# Imperfection of the Contractual Relations in the Regional Agrarian Sector

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#### Abstract

The article discovers problems of imperfection and an inefficiency of the contractual relations in agrarian sector of Russian regions, which undermine the bases of regional food security. Moreover, in the conditions of sanctions and new economic and political threats agrarian complex development has the biggest priority among economic tasks Russia's facing. Finally, the level of food security is determined by the peculiarities of subjects' behavior in agrarian sector. As for these subjects we mean farmers, manufacturers, merchandisers, consumers and the government. In this article we introduce the evaluation technique of regional food security level. As for two key conditions of food security we consider, first of all, price affordability of key food products and, the second, sufficiency of its consumption. Under developed technique we analysed the food security' condition in Chelyabinsk Region (Russia). In the end of the article we develop a number of the models showing the roots of imperfection of the contractual relations in agrarian sector.

**Keywords:** agrarian sector, agrarian policy, government regulation of agriculture, food security, contractual relations' efficiency, elasticity of contractual relations' efficiency.

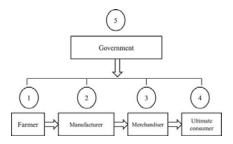
# 1. Introduction

Contractual relations are the dominating form of any economic relations in modern business. The problems of Russian agrarian sector are especially actual nowadays. The last months were marked by the abrupt growth of political and economic risks. The sanctions of European Union and USA put over Russian subjects, led to growth of loan capital's cost. In connection with this sanctions Russia has to keep economic and social stability. In order to withstand the aggressive pressure of international environment, our country, its regions and municipalities, have to achieve a sustainable development of all economic sectors. The agrarian sector is strategically significant for Russian economy. According to the experts, approximately 8,5% of gross domestic product is produced in this sector, 3,4% of basic assets is concentrated, more than 11% of all employee are occupied (Skrynnik, 2010).

There are three objectives of our research:

- to develop the evaluation technique of regional food security level;
- to analyse and estimate the condition of agrarian sector in Chelyabinsk Region;
- to construct a number of models of contractual relations' efficiency.

As for subjects of the contractual relations we mean the following faces: farmers, manufacturers, merchandisers, consumers and the government (Figure 1).



**Figure 1.** The subjects of the contractual relations in agrarian sector.

As for *the contractual relations in agrarian sector* we mean a special sort of the economic relations between, at least, two subjects concerning purchase and sale of foodstuff on the basis of developed institutes' system.

As for essential characteristics of the contractual relations we indicate the following:

- there is an object of property rights transfer;
- there are at least two subjects;
- there is a mechanism of constraint to satisfy an agreement.

We define *contractual relations' efficiency in agrarian chain* as ability of these relations to satisfy economic interests of its relations' subjects. These relations base on distribution of ultimate agricultural product's price. In other words, maximizing efficiency of the contractual relations implies the determination of optimum price – such price which harmonizes interaction between four subjects mentioned.

Considering the problem of contractual relations' efficiency, we use the method of a dichotomy and divide all contractual relations into *perfect* and *imperfect*. The contractual relations in regional agrarian sector will be perfect if maximum level of regional food security is reached.

As criteria of regional food security level we accept implementation of the following two conditions:

- sufficiency of key foodstuff consumption:
- price affordability.

Thus, if two mentioned conditions are reached, we can call the contractual relations in regional agrarian sector perfect or effective ones. If at least one of two mentioned conditions isn't satisfied, the efficiency of the contractual relations along with a condition of food security will be insufficient. And, at last, if none of two conditions is satisfied, we can say about extremely negative level of regional food security.

# 2. Research Methodology

An assessment of contractual relations' quality, first of all, has to provide possibilities of assessment of food security condition. For an assessment of regional food security condition we use two *coefficients*:

 $K_1$  – the coefficient of sufficiency of key foodstuff consumption;

 $K_2$  – the coefficient of price affordability.

The first coefficient ( $K_1$ ) is the sum of ratios the actual consumption of each product ( $Q_i^a$ ) to standard consumption of corresponding product ( $Q_i^a$ ):

$$K_{1} = \sum_{i=1}^{n} \frac{Q_{i}^{a}}{Q_{i}^{s}} \tag{1}$$

where  $Q_i^a$  – actual consumption of *i*-product,

Qis – standard consumption of i-product,

*n* – quantity of products in consumer' food basket.

