

# Appendix A

## Russian Elderly Wellbeing Index (REWI) indicators description

Table 1: REWI indicators description.

Indicator label	Source	No. in Questionnaire	Question asked	Answer options	Variable description
1.1. The real size of pensions, %	Calculation of the Federal State Statistics Service of Russia (FSSS). URL: <a href="https://fedstat.ru/indicator/31423">https://fedstat.ru/indicator/31423</a>				It is determined by dividing the nominal pension index by the consumer price index for the relevant time period.
1.2. The ratio of the average size of pensions to the subsistence minimum, %	FSSS calculations. URL: <a href="https://fedstat.ru/indicator/31437">https://fedstat.ru/indicator/31437</a>				It is determined by dividing the average size of the assigned pensions as of January 1 of the year following the reporting year by the subsistence minimum for the fourth quarter of the reporting year.
1.3. The employment rate above the working age, %	Selective Employment Survey. URL: <a href="http://www.gks.ru/wps/wcm/connect/rosstat_main/rosstat/ru/statistics/population/generation">http://www.gks.ru/wps/wcm/connect/rosstat_main/rosstat/ru/statistics/population/generation</a>				The ratio of the number of unemployed of a certain age group to the number of labor force of the corresponding age group, calculated as a percentage.

1.4. Any paid work (natural or money form) or any employment over the past week, %	Comprehensive monitoring of living conditions. Individual questionnaire for persons aged 15 years or over. URL: <a href="http://www.gks.ru/free_doc/new_site/kouz/survey0/index.html">http://www.gks.ru/free_doc/new_site/kouz/survey0/index.html</a>	Section 5. Employment and working conditions. Question 1.	Did you do any paid or in-kind work last week, or did you have a profitable occupation, including a different kind of side job (at least one hour during the week)?	Yes 1; No - 2	The ratio of the number of respondents who answered "Yes" to the total number of respondents.
1.5. Satisfaction with the job, %	Comprehensive monitoring of living conditions. Individual questionnaire for persons aged 15 years or over. URL: <a href="http://www.gks.ru/free_doc/new_site/kouz/survey0/index.html">http://www.gks.ru/free_doc/new_site/kouz/survey0/index.html</a>	Section 5. Employment and working conditions. Question 20.	Please indicate the degree of satisfaction with your main work in each of such aspects as ...	<ol style="list-style-type: none"> <li>1. Earnings</li> <li>2. Reliability</li> <li>3. Responsibilities you perform</li> <li>4. Mode of operation</li> <li>5. Working conditions</li> <li>6. Distance to work (the time you have to spend to get to work)</li> <li>7. Professional satisfaction (able to apply their ideas at work, opportunities for professional growth)</li> <li>8. Moral satisfaction (feeling that you are doing "useful" work)</li> </ol>	First, the share of answers "Fully satisfied" of the total number of respondents for each question is calculated, then the arithmetic average of all eight values obtained is taken.

2.1. The educational level of pensioners, %	Comprehensive monitoring of living conditions. Individual questionnaire for persons aged 15 years or over. URL: <a href="http://www.gks.ru/free_doc/new_site/kouz/survey0/index.html">http://www.gks.ru/free_doc/new_site/kouz/survey0/index.html</a>	Section 7. Education and training. Question 1.	What education do you have?	1. Personnel of the highest qualification: 1.1. Postgraduate; 1.2. Doctoral; 1.3. Residency; 1.4. Adjuncture; 2. Higher education: 2.1. Specialist programme; 2.2. Master degree; 2.3. Bachelor degree; 3. Incomplete higher education (completed 3 courses or more); 4. Secondary vocational education; 5. Secondary general education; 6. Basic general education; 7. Do not have a basic education.	The sum of the options "Undergraduate, Master" and "Undergraduate" was used, i.e. share of people with higher education in the total number of respondents
2.2. Help from children living separately, %	Comprehensive monitoring of living conditions. Individual questionnaire for persons aged 15 years or over. URL: <a href="http://www.gks.ru/free_doc/new_site/kouz/survey0/index.html">http://www.gks.ru/free_doc/new_site/kouz/survey0/index.html</a>	Section 1. Marital status. Question 7.	Do your children who live alone help you?	1. Provide financial assistance; 2. Help with the housework; 3. Buy products and other things; 4. Caring during illness; 5. Provide other	The share of answers "Yes" on five questions from the total number of respondents.

				assistance.	
2.3. Use of the Internet, %	Selective federal statistical observation on the use of information technology by the population and information and telecommunication networks-2016 (ICT-2016). URL: <a href="http://www.gks.ru/free_doc/new_site/business/it/fed_nabl-croc/index.HTML">http://www.gks.ru/free_doc/new_site/business/it/fed_nabl-croc/index.HTML</a>				The distribution of the population, which is the active users of the Internet, in age group 55-72 years.
2.4. Membership in voluntary organizations, %	Comprehensive monitoring of living conditions. Individual questionnaire for persons aged 15 years or over. URL: <a href="http://www.gks.ru/free_doc/new_site/kouz/survey0/index.html">http://www.gks.ru/free_doc/new_site/kouz/survey0/index.html</a>	Section 9. Recreation and free time. Question 4.	Are you a member of any trade union, public, voluntary or charitable organizations (movements)?	1. Yes; 2. No; 3. Difficult to answer.	The share of answers "Yes" from the total number of respondents.
2.5. Engagement in recreational, entertaining and leisure activities, %	Comprehensive monitoring of living conditions. Individual questionnaire for persons aged 15 years or over. URL: <a href="http://www.gks.ru/free_doc/new_site/kouz/survey0/index.html">http://www.gks.ru/free_doc/new_site/kouz/survey0/index.html</a>	Section 9. Recreation and free time. Question 3.	Have you been and how often in the last 12 months: - to the cinema - in the theatre - at the concert - at an art exhibition in a museum - in a restaurant, cafe, bar - in a religious institution or at a meeting of believers - at any sporting event as a spectator	1. Yes; 2. No.	The share of answers "Yes" on seven questions from the total number of respondents.

