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### THEORETICAL ANALYSIS OF FACTORS OF REGIONAL ECONOMIC DEVELOPMENT ON THE EXAMPLE OF VOLGA FEDERAL DISTRICT

3 % 2021 ( ) 2017–2020 4  
 2020  
 2016–2020 1 %  
 53,3  
 33,28 % 2017–  
 2021 26,62 % 2021 3075

This scientific article is devoted to the study of the economic development of the region and the analysis of factors affecting this type of development. For a general understanding, we first of all studied the theoretical aspects of the economic development of the region, analyzed the classification of factors in regional economic development. It is recognized that the main factor in the economic development of the region is gross regional product (GRP). The article also provides formulas for calculating GRP. Based on the studied theory, a digital analysis of the factors of economic development of the region was carried out on the example of the Volga Federal District, which showed: in the Volga Federal District (Volga Federal District) for the period 2017–2020. There is a dynamics of the decline in GRP, its figure for 4 years decreased by 3 %. In 2021, the situation stabilized and the gross regional product grew in large volumes, which made it possible to conclude that the Volga Federal District is economically developed in the region, and in 2020 the decline occurred due to the epidemiological situation in the country and due to the onset of population isolation, which led to the partial closure of enterprises and the suspension of the production industry. The labor productivity index for the analyzed period 2016–2020 in the Volga Federal District increased by 1 %, which indicates that the Volga Federal District is experiencing an increase in production capacity, which has a positive effect on the overall economic growth of the region. Investments in innovative and scientific activities during the analyzed period increased by 53.3 billion rubles or 33.28 %. As for the volume of investments in fixed assets, in the Volga Federal District for 2017–2021 this indicator increased by 26.62 % and in 2021 amounted to 3075 billion rubles, therefore it is possible to conclude that the Volga Federal District is moving along the path of economic growth by increasing its capital, which in turn is distributed and invested in the necessary sectors of the economy, including in the development of innovations. There are many ways to improve and increase economic development and this can serve as a topic for writing the following articles.