Standards of consumption are established with a glance of regional climatic features and are calculated for able-bodied population. Standards of consumption of key food products are defined by the Concept of the food security of Ural Federal District for the period till 2020 [2], developed within the Doctrine of food security of Russian Federation for the period till 2020 [3]. The recommended standards of consumption are presented in Table 1.

**Table 1.** Quantities of standard consumption of key food products in Ural Federal District

Nº	Sorts of food products	The recommended standards of annual consumption, kg per capita
1	Meat and meat foods	75
2	Milk and dairy foods	305
3	Eggs (pcs.)	250
4	Bread	105
5	Potato	100
6	Vegetable and cucurbitaceous products	150

The source: the Doctrine of food security of Russian Federation (2010 – 2020). The access: http://www.kremlin.ru/news/6752

For calculation of coefficient  $K_1$  we add a number of *simplifications*:

1) as the Concept of food security of Ural Federal District (2010 – 2020) offers standards only for six food products, we will recognize that all consumer's food basket consists of six products mentioned in Table 1;

2) let's consider that the quantities of the actual consumption can't exceed the recommended standard, otherwise the buyer consumes excessive quantity of the product that doesn't influence food security in any way.Based on the first simplification, we transform the Formula (1) as follows:

$$K_{1} = \sum_{i=1}^{n} \frac{Q_{i}^{a}}{Q_{i}^{s}} = \frac{Q_{1}^{a}}{Q_{1}^{s}} + \frac{Q_{2}^{a}}{Q_{2}^{s}} + \frac{Q_{3}^{a}}{Q_{3}^{s}} + \frac{Q_{4}^{a}}{Q_{4}^{s}} + \frac{Q_{5}^{a}}{Q_{5}^{s}} + \frac{Q_{6}^{a}}{Q_{6}^{s}}$$
(2)

Numeration of products in the Formula (2) corresponds to number of products mentioned in Table 1.

Relying on the second simplification, we come at a conclusion that the coefficient of sufficiency of consumption  $K_1$  will vary from 0 to 6.

For calculation of coefficient of price accessibility  $K_2$  we will use the following formula:

$$K_2 = \frac{\sum_{i=1}^{n} C_i^s}{AI} \cdot 100\%$$
where  $C_i^s$  consumer expanses an standard quantity of involve

where  $C_{i}^{s}$  – consumer expenses on standard quantity of i-product,

AI – weight-average income per capita,

*n* – quantity of products in consumer' food basket.

The calculation of coefficient  $K_2$  is based on following *simplifications*:

- we will consider not actual expenses, but expenses on standard quantity in coefficient numerator. Otherwise calculation of this coefficient loses sense;
- 2) the consumer' food basket consists of six products mentioned in Table 1. Based on mentioned simplification, we transform the Formula (3) as follows:

$$K_2 = \frac{C_1^s + C_2^s + C_3^s + C_4^s + C_5^s + C_6^s}{AI} \cdot 100\%$$
 (4)

where  $C_i$ s – consumer expenses on standard quantity of i-product according to numeration of products in Table 1 The coefficient  $K_2$  theoretically can vary from zero to infinity. However, in practice this coefficient has finite value. If the coefficient  $K_2$  has value below 10%, we consider a situation with regional food security perfect. As acceptable level we'll take range from 10% to 20%. Let's call an interval from 20% to 30% a satisfactory condition of food security. Thus, we'll take value of 30% for the critical level of coefficient  $K_2$ . If the share of consumer' expenses on food products exceeds 30%, it makes an unsatisfactory condition of regional food security.

The matrix presented in Table 2 allows us to make a final conclusion on the condition of regional food security.

Table 2. Matrix, allowed evaluating the condition of regional food security

			K <sub>1</sub>		
		[0 - 3]	(3 - 4]	(4 – 5]	(5 – 6]
	Below 10%	Unsatisfactory	Satisfactory	Acceptable	Perfect
K <sub>2</sub>	[10% – 20%)	Unsatisfactory	Satisfactory	Acceptable	Acceptable
N2	[20% - 30%]	Unsatisfactory	Unsatisfactory	Satisfactory	Satisfactory
	Over 30%	Unsatisfactory	Unsatisfactory	Satisfactory	Satisfactory

The Source: Developed by authors.

## 3. Main Body. Results.

In this part of the article we evaluate the condition of food security in Chelyabinsk Region. The quantities of consumption of the main food products per capita are specified in Table 3.

