



## REGION BUSINESS ACTIVITY LEVEL IN THE ASSESSMENT SYSTEM OF REGIONAL SOCIO-ECONOMIC PROCESSES

( 67 ),

The article presents a new approach to assessing regional socio-economic processes based on a comprehensive indicator of the region's business activity. The features of the system for assessing the business activity of the region are considered, taking into account the place of regional complexes in the national economy. Based on an analysis of literary sources and previously completed developments on the topic, the author's definition of business activity in the region is presented. The author's methodological approach to assessing the business activity of a region as a complex characteristic is proposed, taking into account ten blocks of indicators (in total includes 67 indicators) reflecting the mechanisms of functioning of the regional system based on the official statistics base. A methodological approach to assessing the business activity of a region was used to analyze the processes of functioning of a new region of the Russian Federation — the Republic of Crimea, which made it possible to identify development trends of both the regional system as a whole based on a comprehensive indicator of the level of business activity in the region, and its subsystems — according to the levels of general indicators of blocks. The use of a methodological approach allows us to increase the degree of scientific validity of the developed medium-term and current management impacts in order to ensure sustainable environmental, socio-economic development of the territory, since it allows us to reduce the subjectivity of the method for assessing the current trends in the functioning of the region.

*Keywords:* regional system, region business activity, assessment of regional processes.

( , , ) ,

( ),



[21],

(1).

$$ДАР = f(A_i) = f(A_1, A_2, A_3, A_4, A_5, A_6, A_7, A_8, A_9, A_{10})$$

$A_1$ - использование ресурсов региона	$A_2$ - активность в производстве и сфере создания услуг в регионе	$A_3$ - инвестиционная активность региона	$A_4$ - инновационная активность региона	$A_5$ - инфраструктурная активность региона	$A_6$ - активность региона по решению социальных проблем	$A_7$ - экономическая активность населения региона	$A_8$ - активность финансовой сферы региона	$A_9$ - предпринимательская активность	$A_{10}$ - обеспечение экологической безопасности региона
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1.

( ) ( )

(67) — (i) 1), [21].

2014

2015–2020

- 2 « » — « »;
  - 3 « » — ( ) ;
  - 8 « » — ( )
- [1, 15, 19].

( , - )

[2, 9, 10].

( .1).

**I.**

(2015–2020 .)\*

	, r		, r
1 « ( 1) »		2 « » ( 2)	
-	0,653833183	-	0,833262721
	0,688871157	-	-0,403024052
-	0,652934923		0,827039776
	-0,359016572	-	0,348120139
3 « (A <sub>3</sub> ) »		« »	0,945025253
-	0,650759382	-	0,85652545
-	0,729805425	-	0,88543395
1		1000 -	-0,26313543

	, r		, r
	0,073377806		0,806855129
-	0,338462589		-0,649967177
-	0,261390584	4 «	»
( )	0,651848791	( 4)	-0,196964404
-	0,777631659	-	-0,26312499
5 «	-	, -	0,680030028
» ( 5)	0,077627281	-	0,266805922
-	-0,651373233	-	0,657862263
-	0,64815825	, -	0,648514949
-	-0,651172431	( -	-0,318130596
-	0,650344821	) -	-
	-0,653804945	7 «	» ( 7)
	0,712598701	15-72	-0,653065985
-	0,840860276	( -	-0,664640985
-		), 15-72	-0,160763456
		, 15-72	

	, r		, r
6 « » ( 6)	.	( ) -	0,764960785
,	0,775033147	1000 -	0,10860351
- - 1	0,64593054		-0,35591722
, 2 1	0,68042698	9 « » ( 9)	-
1000 -	0,690633461	(	-0,099312148
- 1000 -	-0,671487264	- -	0,714098343
, - -	-0,663407518	, ( ) -	0,740353649
10000 ( )	0,154850078	, -	0,167832573
8 « » ( 8)	-	10 « » ( 10)	-
	0,646908493		-0,025332753
-	0,214105758	-	0,646760318
	0,969832129	-	0,927589689
) ( - , ,	-0,651521269	-	0,651035232
	-0,845910332		-0,454785473
	0,90793859		
-	0,068033652		
( ) -	0,891089484		

\*

$A_i$  (r) ( .2).

