

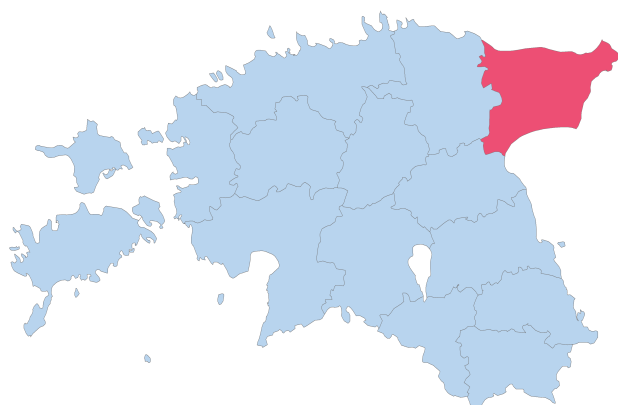
## Overview of health and wellbeing

# IDA-VIRU COUNTY

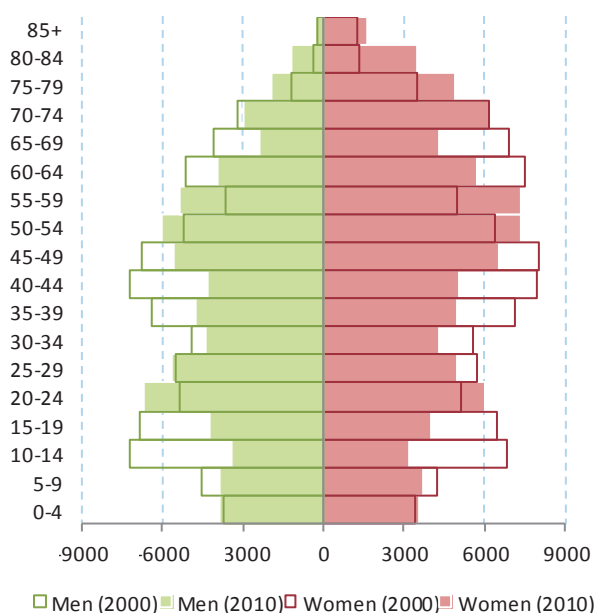
This document summarizes selected data on health and wellbeing in the county. The aim is to present comparable and standardized health indicators. This information gives input to the regional planning of services for improving the health and wellbeing of inhabitants.

It is compiled by specialists of National Institute for Health Development, in collaboration with Ministry of Social Affairs and Statistics Estonia.

Additional information about the data used in the overview can be found online at: [www.terviseinfo.ee/maakonnatervis](http://www.terviseinfo.ee/maakonnatervis)



### STRUCTURE OF IDA-VIRU COUNTY'S POPULATION



**Population:** 155 897 (01.01.2011)

**Percentage of Estonian population:** 12 %

**Area:** 3364,05 km<sup>2</sup>

**Population density:** 47,1 inhabitants per km<sup>2</sup>

**County centre:** Jõhvi (10 759 inhabitants)

**Municipalities:** 22, incl. 6 urban and 16 rural

**Economic activity:** electricity manufacturing, oil shale chemistry industry, light industry, timber, building materials and metal industry

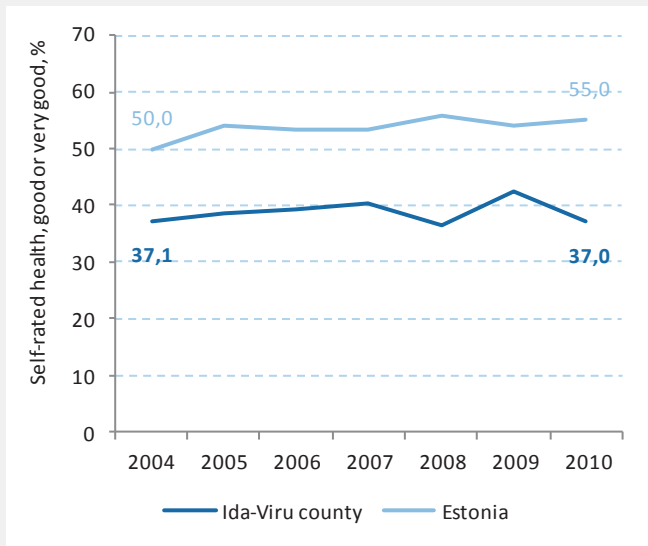
### POSITIVE DEVELOPMENTS

- At-risk-of-poverty rate has decreased during last years
- Early mortality rate (deaths before the age of 65) has decreased during last years
- The lowest incidence rate of cancer (in Estonia)
- Below average proportion of overweight school-children
- The lowest rate of regular alcohol consumers in Estonia
- Below average rate of deaths and injuries caused by driving under the influence
- Below average rate of severe work-related accidents