Table 3. The quantities of consumption of the main food products, kg per capita

No	Sorts of food products	Period								
I√S		2006	2007	2008	2009	2010	2011	2012	2013	2014
1	Meat and meat foods	66,3	69,5	74,5	70,5	77,0	78,1	80,5	83,4	83,6
2	Milk and dairy foods	231,1	246,2	241,2	236,5	257,8	249,8	248,3	252,0	254,4
3	Eggs (pcs.)	210	179	173	174	193	187	187	184	185

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	4	Bread	96,5	95,9	94,0	87,7	89,7	88,9	86,6	84,3	85,3
	5	Potato	58,5	59,2	59,7	57,0	55,7	54,3	54,5	48,7	49,9
Ī	6	Vegetable and cucurbitaceous products	73,6	78,5	82,1	98,0	94,9	102,1	116,9	104,9	105,8

The Source: According to selective researches.

To calculate the coefficient  $K_1$  (Formula 2) we use data from Table 3. The results are shown in Table 4.

**Table 4.** The coefficient of sufficiency of key foodstuff consumption ( $K_1$ )

Nº	Sorts of food products	Period								
I√n	301ts of 1000 products	2006	2007	2008	2009	2010	2011	2012	2013	2014
1	Meat and meat foods	0,88	0,93	0,99	0,94	1,03	1,04	1,07	1,11	1,11
2	Milk and dairy foods	0,76	0,81	0,79	0,78	0,85	0,82	0,81	0,83	0,83
3	Eggs (pcs.)	0,84	0,72	0,69	0,70	0,77	0,75	0,75	0,74	0,74
4	Bread	0,92	0,91	0,90	0,84	0,85	0,85	0,82	0,80	0,81
5	Potato	0,59	0,59	0,60	0,57	0,56	0,54	0,55	0,49	0,50
6	Vegetable and cucurbitaceous products	0,49	0,52	0,55	0,65	0,63	0,68	0,78	0,70	0,71
The	coefficient (K <sub>1</sub> )	4,48	4,48	4,52	4,47	4,66	4,64	4,71	4,55	4,60

The Source: Evaluated by authors.

Table 4 shows that the coefficient  $K_1$  has no high volatility in the course of time. It constantly remains in the range from 4 to 5 units that points to a satisfactory condition of food security. However, considering the greatest possible value of coefficient (6 units), it is possible to make a conclusion that it is still far to an excellent condition of regional food security.

For end-to-end assessment we should calculate the coefficient K2. For calculation of this coefficient according formula 3 or we should calculate the weight-average income per capita (a coefficient denominator). There is a question of selection: if we calculate the coefficient for employed persons, we will take a salary into account. We'll consider that the population has no other income, except a salary, or they are extremely insignificant. If as selection we take all population of Chelyabinsk Region, we should consider along with employees also unemployed residents.

At first we'll go on the first way. Data for January, 2015 about the average number of workers and their average earnings by types of economic activity are shown in Table 5.

Table 5. Data about the average number of workers and their average earnings by types of economic activity

Nº	The contingent of workers by types of economic activity	The average numbers of workers	The average earnings, rubles
1	Agriculture, hunting and forestry	29 611	18 242
2	Fishery, fish breeding	344	16 795
3	Mining operations	19 942	29 541
	Manufacturing industry	311 474	28 964
5	Power generation and electrical energy distribution. Production and distribution of gas and water	41 364	33 400
6	Building	49 858	27 741
7	Wholesale and retail trade; repair of vehicles, motorcycles, household products and subjects of private use	111 633	26 340
8	Hotels and restaurants	14 220	20 669
9	Transport and communication	83 723	29 011
10	Financial activities	21 309	35 755
11	Operations with real estate, rent and rendering of services	92 031	30 983
12	Public administration and ensuring military safety, social insurance	76 343	30 039
13	Education	130 484	19 500
14	Health care and providing social services	101 845	22 806
15	Providing other municipal, social and personal services	34 300	26 007
	ИТОГО:	1 118 481	

The Source: According to website http://chelstat.gks.ru.

After calculating the weight-average income per capita based of data in Table 5, we received value of 27045,77 rubles. To calculate the numerator of coefficient  $K_2$  (Formula 4) we should estimate the level of prices for each food product. The average prices of six key food products are shown in Table 6.

