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Data Article

Data on empirically estimated corporate survival rate in Russia

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ARTICLE INFO

ABSTRACT

The article presents data on the corporate survival rate in Russia in 1991–2014. The empirical survey was based on a random sample with the average number of non-repeated observations (number of companies) for the survey each year equal to 75,958 (24,236 minimum and 126,953 maximum). The actual limiting mean error Δp was 2.24% with 99% integrity. The survey methodology was based on a cross joining of various formal periods in the corporate life cycles (legal and business), which makes it possible to talk about a conventionally active time life of companies' existence with a number of assumptions. The empirical survey values were grouped by Russian regions and industries according to the classifier and consolidated into a single database for analysing the corporate life cycle and their survival rate and searching for deviation dependencies in calculated parameters. Preliminary and incomplete figures were available in the paper entitled "Survival Rate and Lifecycle in Terms of Uncertainty: Review of Companies from Russia and Eastern Europe" (Kuzmin and Guseva, 2016) [3]. The further survey led to filtered processed data with clerical errors excluded. These particular values are available in the article. The survey intended to fill a fact-based gap in various fundamental surveys that involved matters of the corporate life cycle in Russia within the insufficient statistical framework. The data are of interest for an analysis of Russian entrepreneurship, assessment of the market development and incorporation risks in the current business environment. A further heuristic potential is achievable

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through an ability of forecasted changes in business demography and model building based on the representative data set. © 2017 The Authors. Published by Elsevier Inc. This is an open access article under the CC BY license (http://creativecommons.org/licenses/by/4.0/).

Specifications Table

4	Subject area	Economics
5	Subject area	
6 7	More specific subject area	Business demography, corporate life cycle
8	Type of data	Table
i9 '0	How data were acquired	Collection of publicly available registration data on companies and their financial statements
'1	Data format	Raw, estimated
'2 '3	Experimental factors	A consolidated set of data on companies (grouped by region).
4	Experimental	The adjusted length of companies' life in Russia is estimated based on the
'5 '6	features	information on registration changes and financial and operating performance in 1991–2014.
'7 '8	Data source location	Ural State University of Economics and Institute of Economics of the Ural Branch of the Russian Academy of Sciences (Ekaterinburg, Russian Federation)
'9 10	Data accessibility	Data available with this article and publicly available online on https://data. mendeley.com/datasets/7jtxrpkyxx/1;
1		Disaggregated data provision is possible on demand by Department of Corporate Economics of the Ural State University of Economics or Division of Regional
- 3 4		Industrial Policy and Economic Security of the Institute of Economics of the Ural Branch of the RAS
5 6		
7	Value of the dat	

- The data are a descriptor of the corporate business activity and resistance to external and in-house risks.
- The data will be useful for an analysis in various areas of business demography and corporate life cycle.
- 95 • It might be possible to use the data to measure a risk of doing business in Russia throughout an 96 observation period with a breakdown by regions and industries. It might be also possible to use them to evaluate favourable conditions for incorporation. 98
 - It is possible to use these data to make a forecast of changes in business demography and for model building.

1. Background

104 The corporate survival rate is an important characteristic of the market development degree. A 105 Q2 comparative analysis of the survival rate gives an idea of the institutional and infrastructure support 106 for a certain area. All of these parameters one way or another point out to the uncertainty and risk 107 108 existing while making transactions, where the high complexity in transactioning generates equally

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 Table 1

 Survival rate of Russian companies in 1991–2014, %.

T +	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
0									94.2	92.0	92.1	88.5	89.6	91.1	92.1	92.2	91.6	91.9	93.9	92.5	94.6	94.1	89.5	86.0
1								88.6	82.6	79.1	75.7	73.4	77.9	79.5	81.3	82.8	80.6	82.4	82.8	83.8	84.2	77.7	70.4	
2							87.2	77.1	71.4	64.2	63.2	62.9	67.9	70.7	72.2	74.8	72.1	73.5	74.8	74.0	68.4	60.0		
3						88.4	75.7	66.9	59.5	53.9	54.8	54.8	61.2	62.9	64.9	68.6	65.1	67.8	67.8	61.8	54.2			
4					89.5	78.2	65.9	56.0	51.5	47.1	48.1	49.1	55.8	56.9	59.8	63.2	60.8	62.7	58.3	50.5				
5				90.6	79.5	68.9	55.7	48.7	46.0	41.8	43.5	44.6	51.0	52.7	55.5	58.9	56.5	54.6	48.4					
6			92.1	81.8	70.5	58.7	49.0	43.8	41.6	38.0	39.7	40.8	47.6	49.1	52.6	55.2	49.9	46.0						
7		93.2	84.2	73.4	60.3	52.0	44.4	39.9	38.2	34.6	36.5	38.0	44.5	46.8	49.8	49.6	42.5							
8	91.7	86.5	76.0	63.2	53.8	47.4	40.4	36.9	35.2	32.0	33.9	35.4	42.5	44.5	45.0	42.8								
9	84.6	78.7	66.1	56.4	49.0	43.4	37.4	34.3	32.9	29.9	31.8	33.8	40.5	40.3	39.3									
10	77.1	68.7	59.1	51.6	45.0	40.4	34.8	32.1	31.1	28.1	30.4	32.2	37.0	35.4										
11	67.5	61.6	54.2	47.2	42.0	37.8	32.6	30.1	29.4	26.9	28.9	29.4	32.7											
12	61.2	56.3	49.6	43.8	39.3	35.5	30.8	28.5	28.2	25.6	26.4	26.0												
13	57.0	51.2	46.3	41.0	37.0	33.7	29.0	27.4	27.0	23.6	23.3													
14	52.8	47.6	43.5	38.6	35.0	31.9	28.0	26.3	25.1	20.9														
15	50.0	44.5	41.2	36.6	33.0	30.7	26.8	24.5	22.6															
16	47.3	42.0	39.3	34.3	31.8	29.6	24.8	22.1																
17	44.9	40.1	37.2	32.9	30.6	27.5	22.4																	
18	42.9	38.2	35.6	31.6	28.3	24.9																		
19	40.9	36.6	34.3	29.4	25.5																			
20	39.3	35.2	31.9	26.7																				
21	37.7	32.7	28.9																					
22	34.6	29.7																						
23	30.7																							
Emp	irical st	atistics																						
K1	0.60	0.58	0.55	0.51	0.48	0.44	0.40	0.37	0.35	0.34	0.35	0.36	0.40	0.43	0.46	0.51	0.52	0.56	0.61	0.65	0.71	0.76	0.82	-
к2	14.3	13.2	12.0	10.8	9.6	8.4	7.2	6.2	5.6	5.1	4.9	4.7	4.8	4.7	4.6	4.6	4.1	3.9	3.6	3.2	2.8	2.3	1.6	-
кЗ	7.3																							