### CHALLENGES

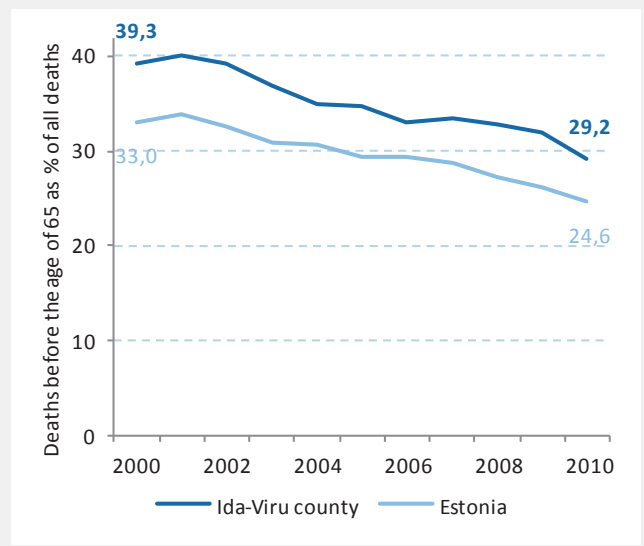
- The lowest life expectancy at birth in Estonia
- The lowest rate of natural increase in Estonia
- The highest at-risk-of-poverty rate in Estonia and low employment rate
- The highest burden of disease (including highest rate of years of life lost due to mortality)
- The highest early mortality rate (before the age of 65)
- The highest incidence rate of diseases of circulatory system
- Above average mortality due to external causes
- Highest incidence rate of hepatitis, tuberculosis and sexually transmitted diseases (including HIV) in Estonia