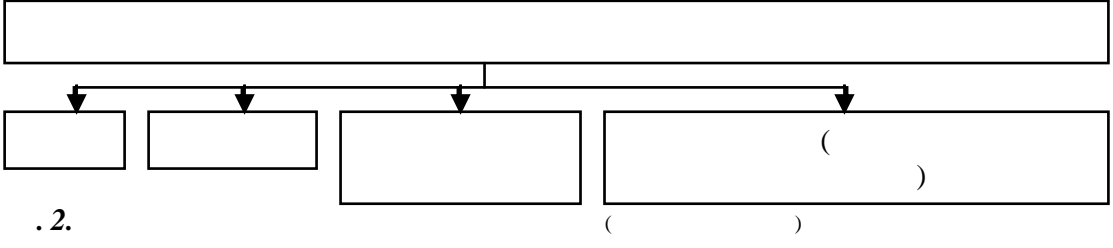
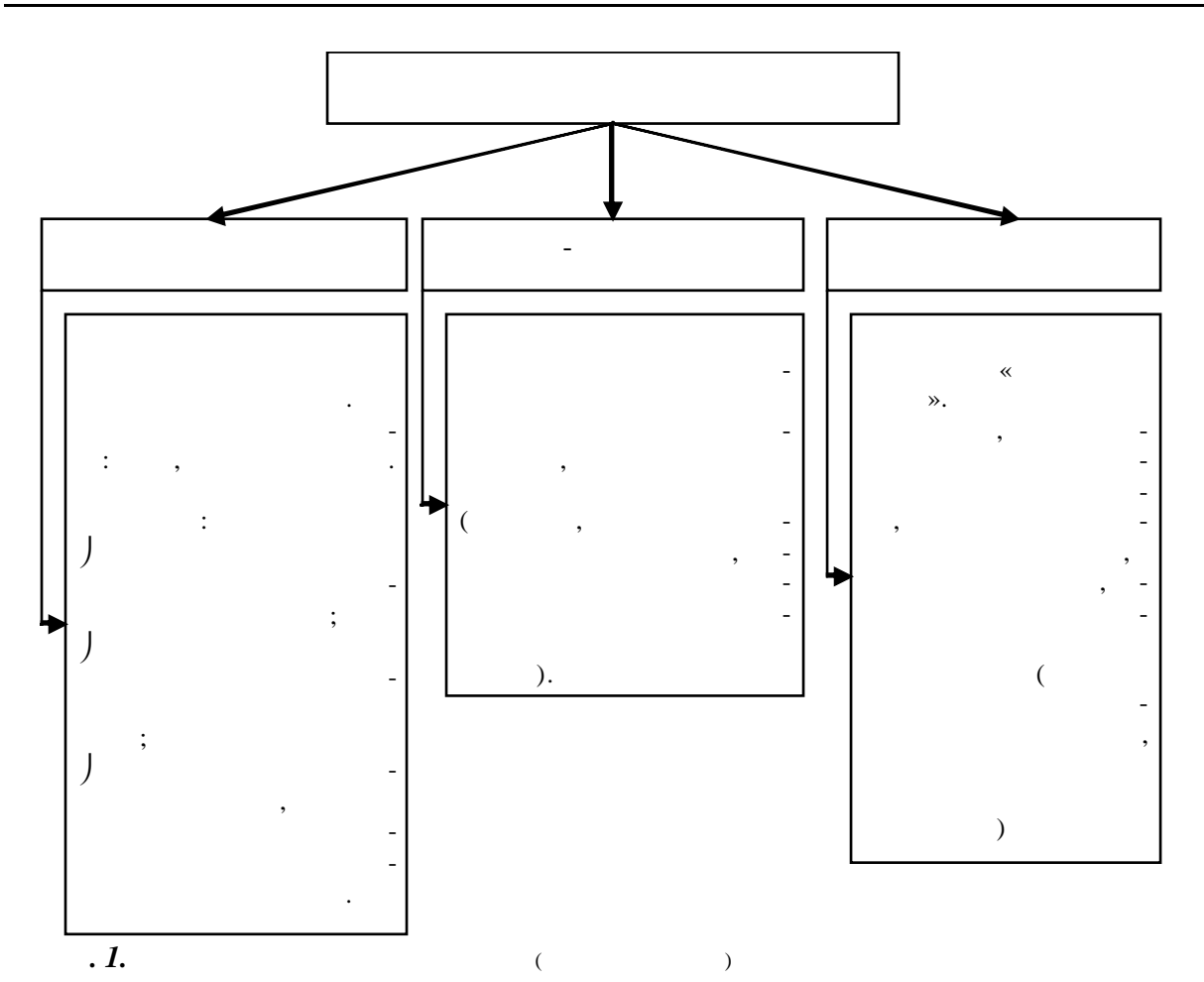
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*Keywords:* economic growth of the region, gross regional product, labor productivity index, investment in fixed assets, expenses in scientific research, production capacity, innovative activity.

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$$= \frac{2Z}{1} | 100\%, \quad (2)$$

( ) ; ( )

2017–2020 .( .1).

I. 2017–2020 .\*

|   | 2017  | 2018  | 2019  | 2020 | 2017–2020 . (%) |
|---|-------|-------|-------|------|-----------------|
|   | 100,8 | 102,8 | 101,6 | 97,8 | 97,02           |
|   | 101,3 | 102,8 | 101,8 | 99,2 | 97,93           |
| - | 101,7 | 102,4 | 101,7 | 98,0 | 96,36           |
|   | 101,3 | 101,7 | 101,2 | 98,5 | 97,24           |
| - | 100,9 | 100,8 | 101,7 | 99,8 | 98,91           |
|   | 100,0 | 101,8 | 102,0 | 97,0 | 97,00           |
|   | 100,3 | 105,2 | 100,7 | 95,2 | 94,92           |
|   | 100,5 | 102,4 | 101,2 | 96,6 | 96,12           |
|   | 99,9  | 103,4 | 103,0 | 98,1 | 98,20           |

\* [2]

2017–2020 . 2,98 %,

2021–2023 .

2023 5,1 % 6,4 % (

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2020 .

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2017–

2017–2020 .

3%.