2.

(A<sub>i</sub>) (2015–2020 .)\*

A <sub>i</sub>										
1	1= 0,65?	1.1+0,69?	1.2+0,65?	1.3						
2	2= 0,83?	2.1+0,83?	2.3+0,95?	2.5+0,86?	2.6+0,89?	2.7++0,81?	2.9+0,65/	2.10		
3	3= 0,65?	3.1+0,73?	3.2+0,65?	3.7+0,78?	3.8					
4	4= 0,68?	4.3+ 0,66?	4.5+0,65?	4.6						
5	5= 0,65/	5.2+0,65?	5.3+0,65/	5.4+0,65?	5.5+0,65/	5.6+ 0,71?	5.7+0,84?	5.8		
6	6= 0,78?	6.1+0,65?	6.2+0,68?	6.3+0,69?	6.4+0,67/	6.5+0,66/	6.6			
7	7= 0,65/	7.1+0,66/	7.2+0,77?	7.4						
8	8= 0,65?	8.1+0,97?	8.3+0,65/	8.4+0,85/	8.5+0,9?	8.6+0,89?	8.8			
9	9= 0,71?	9.2+0,74?	9.3							
10	10= 0,65?	10.2+0,93?	10.3+0,65?	10.4						

\*

$A_i$  2015–2020

( .3).

3.

(A<sub>i</sub>) (2015–2020 .)\*

A <sub>i</sub>	2015	2016	2017	2018	2019	2020
1	1,54564	2,11980	1,41434	1,79024	1,74941	1,55728
2	5,63411	10,5014	7,91439	7,90059	5,77093	5,55411
3	3,47005	11,8472	5,45818	4,04031	3,13853	3,90960
4	1,34641	1,69397	1,59457	1,46455	2,05676	1,44389
5	5,60000	7,41278	5,78933	5,81996	5,38667	5,45817
6	3,99490	5,65537	4,24395	4,39484	4,69924	3,92801
7	2,46000	2,70811	2,44331	2,52628	2,41954	2,45438
8	4,59320	5,94520	5,70750	4,97231	5,06453	5,00673
9	1,55410	1,86681	1,63379	1,71448	1,72382	1,60099
10	2,22759	3,81317	2,22125	2,94246	2,95521	2,40644

\*

( )

3

« » ( .4). 2015–2020 .( .2).

(

2015 )  
2015–2020 .( .3,4).

2015–2020 .,

, 2016

44 %

2015 .

2017



4.