### Self-rated health (good and very good)



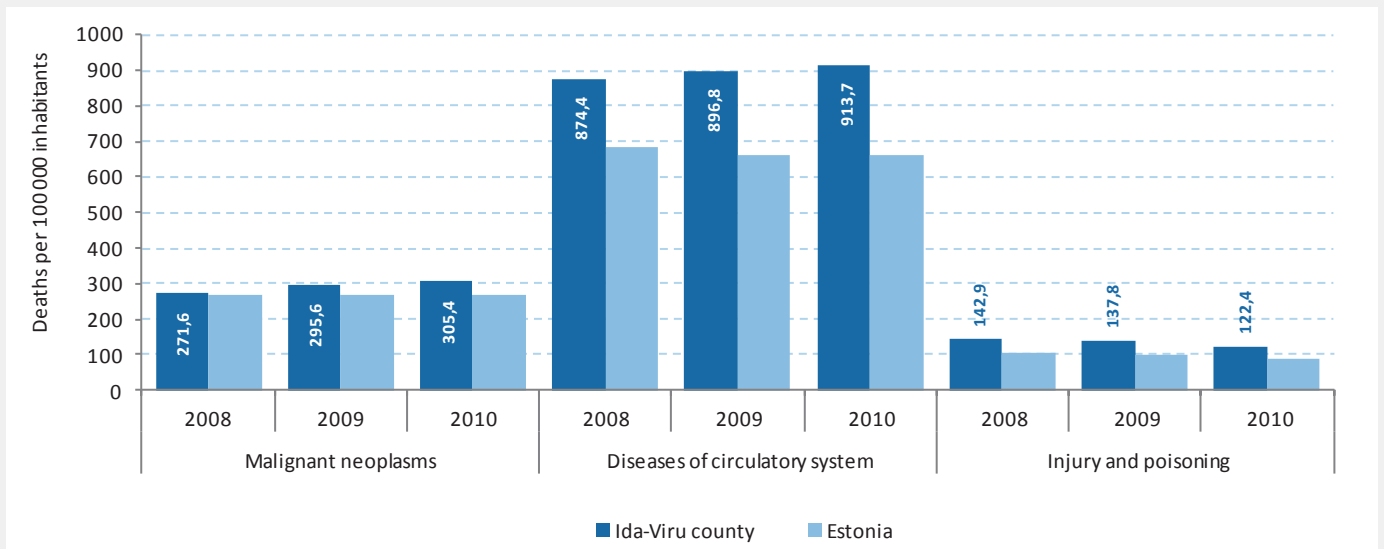
Source: Statistics Estonia

### Deaths before the age of 65 years



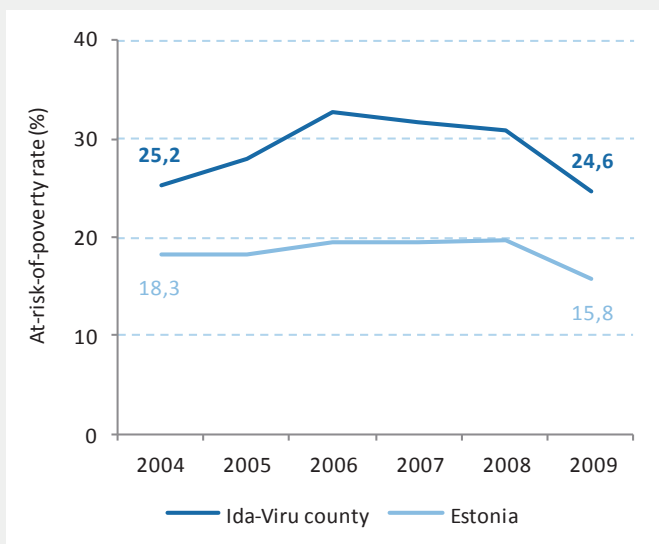
Source: Statistics Estonia

### Deaths due to malignant neoplasms, diseases of circulatory system, and injury and poisoning



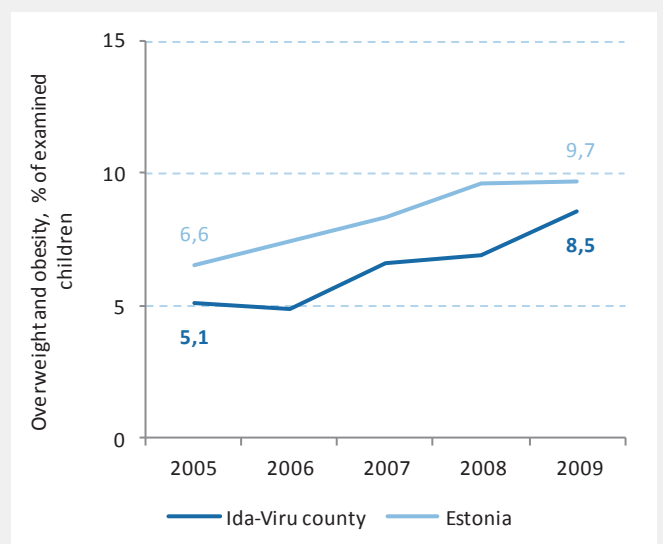
Source: Causes of Death Registry, National Institute for Health Development