**Table 6.** Food prices in Chelyabinsk region (March, 2015).

Nº	Sorts of food products	Prices, rubles per kilo
1	Meat and meat foods	298
2	Milk and dairy foods	46,7
3	Eggs (per 10 pcs.)	61,9
4	Bread	53,2
5	Potato	30,9
6	Vegetable and cucurbitaceous products	37,2

The Source: According to website http://chelstat.gks.ru.

Let's estimate the annual cost of a consumer basket from six specified products based on standard quantities of consumption:

$$\overset{c}{C}_{1-6}^s = C_1^s + C_2^s + C_3^s + C_4^s + C_5^s + C_6^s = 298 \cdot 75 + 46, 7 \cdot 305 + 61, 9 \cdot 250 + 53, 2 \cdot 105 + 30, 9 \cdot 100 + 37, 2 \cdot 150 = 52397 nubles$$

In calculation of monthly expenses this sum will be at the level of 4366,41 rubles.

Thus, calculation of coefficient  $K_2$  will lead the following result:

$$K_2 = \frac{C_1^s + C_2^s + C_3^s + C_4^s + C_5^s + C_6^s}{AI} \cdot 100\% = \frac{4366,41}{27045,77} \cdot 100\% = 16,14\%.$$

If in the denominator we consider not earnings of employed persons, but the average income per capita of all inhabitants of Chelyabinsk region, calculation coefficient  $K_2$  will be following:

$$K_2 = \frac{C_1^s + C_2^s + C_3^s + C_3^s + C_5^s + C_5^s}{AI} \cdot 100\% = \frac{4366,41}{19727.9} \cdot 100\% = 22,13\%.$$

For summing up we use the matrix represented in Table 2. The results of calculation coefficient  $K_2$  over the working persons (1) and overall population of Chelyabinsk Region (2) are shown in Table 7.

Table 7. The results of an assessment of food security' condition in Chelyabinsk Region

				K <sub>1</sub>	
		[0 - 3]	(3 - 4]	(4 – 5]	(5 – 6]
	Below 10%				
K2	[10% – 20%)			Acceptable (1)	
K <sub>2</sub>	[20% – 30%]			Satisfactory (2)	
	Over 30%				

Thus, we can make a conclusion about acceptable or satisfactory condition of food security in Chelyabinsk region.

Today the problem of contractual relations' efficiency in agrarian chain (figure 2) is actually reduced to the analysis of efficiency of interaction among four subjects: farmers (1), manufacturers (2), merchandisers (3) and the ultimate consumer (4).

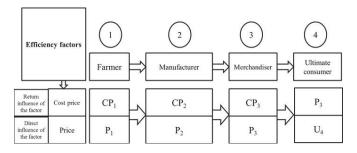


Figure 2. Contract interactions between subjects of an agrarian chain

Let's consider that the purpose function of the first three subjects is maximizing selling price (P<sub>1</sub>, P<sub>2</sub>, P<sub>3</sub>), and the purpose function of the consumer is maximizing the utility (U<sub>3</sub>) from a product.

On Figure 2 we can see the factors of contractual relations' efficiency: for subjects 1-3 selling prices  $(P_1, P_2, P_3)$  are the factors of efficiency growth, and their expenses  $(S_1, S_2, S_3)$  are the factors of efficiency decrease. For the consumer there is another situation: the higher price of a product  $(P_3)$ , the lower contractual efficiency for consumer, as his utility  $(U_3)$  decreases.

Let's suppose that each of three subjects (the farmer, the manufacturer, the merchandiser) has his own function of contractual relations' efficiency (*E*) showing dependence on selling price (*P*):

$$E_i = f(P_i)$$

where  $E_i$  – contractual relations' efficiency for i-subject,

P<sub>i</sub> – release price for *i*-subject,

$$i - 1, 2, 3, 4.$$

At first we construct functions of contractual relations efficiency for the first three subjects of an agrarian chain. Taking into attention the positive dependence of contractual relations efficiency on the price the general view of function will look like:

$$E_i = k_i \cdot P_i$$

where  $k_i$  – the price elasticity coefficient of contractual relations efficiency for *i*-person.

The price elasticity of contractual relations efficiency for *i*-person for three subjects researched firmly depends on cost price growth rate of cost price ( $\Delta S_i$ ):

$$k_i = k_i' \cdot \frac{1}{S_i}$$

where  $S_i$  – level of cost price for i-person.