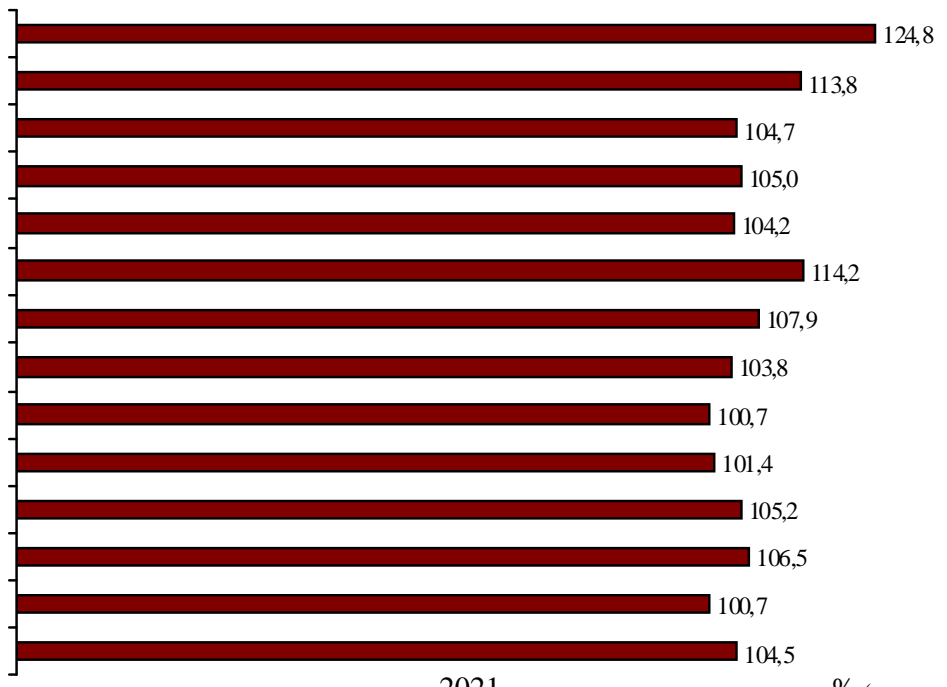
6,3 %;

2,9 %, 1,9 %).

6,8 %; 5,6 %; 6,3 %; 4,1 %; 2017-2020 .

2020 « » 2017-2019 .

2021 , ( .4).



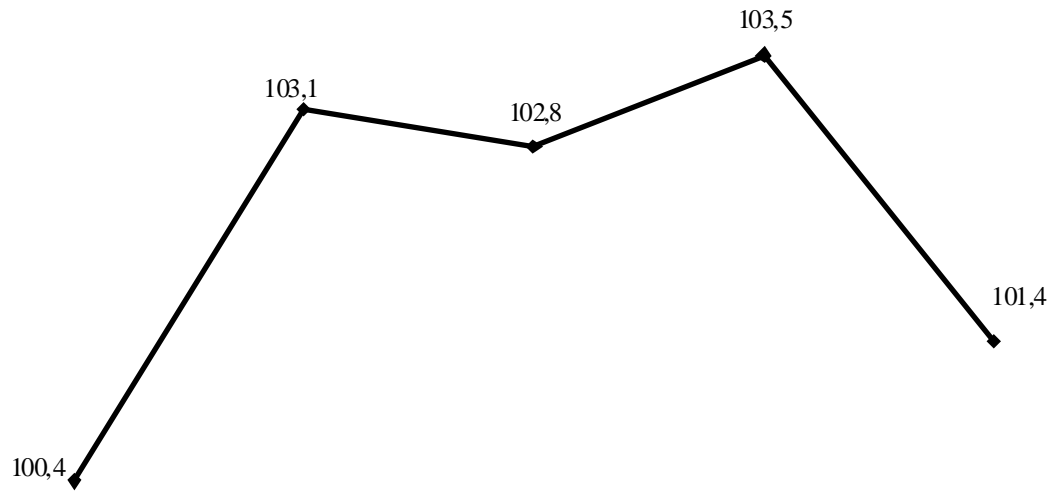
.4. [2] — 2021 , % ( -

— 114,2 % 113,8 % — 124,8 % 100,7 %

2020 , , ,

148

(.5).