Note: K1 - resistance coefficient of the companies established in year T; K2 - average life length of the companies established in year T; K3 - average life length of companies in 1991–2014.

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T+	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
0									94.3	92.4	91.9	87.1	87.5	88.9	91.2	93.8	92.7	92.7	94.9	94.1	95.9	95.7	90.8	87.5
1								89.0	82.2	78.6	73.5	69.6	73.7	76.4	81.5	85.2	82.4	85.2	86.2	86.7	88.3	80.5	71.8	
2							87.6	78.4	70.1	61.9	59.9	58.9	64.6	68.5	73.9	78.5	75.6	78.3	80.5	79.8	73.7	63.2		
3						88.3	76.3	68.1	56.4	51.6	50.9	51.6	58.4	61.8	67.8	73.8	70.5	73.8	74.6	67.6	59.7			
4					87.2	77.6	67.3	54.7	48.2	44.3	44.8	46.8	53.3	57.0	64.2	69.5	66.6	69.6	65.1	56.3				
5				90.3	77.6	67.9	56.2	46.7	42.3	39.2	40.4	42.0	49.0	53.4	59.8	65.6	63.0	61.0	54.2					
6			91.6	82.0	68.5	56.1	48.6	42.3	38.5	36.3	37.0	38.7	46.5	50.5	57.7	62.4	55.5	51.6						
7		90.9	83.3	73.7	56.3	48.6	42.4	38.6	35.7	33.3	34.6	36.5	43.8	48.7	55.4	56.5	47.0							
8	91.3	83.3	74.1	62.8	49.7	43.6	38.7	35.9	32.9	30.8	32.4	34.1	42.1	46.8	50.3	49.1								
9	84.7	74.8	63.5	56.0	44.5	39.5	35.8	33.4	30.7	29.1	30.4	32.7	40.6	42.5	44.2									
10	75.9	64.2	55.9	50.5	41.1	37.0	33.2	31.3	29.1	27.5	29.3	31.5	37.1	37.3										
11	64.3	57.1	51.3	46.4	38.8	34.7	30.9	29.5	27.8	26.5	28.4	28.6	32.6											
12	58.0	52.2	47.3	43.1	36.5	32.8	29.5	28.1	26.7	25.4	25.7	25.3												
13	54.0	47.3	44.2	39.8	35.1	31.1	27.7	27.4	25.9	23.2	22.3													
14	49.0	44.1	40.9	37.2	33.6	29.3	26.7	26.7	24.2	20.5														
15	46.0	41.5	38.9	35.7	31.9	28.5	25.7	24.8	21.9															
16	43.5	38.8	37.5	34.0	30.7	27.7	23.8	22.4																
17	41.2	37.7	35.9	32.6	29.3	25.5	21.4																	
18	39.3	35.9	34.6	31.7	27.4	22.9																		
19	37.0	34.8	33.6	29.7	24.4																			
20	36.2	33.6	31.3	27.2																				
21	35.0	31.6	28.8																					
22	33.1	29.1																						
23	29.5																							
Empi	rical st	atistics																						
K1	0.58	0.55	0.53	0.51	0.46	0.43	0.40	0.36	0.33	0.33	0.34	0.34	0.38	0.41	0.47	0.53	0.54	0.59	0.64	0.67	0.74	0.78	0.84	-
К2	13.9	12.7	11.7	10.6	9.3	8.2	7.2	6.1	5.3	4.9	4.7	4.4	4.5	4.5	4.7	4.8	4.3	4.1	3.8	3.4	3.0	2.4	1.7	-
к3	7.1																							

Note: K1 - resistance coefficient of the companies established in year T; K2 - average life length of the companies established in year T; K3 - average life length of companies in 1991–2014.

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 Table 2

 Survival rate of Russian companies in the Far Eastern Federal District in 1991–2014

