Analysis of Volume, Structure and Dynamics of Russian Foreign Trade Under Conditions of Globalization

Polyakova I.A.¹, Goncharova L.V.¹, Cheremina V.B.¹, Fedotova E.A.¹

Abstract:

Trends in the development of world economic relations show the processes of globalization and integration which predetermine the need for Russia to shift to a new stage of social development – the global information space against macroeconomic jolts and the sanctions regime. Russian involvement in the system of world economic relations, whose important part is world trade, requires overcoming structural deformation and to upgrade the economy.

The topic of the article is relevant due to the significant impact of external factors on the development of the economy and social sphere of Russia as an independent and important participant in world economic relations in the global space. Due to unique natural resources, production and labour potential the country in terms of globalization has prerequisites for the active participation in international division of labour. However, new economic conditions and low prices of energy sources create the need for eliminating the misbalance in the domestic economy, accumulating import substitution process and restructuring export-import operations.

The article underlines the great significance and relevance of modern reliable information resources. They allow to receive the complex information picture of implemented globalization processes within separate countries and regions. Authors made the economic-statistical analysis of the dynamics and structure of Russian foreign economic activity within the system of world economic relations. They received benchmark assessment of structural-dynamic changes in export and import pattern on main groups of partner countries and considered alternative future export volume and structure of Russia till 2030.

Keywords: Integration, statistics, analysis, structure, dynamics

JEL Classification Codes: C40, C53, F20, F29

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1. Introduction

The development of globalization processes and world links integration proves the need for working out and implementing strategic plans of Russian foreign economic activity in selecting the specialization and forming long-term competitive advantages. Foreign policy of Russia is oriented on realizing its competitive advantages and encouraging the types of economic activities based on the innovative development model. Foreign trade as an important segment of foreign policy has a significant influence on the budget and, consequently, the condition of the economy.

According to new macroeconomic conditions Russia strengthens its export base by its restructuring in order to improve the competitiveness of Russian products on world markets within the terms of globalization. It extends international relations with economic, customs, trade and financial organizations: Commonwealth of Independent States (CIS), Eurasian Economic Community (EurAsEC), World Trade Organization (WTO), the UN Conference on trade and development (UNCTAD), UNCTAD World Trade Centre, Asia-Pacific Economic Cooperation (APEC), group of five including Russia (BRICS).

Thus, all mentioned above provides the relevance of studying the development trends of Russian foreign trade considering globalization and modern geopolitics.

2. Theoretical grounds for the research

Historically international trade is the first and more developed form of international economic relations. Trade became a powerful incentive for economic growth in many countries. In practice, the countries in which the trade, especially export trade, developed fast have much higher rate of economic growth.

Structural changes in social life under the influence of scientific and innovative activities, specialization and cooperation under globalization enhance the interaction of national economies (Thalassinos and Liapis, 2014; Thalassinos and Dafnos, 2015). As a result, it promotes international trade that has a few features:

- changes in the structure of energy balance of developed industrial countries and expansion of their foreign trade exchange; the increase in consuming oil products; increase in the rate of industrial, transport and energy construction in developing countries;
- changes in geographical distribution of world trade – the increase in the share of developing countries in the volume of world trade turnover;
- changes in export structure speeding up the process of international division of labor and the growth of high technology product exchange;
- the emergence of new economic activities and productions that promotes the increase in the dependence of many countries on importing some kinds of raw materials, especially nonferrous metals, oil, gas and others.
The foreign trade of Russia has its own features. The main item in the structure of commodity export is the supply of fuel and energy resources (Dzhukha et al., 2017; Zobov et al., 2017; Kovalenko et al., 2016; Filatova, 2016). Moreover, there is an increase in exporting mineral fertilizers, pulp, chemical products, equipment for energy and extractive kinds of activities, the presence of cheap and qualified labour force as the base of assembly operations from imported components oriented to foreign and domestic markets, export of high technology products based on conversion production.

In the second half of the XX and the beginning of the XXI centuries there also occurred structural-dynamic changes in world trade and consequently new phenomena in its international arrangement, particularly, “regionalism” – agreements on the close collaboration between separate countries like free trade areas or customs unions. There were about 100 interstate groupings in the beginning of the XXI century. According to the estimate of World Bank a half of world trade was realized within such areas.