### At-risk-of-poverty rate



Source: Statistics Estonia

### Overweight and obese children



Source: Estonian Health Insurance Fund

## Administrative capacity of the municipalities

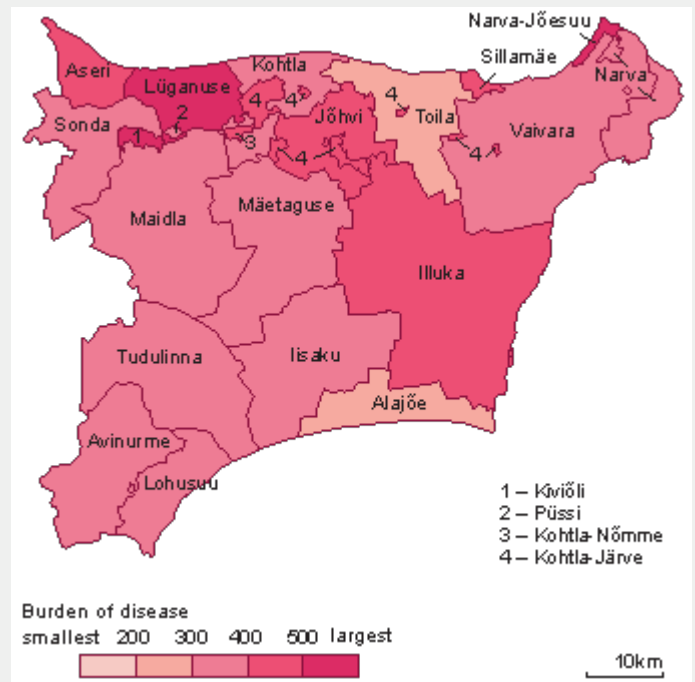


The index of administrative capacity is calculated using 26 indicators from six domains: population and area of the municipality, strength and diversity of local economy, wellbeing of inhabitants of the municipality, financial situation of the municipality, strength of the municipality's administration, and volume and diversity of the municipality's public services.

Administrative capacity of a municipality is expressed both in administrative ability and the general results of the administration on the territory of municipality. The map shows the index of administrative capacity in municipalities, average for the years 2006-2009.

Source: Geomedia, Ministry of the Interior

## Burden of disease in the municipalities

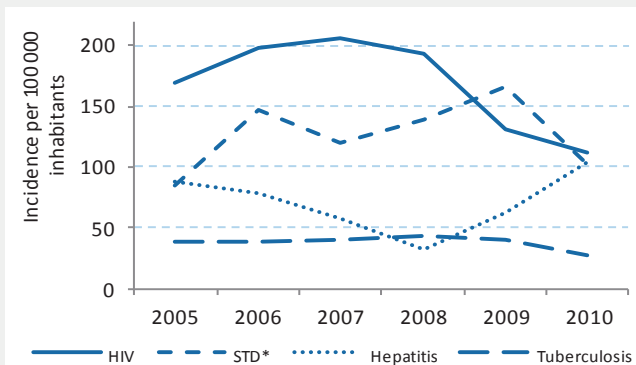


Burden of disease is calculated based on morbidity and mortality statistics; in addition the gravity of disease and people's age at the time of death are taken into account.

Burden of disease indicates how many years of life inhabitants have lost due to diseases and mortality. These are life years that people could have lived healthily, if there had not been the disease or death. Burden of disease is used as an indicator for comparing regions to each other or mapping the developments in time. The map shows years of life lost per 1000 inhabitants in 2006.

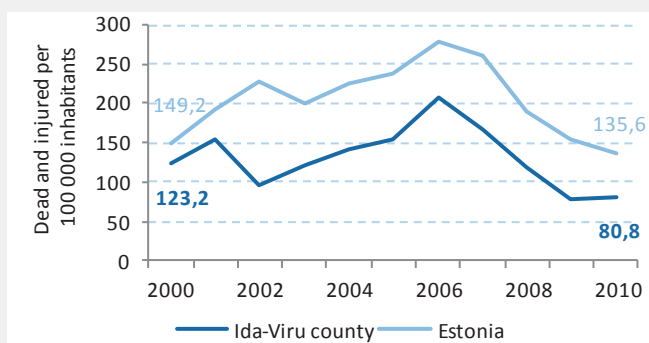
Source: Ministry of Social Affairs

## Incidence of communicable diseases in the county



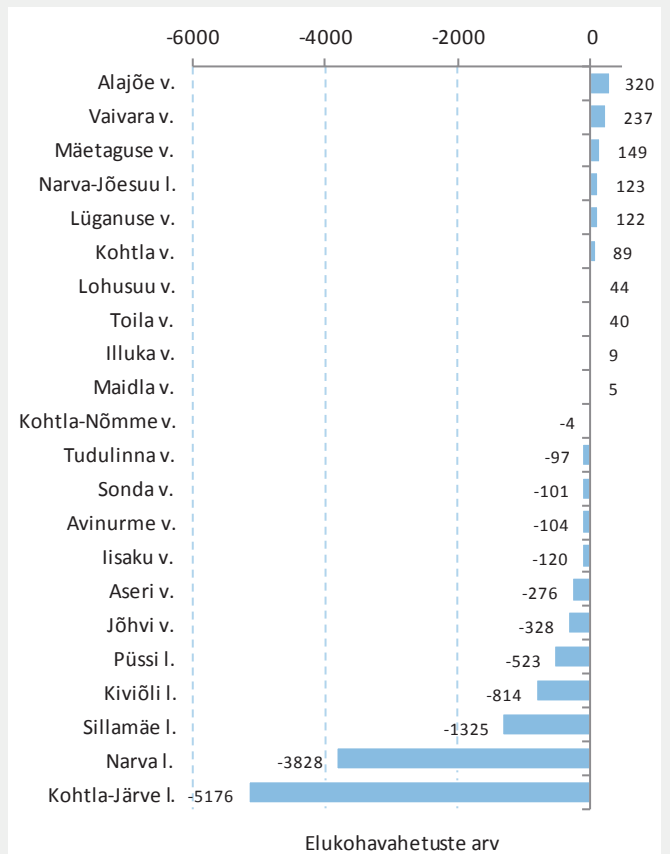
Source: Health Board, Tuberculosis Registry, National Institute for Health Development \* STD— other sexually transmitted diseases

## Deaths and injuries due to traffic accidents



Source: Road Administration

## Sum of 2001-2010 net migration in municipalities \*



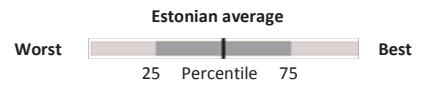
Source: Statistics Estonia \* - municipalities of the county. l—town, v—parish



# Ida-Viru county

The graph compares health indicators in the county to Estonian average. Position of the county, compared to Estonian average is indicated by coloured spot, gray area depicts the distribution of the rest of the counties.

- Better than Estonian average
- No difference from Estonian average
- Worse than Estonian average



| Domain                     | Indicator  | Ida-Viru county |          | Estonian average | Estonian worst | Position to Estonian average          | Estonian best |
|----------------------------|--|-----------------|----------|------------------|----------------|---------------------------------------|---------------|
|                            |  | Number          | Rate / % |                  |                |                                       |               |
| Population and Social Life | <b>1</b> Natural increase                                | -1070           | -6,7     | -0,2             | -6,7           | <span style="color: red;">●</span>    | 4,6           |
|                            | <b>2</b> Net migration                                   | -1112           | -6,9     | -1,0             | -12,8          | <span style="color: red;">●</span>    | 6,0           |
|                            | <b>3</b> Proportion of the elderly (aged 65+) (%)        | ..              | 18,5     | 17,2             | 20,5           | <span style="color: yellow;">●</span> | 15,2          |
|                            | <b>4</b> Proportion of young people (aged 0-14) (%)      | ..              | 13,6     | 15,2             | 13,3           | <span style="color: red;">●</span>    | 17,2          |
|                            | <b>5</b> Life expectancy at birth                        | 72              | 72,3     | 75,8             | 72,3           | <span style="color: red;">●</span>    | 76,9          |
|                            | <b>6</b> Employment rate (%)                             | ..              | 53,6     | 62,7             | 48,1           | <span style="color: red;">●</span>    | 68,6          |
|                            | <b>7</b> Average monthly gross salary (eur)              | 660             | 660,2    | 792,3            | 594,1          | <span style="color: red;">●</span>    | 901,2         |
|                            | <b>8</b> At-risk-of-poverty rate (%)                     | ..              | 24,6     | 15,8             | 24,7           | <span style="color: red;">●</span>    | 9,5           |
|                            | <b>9</b> Violent offences                                | 767             | 4,8      | 4,4              | 6,6            | <span style="color: yellow;">●</span> | 2,2           |
|                            | <b>10</b> Air pollution                                  | 14802           | 93,4     | 14,3             | 93,4           | <span style="color: red;">●</span>    | 1,4           |
| Health Behaviour           | <b>11</b> Regular alcohol consumption (%)                | ..              | 14,1     | 20,9             | 30,3           | <span style="color: green;">●</span>  | 14,1          |
|                            | <b>12</b> Overweight and obesity, adults (%)             | ..              | 54,6     | 49,1             | 58,3           | <span style="color: red;">●</span>    | 42,6          |
|                            | <b>13</b> Overweight and obesity, children (%)           | ..              | 8,1      | 9,8              | 11,6           | <span style="color: green;">●</span>  | 6,3           |
|                            | <b>14</b> Daily smokers (%)                              | ..              | 29,8     | 27,4             | 36,9           | <span style="color: yellow;">●</span> | 18,2          |
|                            | <b>15</b> Smoking while pregnant (%)                     | 177             | 13,0     | 8,4              | 17,7           | <span style="color: red;">●</span>    | 4,6           |
|                            | <b>16</b> Teenage (15-17 years) pregnancies              | 61              | 23,9     | 23,3             | 31,4           | <span style="color: yellow;">●</span> | 17,1          |
| Healthcare                 | <b>17</b> Health insurance coverage (%)                  | 80973           | 86,6     | 87,7             | 83,3           | <span style="color: red;">●</span>    | 89,2          |
|                            | <b>18</b> General practitioners                          | 101             | 59,7     | 62,1             | 47,5           | <span style="color: yellow;">●</span> | 79,7          |
|                            | <b>19</b> Long-term care beds                            | 175             | 595,3    | 682,8            | 0,0            | <span style="color: yellow;">●</span> | 1178,7        |
| Health Status              | <b>20</b> Incidence of malignant neoplasms               | 681             | 397,7    | 506,2            | 617,6          | <span style="color: green;">●</span>  | 397,7         |
|                            | <b>21</b> Incidence of tuberculosis                      | 59              | 36,8     | 23,5             | 36,8           | <span style="color: red;">●</span>    | 3,5           |
|                            | <b>22</b> Incidence of A, B and C-hepatitis              | 105             | 65,7     | 23,6             | 65,7           | <span style="color: red;">●</span>    | 2,0           |
|                            | <b>23</b> Sexually transmitted diseases (incl HIV)       | 452             | 281,6    | 213,7            | 287,5          | <span style="color: yellow;">●</span> | 21,1          |
|                            | <b>24</b> Lyme disease                                   | 44              | 27,2     | 124,1            | 1461,0         | <span style="color: yellow;">●</span> | 27,2          |
|                            | <b>25</b> Tick-borne viral encephalitis                  | 18              | 11,2     | 11,8             | 51,1           | <span style="color: yellow;">●</span> | 3,7           |
|                            | <b>26</b> Self-rated health, good or very good (%)       | ..              | 37,0     | 55,0             | 30,5           | <span style="color: red;">●</span>    | 62,7          |
|                            | <b>27</b> Limitations due to health problems (%)         | ..              | 33,8     | 30,2             | 57,0           | <span style="color: yellow;">●</span> | 24,0          |
| Mortality                  | <b>28</b> Burden of disease                              | 70409           | 42204,2  | 35597,1          | 42204,2        | <span style="color: red;">●</span>    | 31714,0       |
|                            | <b>29</b> Years of life lost                             | 40603           | 24659,4  | 18739,6          | 24659,4        | <span style="color: red;">●</span>    | 15654,3       |
|                            | <b>30</b> Years of life lived with disability            | 29806           | 18353,8  | 17032,8          | 21772,3        | <span style="color: yellow;">●</span> | 13344,4       |
|                            | <b>31</b> Deaths at age 0-9 years                        | 14              | 91,6     | 66,7             | 98,6           | <span style="color: red;">●</span>    | 0,0           |
|                            | <b>32</b> Deaths under the age of 65                     | 783             | 601,1    | 385,0            | 601,1          | <span style="color: red;">●</span>    | 288,4         |
|                            | <b>33</b> Deaths due to diseases of circulatory system   | 1435            | 541,5    | 427,9            | 541,5          | <span style="color: red;">●</span>    | 378,4         |
|                            | <b>34</b> Deaths due to malignant neoplasms              | 466             | 184,2    | 187,6            | 222,7          | <span style="color: yellow;">●</span> | 165,5         |
|                            | <b>35</b> Deaths due to injury and poisoning             | 216             | 114,5    | 85,8             | 117,7          | <span style="color: red;">●</span>    | 62,6          |
|                            | <b>36</b> Deaths due to fires                            | 13              | 7,9      | 5,6              | 11,1           | <span style="color: red;">●</span>    | 2,8           |
|                            | <b>37</b> Deaths due to alcohol-related diseases (men)   | 61              | 85,4     | 69,3             | 107,1          | <span style="color: red;">●</span>    | 47,9          |
|                            | <b>38</b> Deaths due to alcohol-related diseases(women)  | 30              | 33,9     | 20,4             | 34,7           | <span style="color: red;">●</span>    | 5,7           |
|                            | <b>39</b> Alcohol-related injuries and deaths in traffic | 26              | 16,4     | 29,4             | 86,4           | <span style="color: yellow;">●</span> | 11,5          |
|                            | <b>40</b> Serious and deadly work-related accidents      | 53              | 83,2     | 126,5            | 258,1          | <span style="color: green;">●</span>  | 46,0          |

## Notes (number in bold refers to the indicator in the table above)

**1** crude rate of natural increase per 1000 population 2008-2010. **2** net migration per 1000 population 2008-2010. **3** elderly (65+ years old) people, % of total population 2010. **4** young (0-14 years old) people, % of total population 2010. **5** estimated years left to live at the age of 0, 2009/2010. **6** crude rate per 1000 population aged 16– retirement 2010. **7** average gross salary in euros 2010. **8** % of people whose income is below poverty line 2009. **9** violent offences per 1000 population 2008-2010. **10** air pollution from stationary sources of pollution: tons of particulates (PM-10) per 1000 population 2010. **11** alcohol consumption, at least 1-2 times per week, % of respondents 2006. **12** % of overweight and obese (with BMI>25) of respondents 2006. **13** % of overweight and obese schoolchildren, % of examined by school nurses 2009-2010 1st half-year. **14** % of daily smokers of population aged 16+ 2006. **15** % of mothers smoking in pregnancy 2008-2010. **16** teenage (15-17years) pregnancies per 1000 women of same age 2008-2010. **17** health insurance coverage, % of people aged 20-59 insured, average of quarters 2010. **18** full-time equivalent employment of general practitioners per 100 00 population 2009. **19** long-term care beds per 100 000 population aged 65+ 2010. **20** incidence of malignant neoplasms per 100 000 total population 2007. **21** incidence of tuberculosis per 100 000 total population 2008-2010. **22** incidence of A, B and C-hepatitis per 100 000 total population 2008-2010. **23** incidence of sexually transmitted diseases per 100 000 total population 2008-2010. **24** incidence of Lyme disease per 100 000 total population 2008-2010. **25** incidence of tick-borne viral encephalitis per 100 000 total population 2008-2010. **26** self-rated health, good or very good, % of respondents 2010. **27** % of respondents with limitations of everyday life due to health problems (somewhat or greatly limited) 2010. **28** years of life lost due to morbidity and mortality per 100 000 total population 2006. **29** years of life lost due to mortality per 100 000 total population 2006. **30** years of life lost due to morbidity per 100 000 total population 2006. **31** deaths of 0-9 year-old children per 100 000 population aged 0-9 2008-2010. **32** premature deaths (before 65) per 100 000 population aged 65+ 2008-2010. **33** standardized mortality rate due to diseases of the circulatory system per 100 000 total population 2008-2010. **34** standardized mortality rate due to malignant neoplasms per 100 000 total population 2008-2010. **35** standardized mortality rate due to injury and poisoning per 100 000 total population 2008-2010. **36** deaths due to fires per 100 000 total population 2008-2010. **37** deaths due to alcohol-related diseases per 100 000 men 2008-2010. **38** deaths due to alcohol-related diseases per 100 000 women 2008-2010. **39** injuries and deaths in traffic accidents with drunk drivers per 100 000 total population 2008-2010. **40** serious and deadly work-related accidents per 100 000 employed 2008-2010.

**Data sources:** 1-10, 26-27, 31-32 Statistics Estonia; 11-12, 14-16, 18-21, 33-35, 37-38 National Institute for Health Development; 13, 17 Estonian Health Insurance Fund; 22-25 Health Board; 28-30 Ministry of Social Affairs; 36 Estonian Rescue Board; 39 Estonian Road Administration; 40 The Labour Inspectorate. **Additional information:** <http://www.terviseinfo.ee/maakonnatervis> **Prototype of the graph:** West Midlands Public Health Observatory (United Kingdom)