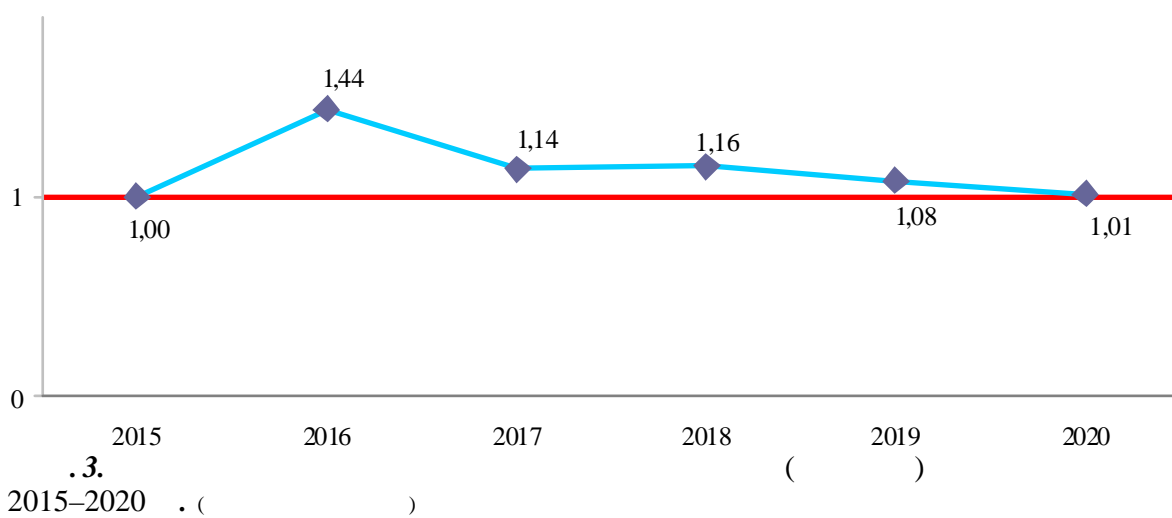
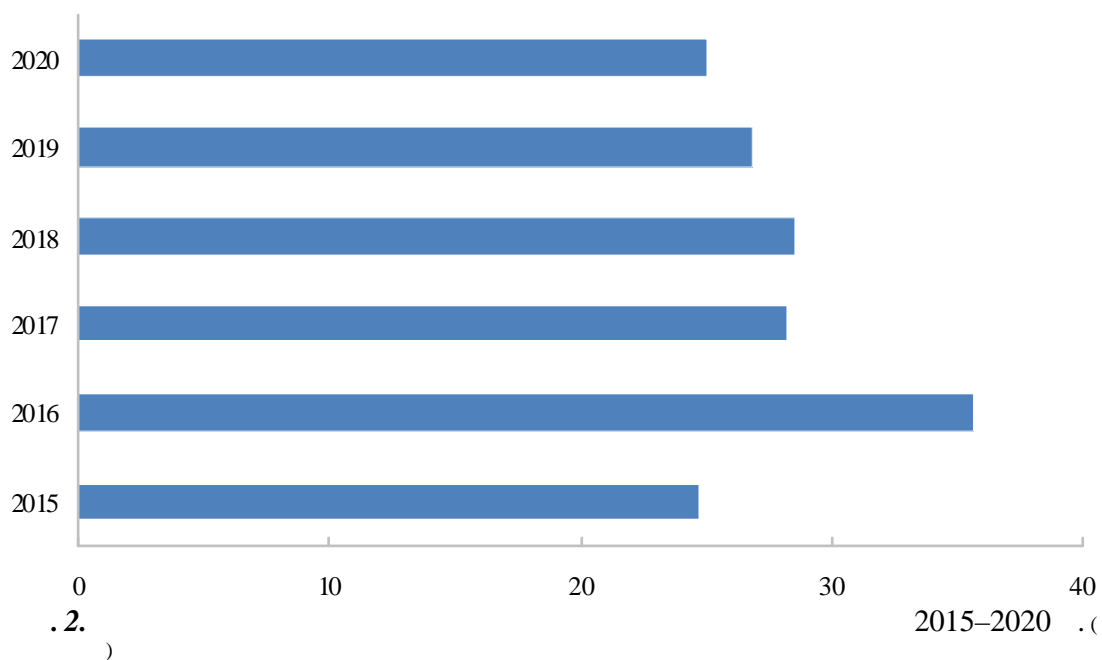
3 «

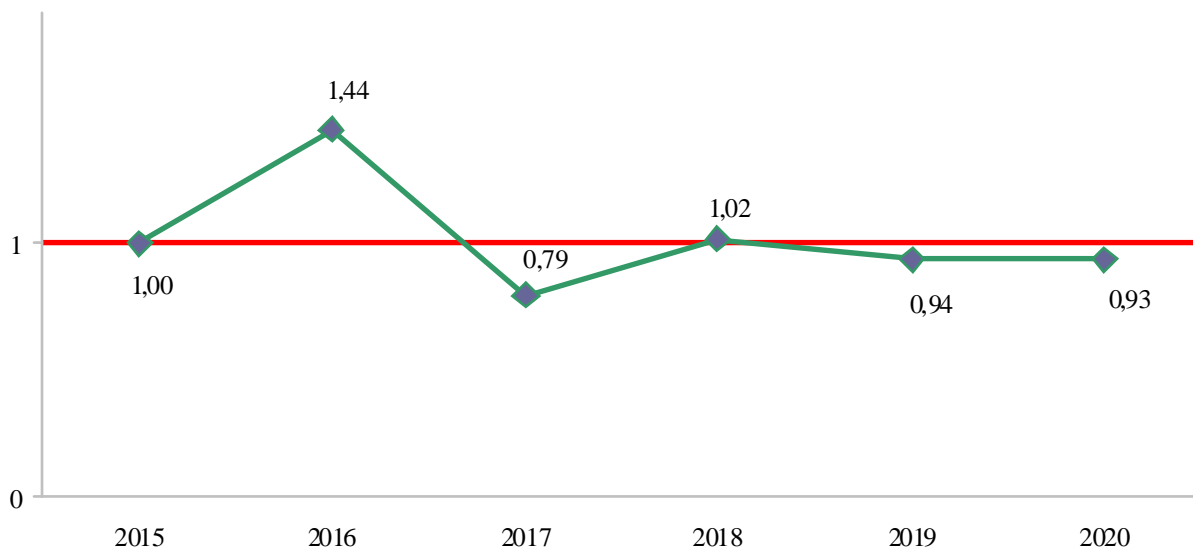
»