| 2016   | 2017      | 2018    | 2019    | 2020    | 2016–2020 |
|--------|-----------|---------|---------|---------|-----------|
| .5.    |           |         |         |         | .,% (     |
|        | (2)       |         |         |         | 2016–2020 |
|        |           | 1 %,    |         |         | 2016–2020 |
|        |           |         |         |         | 2019      |
|        | 2020      |         |         |         | 2020      |
|        |           |         |         |         | 2020      |
|        |           |         |         |         | 2016–2019 |
| 2019 ( | 10,61 %,  |         | 7,51 %, | 8,25 %, | 2016–     |
|        | 4,86 %,   |         | 3,76.   |         |           |
|        | 2016–2019 |         |         | —       |           |
|        | 0,96 %,   |         |         |         |           |
|        |           | 1,92 %, |         | 2,05 %. |           |
|        |           | 149     |         |         |           |

2.

2016-

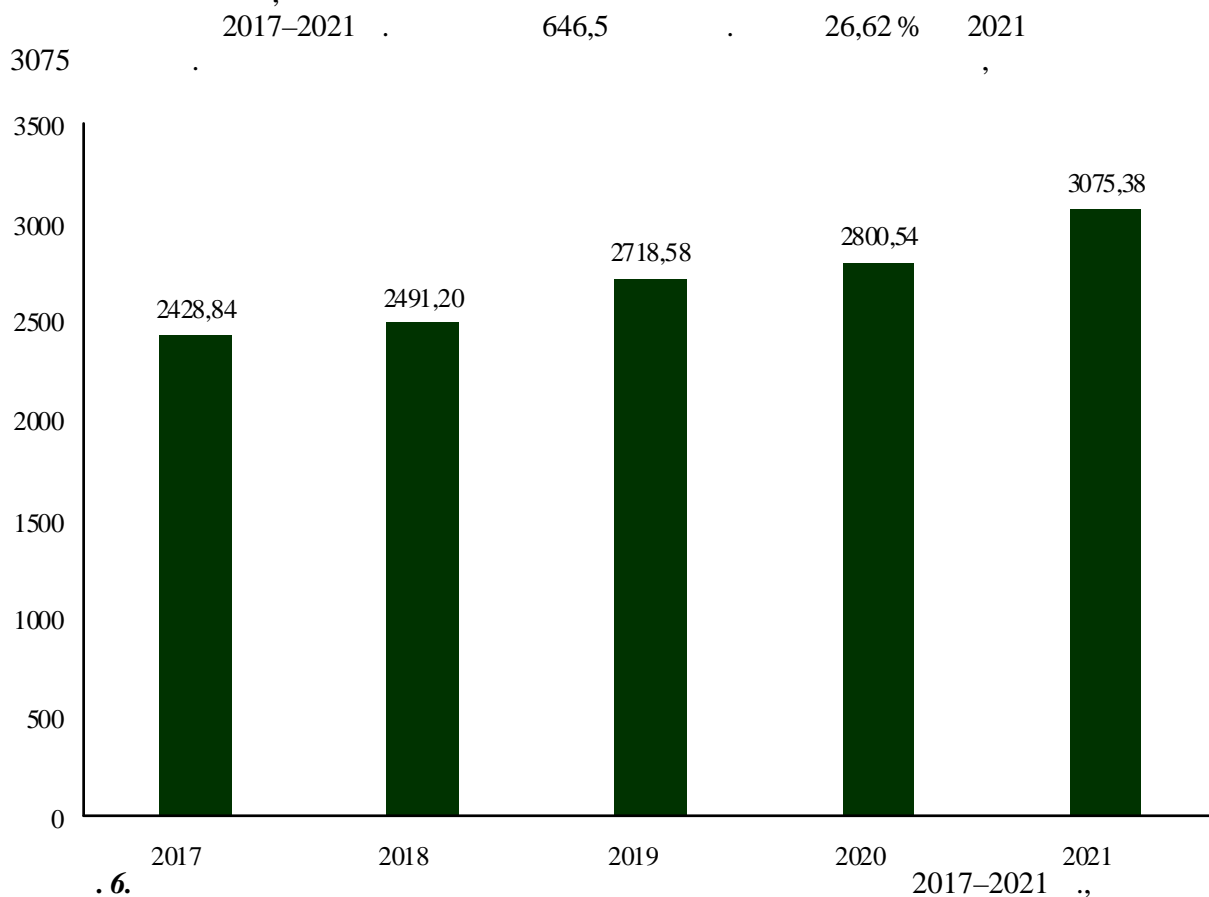
2020 .\*

|  | 2016  | 2017  | 2018  | 2019  | 2020  | 2016-<br>2020 . (%) | 2016-<br>2019 . (%) |
|--|-------|-------|-------|-------|-------|---------------------|---------------------|
|  | 101,1 | 102,9 | 104,7 | 104,9 | 98,1  | 97,03               | 103,76              |
|  | 96,8  | 104,7 | 104,4 | 102,5 | 101,4 | 104,75              | 105,89              |
|  | 104,0 | 103,2 | 101,7 | 102,0 | 105,0 | 100,96              | 98,08               |
|  | 100,8 | 101,5 | 101,3 | 102,4 | 96,8  | 96,03               | 101,59              |
|  | 101,4 | 101,2 | 102,9 | 101,0 | 97,9  | 96,55               | 99,61               |
|  | 104,3 | 104,7 | 104,4 | 105,4 | 102,2 | 97,99               | 101,05              |
|  | 95,7  | 106,2 | 103,1 | 103,6 | 99,5  | 103,97              | 108,25              |