3.1. Life expectancy in old age, years	The official site of FSSS, the older generation, demographic indicators, life expectancy. URL: <a href="http://www.gks.ru/wps/wcm/connect/rosstat_main/rosstat/ru/statistics/population/generation">http://www.gks.ru/wps/wcm/connect/rosstat_main/rosstat/ru/statistics/population/generation</a>				The number of years that on average this generation will have to live with (peers of a certain age), provided that during the whole subsequent life in each age group the death rate will be the same as that of the population of that age during the compilation of the mortality table.
3.2. Opportunity to be engaged in sports activities or physical exercises, %	Comprehensive monitoring of living conditions. Individual questionnaire for persons aged 15 years or over. URL: <a href="http://www.gks.ru/free_doc/new_site/kouz/survey0/index.html">http://www.gks.ru/free_doc/new_site/kouz/survey0/index.html</a>	Section 9. Recreation and free time. Question 6.	Can you lead an active life along with everyone else?	1. Yes I can; 2. No, I can not, does not allow health, age; 3. I have no interest or desire; 4. Difficult to answer.	Share of answers "Yes, I can" from the total number of respondents
3.3. Self-assessed health, %	Comprehensive monitoring of living conditions. Individual questionnaire for persons aged 15 years or over. URL: <a href="http://www.gks.ru/free_doc/new_site/kouz/survey0/index.html">http://www.gks.ru/free_doc/new_site/kouz/survey0/index.html</a>	Section 10. Health and medical care. Question 1.	How do you assess your health? It is ...	1. Very good; 2. Good; 3. Satisfactory; 4. Bad; 5. Very bad; 6. Difficult to answer; 7. Refusal to answer.	Cumulative share of "very good", "good" and "satisfactory" answers from the total number of respondents.
3.4. Self-reported absence of chronic	Comprehensive monitoring of living conditions. Individual questionnaire for persons aged 15 years or over. URL: <a href="http://www.gks.ru/free_doc/new_site/kouz/survey0/index.html">http://www.gks.ru/free_doc/new_site/kouz/survey0/index.html</a>	Section 10. Health and medical care. Question 2.	Do you have any chronic illness prescribed by a doctor?	1. Yes; 2. No; 3. Difficult to answer.	The share of answers "No" from the total number of respondents.

diseases, %	ey0/index.html				
3.5. Self-reported absence of bad habits (smoking and drinking abuse), %	Comprehensive monitoring of living conditions. Individual questionnaire for persons aged 15 years or over. URL: <a href="http://www.gks.ru/free_doc/new_site/kouz/survey0/index.html">http://www.gks.ru/free_doc/new_site/kouz/survey0/index.html</a>	Section 10. Health and medical care. Question 39 and Question 41.	Q1: Do you smoke? Q2: Do you consume alcoholic beverages?	Q1: 1. I do not smoke; 2. I smoked, but quit; 3. I smoke occasionally; 4. I smoke daily. Q2: 1. Yes; 2. No; 3. Refusal to answer.	First, the cumulative share of answers “I do not smoke” and “I smoked, but quit” is calculated from the total number of respondents on question 39. Values are normalized by the minmax method. Then, the share of answers "No" from the total number of respondents on question 41 is calculated. Values are normalized by the minmax method. The arithmetic average of the normalized values for two questions is taken as the final indicator
4.1. Self-assessed household's living conditions, %	Comprehensive monitoring of living conditions. Questionnaire for households. URL: <a href="http://www.gks.ru/free_doc/new_site/kouz/survey0/index.html">http://www.gks.ru/free_doc/new_site/kouz/survey0/index.html</a>	Section 2. Accommodation. Question 10.	How would you rate the overall condition of your dwelling (walls, ceiling, floor, windows)?	1. Excellent; 2. Good; 3. Satisfactory; 4. The bad; 5. Very bad.	Cumulative share of “very good”, “good” and “satisfactory” answers from the total number of respondents.

<p>4.2. Accessibility of social support institutions, %</p>	<p>Q1: Official website of the FSSS, Older generation, Population size by region of the Russian Federation (at the beginning of the year). URL: <a href="http://www.gks.ru/wps/wcm/connect/rosstat_main/rosstat/ru/statistics/population/generation">http://www.gks.ru/wps/wcm/connect/rosstat_main/rosstat/ru/statistics/population/generation</a>  Q2: Execution of expenditure commitments of the constituent entities of the Russian Federation and municipalities for the implementation of measures of social support by categories of citizens. URL: <a href="http://www.gks.ru/wps/wcm/connect/rosstat_main/rosstat/ru/statistics/population/generation">http://www.gks.ru/wps/wcm/connect/rosstat_main/rosstat/ru/statistics/population/generation</a>.</p>				<p>It is calculated by dividing the number of places in inpatient facilities by the number of citizens over working age.</p>
<p>4.3. Availability of social benefits (government support transfers for senior citizens categories), rubles/person</p>	<p>Q1: Official website of the FSSS, Older generation, Population size by region of the Russian Federation (at the beginning of the year). URL: <a href="http://www.gks.ru/wps/wcm/connect/rosstat_main/rosstat/ru/statistics/population/generation">http://www.gks.ru/wps/wcm/connect/rosstat_main/rosstat/ru/statistics/population/generation</a>.  Q2: Inpatient social service institutions for senior citizens and disabled (adults) by subjects of the Russian Federation 2012-2016. URL: <a href="http://www.gks.ru/free_doc/new_site/population/generation/tab-ur2-6.htm">http://www.gks.ru/free_doc/new_site/population/generation/tab-ur2-6.htm</a></p>				<p>It is calculated by dividing the total amount of expenditures of the consolidated budgets of the constituent entities of the Russian Federation and municipalities into the implementation of measures of social support for certain categories of citizens in all categories of citizens by the number of citizens older than working age.</p>