In the beginning of the XXI century the leading participants in world trade are still the countries whose export accounts for approximately 65% of world export and 68% of world import. World leading exporters are Germany, the USA, Japan, China and France. Furthermore, the USA, Germany, China, France and Great Britain prevail in world import of goods.

The efficient integration of Russia into the system of global world economic relations requires to overcome definite structural deformation in the country and to modernize its economy in technological sphere.

3. Results

After the introduction of sanctions Russia had to revise several directions of social development. Therefore, it pays a great attention to the information provision of priority spheres, the analysis of the foreign trade efficiency of the country and it regions, the assessment of export-import structure, the analysis of the dynamics of foreign trade flows.

We analyzed 2 periods – year 2010 and 2014 because in 2010 Russian economy showed the positive dynamics in most social-and-economic indicators as the evidence of the recovery from 2008 crisis, and 2014 was a new stage specified by the introduction of sanctions, import substitution and significant fluctuation of foreign currencies.

Table 1 presents the dynamics of export structure of Russia overall, export into CIS countries and non-CIS countries.
**Table 1. Dynamics of export structure of Russia (%)**

<table>
<thead>
<tr>
<th>Indicators</th>
<th>Total export</th>
<th>Export into CIS countries</th>
<th>Export into non-CIS countries</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total export, including</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Food products and agricultural raw materials</td>
<td>2.2</td>
<td>3.8</td>
<td>4.6</td>
</tr>
<tr>
<td>Mineral products</td>
<td>68.5</td>
<td>70.5</td>
<td>50.7</td>
</tr>
<tr>
<td>Product of chemical industry, rubber</td>
<td>6.2</td>
<td>5.9</td>
<td>8.1</td>
</tr>
<tr>
<td>Rawhide, furs and its products</td>
<td>0.1</td>
<td>0.1</td>
<td>0.1</td>
</tr>
<tr>
<td>Wood and pulp and paper products</td>
<td>2.4</td>
<td>2.3</td>
<td>3.0</td>
</tr>
<tr>
<td>Textile, textile products and footwear</td>
<td>0.2</td>
<td>0.2</td>
<td>0.9</td>
</tr>
<tr>
<td>Metals, precious stones and products</td>
<td>12.7</td>
<td>10.6</td>
<td>9.6</td>
</tr>
<tr>
<td>Machinery, equipment and vehicles</td>
<td>5.4</td>
<td>5.3</td>
<td>11.6</td>
</tr>
<tr>
<td>others</td>
<td>2.3</td>
<td>1.3</td>
<td>11.4</td>
</tr>
</tbody>
</table>


The structure of Russian foreign trade turnover shows the dependence on the export of mineral-raw materials whose share accounted for 70.5% in 2014. This proves the influence of fluctuations of foreign economic conditions on the economic development, particularly the dynamics of oil price.

The commodity import into Russia is of more diversified character. However, engineering products prevail in its structure – approximately 45-48% which vastly satisfies the domestic demand for high tech equipment at some extent (table 2). It should be noted that this commodity group fell mostly under sanctions. Nevertheless, negative trends connected with producing engineering goods appeared before worsening geopolitical environment. In the domestic consumption, the share of Russian machine production fell from 19% in 2008 to 8% in 2012 and continues to go down.

**Table 2. Dynamics of import structure of Russia (%)**

<table>
<thead>
<tr>
<th>Indicators</th>
<th>Total import</th>
<th>Import from CIS countries</th>
<th>Import from non-CIS countries</th>
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Thus, current structural misbalances have a negative influence on the economic development, and first real sectors of production. Many economists think the policy of import substitution suggesting the investment in innovative businesses will lead to the decrease of the dependence on import in different industries from initially 70-90% to 50-60% by 2020.²

Some specialists suppose the process of import substitution should be implemented firstly in the following kinds of activity: machine-tool manufacture, heavy engineering, consumer goods, and electronic, pharmaceutical and medical industries.³

The statistical practice shows that on the base of calculating the indicators of structural disparities one can observe the trends emerging in the foreign economic activity of Russia and define mid-term and long-term perspectives of realizing the processes of import substitution.