(2015–2020 .) \*

	(w)
1	0,718641775
2	0,902058755
3	1
4	0,513942
5	0,983450285
6	0,850594262
7	0,923093018
8	0,826341959
9	0,770485501
10	0,753827

\*





**.4.** ( )  
 2015–2020 ( )  
 2015 ( .3) 21 %  
 2016 ( .4) 14 %  
 (A<sub>i</sub>) 2018 ( .3) (2%)  
 2015 16%  
 1 « » ( 26,6 %)  
 10 « » ( 32,5 %).  
 2019–2020 .  
 ( 2). 2020  
 2015 1%, (COVID-19)

• ;  
 • ;  
 • ;  
 ( ) ;  
 • ;  
 • ;  
 • ;  
 • ;

2015–2020 .

1. Abberger, K. Composite global indicators from survey data: the global economic barometers / K. Abberger, M. Graff, O.M. Iler, J-E. Sturm // *Review of World Economics*. — 2022. — Vol. 158. — P.917–945. — DOI 10.1007/s10290-021-00449-8.

2. Abramova, M. Transmission channels between financial deepening and economic growth: econometric analysis comprising monetary factors / M. Abramova, K. Krinichansky, D.Artemenko // *Mathematics*. — 2022. — Vol. 10. No 2. — 242. — DOI 10.3390/math10020242.

3. // : , , . — 2022. — 4(61). — .5–25. — EDNFGOKJL.

4. // : . — 2022. — 1(39). — .94-100. — DOI 10.17122/2541-8904-2022-1-39-94-100. — EDN BIRJLD.

5. // . — 2012. — 1-1(5). — .35-43. — EDN QZXLWR.

6. // . — 2021. — .11. 5. — .1105–1116. — DOI 10.18334/epp.11.5.112079. — EDN CDGWLV.

7. // : . — 2022. — .20. 1(496). — .111–130. — DOI 10.24891/re.20.1.111. — EDN DPHNAN.

8. // . — 2022. — .16. 1. — .77-92. — DOI 10.18334/ce.16.1.114097. — EDN ESRCFE.

9. // . — 2020. — .15. 6. — .8-41. — DOI 10.18288/1994-5124-2020-6-8-41. — EDN JZQULE.

10. // : . — 2017. — 1. — .33-48. — EDN YKWETP.

11. // : . — 2015. — 3(87). — .26-37. — EDN UCLDTJ.

12. Mikheeva, N.N. Possible alternatives to the gross regional product indicator / N.N. Mikheeva // *Studies on Russian Economic Development*. — 2020. — Vol. 31. — 1. — P. 24-30. — DOI 10.1134/S1075700720010098.

13. Mueller, A.P. Financial cycles, business activity, and the stock market / A.P. Mueller // *The Quarterly Journal Austrian Economics*. — 2001. — 4. — P. 3–21. — DOI 10.1007/s12113-001-1000-5.

14. Nissen, V. The Role of IT-Management in the Digital Transformation of Russian Companies / V. Nissen, T. Lezina, A. Saltan // Foresight and STI Governance. — 2018. — Vol. 12. — 3. — PP. 53–61. — DOI 10.17323/2500-2597.2018.3.53.61.

15. Rusanov, M.A. On the approach to forecasting indicators of socio-economic development of the region based on indirect indicators / M.A. Rusanov, V.R. Abbazov, V.A. Baluev, V.V. Burlutsky, A.V. Melnikov // Modeling, Optimization and Information Technology. — 2022. — Vol. 10. — No 3(38). — P. 2–3. — DOI 10.26102/2310-6018/2022.38.3.004.