4.4. Satisfaction with the place of residence, %	Comprehensive monitoring of living conditions. Individual questionnaire for persons aged 15 years or over. URL: <a href="http://www.gks.ru/free_doc/new_site/kouz/survey0/index.html">http://www.gks.ru/free_doc/new_site/kouz/survey0/index.html</a>	Section 2. Opinion on living conditions in the locality. Question 2.	Can you say that you like to live in your locality (in your residence area)?	1. Yes; 2. No; 3. Difficult to answer.	The share of answers "Yes" from the total number of respondents.
4.5. Self-reported absence of problems in the residential area, %	Comprehensive monitoring of living conditions. Individual questionnaire for persons aged 15 years or over. URL: <a href="http://www.gks.ru/free_doc/new_site/kouz/survey0/index.html">http://www.gks.ru/free_doc/new_site/kouz/survey0/index.html</a>	Section 2. Opinion on living conditions in the locality. Question 3.	Are there any problems in your locality (in your residence area) related to the following: 1. High crime rate; The inaccessibility of state and municipal services in the field of ... 2. Medical care; 3. Pre-school and school education; Great remoteness ... 4. Outlets; 5. Pharmacies; 6. Cultural institutions; 7. Recreation and leisure venues; 8. Objects for physical education and sports; Bad organization of work ... 9. Housing and	1. Yes; 2. No; 3. Difficult to answer.	First, the share of negative answers for questions (4), (6), (7), (8), (9), (10), (16) is calculated, then the arithmetic average of all seven obtained values is taken.



			communal services; 10. Public transport; 11. General lack of comfort, lack of gardening; 12. Road conditions, road safety; 13. Vandalism (intentional destruction in public places and homes); 14. Drug distribution; 15. The spread of alcoholism; 16. Pollution of the environment; 17. Other.		
4.6. Self-reported absence of problems in medical services availability, %	Comprehensive monitoring of living conditions. Individual questionnaire for persons aged 15 years or over. URL: <a href="http://www.gks.ru/free_doc/new_site/kouz/survey0/index.html">http://www.gks.ru/free_doc/new_site/kouz/survey0/index.html</a>	Section 2. Opinion on living conditions in the locality. Question 3.	As in 4.5.	As in 4.5.	First, the share of negative answers for questions (2), (5) is calculated, then the arithmetic average of these two obtained values is taken.

*Source:* Compiled by authors. Data used are taken from (1) “The Older Generation” (Federal State Statistics Service of the Russian Federation (FSSS/Rosstat) website), (2) the Rosstat’s official survey “Comprehensive monitoring of living conditions” (2014, 2016) and (3) the Selective federal statistical observation on the use of information technologies and telecommunications networks.

## Appendix B

### Russian Elderly Wellbeing Index (REWI) scores

**Table 1:** REWI-2014 scores.

Federal district/Region	Place in economic the ranking	Economic scores	Place in social ranking	Social scores	Place in health ranking	Health scores	Place in regional environment ranking	Regional environment scores	Overall ranking	REWI - 2014
<b>Russia, average</b>		<b>49.9</b>		<b>43.6</b>		<b>43.5</b>		<b>57.2</b>		<b>48.5</b>
<b>Central federal district</b>		<b>50.9</b>		<b>46.0</b>		<b>41.4</b>		<b>67.3</b>		<b>51.4</b>
Moscow	72	42.2	2	62.1	7	50.7	1	79.4	2	58.6
Moscow Oblast	8	56.5	8	50.7	10	47.7	31	52.8	5	51.9
Smolensk Oblast	59	44.7	10	50.4	52	34.5	11	61.3	19	47.7
Kaluga Oblast	14	54.5	69	32.8	25	40.0	12	61.2	22	47.1
Belgorod Oblast	25	52.7	20	42.1	45	36.6	40	50.9	30	45.6
Tver Oblast	38	48.1	9	50.6	60	33.5	54	48.1	36	45.1
Tula Oblast	29	51.5	39	38.1	26	40.0	60	47.1	42	44.2
Yaroslav Oblast	12	55.1	65	33.7	72	30.8	49	49.6	53	42.3
Kursk Oblast	46	47.2	57	35.1	53	34.3	44	50.5	56	41.8
Vladimir Oblast	49	47.0	74	30.6	68	32.5	22	56.1	59	41.5
Ivanovo Oblast	57	45.1	30	40.3	69	32.1	59	47.3	63	41.2
Ryazan Oblast	45	47.4	79	27.9	19	43.4	66	45.7	64	41.1
Voronezh Oblast	41	48.0	75	30.5	23	41.6	69	43.8	65	41.0
Lipetsk Oblast	64	43.8	51	36.3	66	32.8	61	46.7	71	39.9
Kostroma Oblast	80	38.8	61	34.5	48	35.8	57	47.5	73	39.1
Oryol Oblast	79	39.6	43	37.4	79	27.6	56	47.6	75	38.0

Tambov Oblast	74	41.9	66	33.4	73	30.6	71	43.2	79	37.3
Bryansk Oblast	78	40.0	82	25.2	40	37.0	68	45.6	81	36.9
<b>Northwestern federal district</b>		<b>52.2</b>		<b>53.5</b>		<b>44.8</b>		<b>54.7</b>		<b>51.3</b>
St. Petersburg	3	65.7	1	63.2	16	43.9	6	64.5	1	59.3
Republic of Karelia	16	54.4	13	47.0	34	38.5	7	63.9	7	50.9
Leningrad Oblast	6	56.9	11	49.2	12	47.4	58	47.5	9	50.2
Kaliningrad Oblast	50	46.9	6	51.4	28	39.5	24	55.5	14	48.3
Murmansk Oblast	4	58.8	17	43.3	46	36.4	46	50.4	20	47.2
Nenets Autonomous Okrug	32	50.0	71	32.5	51	34.6	2	68.1	23	46.3
Volgograd Oblast	56	45.1	34	39.3	63	33.2	9	61.9	37	44.9
Arkhangelsk Oblast	82	36.4	5	52.6	44	36.8	55	47.8	44	43.4
Komi Republic	39	48.1	67	33.4	75	29.4	20	56.5	55	41.8
Pskov Oblast	58	45.0	14	45.8	82	23.4	72	42.6	72	39.2
Novgorod Oblast	63	43.8	40	38.1	80	27.3	73	42.2	77	37.8
<b>Southern federal district</b>		<b>45.3</b>		<b>41.9</b>		<b>44.4</b>		<b>49.0</b>		<b>45.1</b>
Sevastopol	61	44.5	3	<b>58.5</b>	6	<b>50.9</b>	23	<b>55.8</b>	4	52.4
Astrakhan Oblast	17	54.4	36	<b>38.9</b>	22	<b>42.1</b>	29	<b>53.2</b>	21	47.1
Republic of Kalmykia	44	47.4	28	40.3	54	34.3	10	61.4	27	45.9
Krasnodar Oblast	75	41.8	23	41.8	21	42.6	30	52.9	38	44.8
Volgograd Oblast	62	44.1	25	41.4	15	44.0	74	42.0	47	42.9
Rostov Oblast	71	42.2	38	38.7	30	39.5	65	46.1	57	41.6
Republic of Adygea	65	43.6	78	29.2	37	37.7	26	54.5	62	41.2
Republic of Crimea	83	28.7	35	39.2	65	32.8	35	51.9	74	38.2
<b>North Caucasian federal district</b>		<b>50.4</b>		<b>40.2</b>		<b>46.4</b>		<b>53.0</b>		<b>47.5</b>
Chechen Republic	20	53.5	83	24.1	2	61.7	8	63.1	8	50.6
Republic of Ingushetia	76	40.5	77	29.7	3	59.7	25	54.7	24	46.2
Republic of North Ossetia - Alania	13	54.8	45	37.0	20	42.9	62	46.7	31	45.3