Γ+	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
0									95.1	91.3	91.6	88.0	89.2	90.3	91.2	92.0	91.1	90.8	93.4	91.4	93.5	93.1	88.9	84.5
1								90.0	84.4	78.0	74.9	72.3	76.8	78.0	80.1	82.4	79.6	80.7	80.8	80.9	81.8	75.9	69.1	
2							87.9	78.3	73.4	62.8	62.2	61.6	66.2	68.8	71.2	73.8	70.0	71.2	71.3	69.9	65.7	58.1		
3						88.4	75.3	67.0	61.3	52.1	53.8	53.4	59.1	61.3	64.0	67.1	62.5	64.5	63.7	58.4	51.7			
4					89.9	76.5	65.0	55.0	52.4	44.8	46.8	47.4	53.5	55.1	58.4	61.3	57.8	58.7	54.7	47.6				
5				90.3	79.2	67.2	54.5	47.0	46.4	39.6	42.0	42.6	49.1	50.6	53.6	56.6	53.2	51.0	45.2					
6			91.8	80.5	70.3	56.4	47.3	41.8	41.3	35.7	38.3	38.8	45.4	46.6	50.3	52.5	46.9	42.8						
7		94.0	83.0	71.9	60.7	49.6	42.3	37.7	37.2	32.6	34.9	36.0	42.2	44.1	47.3	46.9	40.0							
8	91.6	87.2	74.5	61.4	53.9	44.6	37.7	34.6	34.3	30.1	32.1	33.2	40.0	41.7	42.5	40.5								
9	84.2	78.8	64.0	54.0	48.6	40.3	34.5	32.0	32.0	28.1	30.0	31.4	37.9	37.6	37.0									
10	76.5	69.1	56.9	48.7	43.4	37.2	31.9	29.8	29.9	26.1	28.3	29.7	34.6	33.1										
11	66.5	61.6	51.4	43.6	40.0	34.5	29.7	27.2	28.1	24.8	26.8	27.1	30.7											
12	59.2	55.3	46.3	39.6	37.1	32.0	28.0	25.6	26.8	23.6	24.5	24.1												
13	54.3	48.8	42.3	37.0	34.6	30.1	26.1	24.6	25.6	21.5	21.8													
14	49.2	44.5	39.5	34.6	32.4	28.1	24.9	23.5	23.7	19.0														
15	45.5	41.0	37.1	32.4	30.0	26.9	23.8	21.8	21.5															
16	41.9	38.6	35.1	30.1	28.7	25.8	21.8	19.7																
17	39.4	36.4	33.0	28.6	27.3	23.7	19.7																	
18	37.0	34.4	31.4	27.2	24.9	21.4																		
19	34.8	33.0	30.0	25.2	22.3																			
20	32.8	31.3	27.8	22.8																				
21	31.1	29.0	25.1																					
22	28.7	26.1																						
23	25.7																							
Empi	irical st	atistics																						
K1	0.59	0.58	0.54	0.51	0.49	0.44	0.40	0.37	0.36	0.33	0.35	0.35	0.39	0.42	0.46	0.50	0.50	0.54	0.59	0.62	0.69	0.75	0.82	-
K2	14.2	13.3	11.9	10.7	9.7	8.3	7.2	6.2	5.7	5.0	4.9	4.6	4.7	4.6	4.6	4.5	4.0	3.8	3.5	3.1	2.8	2.3	1.6	-
КЗ	7.0																							

 Table 3

 Survival rates of Russian companies in the Volga Federal District in 1991–2014, %.

Note: K1 - resistance coefficient of the companies established in year T; K2 - average life length of the companies established in year T; K3 - average life length of companies in 1991-2014.

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T+	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
0									93.5	92.7	92.8	89.1	90.5	92.2	93.4	93.2	92.6	93.5	94.9	93.7	96.1	95.4	90.2	87.2
1								85.9	83.2	80.7	77.2	74.6	80.0	82.1	84.3	84.5	82.9	85.7	86.0	87.0	87.5	80.5	72.5	
2							86.1	75.1	72.8	66.2	65.5	65.3	71.4	74.0	76.7	77.4	75.6	78.6	80.1	78.3	73.1	63.8		
3						86.6	74.8	66.6	61.5	56.2	57.9	58.8	65.1	67.2	70.4	71.8	69.6	74.2	73.6	66.0	59.1			
4					88.4	77.8	65.7	56.3	54.1	50.3	52.0	53.6	60.1	61.3	66.0	67.2	66.2	69.6	62.7	54.1				
5				89.4	79.1	68.8	56.5	49.5	49.1	45.1	47.7	49.8	55.6	57.6	62.4	63.3	62.4	61.0	52.9					
6			90.4	81.4	71.1	58.9	50.5	44.9	45.0	41.1	44.0	46.4	52.0	54.7	59.7	60.0	55.4	51.9						
7		91.3	82.7	73.4	61.4	53.6	46.8	41.7	41.7	37.8	40.7	43.6	49.0	52.5	57.1	54.1	47.3							
8	90.0	83.9	75.4	64.5	55.1	49.5	43.1	38.6	38.8	35.2	38.2	41.3	47.1	50.1	52.2	47.4								
9	82.0	76.1	66.8	57.9	50.9	45.8	40.1	35.9	36.4	33.0	36.1	39.9	45.2	45.2	45.5									
10	74.0	67.2	61.0	54.1	47.3	42.8	37.1	33.5	34.9	31.2	34.7	37.9	41.1	39.9										
11	65.5	61.6	57.2	50.5	44.6	40.2	34.7	31.9	32.9	29.9	33.1	34.6	36.0											
12	60.2	57.7	54.4	47.5	42.0	37.6	33.0	30.0	31.6	28.5	30.4	30.9												
13	56.3	54.3	51.9	44.9	39.7	35.9	30.9	29.0	30.3	26.4	26.9													
14	53.1	51.4	49.5	43.0	37.8	33.9	29.7	27.8	28.2	23.7														
15	51.1	49.0	47.5	40.9	35.2	32.6	28.6	25.9	25.7															
16	48.9	46.8	45.7	37.1	34.0	31.5	26.6	23.4																
17	46.5	44.7	42.6	36.1	32.7	29.1	24.2																	
18	44.9	43.2	41.4	35.0	30.5	26.3																		
19	43.3	41.9	40.3	32.9	27.7																			
20	42.1	40.6	37.4	29.8																				
21	41.0	37.6	33.8																					
22	37.8	34.1																						
23	33.5																							
Empi	rical st	atistics																						
K1	0.58	0.57	0.55	0.52	0.48	0.45	0.40	0.37	0.36	0.35	0.37	0.37	0.42	0.45	0.49	0.52	0.54	0.59	0.64	0.67	0.74	0.78	0.82	-
K2	14.0	13.1	12.1	10.9	9.6	8.5	7.2	6.2	5.7	5.2	5.1	4.8	5.1	5.0	4.9	4.7	4.3	4.1	3.8	3.4	2.9	2.3	1.6	-
кЗ	7.5																							

Table 4
 Survival rates of Russian companies in the North-West Federal District in 1991–2014.