Graphically dependence of contractual relations efficiency of subjects 1 – 3 of selling price is reflected in Figure 3.

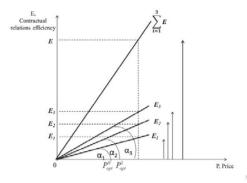


Figure 3. The curve of contractual relations efficiency for farmers  $(E_1)$ , manufactures  $(E_2)$ , merchandisers  $(E_3)$ , total efficiency (E),

The gradient angles  $\alpha 1$ ,  $\alpha 2$ ,  $\alpha 3$ , demonstrate the three subjects' price elasticity of contractual relations efficiency:

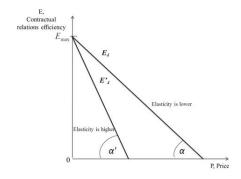
$$tg\alpha = \frac{\Delta E}{\Delta P}$$

The factor of costs is the key for price elasticity of contractual relations efficiency.

Let's summarize curves of contractual relations efficiency (E1, E2, E3) vertically. In that way total efficiency will be reflected by curve E.

The ultimate consumer also has his own efficiency curve of contract relations efficiency ( $E_4$ ). Peculiarity of this curve is its negative slope (Figure 4). The lower price of consumption the higher his satisfaction. This idea is also reflected by the curve of contractual relations efficiency ( $E_4$ ):

$$E_4 = -k \cdot P + b$$



**Figure 4.** The curve of contractual relations efficiency for ultimate consumer ( $E_4$ )

Similar to the situation represented in Figure 2, gradient angles  $\alpha$ ,  $\alpha'$  show elasticity of contractual relations efficiency for the ultimate consumer:

$$tg\alpha = \frac{\Delta E}{\Delta P}$$

The key factor of price elasticity of contractual relations efficiency for consumer is his utility. Product utility reflects importance of goods for consumer. The researched elasticity is derivative from elasticity of demand for food products.

Let's determine a total curve of contractual relations efficiency of all subjects researched (TE). The total curve can be received by addition of two curves ( $\sum E_{1-3}$  and  $E_4$ ). The Figure 5 shows the total curve of contractual relations efficiency (TE).

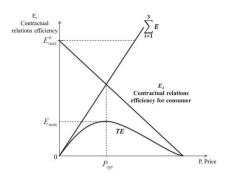
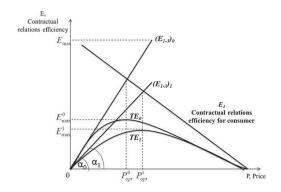


Figure 5. The total curve (TE) of contractual relations efficiency for all the subjects of contractual relations

If we take into account elasticity of contractual relations efficiency, we can displace the curve E<sub>1-3</sub>, and then we can

construct a new curve of total efficiency *TE*<sub>1</sub> (Figure 6).



**Figure 6.** Shift of total curve of contractual relations efficiency (*TE*) as a result of any factor's impact on elasticity of the curve F<sub>1-3</sub>

If we take into account that elasticity of contractual relations efficiency for consumer changes, this factor displaces curve E4. The Figure 7 shows new total curve of contractual relations efficiency TE2.

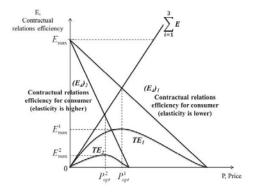


Figure 7. Shift of total curve of contractual relations efficiency (TE) as a result of any factor's impact on elasticity of the curve E4.

#### Discussions

The problem of the contractual relations is the new one in economic science. The theory of contracts gained the distribution within new institutional school. However, scientists paid attention to the problem of food security a long time ago. Still physiocrats, led by F. Quesnay, assume that the main source of wealth is agriculture. Work in this sphere of agriculture they called productive unlike any other "sterile" work.

The surplus product is created directly by work of farmers and provides welfare for all society, thus, the central sector of any economy is agrarian(Quesnay, 1972). Malthus, T was the first economist who pointed at danger of overpopulation in the Earth taking into account the law of the decreasing productiveness of soil (Malthus, 1820). He pointed at necessity of marriage regulations and birth rate regulation.

As for present time, the end of the XX century was marked by unprecedented growth of planet population, especially in developing countries that caused numerous energy crises and environmental problems.