Kabardino-Balkar Republic	60	44.5	46	37.0	9	48.3	39	51.2	34	45.2
Republic of Dagestan	73	42.0	81	27.1	1	62.3	77	38.6	50	42.5
Stavropol Krai	30	51.0	60	34.5	31	39.2	75	41.2	60	41.5
Karachay-Cherkess Republic	47	47.0	70	32.8	61	33.4	82	34.4	82	36.9
<b>Volga federal district</b>		<b>52.9</b>		<b>44.4</b>		<b>40.3</b>		<b>50.7</b>		<b>47.1</b>
Republic of Tatarstan	22	53.1	49	36.4	4	51.7	18	58.6	10	50.0
Samara Oblast	21	53.4	19	42.7	5	51.5	48	49.7	12	49.3
Penza Oblast	26	52.4	54	36.0	11	47.6	21	56.1	16	48.1
Chuvash Republic	19	54.1	58	35.0	18	43.4	16	59.2	17	47.9
Nizhny Novgorod Oblast	23	53.0	68	33.3	14	44.7	14	60.5	18	47.9
Udmurt Republic	7	56.8	42	37.6	39	37.3	33	52.4	25	46.0
Saratov Oblast	67	43.5	50	36.3	13	45.3	19	57.9	28	45.8
Republic of Mordovia	31	50.0	16	44.4	47	36.1	42	50.5	32	45.2
Ulyanovsk Oblast	53	46.1	59	34.8	8	49.0	52	48.4	40	44.6
Orenburg Oblast	36	48.6	62	34.2	56	34.2	28	53.8	48	42.7
Republic of Bashkortostan	48	47.0	64	33.9	33	38.9	47	49.7	51	42.4
Mari El Republic	42	47.7	26	41.2	55	34.3	64	46.2	52	42.3
Perm Krai	69	43.1	29	40.3	58	33.8	51	48.7	61	41.5
Kirov Oblast	43	47.5	32	39.6	77	28.5	81	35.8	76	37.9
<b>Ural federal district</b>		<b>53.5</b>		<b>44.7</b>		<b>44.7</b>		<b>59.2</b>		<b>50.6</b>
Sverdlovsk Oblast	11	55.2	15	45.3	70	32.1	5	66.9	11	49.9
Tyumen Oblast	34	48.9	27	40.4	38	37.5	3	68.1	13	48.7
Chelyabinsk Oblast	27	52.3	55	35.9	36	37.9	38	51.6	41	44.4
Kurgan Oblast	77	40.0	21	42.0	78	27.8	78	38.2	80	37.0
<b>Siberian federal district</b>		<b>49.6</b>		<b>41.4</b>		<b>39.7</b>		<b>49.7</b>		<b>45.1</b>
Omsk Oblast	10	55.3	22	41.8	49	35.0	43	50.5	29	45.6
Tomsk Oblast	24	52.9	53	36.1	62	33.3	17	58.6	33	45.2
Novosibirsk Oblast	52	46.3	18	42.8	76	29.2	13	60.6	39	44.7

Kemerovo Oblast	18	54.2	56	35.7	67	32.7	34	52.0	43	43.7
Irkutsk Oblast	37	48.5	33	39.4	43	36.8	53	48.3	45	43.3
Republic of Khakassia	40	48.1	63	34.1	42	36.9	32	52.6	46	42.9
Altai Krai	66	43.6	37	38.7	59	33.8	36	51.9	54	42.0
Tuva Republic	15	54.4	44	37.3	81	24.2	45	50.4	58	41.6
Republic of Buryatia	81	38.2	31	39.7	29	39.5	67	45.6	66	40.8
Krasnoyarsk Oblast	33	49.5	52	36.2	64	32.9	70	43.4	69	40.5
Altai Republic	54	45.6	73	31.8	50	34.6	79	37.6	78	37.4
Zabaykalsky Krai	68	43.2	48	36.7	74	29.6	83	30.4	83	35.0
<b>Far Eastern federal district</b>		<b>49.3</b>		<b>33.1</b>		<b>48.2</b>		<b>45.5</b>		<b>44.1</b>
Chukotka Autonomous Okrug	1	84.7	24	41.4	57	34.0	4	67.7	3	57.0
Sakha (Yakutia) Republic	5	57.2	4	56.1	17	43.5	50	49.0	6	51.5
Khabarovsk Krai	35	48.7	7	51.2	32	39.0	27	54.2	15	48.2
Magadan Oblast	2	70.8	72	32.1	24	40.6	76	40.4	26	46.0
Primorsky Krai	55	45.2	12	47.0	35	37.9	41	50.6	35	45.2
Amur Oblast	70	42.3	47	36.7	27	39.7	37	51.7	49	42.6
Jewish Autonomous Oblast	51	46.5	41	37.9	71	31.6	63	46.6	67	40.7
Kamchatka Krai	28	51.8	80	27.5	83	23.3	15	59.7	68	40.6
Sakhalin Oblast	9	55.5	76	30.4	41	37.0	80	37.2	70	40.0

Source: Compiled by authors. Data used are taken from (1) “The Older Generation” (Federal State Statistics Service of the Russian Federation (FSSS/Rosstat) website), (2) the Rosstat’s official survey “Comprehensive monitoring of living conditions” (2014, 2016) and (3) the Selective federal statistical observation on the use of information technologies and telecommunications networks.