Note: K1 - resistance coefficient of the companies established in year T; K2 - average life length of the companies established in year T; K3 - average life length of companies in 1991–2014.

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Γ+	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
0									95.9	95.3	92.3	90.5	91.5	92.9	92.2	94.1	94.0	93.4	96.5	96.5	96.7	95.6	88.4	82.9
1								91.3	87.5	85.1	76.6	77.0	81.2	84.3	82.4	88.3	86.0	87.3	90.7	91.7	90.4	80.2	68.8	
2							89.4	82.3	78.1	71.8	65.0	67.9	73.2	76.0	76.1	82.4	81.1	82.1	85.5	85.2	75.7	62.8		
3						91.1	81.3	73.3	65.9	62.0	58.2	60.8	66.6	69.6	70.3	78.5	75.9	79.0	80.6	72.4	58.3			
4					91.9	82.7	71.4	62.8	58.0	54.5	53.2	55.7	62.4	65.0	66.3	72.5	72.6	75.6	69.1	58.5				
5				91.9	83.6	73.7	59.7	55.5	53.0	49.3	49.0	52.4	58.3	61.3	62.7	68.7	68.7	65.2	55.4					
6			93.3	85.4	73.6	63.4	52.3	50.7	48.9	45.2	45.5	49.0	55.6	57.4	60.4	64.8	60.4	53.8						
7		93.6	86.3	77.4	62.7	56.4	48.7	46.0	45.4	41.7	43.4	46.0	52.9	55.7	58.0	56.6	50.2							
8	92.1	87.5	78.8	68.0	55.7	51.2	44.1	43.0	42.5	39.4	41.4	43.7	51.5	53.9	51.3	45.7								
9	85.8	78.9	68.7	60.9	51.5	46.0	40.3	40.0	40.5	37.6	39.0	41.8	49.5	48.4	43.0									
10	77.9	67.5	61.7	56.6	46.5	42.0	37.8	37.9	39.0	35.9	37.9	39.5	45.4	41.1										
11	66.3	60.7	56.7	52.7	42.8	39.2	35.5	36.1	36.8	34.3	36.5	35.6	38.2											
12	59.0	55.5	51.3	48.5	40.0	37.1	33.6	34.4	35.7	32.9	33.1	29.7												
13	53.8	49.5	47.0	45.7	37.5	35.7	31.8	32.8	34.6	30.1	28.3													
14	48.1	45.7	44.1	42.7	35.5	34.2	30.5	31.6	31.9	25.6														
15	44.8	42.2	41.7	40.9	33.8	32.8	29.5 27.1	28.5	27.1															
16 17	42.4	38.8 36.9	40.2	39.4 37.4	32.6 30.8	32.2 29.8	27.1	25.5																
17 18	40.5 39.1	34.8	38.4 36.4	36.0	28.4	29.8 26.2	25.7																	
18	37.0	33.4	35.3	32.7	20.4 24.6	20.2																		
20	35.8	32.3	32.5	28.5	24.0																			
21	34.6	29.7	28.3	20.5																				
22	31.5	26.1	20.5																					
23	27.2	20.1																						
Emp	irical st	atistics																						
K1	0.59	0.58	0.56	0.54	0.50	0.46	0.43	0.40	0.39	0.39	0.37	0.41	0.44	0.48	0.51	0.60	0.60	0.64	0.71	0.74	0.78	0.78	0.81	-
K2	14.2	13.4	12.4	11.4	10.0	8.8	7.7	6.9	6.3	5.8	5.2	5.3	5.3	5.3	5.1	5.4	4.8	4.5	4.3	3.7	3.1	2.3	1.6	-
кз	8.9																							

Table 5 Survival rate of Russian companies in the North Caucasus Federal District in 1991–2014, %.

Note: K1 - resistance coefficient of the companies established in year T; K2 - average life length of the companies established in year T; K3 - average life length of companies in 1991-2014.