|  | 100,5 | 100,7 | 103,2 | 103,8 | 102,9 | 102,39              | 103,28              |
|  | 103,9 | 101,2 | 101,6 | 102,9 | 99,3  | 95,57               | 99,04               |
|  | 98,6  | 102,1 | 102,8 | 106,0 | 104,5 | 105,98              | 107,51              |
|  | 96,1  | 104,8 | 104,7 | 106,3 | 108,7 | 113,11              | 110,61              |
|  | 98,8  | 103,2 | 100,7 | 103,6 | 95,0  | 96,15               | 104,86              |
|  | 102,3 | 105,6 | 102,5 | 100,2 | 104,8 | 102,44              | 97,95               |
|  | 101,4 | 101,5 | 101,6 | 104,2 | 103,8 | 102,37              | 102,76              |

\*

[2]

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3. 2017–2021 .

3. 2017–2021 .  
\* .

|  | 2017   | 2018   | 2019   | 2020   | 2021   | 2017–2021 . (%) |
|--|--------|--------|--------|--------|--------|-----------------|
|  | 278,59 | 267,93 | 337,71 | 380,77 | 419,34 | 150,52          |
|  | 24,03  | 27,32  | 27,50  | 35,78  | 35,55  | 147,93          |
|  | 58,54  | 52,31  | 53,07  | 44,67  | 49,69  | 84,89           |
|  | 637,61 | 629,73 | 640,84 | 615,59 | 683,30 | 107,17          |
|  | 83,71  | 96,98  | 105,78 | 120,46 | 117,16 | 139,96          |
|  | 52,37  | 56,43  | 65,42  | 55,86  | 61,33  | 117,11          |
|  | 245,14 | 243,61 | 283,78 | 281,56 | 307,82 | 125,57          |
|  | 57,86  | 59,51  | 72,23  | 67,88  | 75,54  | 130,56          |
|  | 245,27 | 259,39 | 295,25 | 370,87 | 385,63 | 157,23          |
|  | 184,88 | 208,11 | 212,04 | 201,33 | 198,13 | 107,17          |
|  | 72,05  | 87,11  | 89,37  | 94,53  | 96,20  | 133,52          |
|  | 259,54 | 264,99 | 293,73 | 282,59 | 364,15 | 140,30          |
|  | 145,16 | 154,86 | 162,12 | 167,08 | 173,05 | 119,21          |
|  | 84,09  | 82,92  | 79,73  | 81,55  | 108,49 | 129,01          |

\* [2]

2017–2021 . 8,85 ;

2017–2021 . 57,23 % 140,4 . ; 140,8 . 50,5  
%; — 40 %

7 , ( .7 .4).