**Table 2:** REWI-2016 scores.

Federal district/Region	Place in economic the ranking	Economic scores	Place in social ranking	Social scores	Place in health ranking	Health scores	Place in regional environment ranking	Regional environment scores	Overall ranking	REWI - 2016
<b>Russia, average</b>		<b>51.0</b>		<b>45.9</b>		<b>38.0</b>		<b>53.0</b>		<b>47.0</b>
<b>Central federal district</b>		<b>51.6</b>		<b>49.1</b>		<b>34.4</b>		<b>56.7</b>		<b>47.9</b>

Belgorod Oblast	18	57.3	47	42.6	56	36.2	9	58.4	23	48.6
Bryansk Oblast	76	46.6	68	37.1	36	39.8	50	50.2	69	43.4
Vladimir Oblast	27	56.2	35	44.7	52	36.6	13	57.6	21	48.8
Voronezh Oblast	32	55.4	59	39.7	50	37.6	28	53.6	41	46.6
Moscow	82	42.3	4	59.7	18	43.6	1	72.5	4	54.5
Ivanovo Oblast	73	47.1	65	37.7	57	36.2	29	53.6	66	43.6
Kaluga Oblast	9	58.8	41	44.2	51	37.0	45	50.9	27	47.7
Kostroma Oblast	39	54.1	66	37.3	30	40.7	51	50.1	52	45.5
Kursk Oblast	7	59.1	60	39.5	45	37.9	7	59.8	20	49.1
Lipetsk Oblast	19	57.3	73	35.3	35	39.9	37	52.0	46	46.1
Moscow Oblast	35	55.0	20	48.3	9	49.2	36	52.2	10	51.2
Oryol Oblast	59	50.1	56	40.3	74	30.7	30	52.8	68	43.5
Ryazan Oblast	54	51.2	31	45.0	8	49.7	22	54.4	15	50.1
Smolensk Oblast	67	47.7	57	40.2	65	33.9	42	51.4	70	43.3
Tambov Oblast	72	47.1	39	44.3	47	37.9	77	40.2	73	42.4
Tver Oblast	37	54.8	24	46.7	78	28.8	70	44.6	65	43.7
Tula Oblast	5	59.4	55	41.1	39	39.4	32	52.6	25	48.1
Yaroslavskaia Oblast	8	59.0	13	49.4	43	38.6	18	55.8	11	50.7
<b>Northwestern federal district</b>		<b>50.6</b>		<b>58.5</b>		<b>39.3</b>		<b>54.1</b>		<b>50.6</b>
Arkhangelsk Oblast	83	41.4	2	62.4	24	42.7	39	51.6	18	49.5
Vologodskaya Oblast	60	49.7	21	48.1	12	46.5	20	54.6	17	49.7
St. Petersburg	4	60.2	1	72.2	34	40.0	5	61.3	1	58.4
Kaliningrad Oblast	22	56.9	26	46.0	32	40.1	14	57.6	13	50.1
Leningrad Oblast	34	55.3	15	48.9	14	45.2	10	58.2	8	51.9
Murmansk Oblast	66	48.2	10	51.4	61	35.0	56	49.4	49	46.0
Novgorod Oblast	43	53.2	44	43.7	19	43.6	67	45.4	43	46.5
Pskov Oblast	50	51.8	9	52.2	80	26.7	21	54.4	44	46.3
Republic of Karelia	75	46.6	3	61.8	69	32.8	62	47.8	33	47.3

Komi Republic	58	50.4	42	44.1	84	24.4	58	48.6	74	41.9
<b>Southern federal district</b>		<b>52.6</b>		<b>44.2</b>		<b>39.0</b>		<b>49.5</b>		<b>46.3</b>
Astrakhan Oblast	15	57.8	52	41.4	40	39.2	52	50.1	34	47.1
Volgograd Oblast	40	54.1	32	44.9	15	44.9	66	45.8	29	47.4
Sevastopol	48	52.6	6	58.0	4	53.0	57	49.2	5	53.2
Krasnodar Oblast	61	49.7	49	42.2	11	47.0	27	53.6	24	48.1
Republic of Adygea	49	52.0	78	32.5	62	34.8	78	40.2	80	39.9
Republic of Kalmykia	3	60.4	7	57.9	7	52.8	26	53.6	3	56.2
Republic of Crimea	70	47.2	29	45.3	28	42.0	68	45.4	57	45.0
Rostov Oblast	45	52.9	54	41.2	33	40.0	46	50.7	45	46.2
<b>North Caucasian federal district</b>		<b>49.9</b>		<b>36.9</b>		<b>43.0</b>		<b>47.6</b>		<b>44.3</b>
Kabardino-Balkar Republic	23	56.8	45	43.0	25	42.2	81	34.3	61	44.1
Karachay-Cherkess Republic	44	53.1	77	32.7	63	34.2	64	46.7	75	41.7
Republic of Dagestan	31	55.7	82	28.8	5	52.8	35	52.2	31	47.4
Republic of Ingushetia	47	52.7	64	38.0	3	53.8	84	31.9	60	44.1
Republic of North Ossetia - Alania	16	57.5	37	44.3	10	49.1	47	50.5	12	50.4
Stavropol Krai	46	52.8	40	44.2	23	42.7	73	43.0	51	45.7
Chechen Republic	84	24.8	84	20.9	1	69.7	2	64.9	55	45.1
<b>Volga federal district</b>		<b>56.5</b>		<b>43.3</b>		<b>41.8</b>		<b>52.7</b>		<b>48.6</b>
Kirov Oblast	41	53.7	30	45.2	82	24.9	80	38.0	78	40.5
Nizhny Novgorod Oblast	36	54.9	69	36.9	26	42.2	19	55.6	30	47.4
Orenburg Oblast	12	58.4	58	40.2	59	35.9	60	48.4	50	45.7
Penza Oblast	20	57.2	71	36.5	53	36.6	23	54.1	47	46.1
Perm Krai	52	51.5	33	44.8	41	38.9	24	54.1	32	47.3
Republic of Bashkortostan	26	56.4	34	44.8	20	43.5	49	50.2	22	48.7
Mari El Republic	62	49.2	53	41.3	70	32.6	17	56.8	56	45.0
Republic of Mordovia	2	61.3	22	47.6	22	43.1	15	57.3	6	52.3