16. — 2022. — 5. — 26–50. — DOI 10.32609/0042-8736-2022-5-26-50. — EDN ZHBZDY.

17. — 2016. — 12. — 29–38. — EDN: XGSGLF.

18. Shakirova, A.I. Dynamic prediction of business activity and determination of the socioeconomic development prospects of a region (on the example of the Republic of Tatarstan) / A.I. Shakirova // Studies on Russian Economic Development. Dev. 23. — 2012. — P. 585–592. — DOI 10.1134/S1075700712060081.

19. Shirov, A.A. The system of short-term regional economic monitoring in Moscow / A.A. Shirov, V.V. Potapenko, K.M. Nikitin, Yu. Yu. Chaplina // Studies on Russian Economic Development. — 2022. — Vol. 33. — P. 301–310. — DOI 10.1134/S1075700722030145.

20. — 2022. — 1(45). — 218–225. — DOI 10.17213/2312-6469-2022-1-218-225. — EDN HUINBO.

21. — 2019. — 244. — EDN RHBRK.

#### SPISOK LITERATURY

1. Abberger, K. Composite global indicators from survey data: the global economic barometers / K. Abberger, M. Graff, O.M. Iler, J-E. Sturm // Review of World Economics. — 2022. — Vol. 158. — P.917–945. — DOI 10.1007/s10290-021-00449-8.

2. Abramova, M. Transmission channels between financial deepening and economic growth: econometric analysis comprising monetary factors / M. Abramova, K. Krinichansky, D.Artemenko // Mathematics. — 2022. — Vol. 10. No 2. — 242. — DOI 10.3390/math10020242.

3. Blazhevich, O.G. Formirovaniye sistemy otsenki effektivnosti deyatel'nosti predpriyatiy v Rossiyskoy Federatsii / O.G. Blazhevich, E.I. Vorobyova, S.E. Bekirova // Nauchnyy vestnik: finansy, banki, investitsii. — 2022. — 4(61). — S. 5–25. — EDN FGOKJL.

4. Blazhenkova, N.M. O problemakh provedeniya monitoringa sotsial'no-ekonomicheskogo razvitiya regiona v sovremennykh usloviyakh khozyaystvovaniya / N.M. Blazhenkova, F.F. Bayrushina // Vestnik UGNTU. Nauka, obrazovaniye, ekonomika. Seriya: Ekonomika. — 2022. — 1(39). — S. 94-100. — DOI 10.17122/2541-8904-2022-1-39-94-100. — EDN BIRJLD.

5. Vetrova, N.M. Otsenka delovoy aktivnosti regiona v sisteme regional'nogo upravleniya / N.M. Vetrova, G.A. Shtofer // Byulleten' Mezhdunarodnogo Nobelevskogo ekonomicheskogo foruma. — 2012. — 1-1(5). — S. 35–43. — EDN QZXLWR.

6. Glavatskiy, V.B. Razvitiye informatsionnogo obespecheniya upravleniya prostranstvenno-otraslevoy strukturoy regiona / V.B. Glavatskiy, S.A. Pytkina // Ekonomika, predprinimatel'stvo i pravo. — 2021 —. T. 11. — 5. — S. 1105–1116. — DOI 10.18334/epp.11.5.112079. — EDN CDGWLW.

7. Yel'shin, L.A. Empiricheskaya otsenka vliyaniya delovoy aktivnosti na reputatsionny kapital regiona / L.A. Yel'shin, R.T. Burganov, A.A. Abdukayeva // Regional'naya ekonomika: teoriya i praktika. — 2022. — T. 20. 1(496). — S. 111–130. — DOI 10.24891/re.20.1.111. — EDN DPHNAN.

8. Yergin, S.M. Problemy i perspektivy informatsionnogo obespecheniya infrastruktury predprinimatel'skoy deyatel'nosti v usloviyakh tsifrovizatsii / S.M. Yergin, I.V. Kopayenko // Kreativnaya ekonomika. — 2022. — T. 16. 1. — S. 77–92. — DOI 10.18334/ce.16.1.114097. — EDN ESRCFE.