T+	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
0									91.1	90.2	89.6	84.8	85.9	88.4	90.2	91.4	89.2	89.6	92.8	90.7	93.9	93.7	89.6	85.2
1								84.6	76.1	74.8	69.4	66.8	71.6	74.2	78.7	80.2	76.2	78.5	79.5	80.6	83.2	77.2	69.7	
2							83.8	70.5	63.1	57.6	55.7	55.6	60.4	64.4	68.0	71.1	66.6	68.3	70.5	70.8	66.4	58.7		
3						85.5	70.3	59.4	50.4	47.0	47.1	47.9	54.0	56.1	60.3	64.2	59.2	62.2	63.4	58.5	51.9			
4					87.4	74.3	59.2	48.2	42.8	40.2	41.0	42.6	48.9	50.2	54.8	58.3	54.8	57.1	53.7	47.2				
5				89.6	76.3	64.4	48.3	41.1	38.3	34.7	36.5	38.4	44.3	46.0	50.3	53.5	50.5	49.2	44.2					
6			91.5	79.8	66.3	53.0	41.4	36.6	34.4	31.4	33.0	34.9	41.1	42.6	47.4	49.7	44.2	41.2						
7		92.0	83.6	70.3	54.8	45.8	37.2	32.7	31.5	28.2	30.3	32.1	38.2	40.3	44.5	44.3	37.4							
8	91.1	84.4	74.5	57.8	48.0	41.3	33.5	30.1	29.2	25.9	27.9	29.7	36.0	38.2	40.0	37.7								
9	83.4	75.9	62.9	50.2	43.3	37.6	31.2	27.9	27.2	24.1	26.1	28.4	34.1	34.7	34.7									
10	75.7	63.3	54.5	45.5	39.5	35.1	29.0	26.2	25.6	22.5	24.7	27.0	30.8	30.6										
11	65.3	55.7	48.9	41.0	36.7	32.9	27.3	24.7	24.1	21.5	23.6	24.7	27.4											
12	58.5	50.4	44.2	38.0	34.3	30.9	25.7	23.4	23.0	20.4	21.3	22.1												
13	54.3	46.0	41.2	35.6	32.3	29.2	24.1	22.4	22.1	18.6	19.1													
14	50.6	42.9	38.7	33.3	30.2	27.5	23.2	21.5	20.4	16.4														
15	48.6	40.2	36.3	31.3	28.7	26.5	22.1	19.9	18.0															
16	46.1	37.6	34.5	29.0	27.6	25.4	20.3	18.1																
17	44.0	35.7	32.3	27.7	26.7	23.8	18.6																	
18	42.0	34.0	30.7	26.4	24.7	21.9																		
19	40.2	32.6	29.4	24.5	21.9																			
20	38.9	31.3	27.2	22.1																				
21	37.2	29.1	24.7																					
22	33.0	26.5																						
23	28.6																							
Empi	rical st	atistics																						
K1	0.60	0.56	0.54	0.50	0.46	0.42	0.37	0.33	0.31	0.31	0.32	0.32	0.36	0.39	0.44	0.49	0.48	0.53	0.58	0.62	0.71	0.77	0.83	-
K2	14.3	12.8	11.8	10.5	9.2	7.9	6.7	5.6	5.0	4.7	4.4	4.2	4.4	4.3	4.4	4.4	3.9	3.7	3.5	3.1	2.8	2.3	1.7	-
КЗ	6.7																							

Note: K1 - resistance coefficient of the companies established in year T; K2 - average life length of the companies established in year T; K3 - average life length of companies in 1991-2014.

Table 6

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T+	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
0									94.9	89.3	92.7	88.5	89.7	90.5	90.9	91.9	91.5	92.6	94.7	92.7	95.2	93.7	88.5	85.1
1								87.5	79.8	76.8	75.9	73.8	76.8	77.3	79.6	81.8	80.9	82.7	84.4	86.0	83.7	77.5	68.6	
2							86.5	73.5	68.8	62.7	63.2	63.1	66.6	66.9	70.7	73.5	72.0	72.6	76.8	75.6	67.6	59.4		
3						88.1	72.7	63.4	57.0	53.4	55.0	54.3	59.2	59.6	63.6	66.8	63.5	66.8	68.8	62.0	53.4			
4					88.7	75.5	63.0	53.7	50.0	46.8	47.8	48.0	53.5	53.9	58.3	61.3	59.3	61.3	59.3	50.0				
5				89.8	76.9	66.0	53.8	47.3	44.3	41.7	42.9	43.2	48.7	49.3	54.3	57.1	54.9	53.5	49.4					
6			91.0	79.8	67.5	56.6	48.2	42.2	40.4	37.4	38.7	39.3	45.4	46.2	51.1	53.2	48.7	45.1						
7		91.8	81.2	70.5	57.1	50.5	43.8	38.4	37.2	34.2	35.6	36.5	42.4	44.0	48.0	47.9	41.5							
8	89.8	83.2	72.6	60.6	51.4	46.6	40.1	35.6	34.3	31.4	33.2	34.3	40.5	41.9	43.8	41.2								
9	80.4	75.0	63.6	54.3	47.1	42.8	37.1	33.0	32.0	29.7	31.3	32.8	38.7	38.6	38.5									
10	73.1	65.1	57.4	50.2	43.9	39.8	34.9	30.9	30.6	27.6	30.0	31.2	35.6	33.4										
11	63.7	59.2	53.2	46.3	41.1	37.5	32.9	29.4	29.1	26.4	28.4	28.6	31.3											
12	58.0	54.4	49.0	43.2	38.0	35.2	31.0	27.8	28.1	25.3	26.1	25.3												
13	54.5	50.2	45.9	39.9	36.0	33.5	29.3	26.4	27.0	23.5	23.1													
14	50.4	46.7	43.3	37.9	34.4	32.0	28.2	25.3	25.2	20.6														
15	48.0	43.8	41.2	35.7	32.7	30.6	27.2	23.7	22.7															
16	45.5	41.3	39.5	33.5	31.2	29.7	25.5	21.1																
17	43.3	39.5	37.5	32.3	30.2	27.5	23.1																	
18	41.0	37.5	36.2	31.0	28.2	25.0																		
19	39.3	36.0	34.9	29.0	26.0																			
20 21	37.8 36.7	34.5 32.3	32.7 29.6	25.8																				
22	34.1	52.5 29.4	29.0																					
22	30.8	29.4																						
23	50.8																							
Emp	irical st	atistics																						
K1	0.58	0.56	0.53	0.51	0.46	0.43	0.39	0.36	0.34	0.33	0.35	0.35	0.39	0.41	0.45	0.50	0.51	0.56	0.62	0.66	0.71	0.76	0.82	-
K2	13.8	12.9	11.8	10.7	9.2	8.2	7.0	6.1	5.4	5.0	4.9	4.6	4.7	4.5	4.5	4.5	4.1	3.9	3.7	3.3	2.9	2.3	1.6	-
КЗ	7.5																							

Table 7 Survival rate of Russian companies in the Urals Federal District in 1991–2014, %

Note: K1 - resistance coefficient of the companies established in year T; K2 - average life length of the companies established in year T; K3 - average life length of companies in 1991-2014.