Republic of Tatarstan	1	62.8	23	46.9	2	56.4	3	63.9	2	57.5
Samara Oblast	17	57.3	38	44.3	6	52.8	34	52.5	9	51.7
Saratov Oblast	25	56.5	72	35.8	27	42.1	53	50.0	48	46.1
Udmurt Republic	10	58.6	18	48.8	38	39.5	54	49.7	19	49.1
Ulyanovsk Oblast	21	57.2	76	34.0	21	43.4	31	52.7	39	46.8
Chuvash Republic	13	58.4	75	35.1	16	44.8	25	54.0	26	48.1
<b>Ural federal district</b>		<b>50.8</b>		<b>47.2</b>		<b>38.5</b>		<b>52.5</b>		<b>47.3</b>
Kurgan Oblast	65	49.1	27	45.4	77	28.8	65	46.3	72	42.4
Sverdlovsk Oblast	51	51.8	28	45.4	42	38.7	40	51.6	38	46.8
Tyumen Oblast	81	43.0	16	48.8	66	33.8	4	62.2	36	46.9
Chelyabinsk Oblast	28	56.0	46	42.8	44	38.3	43	51.4	35	47.1
Yamalo-Nenets Autonomous Okrug	68	47.5	14	49.0	64	34.1	16	57.0	37	46.9
<b>Siberian federal district</b>		<b>50.9</b>		<b>39.8</b>		<b>36.5</b>		<b>47.6</b>		<b>43.7</b>
Altai Krai	55	50.5	17	48.8	55	36.4	48	50.4	42	46.5
Zabaykalsky Krai	57	50.4	63	39.0	68	33.1	83	32.2	82	38.7
Irkutsk Oblast	53	51.2	48	42.6	48	37.6	72	44.3	62	43.9
Kemerovo Oblast	38	54.4	70	36.7	71	32.3	74	42.3	76	41.4
Krasnoyarsk Oblast	56	50.4	50	42.1	49	37.6	41	51.5	53	45.4
Novosibirsk Oblast	63	49.1	43	43.7	58	36.1	12	57.8	40	46.7
Omsk Oblast	6	59.4	79	32.3	60	35.8	44	51.2	59	44.7
Altai Republic	33	55.4	83	28.2	83	24.5	79	40.1	84	37.0
Republic of Buryatia	29	55.8	25	46.1	31	40.2	11	58.1	14	50.1
Tuva Republic	30	55.7	67	37.2	37	39.6	59	48.4	54	45.2
Republic of Khakassia	14	58.0	74	35.3	72	31.7	55	49.5	67	43.6
Tomsk Oblast	74	46.8	80	31.9	67	33.2	38	51.8	77	40.9
<b>Far Eastern federal district</b>		<b>46.2</b>		<b>45.4</b>		<b>34.6</b>		<b>47.0</b>		<b>43.3</b>
Amur Oblast	79	43.7	61	39.3	81	26.4	71	44.5	83	38.5
Jewish Autonomous Oblast	69	47.4	19	48.7	79	28.8	69	45.3	71	42.5



Kamchatka Krai	77	45.1	5	58.9	46	37.9	61	48.0	28	47.5
Magadan Oblast	24	56.8	81	30.1	76	29.1	75	40.8	81	39.2
Primorsky Krai	64	49.1	51	41.7	29	40.8	63	47.8	58	44.8
Sakha (Yakutia) Republic	71	47.2	8	56.6	17	44.6	8	59.5	7	52.0
Sakhalin Oblast	42	53.4	36	44.4	54	36.6	76	40.5	64	43.7
Khabarovsk Krai	78	44.2	12	49.4	75	29.3	33	52.6	63	43.9
Chukotka Autonomous Okrug	11	58.5	62	39.1	73	31.1	82	32.2	79	40.2

*Source:* Compiled by authors. Data used are taken from (1) “The Older Generation” (Federal State Statistics Service of the Russian Federation (FSSS/Rosstat) website), (2) the Rosstat’s official survey “Comprehensive monitoring of living conditions” (2014, 2016) and (3) the Selective federal statistical observation on the use of information technologies and telecommunications networks.

\* Khanty-Mansi Autonomous Okrug and Nenets Autonomous Okrug are excluded from the final rating of REWI-2016 due to the lack of values for several indicators.

# Appendix C

## Russian Elderly Wellbeing Index (REWI) clustering dendrograms by individual domains

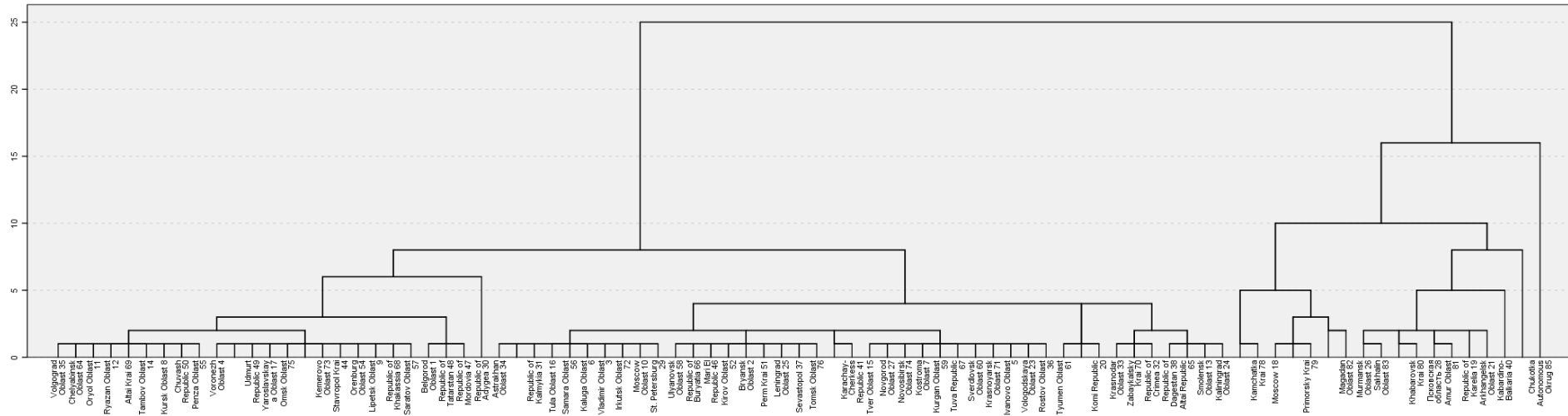


Figure 1: Hierarchical clustering (between-groups linkage method, squared Euclidean distance): an economic dimension dendrogram.

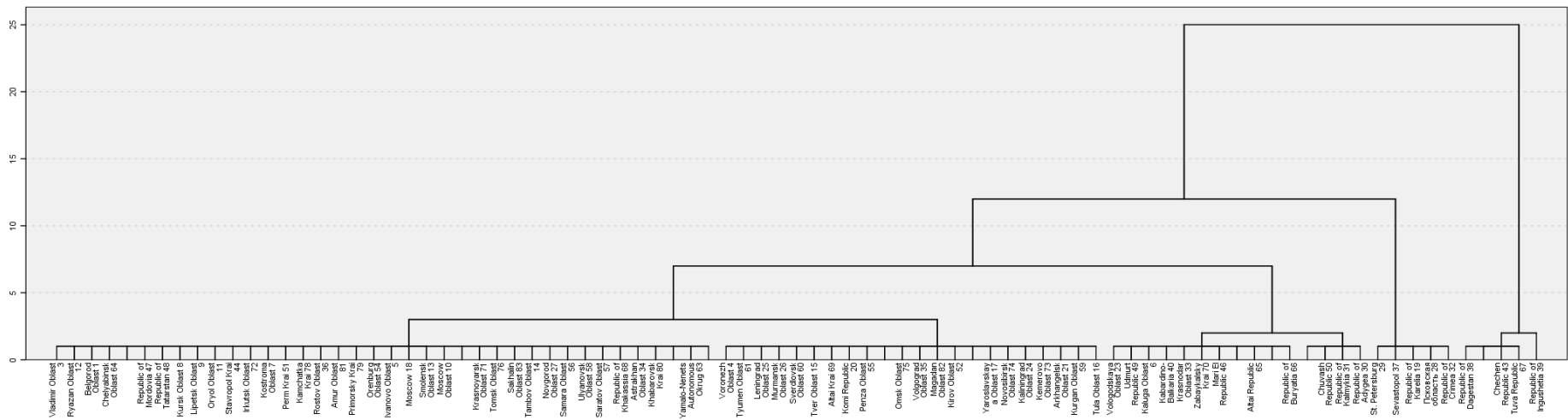
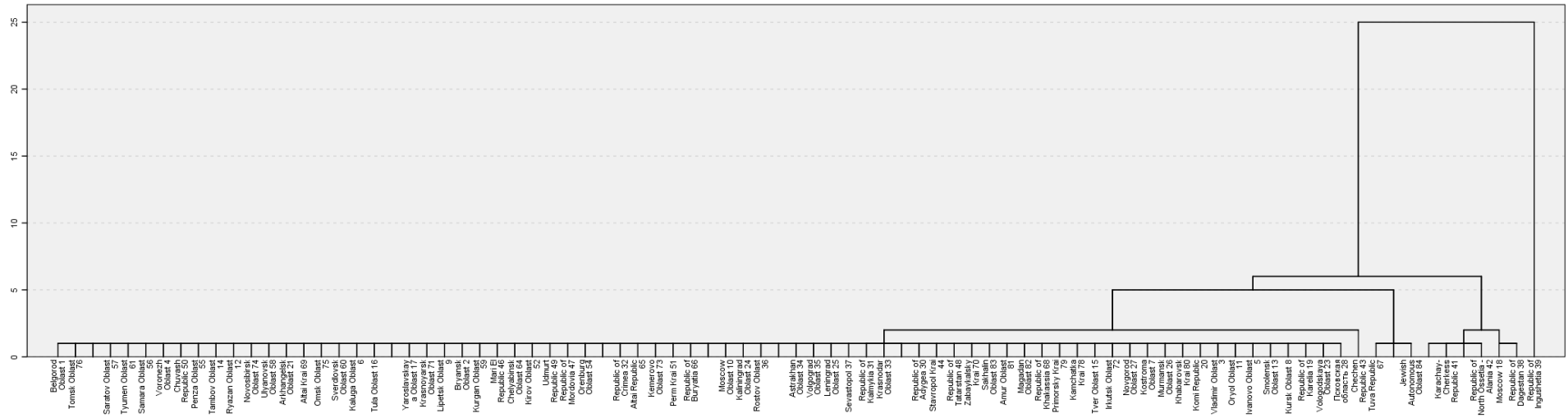
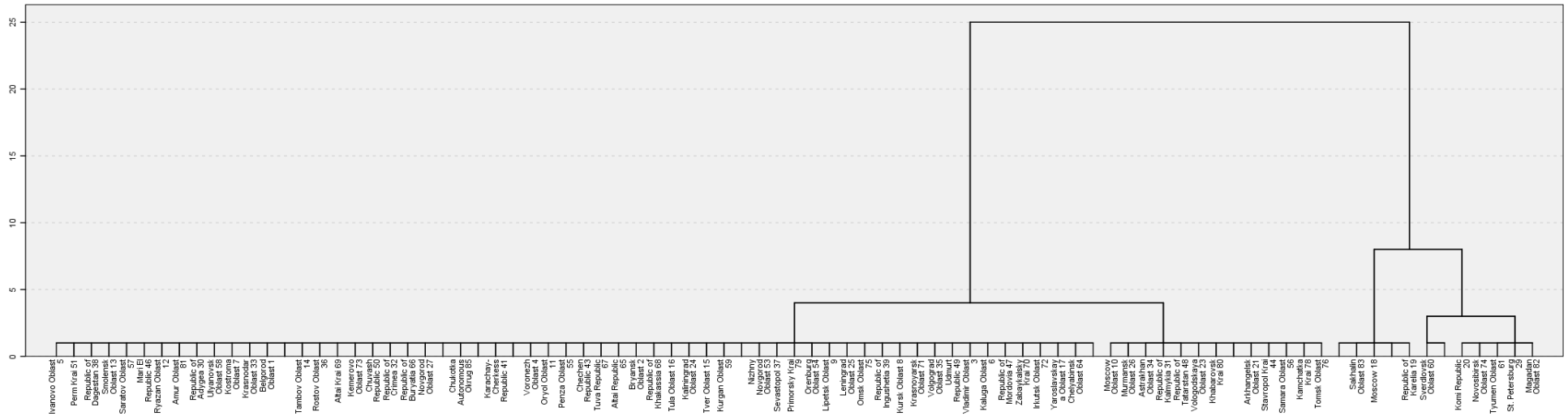


Figure 2: Hierarchical clustering (between-groups linkage method, squared Euclidean distance): a social dimension dendrogram.