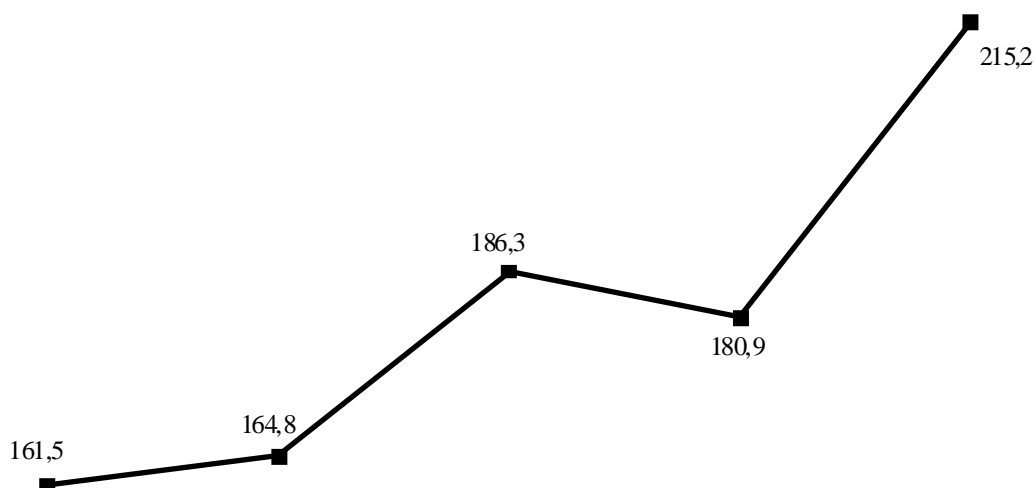
2017–2021 . 53,3 . 33,28 %.

4.

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2017–2021 . 12,18 % 2021

151



2017  
7.  
2017–2021 .., . ( [2])

4.  
2017–2021 .., . \*

|  | 2017  | 2018  | 2019  | 2020  | 2021  | 2017–<br>2021 . (%) |
|--|-------|-------|-------|-------|-------|---------------------|
|  | 8,81  | 10,89 | 10,30 | 10,83 | 11,25 | 127,65              |
|  | 0,20  | 0,25  | 0,24  | 0,18  | 0,22  | 110,11              |
|  | 0,83  | 1,00  | 0,97  | 1,09  | 1,13  | 136,57              |
|  | 16,22 | 17,79 | 18,00 | 19,22 | 22,45 | 138,41              |
|  | 1,77  | 2,34  | 2,26  | 1,95  | 2,43  | 137,57              |
|  | 2,03  | 2,16  | 2,02  | 2,01  | 2,00  | 98,51               |
|  | 14,33 | 14,44 | 18,11 | 16,90 | 21,69 | 151,31              |
|  | 2,16  | 2,12  | 3,28  | 4,27  | 3,12  | 144,62              |
|  | 76,19 | 77,16 | 88,55 | 85,24 | 90,49 | 118,77              |
|  | 1,07  | 0,95  | 0,97  | 0,93  | 1,07  | 100,62              |
|  | 5,46  | 5,12  | 4,36  | 3,73  | 4,80  | 87,82               |
|  | 14,25 | 14,04 | 19,47 | 16,72 | 26,01 | 182,56              |
|  | 4,46  | 4,48  | 6,21  | 6,81  | 8,00  | 179,11              |
|  | 13,69 | 12,09 | 11,51 | 11,05 | 18,55 | 135,50              |

\* [2]

4,8 ..  
1,49%, 2021 2 .  
:  
2021 , 90,5 ..  
2017–2021 . 18,8%, 2021  
26 .. 2017–2021 . — 82,6%,  
— 22,5 ..  
2017–2021 . — 38,4%, 2021  
21,7 .. 2017–2021 51,3%.