T+	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	20
0						47			95.1	94.0	93.6	90.9	92.2	93.4	94.5	91.6	92.8	93.2	93.6	93.3	94.6	94.2	89.8	85.
1								90.1	85.7	82.4	80.0	78.5	83.2	84.3	82.7	82.8	82.3	83.7	83.1	84.6	84.2	77.4	70.9	
2							88.0	81.0	74.7	68.7	68.0	67.9	73.6	76.6	73.1	74.9	74.0	74.7	75.1	74.5	68.1	59.7		
3						89.8	78.8	71.1	63.3	58.2	59.1	58.9	67.0	67.7	65.2	68.7	66.9	68.9	68.3	62.4	54.0			
4					90.3	81.5	69.1	61.1	55.3	51.2	51.9	52.7	61.0	61.1	59.9	63.7	62.4	63.8	59.2	51.4				
5				91.4	81.6	71.8	58.9	53.5	49.5	46.0	47.0	47.8	55.4	56.6	55.4	59.8	58.2	55.9	49.7					
6			93.0	83.7	72.7	62.2	52.4	48.6	45.1	41.6	42.6	43.6	51.8	52.7	52.7	56.3	51.5	47.6						
7		94.2	86.4	75.5	62.6	55.5	47.8	44.7	41.3	37.6	38.9	40.6	48.5	50.3	50.1	50.8	44.3							
8	92.9	88.6	78.5	65.4	56.2	50.8	43.7	41.4	37.9	34.6	36.1	37.8	46.2	47.8	45.1	44.3								
9	87.0	81.5	68.8	58.8	51.1	46.9	40.4	38.4	35.1	32.2	33.8	36.0	44.3	43.2	39.5									
10	80.3	71.8	62.3	53.8	47.2	43.5	37.4	36.0	33.1	30.2	32.2	34.2	40.4	37.9										
11	71.3	64.8	57.3	49.5	44.1	40.7	34.9	34.0	31.1	28.9	30.5	31.1	35.8											
12	65.7	59.4	52.8	46.4	41.3	38.4	32.8	32.2	29.9	27.4	27.9	27.5												
13	62.0	54.1	49.5	43.4	38.7	36.2	30.9	30.9	28.6	25.2	24.6													
14	58.4	50.4	46.7	41.1	36.6	34.4	29.9	29.7	26.6	22.4														
15	55.4	47.3	44.2	38.8	34.6	32.9	28.7	27.6	24.0															
16	53.0	44.9	42.3	37.1	33.3	31.7	26.6	24.6																
17	50.5	43.0	40.2	35.5	32.1	28.9	23.7																	
18	48.5	41.0	38.7	34.3	29.8	26.0																		
19	46.5	39.5	37.3	32.0	26.8																			
20	44.7	38.1	34.8	29.3																				
21	43.0	35.4	31.8																					
22	39.4	32.3																						
23	34.9																							
Empi	rical st	atistics																						
K1	0.62	0.59	0.56	0.52	0.49	0.46	0.42	0.39	0.37	0.36	0.38	0.38	0.43	0.46	0.47	0.50	0.52	0.56	0.60	0.65	0.71	0.77	0.82	-
K2	14.8	13.5	12.2	10.9	9.8	8.8	7.5	6.7	5.9	5.4	5.3	5.0	5.2	5.1	4.7	4.5	4.2	3.9	3.6	3.2	2.8	2.3	1.6	_
к3	7.4																							

Note: K1 - resistance coefficient of the companies established in year T; K2 - average life length of the companies established in year T; K3 - average life length of companies in 1991–2014.

Table 8

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T +	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
0									94.6	92.9	93.4	90.2	90.4	92.1	92.1	94.0	91.8	92.0	94.9	93.2	95.1	94.0	89.9	90.6
1								91.6	83.4	81.0	80.0	76.4	80.1	80.5	83.2	84.6	81.5	83.5	84.4	85.4	84.7	77.1	71.9	
2							90.6	80.5	72.8	68.5	68.8	66.5	70.3	72.1	74.0	77.3	74.2	74.5	76.6	76.3	68.9	61.0		
3						91.5	80.3	70.9	62.3	59.1	60.2	58.6	64.0	64.7	67.3	71.8	68.1	69.5	69.9	64.0	55.7			
4					91.8	82.7	71.5	61.7	54.5	52.6	53.1	53.5	58.5	59.1	62.9	66.3	63.5	64.6	60.5	52.5				
5				92.0	83.1	74.8	63.2	54.8	49.4	47.4	48.8	48.9	53.9	55.4	59.2	61.7	59.2	55.6	49.5					
6			93.2	84.0	74.6	66.7	56.3	49.6	44.8	43.9	45.2	44.7	50.7	52.4	56.2	58.2	52.2	47.2						
7		94.0	85.9	77.2	66.0	60.3	51.8	45.3	41.8	40.2	42.1	41.6	47.8	50.0	53.3	52.1	44.7							
8	93.5	88.2	78.6	69.2	59.8	56.1	48.5	42.2	38.5	37.9	39.8	39.4	45.8	47.5	48.3	44.9								
9	86.3	81.6	70.2	63.4	56.1	51.7	45.6	39.7	36.3	36.0	37.9	37.8	43.8	42.8	42.7									
10	79.1	73.1	63.6	58.9	52.4	48.5	43.0	37.4	35.0	34.5	36.4	36.2	40.4	38.0										
11	70.5	65.4	59.1	54.3	49.6	46.0	40.7	35.3	33.5	33.2	34.7	33.4	36.2											
12	64.2	60.8	54.1	50.9	47.1	43.6	39.1	33.7	32.1	32.0	32.1	29.9												
13	60.2	56.1	50.6	47.9	44.6	42.0	37.8	32.6	30.9	30.1	28.0													
14	55.9	52.6	47.6	45.0	42.7	40.6	36.8	31.4	29.0	27.0														
15	53.1	49.7	44.9	43.2	41.1	39.6	35.4	29.4 27.0	26.2															
16 17	50.1 47.6	46.8 44.8	42.9 40.8	41.1 39.4	39.7 38.7	38.5 36.8	33.3 30.0	27.0																
17 18	47.0 45.4	44.8 42.9	40.8 38.9	37.8	36.3	34.2	50.0																	
18 19	43.4	42.9	37.4	35.3	33.3	54.2																		
20	41.4	38.9	34.9	32.5	55.5																			
21	39.3	36.0	31.7	52.5																				
22	36.7	33.0	5.17												· .									
23	33.1	5510																						
Emp	irical st	atistics																						
K1	0.61	0.59	0.56	0.53	0.49	0.46	0.42	0.38	0.36	0.35	0.38	0.37	0.41	0.44	0.47	0.53	0.53	0.57	0.62	0.66	0.71	0.75	0.82	-
K2	14.5	13.6	12.4	11.2	9.9	8.7	7.6	6.5	5.7	5.3	5.3	4.8	4.9	4.8	4.7	4.8	4.2	4.0	3.7	3.3	2.8	2.3	1.6	-
КЗ	8,1																							

Table 9 Survival rate of Russian companies in the Southern Federal District in 1991 - 2014, %

Note: K1 - resistance coefficient of the companies established in year T; K2 - average life length of the companies established in year T; K3 - average life length of companies in 1991-2014.

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E.A. Kuzmin / Data in Brief (

high transaction costs. The environment viscosity faced by companies creates a unique set of dynamic
capabilities. The organizational immunity being formed must ultimately be determinative for a length
of the corporate life cycle. These particular arguments were a basis for the survey to test a number of
hypotheses concerning an importance of the external environment to find a horizon for the corporate
survival rate. At the same time, this does not limit the heuristic potential and applications of the
figures in business demography, an analysis of life cycles, entrepreneurial activity and viscosity of the
economic environment.

The performed empirical experiment for Russia intended to fill the fact-based gap in fundamental 603 survey within the insufficient statistical framework. On the one hand, the Federal State Statistics 604 Service of the Russian Federation [6] gives a narrow set of indicators relating to demography of small 605 and medium-sized businesses and such indicators are not clearly representative for an idea of an 606 average age of companies. On the other hand, similar empirical studies with a small sample and 607 608 published at different times give non-harmonized values (for example, the average age of companies 609 in Russia was 19.2 years in 2006 as reported by Shirokova [4], in 10 years, in 2016, it was 7.8 years [2]. 610 Others, e.g. Shamray, report that in 2010, the average age of companies was 7.1 years [7]). In case with 611 small set companies included in the survey, sampling generates a high limiting computational error, 612 **Q3** which does allow extrapolating the identified regularities to the full suite of Russian companies 613 (Table 1). 614

2. Data

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619 The processed data include the aggregated information on the Russian companies, established and 620 operated in 1991–2015, the survey also optionally covered the 1987–1990 period. The figures were 621 grouped into three categories: 1) general data without their features considered; 2) data by type of 622 economic activity (according to OKVED v.2 - Russian Standard Industrial Classification of Economic 623 Activities both for 'old' and 'new' companies with the applied pattern for a transition between OKVED 624 versions); 3) data in the context of companies' distribution by regions of the country. Main compu-625 tational parameters within the empirical survey include the information on a number of newly 626 627 established companies; a natural loss of newly established companies (cumulatively and annually); a 628 specific corporate survival rate; an adjusted and unadjusted life length. There is a further estimation 629 of the annual companies' resistance (with the value as an indicator of the specific actual life length 630 against the longest possible life length of a company for a given period), as well as the average life 631 length of companies by year of their establishment and in whole throughout the sample for the whole 632 time of observations. Brief primary figures [3] were provisional and did not cover the regional dis-633 tribution by federal district (Tables 2–9), actor, and activity (data are available on demand) (Fig. 1). 634

The paper presents the data on the overall survival rate of Russian companies in 1991–2014 635 (Table 1) upon filtering by the adjusted length of the life cycle (2015 is recognised as a final year for 636 the verification). Figure one shows the corporate survival rate in T+2 period (T reporting year when 637 the company was incorporated, +2 years upon the incorporation) for a comparative analysis based on 638 Eurostat statistics (Business Demography [1]) or other sources. The literature review shows that this 639 very period (|2|) is the most popular, but in different models they use either T-2 format or T+2 format 640 641 that complicate the comparison. The empirical data, owing to a wide coverage, have made it possible 642 to obtain calculated values up to T+23 in the main sample and up to T+27 including the optional 643 sample.

The paper does not include the author's subjective opinion and analytical conclusions regarding
 the presented values. This allows other researchers to interpret the data independently.

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E.A. Kuzmin / Data in Brief ■ (■■■) ■■■-■■■



3. Experimental design, materials and methods

3.1. Study area

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676 The empirical study was focused on gathering the primary data on companies regardless of their 677 revenue and staff numbers and based on the random sampling principle with the achieved target 678 coverage level of up to 10,000 organizations per region per survey year with repetitions. If there were 679 less than 10,000 companies, then all the available data were accepted. For a general totality and 680 overall sample, only those companies were considered that were present on the StatRegister as of a 681 year of their incorporation (based on data provided by the Federal State Statistics Service of the 682 Russian Federation). SPARK-Interfax online media was a source of the initial information on regis-683 tration data of companies and their financial statements [5]. 684

The sample was made without taking into account the attribute of the "operating" company. As of 685 the day when the data were summarized and annual consolidated registers were made, repetitions 686 687 were impossible. The scope of the empirical survey made it possible to include objects of various 688 organizational and legal forms, market and service-oriented: a) legal entities that are profit-making 689 corporations (in a wide sense); b) legal entities that are non-profit-making corporations (in a narrow 690 sense); c) unincorporated organizations (in a narrow sense); d) international organizations that 691 operate in Russia (in a narrow sense); e) legal entities that are commercial unitary organizations (in a 692 narrow sense); f) legal entities that are non-commercial unitary organizations (in a narrow sense). 693

The sample did not include organizational and legal forms of individuals (entrepreneurs) except 694 for a few earlier evaluation periods, but truncated. To achieve the consistency of the database, the 695 regional structure of objects was captured in the survey in the format available prior to changes that 696 had entered into force in 2014. 697

The data have covered almost all the types of market-oriented economic activities according to the classifier, excluding "Activities of extraterritorial organizations and bodies", as well as "Undifferentiated activities of particular households that produce goods and services for own consumption".

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E.A. Kuzmin / Data in Brief ■ (■■■) ■■■-■■■

703 3.2. Sample

To assess the sample quality, the limiting error was calculated for a proportion without repeated observations for 2002–2015 with various accuracy of figures (90–99%) (Table 10). In all of the cases, the actual error was not over 3% with the average value of Δp in 2.24% accurate within 99%. The total sample size per year was 54,229–126,953 companies. In total, in 1991–2015, the sample size was 24,236–126,953 with 75,958 as an average number of companies per sample per year. The low limiting error indicates that the sample and the performed empirical survey are representative.

711 The data for each year were treated as an independent set of information (without repetitions) for 712 a top-down assessment of the corporate survival rate. The horizontal analysis between years does not 713 eliminate repeated data, so all the information is kept, providing the continuity in the review.

715 3.3. Empirical models

717 The author's approach, which allows adjusting the company's life length to limits of a *conditionally* 718 active time period, during which organizations show signs of doing business, is a distinctive feature of 719 an empirical survey. It is worth mentioning that the cases are not rare when companies nominally 720 exist without any transactions and this distorts a true picture using which it is possible to assess the 721 overall survival rate of companies and their life length. The essence of the approach lies in a cross-join 722 of two periods: 1) period of the legal life of the company from its incorporation to liquidation time; 2) 723 period of business activities, which, within the framework of the survey, is assessed on the basis of 724 financial statements provided by companies. To find the length, the priority is to have a year of 725 incorporation as a left (start) point and a year of the company's last financial report as a right (end) 726 point within the range. Such a combination needs to be checked for possible clerical mistakes (for 727 instance, when a beginning year is later than an end-year - such mistakes were found for the com-728 panies, incorporation years of which were incorrectly specified on the information system). The 1987/ 729 1991–1998 sample resulted from the assumption because companies' financial statements had been 730 only available since 1999.

The assumption implies that the companies established in 1987–1998 continued their activities if there was an evidence that in 1999 and later they had transactions. This assumption also creates a blank space in an assessment of the corporate survival rate before 1999 but does not hamper a comprehensive analysis for the period of T+1 and longer with a time lag. The retrospective combination makes it possible to expand significantly the survey horizon up to 17 years.

Table 10

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738 Quality of sample for 2002–2015.

Year	Sample size	Feature	Actual limitir	ng error (Δp),%	
	(companies)	share	P=90%	P=95%	P=99%
2002	82,391	0.5	1.065	1.269	1.668
2003	78,074	0.5	1.757	2.094	2.752
2004	76,621	0.5	1.780	2.121	2.787
2005	91,921	0.5	1.791	2.134	2.804
2006	126,953	0.5	1.575	1.877	2.467
2007	102,274	0.5	1.689	2.012	2.644
2008	97,708	0.5	1.758	2.094	2.752
2009	83,703	0.5	1.536	1.831	2.406
2010	93,314	0.5	1.441	1.718	2.257
2011	98,786	0.5	1.088	1.296	1.704
2012	94,784	0.5	0.869	1.036	1.362
2013	88,881	0.5	1.071	1.276	1.678
2014	81,679	0.5	1.027	1.224	1.609
2015	54,229	0.5	1.616	1.925	2.530
Mean lim	it error (Δp)		1.43	1.71	2.24

756 Note: P – consistency/accuracy, Δp – limiting error.

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E.A. Kuzmin / Data in Brief ■ (■■■) ■■■-■■■

757 3.4. Implications of study

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The data obtained compensate for the paucity of the official statistics for the corporate survival 759 760 rate in Russia. They are an important tool for implementing cross-country comparisons and analyzing 761 the "the strength" of the economic system. The data serve as a benchmark to measure a degree of the 762 market development and competitiveness among companies. The assessment of the current business conditions in the corporate survival rate exhibits the policy favouring business initiatives and 763 entrepreneurship. At the same time, analysing dynamics can be of use in indicating the periods of 764 economic downturn and stagnation, structural changes, regional differentiation, as well as complexity 765 766 and uncertainty of the environment. Measuring the resistance rate of companies' dynamic capabilities 767 and duration of the memory effect of organizational behaviour under external negative and positive 768 conditions is one of the promising areas for application of these data. The research expands the 769 dataset for economic statistics and analysis, as well as implements the approach of alternative ver-770 ification and refinement of the findings of other studies in the field of survival rate and lifecycle of 771 companies in Russia.

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782 Transparency document. Supporting information

784 Q4 Transparency data associated with this article can be found in the online version at https://doi.org/
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