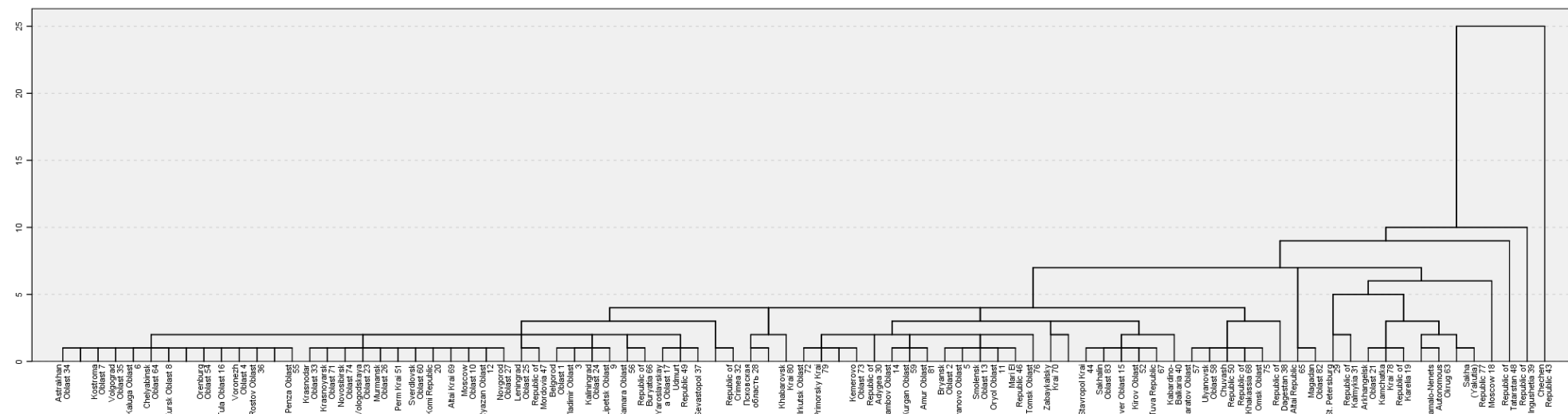
**Figure 3:** Hierarchical clustering (between-groups linkage method, squared Euclidean distance): a health dimension dendrogram.



**Figure 4:** Hierarchical clustering (between-groups linkage method, squared Euclidean distance): a regional environment dimension dendrogram.

# Appendix D

## Russian Elderly Wellbeing Index (REWI) clustering dendrogram (all domains within the REWI)



**Figure 1:** Hierarchical clustering (between-groups linkage method, squared Euclidean distance): a dendrogram for the entire REWI-2016.

**Table 1:** Regions in the cluster.

Region	Cluster	Region	Cluster	Region	Cluster
Yamalo-Nenets Autonomous Okrug	1	Belgorod Oblast	4	Zabaykalsky Krai	15
Kaluga Oblast	1	Vladimir Oblast	4	Chukotka Autonomous Okrug	15
Kostroma Oblast	1	Lipetsk Oblast	4	Tver Oblast	16
Kursk Oblast	1	Kaliningrad Oblast	4	StavropolKrai	16
Tula Oblast	1	Samara Oblast	5	Kirov Oblast	16
Astrakhan Oblast	1	Republic of Buryatia	5	Tuva Republic	16
Volgograd Oblast	1	Yaroslavskaya Oblast	6	Sakhalin Oblast	16
Rostov Oblast	1	Sevastopol	6	Kabardino-Balkaria	17

Nizhny Novgorod Oblast	1	Udmurt Republic	6	Chuvash Republic	18
Orenburg Oblast	1	Republic of Crimea	7	Saratov Oblast	18
Penza Oblast	1	Nenets Autonomous Okrug	7	Ulyanovsk Oblast	18
Chelyabinsk Oblast	1	Pskov Oblast	8	Republic of Khakassia	18
Republic of North Ossetia-Alania	1	Jewish Autonomous Oblast	8	Omsk Oblast	18
Republic of Bashkortostan	1	Khabarovsk Krai	9	Republic of Dagestan	19
Moscow Oblast	2	Irkutsk Oblast	10	Altai Republic	20
Ryazan Oblast	2	Kemerovo Oblast	10	Magadan Oblast	20
Komi Republic	2	Primorsky Krai	10	St.Petersburg	21
Vologodskaya Oblast	2	Karachay-Cherkess Republic	10	Republic of Kalmykia	21
Murmansk Oblast	2	Republic of Adygea	11	Republic of Karelia	22
Novgorod Oblast	2	Tambov Oblast	12	Arkhangelsk Oblast	22
Krasnodar Oblast	2	Kurgan Oblast	12	Kamchatka Krai	22
Perm Krai	2	Amur Oblast	12	Yamalo-Nenets Autonomous Okrug	23
Sverdlovsk Oblast	2	Bryansk Oblast	13	Tyumen Oblast	23
Altai Krai	2	Ivanovo Oblast	13	Sakha (Yakutia) Republic	24
Krasnoyarsk Oblast	2	Oryol Oblast	13	Khanty-Mansi Autonomous Okrug	24
Novosibirsk Oblast	2	Smolensk Oblast	13	Moscow	25
Leningrad Oblast	3	Mari El Republic	13	Republic of Tatarstan	26
Republic of Mordovia	3	Tomsk Oblast	14	Republic of Ingushetia	27
				Chechen Republic	28

Source: Compiled by authors.