Conway, G. and Barber, E. define food security as the guaranteed access for all inhabitants to food products

enough for healthy and active life at any time. And, according to some researchers, the major factor limiting this access is inaccessibility of energy, especially it concerns developing countries. The authors, mentioned above, see the solution in the state policy directed to support agro-industrial complex, fight against poverty and birth rate regulation (Conway, Barber , 1990)

According to Gorbacheva, A. and Kupchenko, A, the food security can be characterized as ability of a country to produce enough of food. Thus, food has to be of satisfactory qualitaty and safe for life and health of the population. The government has to pay more attention to low-income population (Gorbacheva A.A., Kupchenko A.Ju, , 2013). These authors mark out the following components of food security: 1) physical availability of food; 2) economic availability of food; 3) safety and quality of the food.

When Mikhaylushkin, P and Barannikova, A determine food security they point at negative influence of external factors. Even in the conditions of political and economic risks the government has to ensure food security (Mihajlushkin P.V., Barannikov A.A, 2013)].

As for Russian scientists, nobody researches the contractual relations efficiency in agrarian sector. The new institutional theory of contracts becomes widespread in the 1970's. For example, Macneil, I. became the first who gave classification of contracts. He determined contracts as mini-societies with the extensive range of norms which aren't limited by those, from which are directly connected with the act of an exchange" (Campbell D, 2004) Macneil's classification marks off the contractual relations on classical, neoclassical and relational. Discrecity, comprehensiveness of agreements and transparency of all future circumstances are characteristics of the classical contract. As for classical contract the formal clauses come out on top. As usually, classical contract is short-term contract. Long-term contracts are characterized by uncertainty. Such contracts are not transparent. Macneil, I. called such contracts neoclassical. Neoclassical contracts are connected with incompleteness of any agreement.

Williamson, O. constructed types of management of the contractual relations and considered questions of opportunism as well as economy of transactional expenses (Williamson O, 1979).

The special approach of Hodgson, G. to contractual relations is following: he connects them with transfer of property rights, and not just with a bipartite transfer of goods, services or money between agents (Hodgson G, 1988).

Jensen, M. and Meckling, W. focused attention on such factors of contractual relations efficiency as asymmetry of information and behavioral opportunism (Jensen, 1976). These factors also result in incompleteness of contract spoken by Hart, O. (Hart., Moore, 1988)

As for Russian scientists Auzan, A., Bendukidze, K., Benz, D., Kozlova, E., Kudryashova, E., Kuzminov, Y., Oleynik, A., Popov, E., Silova, E., Tambovtsev, V., Shastitko, A. and Yudkevich, M. research problems of contractual relations efficiency. For example, Benz, D., Kozlova, E., Silova, E. show interconnection between opportunism, quality of corporate institutes and imperfection of contractual relations (Benz, D.S., E.V. Kozlova and E.S. Silova, 2014)

In this article we touch upon a question of contractual relations imperfection in agrarian sector. This article shows our attempt to unite new institutional approach to the contractual relations imperfection with a problem of regional food security.

#### 5. Conclusion

Today, one of the most actual problems of Russian economy is the problem of food security. Among key problems we can find the following:

- the advancing growth rate of food prices in comparison with growth rate of the population's income leads to growth of share of consumer's expenses on products in their total income;
- poor quality of some food products influences health and life expectancy of population;
- low efficiency of some agricultural enterprises, including insufficient financial stability, low labor productivity, lack of investments, technological lag.

The key reason of contractual relations imperfection in Russian agrarian is low competition among landowners. In view of the import embargo on the food from abroad Russian agro-industrial companies and the merchandisers understand essential decrease in the competition today. Therefore, absence of stimuli to expand quantities of production and to rise quality level reduces all economic efficiency. Absence of access for companies to the cheap credits for expansion of its production plays a negative role for all agrarian sector.

Summing up the results, we can point at the key problem of Russian agrarian policy. There is lack of agreement between participants of the agricultural market. Notably, consumers have to buy the extremely expensive product while the farmer, being the first subject in agrarian chain, sometimes realizes the production even at a loss. That's why we can see inefficient redistribution which leads to low contractual relations efficiency. The underdevelopment of institutional forms of interaction between subjects mentioned dictates necessity of the government's intervention. The constructed graphic models of contractual relations efficiency will help to make detailed research in the field of development of the mechanism of the government support of agriculture.

### 6. Thanks

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