The analysis and assessment of structural changes which are the features of export-import operations of Russia is based on the methodology of assessing integral indicators of structural changes. During the research, we use ratio of structural disparities, Scalai index and Ryabtsev index. The choice of indicators is stipulated by the fact that they are the most perfect integral indicators allowing to obtain the assessment of significance degree of disparities of two structures.

² www.lenta.ru
³ www.lenta.ru
Table 3 shows the results of the calculations of generalized estimates of structural-dynamic disparities of export-import structure of Russia. According to most indicators one observes low level of disparities of the compared structures. On indicators “Export structure in total” and “Commodity structure of export into non-CIS countries” Ryabtsev index showed the identity of structures while one indicator “Commodity structure of export into CIS countries” showed considerable differences in the analyzed structures in 2010 and 2014. Structural-dynamic changes in export-import structure on CIS-countries were of more discernable character than the similar changes on non-CIS countries.

<table>
<thead>
<tr>
<th>№ n/п</th>
<th>Indicators</th>
<th>Integral ratio of structural disparities, $K_n$</th>
<th>Level of structural disparities</th>
<th>Scalai Index, $I_C$</th>
<th>Level of structural disparities</th>
<th>Ryabtsev index, $I_R$</th>
<th>Level of structural disparities</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Commodity export structure of the RF</td>
<td>0,035</td>
<td>Very low level of disparities</td>
<td>0,132</td>
<td>Low level of disparities</td>
<td>0,024</td>
<td>Identity of structures</td>
</tr>
<tr>
<td>2.</td>
<td>Commodity structure of RF export into CIS countries</td>
<td>0,158</td>
<td>High level of disparities</td>
<td>0,239</td>
<td>High level of disparities</td>
<td>0,113</td>
<td>Low level of disparities</td>
</tr>
<tr>
<td>3.</td>
<td>Commodity structure of RF export into non-CIS countries</td>
<td>0,038</td>
<td>Very low level of disparities</td>
<td>0,113</td>
<td>Low level of disparities</td>
<td>0,027</td>
<td>Identity of structures</td>
</tr>
<tr>
<td>4.</td>
<td>Commodity import structure of the RF</td>
<td>0,052</td>
<td>Very low level of disparities</td>
<td>0,061</td>
<td>Very low level of disparities</td>
<td>0,037</td>
<td>Very low level of disparities</td>
</tr>
<tr>
<td>5.</td>
<td>Commodity structure of RF import from CIS countries</td>
<td>0,149</td>
<td>Low level of disparities</td>
<td>0,134</td>
<td>Low level of disparities</td>
<td>0,106</td>
<td>Low level of disparities</td>
</tr>
<tr>
<td>6.</td>
<td>Commodity structure of RF import from non-CIS countries</td>
<td>0,053</td>
<td>Very low level of disparities</td>
<td>0,067</td>
<td>Very low level of disparities</td>
<td>0,038</td>
<td>Very low level of disparities</td>
</tr>
</tbody>
</table>

*Source: designed and calculated by the authors*

In general, during 2014 and 2015 we observe the decrease in the volume of Russian foreign trade in comparison to most of the countries. Nevertheless, ruble depreciation which led to the decrease of consumer purchasing power influences the increase in exporting non-raw materials from Russia to some extent.

4. Conclusion
Considering the economic market conditions, the Ministry of economic development worked out “Main directions of export development for the period till 2030” within the frames of roadmap “The support of the access to the markets of foreign countries and export support”. The aim of the document is to ensure “the formation and efficient practical realization of resource-innovative model of Russian export specialization”. The management using modern information provision of foreign economic activity and its analysis forecasts the increase in the volume of non-raw material export, supply of the goods with higher degree of processing, especially technically and technologically complicated products.

The plan of Ministry of economic development suggests two alternative ways of developing export relations: basic and optimistic. If there is a basic scenario the total export volume is planned to increase by 2.2-2.4 times, non-raw materials – by 1.4-1.45 times, a quantity of exporters-organizations – thrice. The quantity of exporters-companies is planned to increase by 4 times.

In general, The Government of Russia suggests perspectives of Russian non-raw material export are optimistic enough – there is the forecast concerning the increase in foreign trade both of separate goods and concerning separate countries.

References:


