

# Environmental Indicators of Life Quality and Methodology for calculating Composite Index characterizing the ecological condition of the Yerevan city and RA regions



Statistical Committee of RA  
Division of Environmental Statistics

16-17 October, 2023  
Geneva

## **Twinning Partnership with the Statistical Committee of the Republic of Armenia for the Project Implementation within the World Bank's Implementation of the National Strategy Program for Strengthening of the National Statistical System**

Activity 2.8.1 “Conducting assessment of indicators on the impact of ecological conditions, providing recommendations and developing a Reporting System on Life Quality Statistics”

Activity 2 8.2 “Developing methodology and instruments for emergency situations and disasters statistics, developing a relevant reporting system”

Activity 2.8.3 “Conducting trainings on life quality statistics, emergency situations and disasters, using of GIS system”

# Environmental Performance Index Yale University

Using 32 performance indicators across 11 issue categories, the EPI ranks 180 countries on environmental health and ecosystem vitality

## Scores and rankings for Armenia

Regional rankings, EPI scores, and global ranking score – 52.3, global ranking - 53

Environmental Health scores, and global ranking score – 43.5, global ranking - 91

Regional rankings, Ecosystem Vitality scores, and global ranking score – 58.1, global ranking - 36

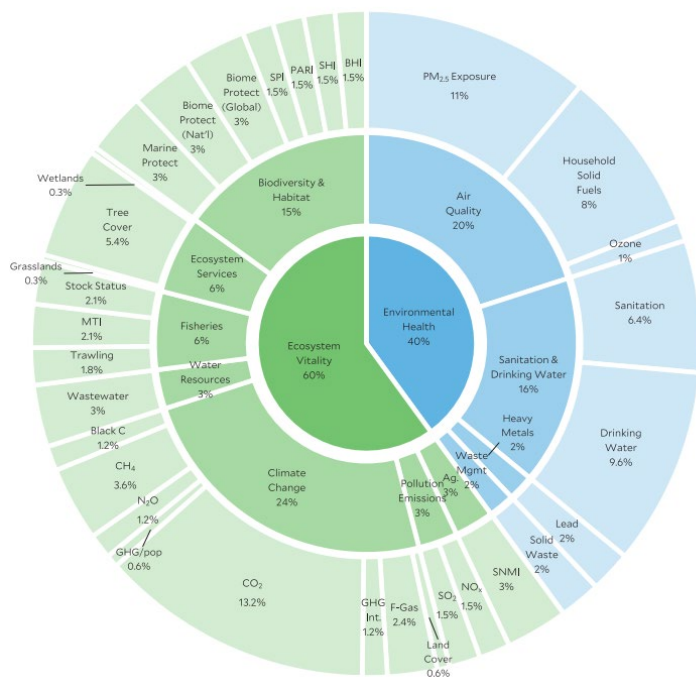
Global rankings, scores, and regional rankings (REG) on Air Quality. score – 36.3, global ranking - 97

Global rankings, scores, and regional rankings (REG) on Sanitation & Drinking Water score – 57.2, global ranking - 60



# Environmental Performance Index 2020

Global metrics for the environment:  
Ranking country performance on sustainability issues



The 2020 EPI Framework organizes 32 indicators into 11 issue categories and two policy objectives, with weights shown at each level as a percentage of the total score.

Reg Rank	Country	Score	Global Rank
20	Jamaica	45.5	83
21	Peru	45.1	84
22	St. Vincent and Grenadines	44.1	87
23	El Salvador	42.5	93
24	Belize	40.3	99
25	Nicaragua	40.2	100
26	Suriname	36.6	103
27	Dominican Republic	36.1	104
28	Bolivia	35.9	105
29	Guyana	33.5	110
30	Honduras	33.4	111
31	Guatemala	30.8	116
32	Haiti	21.8	147

Reg Rank	Country	Score	Global Rank
20	Italy	85.5	21
21	Portugal	83.4	24
22	United States of America	82.8	26

Reg Rank	Country	Score	Global Rank
1	Belarus	55.9	48
2	Russia	53.0	57
3	Ukraine	49.0	69
4	Moldova	45.5	82
5	Turkmenistan	45.0	85
6	Armenia	43.5	91
7	Kazakhstan	40.8	97
8	Georgia	38.7	102
9	Kyrgyzstan	33.7	109
10	Azerbaijan	32.7	113
11	Uzbekistan	29.7	121
12	Tajikistan	20.7	153

Reg Rank	Country	Score	Global Rank
1	Cyprus	81.5	26
2	Greece	80.6	28
3	Estonia	73.0	30
4	Slovenia	68.9	31
5	Czech Republic	68.3	32
6	Slovakia	64.3	34
7	Lithuania	63.2	36
8	Croatia	61.2	37
9	Poland	58.9	43
10	Latvia	58.0	45
11	Hungary	54.1	54
12	Turkey	51.3	58
13	Bulgaria	50.3	63
14	Romania	50.0	65
15	Serbia	47.8	73
16	Montenegro	46.7	79
17	Albania	44.5	86
18	Bosnia and Herzegovina	43.9	88

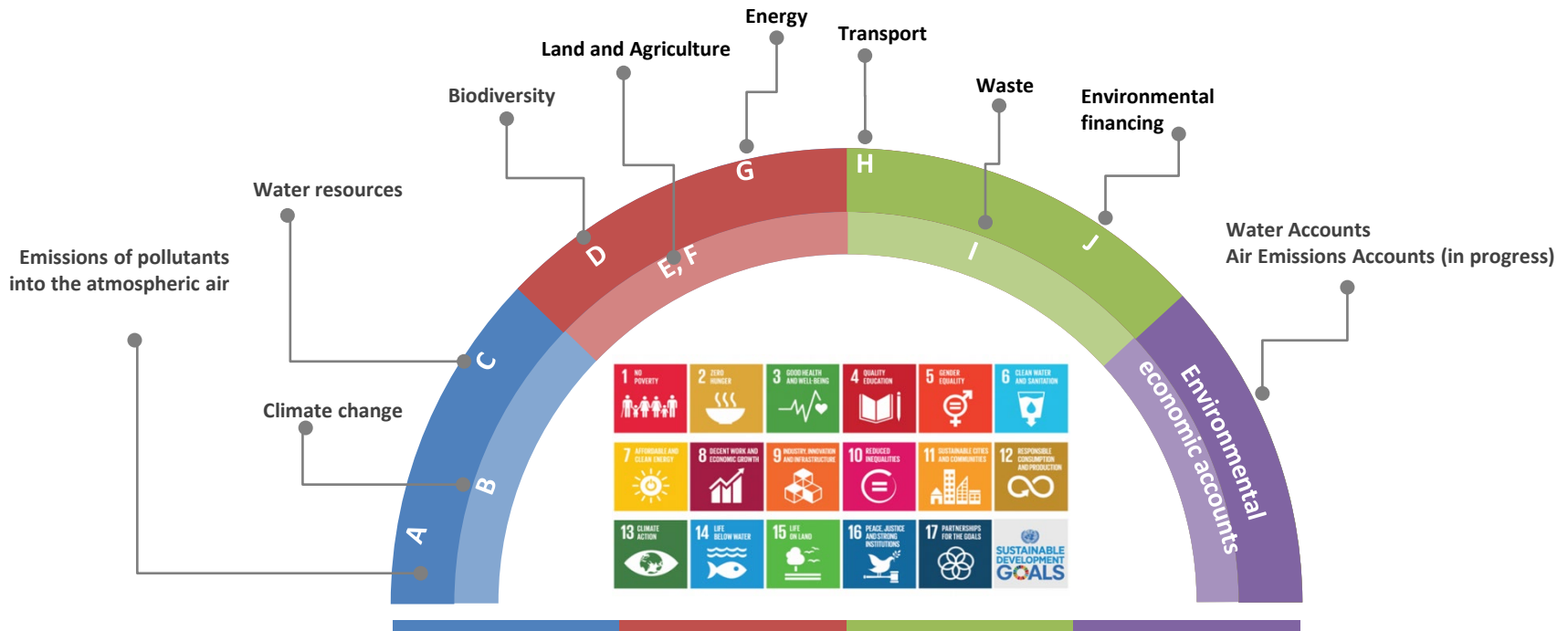
Reg Rank	Country	Score	Global Rank
1	Japan	90.3	14
2	Singapore	85.0	22
3	South Korea	81.4	27
4	Brunei Darussalam	74.0	29
5	Taiwan	59.2	42
6	Malaysia	55.4	50
7	Thailand	46.4	70
8	Tonga	43.6	80
9	Samoa	42.4	84
10	China	41.8	86
11	Viet Nam	40.6	98

Reg Rank	Country	Score	Global Rank
1	Israel	83.6	23
2	Jordan	58.6	44

# Aligning with UNECE Indicators

(36+7) assessed UNECE environmental indicators of Armenia (2023)



## Activity 2.8.1 “Conducting assessment of indicators on the impact of ecological conditions, providing recommendations and developing a Reporting System on Life Quality Statistics”

### Pre-selected environmental quality of life indicators list

Target concept	Indicator
<b>Impact of environmental hazards on human health:</b>	
<b>Environmental health</b>	<ol style="list-style-type: none"> <li>1. Mortality rate attributed to household and ambient air pollution</li> <li>2. Mortality rate attributed to unsafe water, unsafe sanitation and lack of hygiene (exposure to unsafe Water, Sanitation and Hygiene for All (WASH) services)</li> <li>3. Mortality rate attributed to unintentional poisoning</li> </ol>
<b>Natural disasters impact</b>	<ol style="list-style-type: none"> <li>4. Number of deaths, missing persons and directly affected persons attributed to disasters per 100,000 population</li> </ol>
<b>Access to environmental services and amenities</b>	
<b>Intangible services and amenities</b>	<ol style="list-style-type: none"> <li>5. Terrestrial protected areas (% of total land area)</li> <li>6. Forest area as a proportion of total land area</li> </ol>
<b>Objective services and amenities</b>	<ol style="list-style-type: none"> <li>7. Proportion of population using safely managed drinking water services</li> <li>8. Exceedance of air quality standards in urban areas</li> <li>9. Proportion of population using safely managed sanitation services</li> <li>10. Green area per 100,000 inhabitants</li> </ol>
<b>Subjective services and amenities</b>	<ol style="list-style-type: none"> <li>11. Satisfaction with the quality of water supply</li> <li>12. Satisfaction with the level of pollution</li> <li>13. Satisfaction with the level of noise</li> <li>14. Satisfaction with the quality of waste management</li> <li>15. Satisfaction with the level of traffic</li> <li>16. Satisfaction with the availability of green areas</li> </ol>
<b>Quality of the environment</b>	<ol style="list-style-type: none"> <li>17. Proportion of bodies of water with good ambient water quality</li> <li>18. Level of water stress: freshwater withdrawal as a proportion of available freshwater resources</li> <li>19. Annual mean levels of fine particulate matter in cities</li> </ol>

## Basic Set of Environment Statistics (BSES) of the Framework for the Development of Environment Statistics (FDES 2013)

### FRAMEWORK FOR THE DEVELOPMENT OF ENVIRONMENT STATISTICS (FDES 2013)



## Activity 2.8.1 “Conducting assessment of indicators on the impact of ecological conditions, providing recommendations and developing a Reporting System on Life Quality Statistics”

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<b>Intangible services and amenities</b>	<ol style="list-style-type: none"> <li>5. Terrestrial protected areas (% of total land area)</li> <li>6. Forest area as a proportion of total land area</li> </ol>
<b>Objective services and amenities</b>	<ol style="list-style-type: none"> <li>7. Proportion of population using safely managed drinking water services</li> </ol>
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Armstat, Population Census  
and Demography Division  
*Ministry of Justice*  
Civil Status Acts Registration Agency

Armstat, Division of  
Environmental Statistics  
*Ministry of Emergency Situations*

Armstat, Division of  
Environmental Statistics  
*Ministry of Environment*

Armstat, Household Statistics  
Division

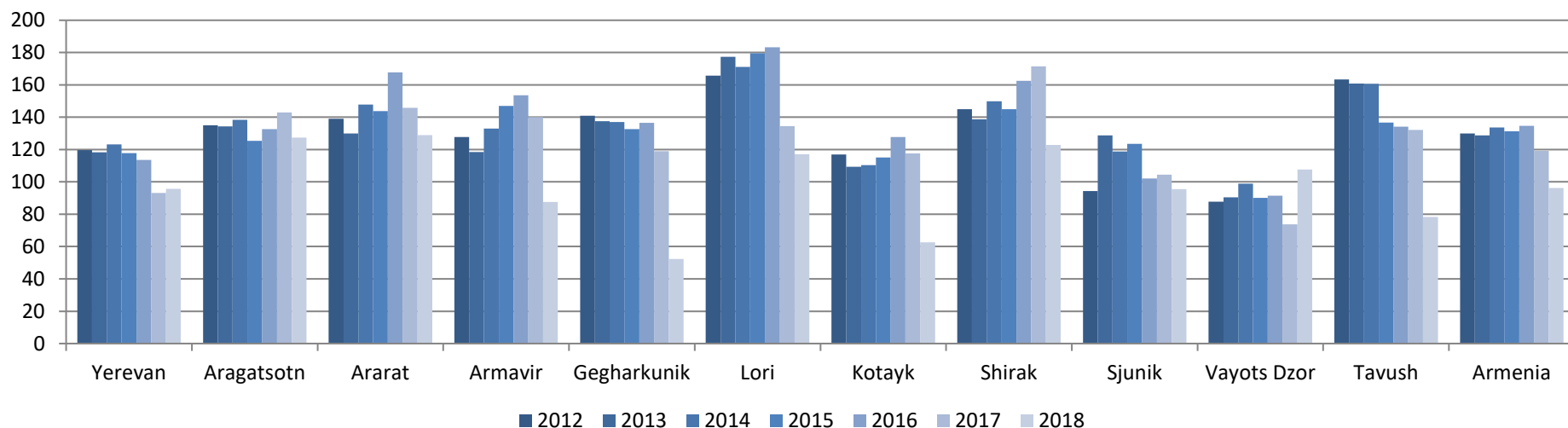


## Activity 2.8.1 “Conducting assessment of indicators on the impact of ecological conditions, providing recommendations and developing a Reporting System on Life Quality Statistics”

### 1. Mortality rate attributed to household and ambient air pollution (SDG 3.9.1)

- Acute respiratory infections in young children (estimated under 5 years of age);
- Cerebrovascular diseases (stroke) in adults (estimated above 25 years);
- Ischemic heart diseases (IHD) in adults (estimated above 25 years);
- Chronic obstructive pulmonary disease (COPD) in adults (estimated above 25 years);
- Lung cancer in adults (estimated above 25 years).

Rate per 100 000	2012	2013	2014	2015	2016	2017	2018
Yerevan	119.5	118.3	123.2	117.8	113.6	93.1	95.7
Aragatsotn	135.0	134.3	138.3	125.4	132.7	142.9	127.4
Ararat	139.0	130.0	147.9	143.8	167.7	145.8	128.8
Armavir	127.8	118.5	133.0	147.0	153.5	140.0	87.6
Gegharkunik	140.9	137.6	137.0	132.6	136.5	118.9	52.2
Lori	165.7	177.3	171.1	179.5	183.2	134.4	117.1
Kotayk	117.0	109.4	110.4	115.0	127.7	117.6	62.6
Shirak	145.0	138.6	149.8	144.9	162.4	171.4	122.8
Sjunik	94.3	128.8	118.8	123.6	102.1	104.4	95.6
Vayots Dzor	87.7	90.4	98.8	90.1	91.4	73.7	107.6
Tavush	163.3	160.9	160.7	136.7	134.1	132.1	78.3
Armenia	129.9	128.8	133.7	131.3	134.7	119.2	96.2



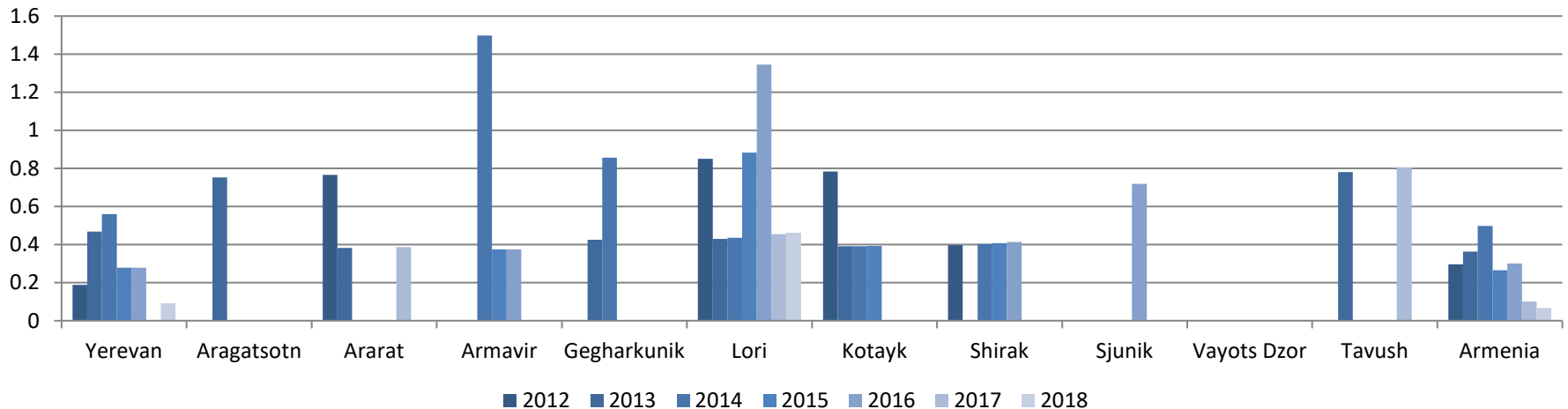
**Activity 2.8.1 “Conducting assessment of indicators on the impact of ecological conditions, providing recommendations and developing a Reporting System on Life Quality Statistics”**

**2. Mortality rate attributed to unsafe water, unsafe sanitation and lack of hygiene (exposure to unsafe Water, Sanitation and Hygiene for All (WASH) services) (SDG Indicator 3.9.2)**

The included diseases are the WASH attributable fractions of:

- diarrhea (ICD-10 code A00, A01, A03, A04, A06-A09),
- intestinal nematode infections (ICD-10 code B76- B77, B79) and
- protein-energy malnutrition (ICD-10 code E40-E46).

Rate per 100 000	2012	2013	2014	2015	2016	2017	2018
Yerevan	0.1880	0.5	0.6	0.3	0.3	-	0.1
Aragatsotn	-	0.8	-	-	-	-	-
Ararat	0.8	0.4	-	-	-	0.4	-
Armavir	-	-	1.5	0.4	0.4	-	-
Gegharkunik	-	0.4	0.9	-	-	-	-
Lori	0.9	0.4	0.4	0.9	1.3	0.5	0.5
Kotayk	0.8	0.4	0.4	0.4	-	-	-
Shirak	0.4	-	0.4	0.4	0.4	-	-
Sjunik	-	-	-	-	0.7	-	-
Vayots Dzor	-	-	-	-	-	-	-
Tavush	-	0.8	-	-	-	0.8	-
<b>Armenia</b>	<b>0.30</b>	<b>0.36</b>	<b>0.50</b>	<b>0.27</b>	<b>0.30</b>	<b>0.10</b>	<b>0.07</b>





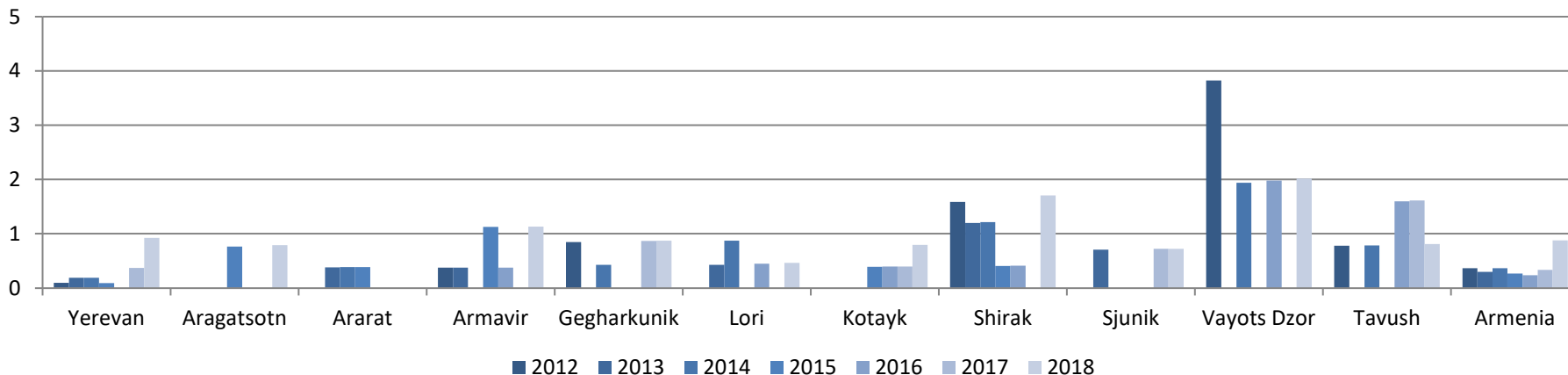
## Activity 2.8.1 “Conducting assessment of indicators on the impact of ecological conditions, providing recommendations and developing a Reporting System on Life Quality Statistics”

### 3. Mortality rate attributed to unintentional poisoning (SDG Indicator 3.9.3)

The ICD-10 codes corresponding to the indicator includes:

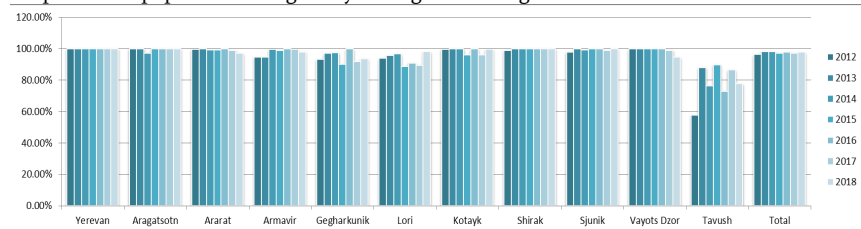
- X40 Accidental poisoning by and exposure to nonopioid analgesics, antipyretics and antirheumatics
- X43 Accidental poisoning by and exposure to other drugs acting on the autonomic nervous system
- X44 Accidental poisoning by and exposure to other and unspecified drugs, medicaments and biological substances
- X46 Accidental poisoning by and exposure to organic solvents and halogenated hydrocarbons and their vapours
- X47 Accidental poisoning by and exposure to other gases and vapours
- X48 Accidental poisoning by and exposure to pesticides
- X49 Accidental poisoning by and exposure to other and unspecified chemicals and noxious substances

Rate per 100 000	2012	2013	2014	2015	2016	2017	2018
Yerevan	0.1	0.2	0.2	0.1	-	0.4	0.9
Aragatsotn	-	-	-	0.8	-	-	0.8
Ararat	-	0.4	0.4	0.4	-	-	-
Armavir	0.4	0.4	-	1.1	0.4	-	1.1
Gegharkunik	0.8	-	0.4	-	-	0.9	0.9
Lori	-	0.4	0.9	-	0.4	-	0.5
Kotayk	-	-	-	0.39	0.4	0.4	0.8
Shirak	1.6	1.2	1.2	0.4	0.4	-	1.7
Sjunik	-	0.7	-	-	-	0.7	0.7
Vayots Dzor	3.8	-	1.9	-	2.0	-	2.0
Tavush	0.8	-	0.8	-	1.6	1.6	0.8
Armenia	0.36	0.30	0.36	0.27	0.23	0.34	0.88

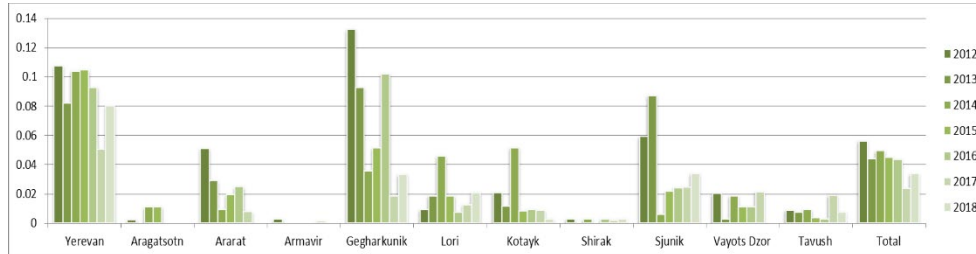


## Activity 2.8.1 “Conducting assessment of indicators on the impact of ecological conditions, providing recommendations and developing a Reporting System on Life Quality Statistics”

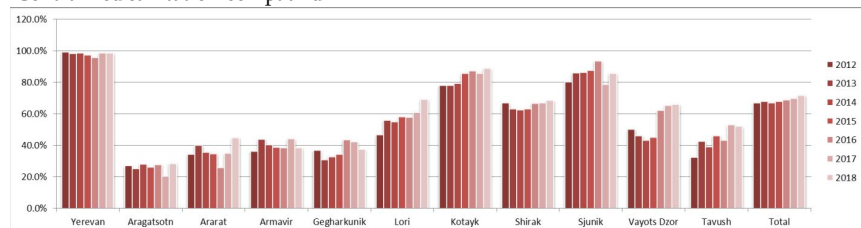
Proportion of population using safely managed drinking water services



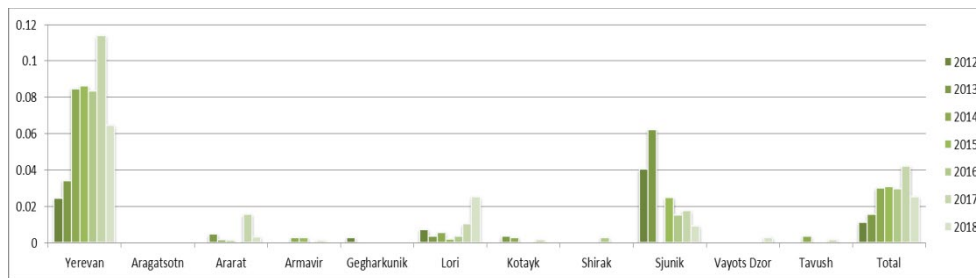
Proportion of population having any complaints about “Noise from neighbors and from outside”



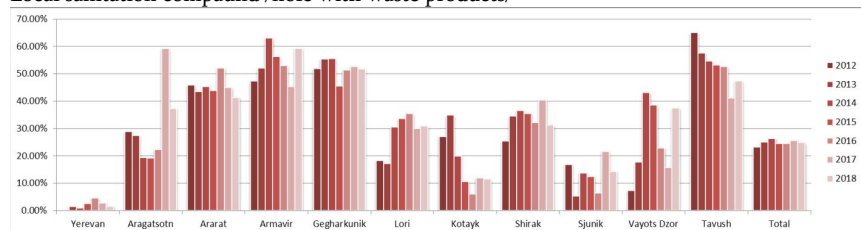
Proportion of population using safely managed sanitation services / Centralized sanitation compaund



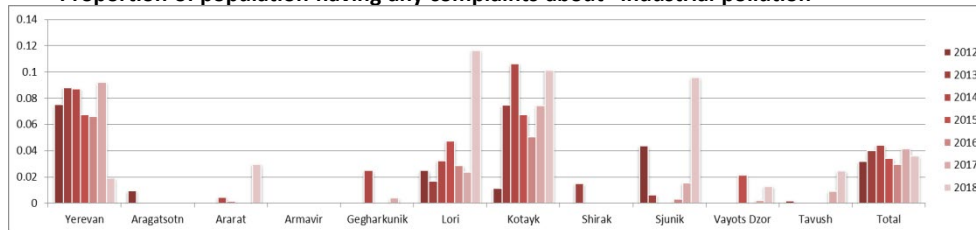
Proportion of population having any complaints about “Heavy traffic”



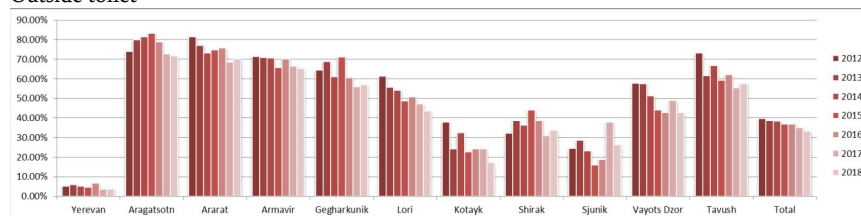
Proportion of population using safely managed sanitation services / Local sanitation compaund /hole with waste products/



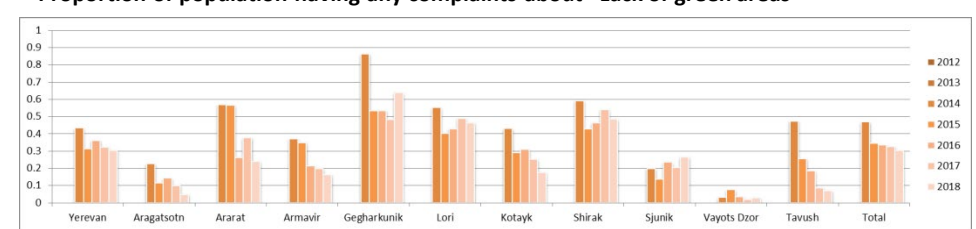
Proportion of population having any complaints about “industrial pollution”



Proportion of population using safely managed sanitation services / Outside toilet



Proportion of population having any complaints about “Lack of green areas”



## Activity 2.8.1 “Conducting assessment of indicators on the impact of ecological conditions, providing recommendations and developing a Reporting System on Life Quality Statistics”

### Pre-selected environmental quality of life indicators list

Target concept	Indicator
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<b>Environmental health</b>	<ol style="list-style-type: none"> <li>1. Mortality rate attributed to household and ambient air pollution</li> <li>2. Mortality rate attributed to unsafe water, unsafe sanitation and lack of hygiene (exposure to unsafe Water, Sanitation and Hygiene for All (WASH) services)</li> <li>3. Mortality rate attributed to unintentional poisoning</li> </ol>
<b>Natural disasters impact</b>	<ol style="list-style-type: none"> <li>4. Number of deaths, missing persons and directly affected persons attributed to disasters per 100,000 population</li> </ol>
<b>Access to environmental services and amenities</b>	
<b>Intangible services and amenities</b>	<ol style="list-style-type: none"> <li>5. Terrestrial protected areas (% of total land area)</li> <li>6. Forest area as a proportion of total land area</li> </ol>
<b>Objective services and amenities</b>	<ol style="list-style-type: none"> <li>7. Proportion of population using safely managed drinking water services</li> <li>8. Exceedance of air quality standards in urban areas</li> <li>9. Proportion of population using safely managed sanitation services</li> <li>10. Green area per 100,000 inhabitants</li> </ol>
<b>Subjective services and amenities</b>	<ol style="list-style-type: none"> <li>11. Satisfaction with the quality of water supply</li> <li>12. Satisfaction with the level of pollution</li> <li>13. Satisfaction with the level of noise</li> <li>14. Satisfaction with the quality of waste management</li> <li>15. Satisfaction with the level of traffic</li> <li>16. Satisfaction with the availability of green areas</li> </ol>
<b>Quality of the environment</b>	<ol style="list-style-type: none"> <li>17. Proportion of bodies of water with good ambient water quality</li> <li>18. Level of water stress: freshwater withdrawal as a proportion of available freshwater resources</li> <li>19. Annual mean levels of fine particulate matter in cities</li> </ol>

Disaggregation by Marzes  
(included in the Index calculation)

Country SDG platform

Information on 7 cities  
*(included in GIS analyzing)*

In process

## Activity 2 8.2 “Developing methodology and instruments for emergency situations and disasters statistics, developing a relevant reporting system”

### 4. Number of deaths, missing persons and directly affected persons attributed to emergency situations per 100,000 population

1. Total number of deaths, missing persons and directly affected persons attributed to emergency situations
2. Number of deaths, missing persons and directly affected persons attributed to social-biological emergency situations
3. Number of deaths, missing persons and directly affected persons attributed to natural disasters
4. Number of deaths, missing persons and directly affected persons attributed to man-caused disasters
5. Number of road-traffic accidents (2019-2020)
6. Number of deaths attributed to road-traffic accidents (2019-2020)
7. Number of Injured person attributed to road-traffic accidents (2019-2020)

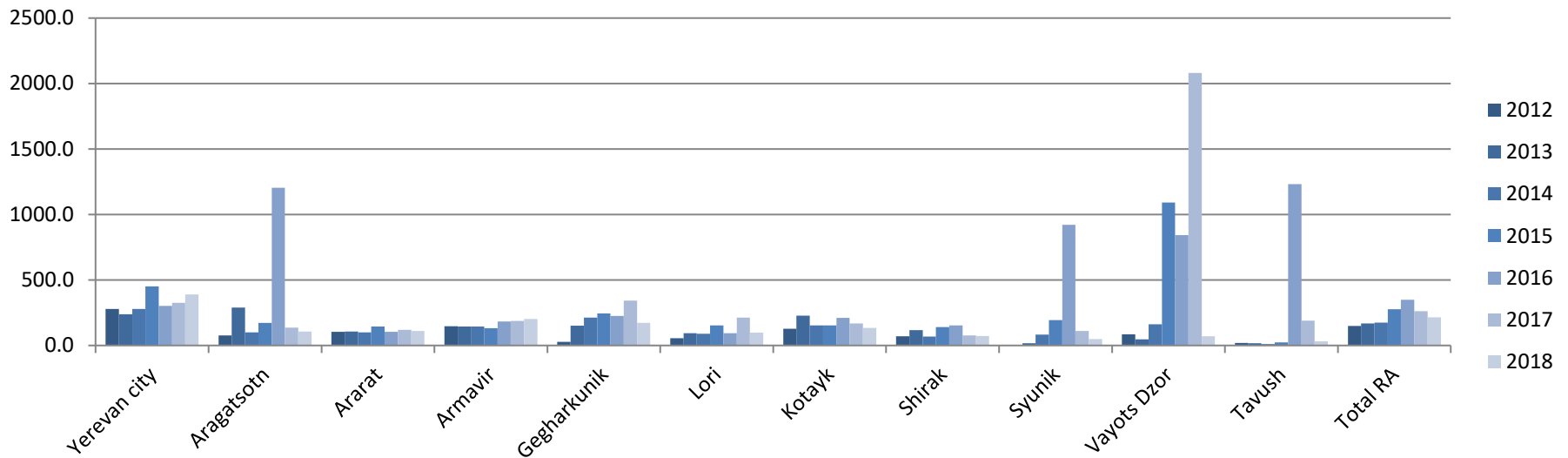


Fig. Total number of deaths, missing persons and directly affected persons attributed to emergency situations

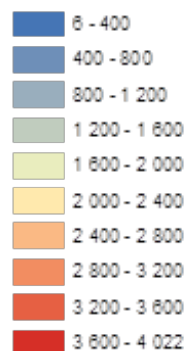
**Activity 2.8.3 “Conducting trainings on life quality statistics, emergency situations and disasters, using of GIS system”**

GIS-CoKriging method for 2013 and 2018  
Mortality rate attributed to household and ambient air pollution  
Air Quality (mean value of Dust from monitoring stations of 7 cities )

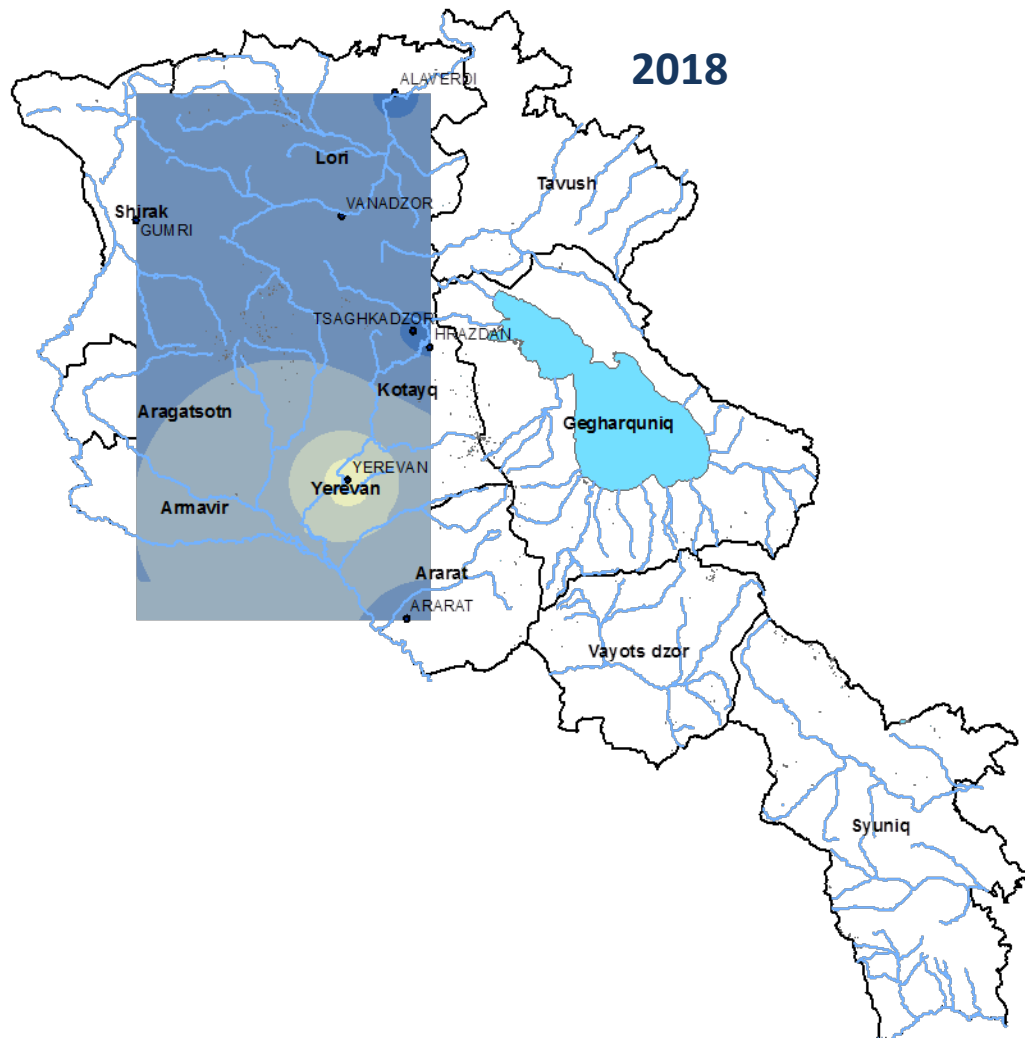
**2013**

**2018**

Filled Contours



1. Alaverdi
2. Ararat
3. Gyumri
4. Hrazdan
5. Tsaghkadzor
6. Vanadzor
7. Yerevan



## Composite indicator web application

[https://fvidoli.shinyapps.io/compind\\_app/](https://fvidoli.shinyapps.io/compind_app/)



## Standardization & Normalization *manual*

N	Indicators
1	Mortality rate attributed to unsafe water, unsafe sanitation and lack of hygiene
2	Mortality rate attributed to household and ambient air pollution
3	Mortality rate attributed to unintentional poisoning
4	Number of deaths, missing persons and directly affected persons attributed to social-biological emergency situations
5	Number of deaths, missing persons and directly affected persons attributed to natural disasters
6	Number of deaths, missing persons and directly affected persons attributed to man-caused disasters
7	Proportion of population using safely managed drinking water services
8	Proportion of population using safely managed sanitation services / Centralized sanitation compound
9	Proportion of population using safely managed sanitation services /Local sanitation compound /hole with waste products/
10	Proportion of population using safely managed sanitation services /Outside toilet
11	Proportion of population using safely managed garbage evacuation services
12	Proportion of population having any complaints about "Noise from neighbors and from outside"
13	Proportion of population having any complaints about "Heavy traffic"
14	Proportion of population having any complaints about "industrial pollution"
15	Proportion of population having any complaints about "Bad water supply"
16	Proportion of population having any complaints about "Bad garbage evacuation"
17	Proportion of population having any complaints about "Lack of green areas" garbage evacuation

ind	1	Rate per 100 000	2012	2013	2014	2015	2016	2017	2018
1	Yerevan		0.19	0.47	0.56	0.28	0.28	0.00	0.09
2	Aragatsotn		0.00	0.75	0.00	0.00	0.00	0.00	0.00
3	Ararat		0.77	0.38	0.00	0.00	0.00	0.39	0.00
4	Armavir		0.00	0.00	1.50	0.37	0.38	0.00	0.00
5	Gegharkunik		0.00	0.43	0.86	0.00	0.00	0.00	0.00
6	Lori		0.85	0.43	0.44	0.88	1.35	0.46	0.46
7	Kotayk		0.78	0.39	0.39	0.39	0.00	0.00	0.00
8	Shirak		0.40	0.00	0.40	0.41	0.41	0.00	0.00
9	Sjunik		0.00	0.00	0.00	0.00	0.72	0.00	0.00
10	Vayots Dzor		0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	Tavush		0.00	0.78	0.00	0.00	0.00	0.81	0.00

Compind web app

The screenshot shows the 'Compind web app' interface with the following steps:

1. Load data: A dropdown menu is set to 'None'.
2. Choose indicators: A search bar is present.
3. Impute missing data: A dropdown menu is set to 'None'.
4. Choose standardization: A dropdown menu is set to 'None'.
5. Choose method: A dropdown menu is set to 'Factor'.

Navigation tabs at the top include: Input data, Interpolation, Standardization, Summary, Results, Explore, About & Help. The 'Input data' tab is active, showing 'Input selected data'.

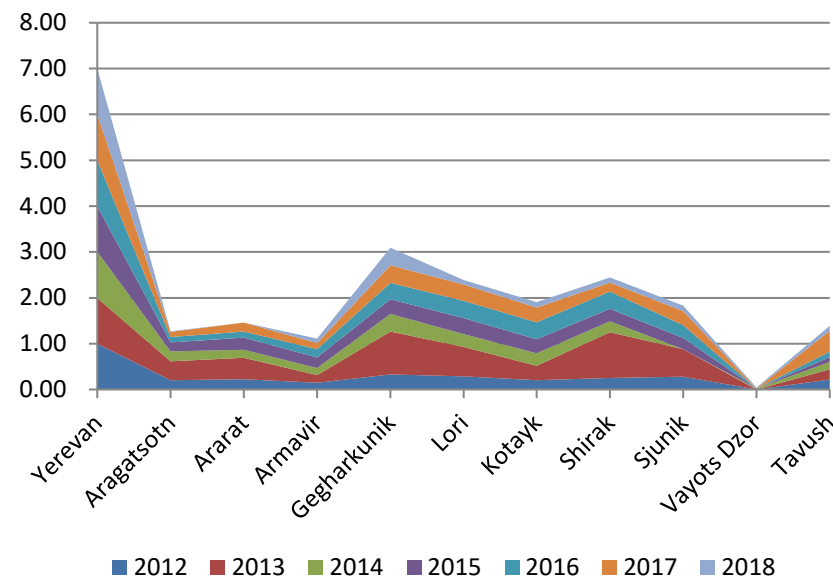


## Factor Analysis / Normalization

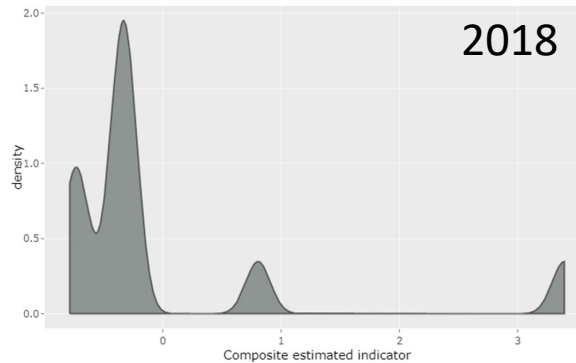
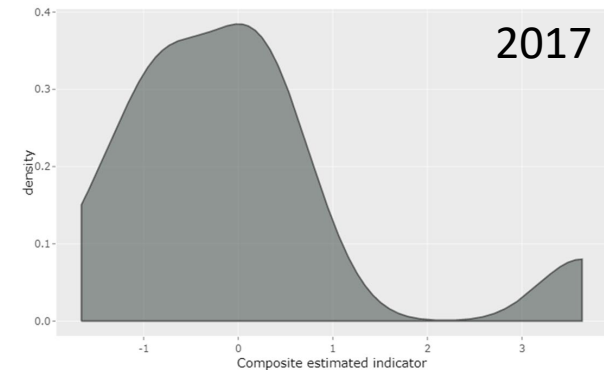
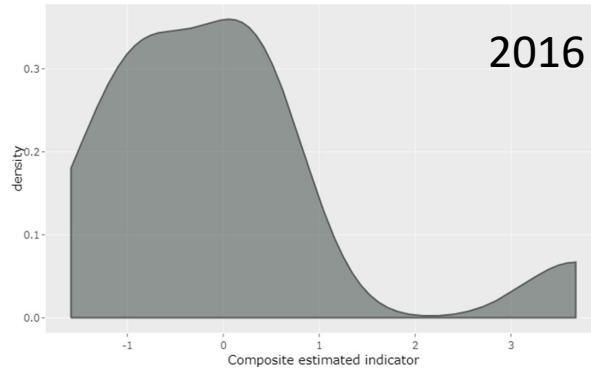
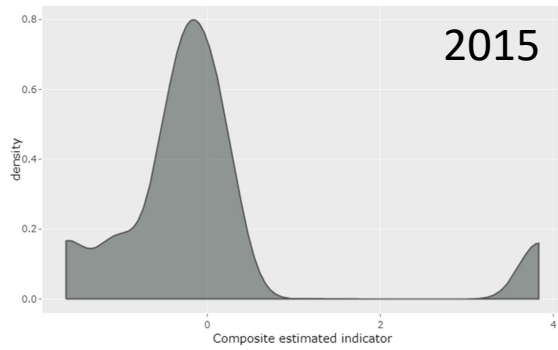
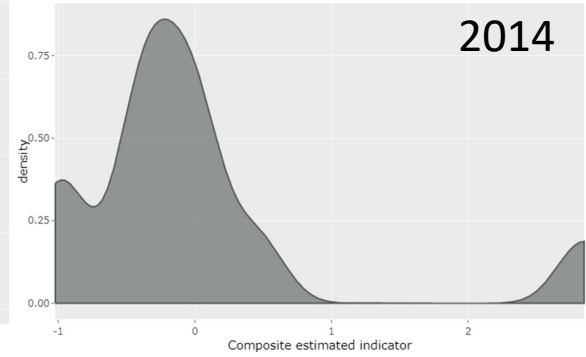
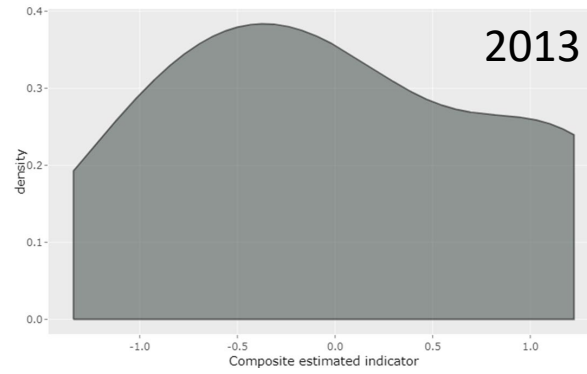
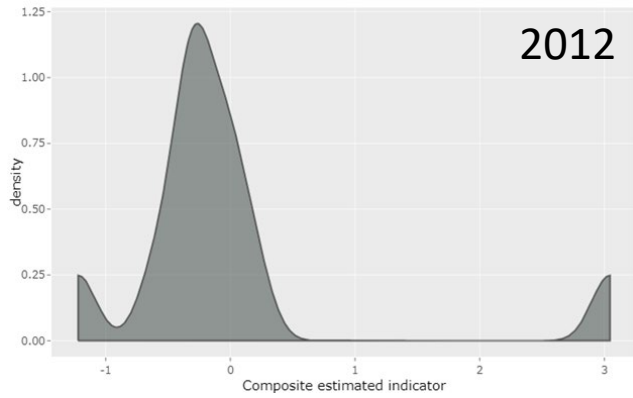
2012	ind1	ind2	ind3	ind4	ind5	ind6	ind7	ind8	ind9	ind10	ind11	ind12	ind13	ind14	ind15	ind16	ind17	Factor analysis CI	2012 Normalization
Yerevan	0.22	0.72	0.02	1	0	1	0.58	0.27	1	1	0.49	0.81	0.61	1	0.14	0.13	0.59	3.05	1.00
Aragatsotn	0	0.81	0	0.27	1	0.2	0.58	1	0.02	0.07	1	0.02	0	0.13	0.53	0.28	0.25	-0.34	0.21
Ararat	0.9	0.84	0	0.41	0	0.09	0.58	0.79	0.01	0.06	0.58	0.39	0	0	0.81	0.54	0.68	-0.26	0.22
Armavir	0	0.77	0.1	0.55	0	0.25	0.61	0.74	0.01	0.07	0.52	0.02	0	0	0.63	0.12	0.45	-0.60	0.15
Gegharkunik	0	0.85	0.22	0.07	0.19	0.4	0.62	0.73	0.01	0.08	0.65	1	0.07	0	0.94	0.56	1	0.19	0.33
Lori	1	1	0	0.2	0.19	0.11	0.62	0.58	0.03	0.09	0.67	0.07	0.18	0.33	0.49	0.05	0.78	0.01	0.29
Kotayk	0.92	0.71	0	0.49	0	0.14	0.58	0.35	0.02	0.14	0.5	0.16	0	0.15	0.37	0.17	0.51	-0.37	0.20
Shirak	0.47	0.87	0.42	0.25	0.18	0.27	0.58	0.4	0.02	0.16	0.66	0.02	0	0	1	1	0.83	-0.15	0.25
Sjunik	0	0.57	0	0.01	0	0.03	0.59	0.33	0.03	0.21	0.54	0.45	1	0.58	0.49	0.26	0.38	-0.02	0.28
Vayots Dzor	0	0.53	1	0.28	0	0.51	0.58	0.54	0.06	0.09	0.83	0.15	0	0	0.17	0.1	0.11	-1.22	0.00
Tavush	0	0.99	0.2	0.05	0	0.28	1	0.83	0.01	0.07	0.77	0.07	0	0.02	0.95	0.67	0.38	-0.29	0.22

## Composite indicator

	2012	2013	2014	2015	2016	2017	2018
Yerevan	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Aragatsotn	0.21	0.41	0.22	0.20	0.12	0.11	0.01
Ararat	0.22	0.47	0.17	0.27	0.13	0.19	0.00
Armavir	0.15	0.17	0.15	0.23	0.18	0.13	0.09
Gegharkunik	0.33	0.93	0.38	0.32	0.36	0.38	0.38
Lori	0.29	0.64	0.28	0.35	0.38	0.36	0.10
Kotayk	0.20	0.32	0.27	0.30	0.37	0.32	0.12
Shirak	0.25	1.00	0.24	0.27	0.37	0.19	0.11
Sjunik	0.28	0.60	0.00	0.24	0.28	0.30	0.12
Vayots Dzor	0.00	0.00	0.02	0.00	0.00	0.00	0.02
Tavush	0.22	0.22	0.16	0.10	0.12	0.45	0.11



## Distribution of the estimated Composite Indicators



Thank you

