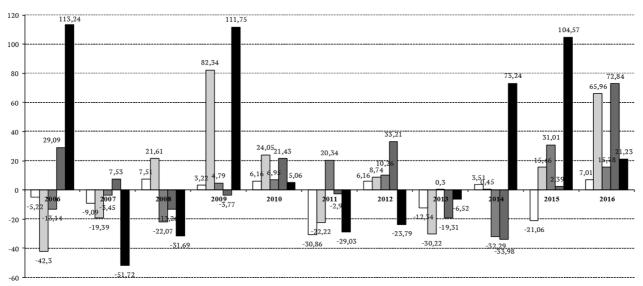
- Kyrgyzstan: loan interest rate (private sector): $y = -0.013x^6 + 0.4668x^5 6.57x^4 + 45.794x^3 163.33x^2 + 272.89x 157.81; <math>R^2 = 0.6419$;
- 4) low absolute peak values of instability:
- Kyrgyzstan: the liquid bank reserves to assets ratio: $y = -0.0138x^6 + 0.4692x^5 5.8065x^4 + 30.431x^3 50.104x^2 65.488x + 164.36; <math>R^2 = 0.8509$; inflation (consumer prices) $y = -0.005x^6 + 0.0499x^5 + 0.9846x^4 14.987x^3 + 53.893x^2 + 3.257x 136.7; <math>R^2 = 0.3728$;
- China: extensive money supply: $y = 0.002x^6 0.0697x^5 + 0.8341x^4 3.6193x^3 0.1221x^2 + 27.014x 21.596$; $R^2 = 0.0727$; foreign exchange rate: $y = 0.0003x^6 0.0061x^5 + 0.0482x^4 0.2338x^3 + 1.6334x^2 8.6081x + 13.745$; $R^2 = 0.8278$;
- India: deflator index: $y = 0.0002x^6 0.01x^5 + 0.1993x^4 1.9717x^3 + 9.7215x^2 20.206x + 15.939$; $R^2 = 0.8866$; average $GR_{2006-2016} = 6.09$;
- Pakistan: loan interest rates (private sector): $y = 0.0056x^6 0.1892x^5 + 2.4485x^4 15.179x^3 + 46.287x^2 61.284x + 13.824; <math>R^2 = 0.8915$; national trading companies: $y = 0.0009x^6 0.0246x^5 + 0.2199x^4 0.3779x^3 3.391x^2 + 12.589x 9.7197; <math>R^2 = 0.4206$.

Conclusions

Having analyzed trends in the financial position of the SCO countries and used polynomial approximation of GR of a set of financial and economic interdependencies, we found high $GR_{2006-2016}$ in Tajikistan (the liquid bank reserves to assets ratio), Kyrgyzstan (extensive money supply, inflation (consumer prices)), Kazakhstan (foreign exchange rate), Uzbekistan (deflator index), Russia (loan interest rate (private sector)), China (national trading companies) and high absolute peak values of instability in Kazakhstan (the liquid bank reserves to assets ratio), Tajikistan (extensive money supply), India (foreign exchange rate), Russia (deflator index, national trading companies), China (inflation (consumer prices)), Kyrgyzstan (loan interest rate (private sector)).

Having focused on the financial position of the SCO countries and evaluated GR with subsequent polynomial approximation, we recorded high $GR_{2006-2016}$ in Kyrgyzstan, and low $GR_{2006-2016}$ in China, Russia. High instability is also captured in Russia, with a lower level being in China, Kyrgyzstan and Pakistan.

Figure 1
GR of liquid bank reserves to assets ratio (2006–2016)



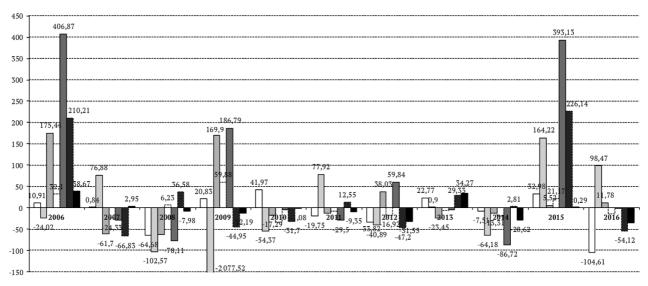
■ Kazakhstan ■ Kyrgyzstan ■ Pakistan □ Tajikistan □ Russia

Source: Authoring based on the World Bank data.

URL: http://data.trendeconomy.ru/dataviewer/wb/wbd/wdi?kf=WDI&time period=

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Figure 2
GR of extensive money supply (2006–2016)



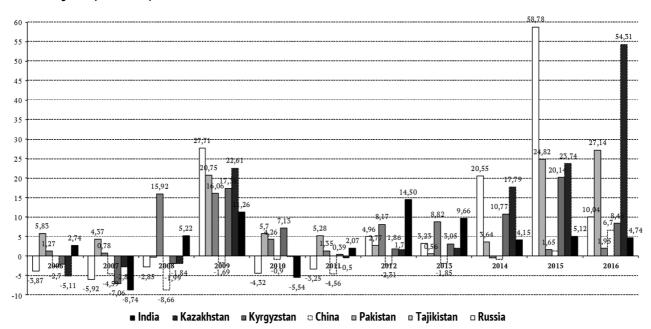
■ India ■ Kazakhstan ■ Kyrgyzstan □ China □ Pakistan □ Tajikistan □ Russia

Source: Authoring, based on the World Bank data.