9. Kitrar, L. Analiz vzaimosvyazi indikatora ekonomicheskikh nastroyeniy i rosta VVP / L. Kitrar, T. Lipkind // Ekonomicheskaya politika. — 2020. — T. 15. — 6. — S. 8–41. — DOI 10.18288/1994-5124-2020-6-8-41. — EDN JZQULE.

10. Kubina, N.Ye. Metodologicheskii podkhod k otsenke sostoyaniya biznes-sredy kaliningradskoy oblasti: delovaya aktivnost' / N.Ye. Kubina, N. Yu. Luk'yanova, L. Yu. Shcherbinina // Finansy i biznes. — 2017. — 1. — S. 33–48. — EDN YKWETP.

11. Loseva, O.V. Delovaya aktivnost' kak operezhayushchiy indikator ekonomicheskogo razvitiya: zarubezhnyy i rossiyskiy opyt / O.V. Loseva, M.A. Fedotova, G.I. Khotinskaya // Vestnik Finansovogo universiteta. — 2015. — 3(87). — S. 26–37. — EDN UCLDTJ.

12. Mikheeva, N.N. Possible alternatives to the gross regional product indicator / N.N. Mikheeva // *Studies on Russian Economic Development*. — 2020. — Vol. 31. — 1. — P. 24–30. — DOI 10.1134/S1075700720010098.
13. Mueller, A.P. Financial cycles, business activity, and the stock market / A.P. Mueller // *The Quarterly Journal Austrian Economics*. — 2001. — 4. — P. 3–21. — DOI 10.1007/s12113-001-1000-5.
14. Nissen, V. The Role of IT-Management in the Digital Transformation of Russian Companies / V. Nissen, T. Lezina, A. Saltan // *Foresight and STI Governance*. — 2018. — Vol. 12. — 3. — PP. 53–61. — DOI 10.17323/2500-2597.2018.3.53.61.
15. Rusanov, M.A. On the approach to forecasting indicators of socio-economic development of the region based on indirect indicators / M.A. Rusanov, V.R. Abbasov, V.A. Baluev, V.V. Burlutsky, A.V. Melnikov // *Modeling, Optimization and Information Technology*. — 2022. — Vol. 10. — No 3(38). — P. 2–3. — DOI 10.26102/2310-6018/2022.38.3.004.
16. Smirnov, S.V. Monitoring rossiyskogo delovogo tsikla na osnove yezhednevnykh dannykh / S.V. Smirnov, S.S. Smirnov // *Voprosy ekonomiki*. — 2022. — 5. — S. 26–50. — DOI 10.32609/0042-8736-2022-5-26-50. — EDN ZHBZDY.
17. Smirnov, S.V. Indeksy regional'noy ekonomicheskoy aktivnosti / S.V. Smirnov, A.A. Frenkel', N.V. Kondrashov // *Voprosy statistiki*. — 2016. — 12. — S. 29–38. — EDN: XGSGLF.
18. Shakirova, A.I. Dynamic prediction of business activity and determination of the socioeconomic development prospects of a region (on the example of the Republic of Tatarstan) / A.I. Shakirova // *Studies on Russian Economic Development. Dev.* 23. — 2012. — P. 585–592. — DOI 10.1134/S1075700712060081.
19. Shirov, A.A. The system of short-term regional economic monitoring in Moscow / A.A. Shirov, V.V. Potapenko, K.M. Nikitin, Yu. Yu. Chaplina // *Studies on Russian Economic Development*. — 2022. — Vol. 33. — P. 301–310. — DOI 10.1134/S1075700722030145.
20. Shtofer, G.A. Osobennosti teorii analiza i prognozirovaniya ekonomicheskikh protsessov na mezourovne v tsifrovoy ekonomike / G.A. Shtofer, N.M. Vetrova, A.A. Gaysarova // *Drukerovskiy vestnik*. — 2022. — 1(45). — S. 218–225. — DOI 10.17213/2312-6469-2022-1-218-225. — EDN HUINBO.
21. Ekologo-ekonomicheskiye aspekty funktsionirovaniya regional'nykh sistem: monografiya / Pod obshchey red. d-ra tekhn. nauk, prof. N.M. Vetrovov. — Simferopol': IT «ARIAL», 2019. — 244 s. — EDN RHBRLK.

28 2023

27 2023