5. 2021

|  | , %   | ,     | ,    |
|--|-------|-------|------|
|  | 104,9 | 419,3 | 11,3 |
|  | 102,5 | 35,5  | 0,2  |
|  | 102,0 | 49,7  | 1,1  |
|  | 102,4 | 683,3 | 22,5 |
|  | 101,0 | 117,2 | 2,4  |
|  | 105,4 | 61,3  | 2,0  |
|  | 103,6 | 307,8 | 21,7 |
|  | 102,9 | 385,6 | 90,5 |
|  | 106,0 | 198,1 | 1,1  |
|  | 106,3 | 96,2  | 4,8  |
|  | 103,6 | 364,2 | 26,0 |
|  | 100,2 | 173,1 | 8,0  |
|  | 104,2 | 108,5 | 18,5 |

\* [2]

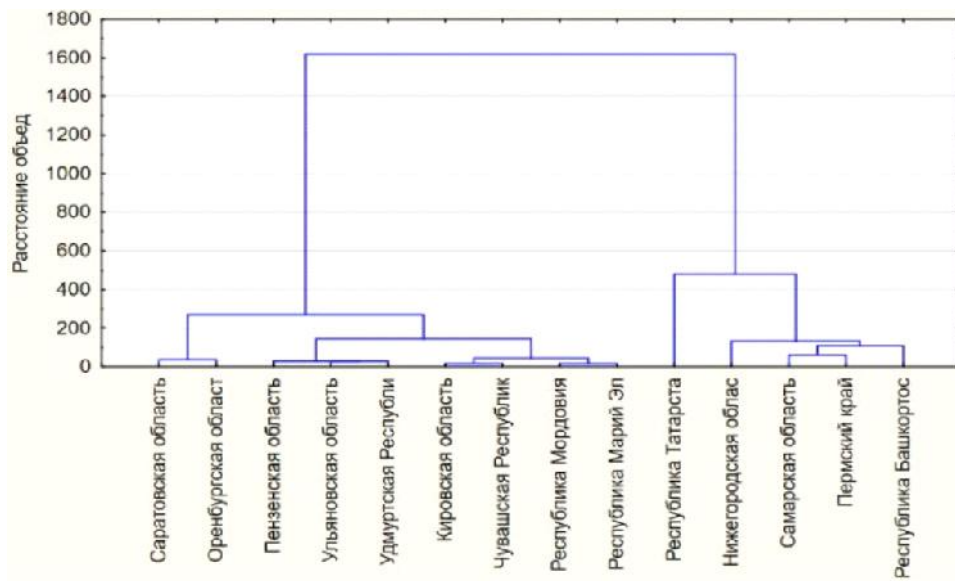
14

8,

2021

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|--|-----|----------|
|  | ( ) | 1        |
|  |     | 4        |
|  |     | 32,62568 |
|  |     | 36,59127 |
|  |     | 32,10576 |
|  |     | 7,18132  |

|  |     |      |
|--|-----|------|
|  | ( ) | 2    |
|  |     | 1    |
|  |     | 0,00 |

|  |     |          |
|--|-----|----------|
|  | ( ) | 3        |
|  |     | 2        |
|  |     | 7,694505 |
|  |     | 7,694505 |

|  |     |          |
|--|-----|----------|
|  | ( ) | 4        |
|  |     | 3        |
|  |     | 6,914377 |
|  |     | 6,911363 |
|  |     | 5,793846 |

|  |     |          |
|--|-----|----------|
|  | ( ) | 5        |
|  |     | 4        |
|  |     | 11,57568 |
|  |     | 11,59004 |

|  |     |         |
|--|-----|---------|
|  | ( ) | 5       |
|  |     | 4       |
|  |     | 3,47945 |
|  |     | 3,54440 |

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 2021  
 2020  
 2016–2020  
 1%,  
 26,62% 2021 3075  
 2017–2021  
 33,28%

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2. ... [ ]// : rosstat.gov.ru/statistic ( : 05.10.2022).
3. ... // : ... —2021.— 4 (57).— .186–199.
4. ... ( )/ ... « —2011.— 1.— .33–36.
5. ... // : ... —2021.— 3 (56).— .200–211.

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6. . . . / . . . . // : , , . — 2020. — 2(51). — .223–231.

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