URL: http://data.trendeconomy.ru/dataviewer/wb/wbd/wdi?kf=WDI&time_period=

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Figure 3
GR of exchange rate (2006–2016)

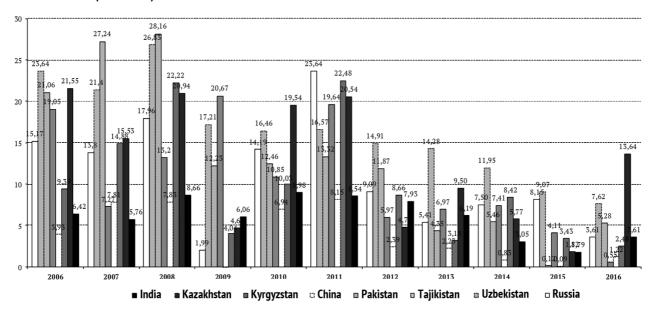


Source: Authoring based on the World Bank data.

URL: http://data.trendeconomy.ru/dataviewer/wb/wbd/wdi?kf=WDI&time_period=

 $2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016 \& ref_area = CHN, IND, KAZ, KGZ, PAK, RUS, TJK, UZB \& series = PA_NUS_FCRF = A_NUS_FCRF = A_NUS_FCR = A_NUS_FCR = A_NUS_FCR = A_NUS_FCR = A_$

Figure 4
GR of deflator index (2006-2016)

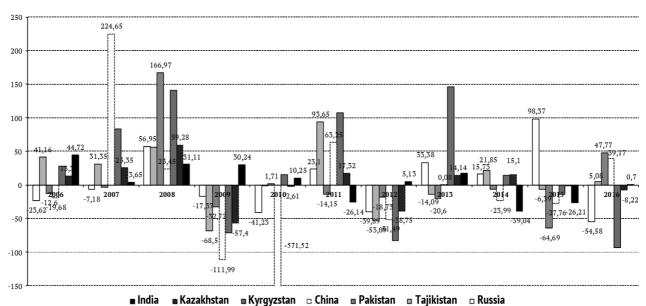


Source: Authoring based on the World Bank data.

URL: http://data.trendeconomy.ru/dataviewer/wb/wbd/wdi?kf=WDI&time_period=

2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016&ref_area=CHN,IND,KAZ,KGZ,PAK,RUS,TJK,UZB&series=NY_GDP_DEFL_Z

Figure 5
GR of inflation (consumer prices) (2006-2016)

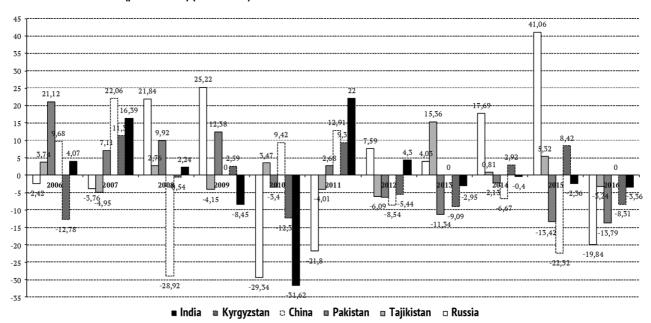


Source: Authoring based on the World Bank data.

URL: http://data.trendeconomy.ru/dataviewer/wb/wbd/wdi?kf=WDI&time_period=

2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016&ref_area=CHN,IND,KAZ,KGZ,PAK,RUS,TJK,UZB&series=FP_CPI_TOTL_ZG

Figure 6
GR of interest rate on loans (private sector) (2006–2016)



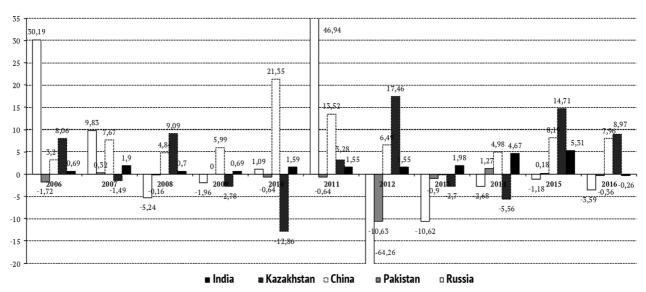
Source: Authoring based on the World Bank data.

URL: http://data.trendeconomy.ru/dataviewer/wb/wbd/wdi?kf=WDI&time_period=

2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016&ref area=CHN,IND,KAZ,KGZ,PAK,RUS,TJK,UZB&series=FR INR LEND

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Figure 7
GR of listed domestic companies (2006–2016)



Source: Authoring based on the World Bank data.

URL: http://data.trendeconomy.ru/dataviewer/wb/wbd/wdi?kf=WDI&time_period=

2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016&ref_area=CHN,IND,KAZ,KGZ,PAK,RUS,TJK,UZB&series=CM_MKT_LDOM_NO

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Conflict-of-interest notification

We, the authors of this article, bindingly and explicitly declare of the partial and total lack of actual or potential conflict of interest with any other third party whatsoever, which may arise as a result of the publication of this article. This statement relates to the study, data collection and interpretation, writing and preparation of the article, and the decision to submit the manuscript for publication.