City fact sheets

WHO European Healthy Cities Network





REGIONAL OFFICE FOR **Europe**

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WHO European Healthy Cities Network

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Abstract

This publication is a compilation of facts about cities that were members of the WHO European Healthy Cities Network in Phase V. It includes data on population, economic stability, city twinning, activity and longevity in the Network and core city data on determinants of health.

Keywords

URBAN HEALTH DATA HEALTHY CITIES INDICATORS NETWORKS

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Rennes, France
Rijeka, Croatia
Rotterdam, Netherlands
Samara, Russian Federation
San Fernando, Spain
San Sebastián, Spain
Sandnes, Norway
Sant Andreu de la Barca, Spain
Sarajevo, Bosnia and Herzegovina
Seixal, Portugal
Sheffield, United Kingdom
St Petersburg, Russian Federation
Stavropol, Russian Federation
Stockholm, Sweden
Stoke-on-Trent, United Kingdom
Sunderland, United Kingdom
Swansea, United Kingdom
Trabzon, Turkey
Turin, Italy
Turku, Finland
Udine, Italy
Ulyanovsk, Russian Federation
Veliky Ustyug, Russian Federation
Venice, Italy
Viana do Castelo, Portugal
Vienna, Austria
Villanueva de la Cañada, Spain
Vitoria-Gasteiz, Spain
Warsaw, Poland
Waterford, Ireland
Yalova, Turkey
Zagreb, Croatia

Introduction

Many European cities seek to be designated by the WHO Regional Office for Europe as members for each phase of the WHO European Healthy Cities Network. Applying for designation requires compiling evidence of practical and political commitments to prerequisites, processes and outcomes of a healthy city. One such commitment is participating in evaluation exercises. These evaluations take into account what members of the WHO European Healthy Cities Network do regarding these prerequisites, processes and outcomes.

The overall goal of the WHO European Healthy Cities Network, throughout the phases, has been to put health high on social and political agendas. Evidence continues to accumulate that this is in fact the case. The result of that evidence leads to the production of a range of materials: guidebooks, evidence reviews, scientific articles, tools and expert peer support. Most of these materials talk about healthy cities at an aggregate level.

It has been recognized that most members of the WHO European Healthy Cities Network want to know how they perform in comparison to other members. Throughout the history of the movement, this comparative endeavour has been reflected in the production of case studies. These have been presented at business meetings and international conferences and have been published as books and on the Internet.

Further, early in the evolution of the WHO European Healthy Cities Network, it was recognized that the availability of quantitative information is important for developing city health profiles and city health development plans. Over time, great efforts have been made to accumulate data. This has happened with varying degrees of success.

In the process of evaluating Phase V, the evaluation team considered that it would be possible to access standard quantitative data on members of the WHO European Healthy Cities Network from existing sources and to connect this information with data gathered through questionnaires, case studies and the compulsory annual reporting template. The team accessed European databases, notably from Eurostat and the Organisation for Economic Cooperation and Development (OECD), to data mine information on several key indicators that are important to achieving healthy cities. Eurostat and OECD do not cover all European Member States of WHO, and the team sought to identify similar databases in countries not covered. The team identified data at NUTS 3 levels (NUTS stands for Nomenclature of Territorial Units for Statistics of the European Union, and level 3 covers local government areas). The team shared its data sets with individual cities for validation and clarification.

This publication represents this effort and reflects on some basic facts for members of the WHO European Healthy Cities Network at the end of Phase V. It should be seen as a living document as understanding of health data continues to grow, and healthy cities are among the most dynamic environments on earth. Feedback and corrections are most welcome.

Amaroussion, Greece







Twin cities with, since:

- Faenza, Italy
- Nis, Serbia
- Lakatamia, Cyprus

	Core data				
•	Health indicator	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network		
	Mortality				
	Crude mortality per 1000 inhabitants: <i>not available</i>	8.8	9.3		
•	Environmental indicators				
	Air quality				
	Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : not available	12	7		
	Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 μ g/m ³ : not available	0	0		
	Number of days annually particulate matter (PM_{10}) concentrations exceed 50 µg/m ³ : not available	21	20		
	Number of days annually particulate matter (PM $_{_{2.5}}$) concentrations exceed 50 µg/m ³ : not available	Not available	17		
	Water quality				
	Percentage of water pollutants removed from sewage produced: not available	100	96		
	Waste				
	Municipal waste generated (domestic and commercial), in thousands of tonnes: not available	66	211		
	Green space in cities				
	Surface area of green spaces in the city – km ² : not available	Not available	34		
	Green space to which the public has access – km ² : not available	Not available	39		
	Healthy transport				
	Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90		
	Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14		
0	Social indicator				
	Unemployment				
	Unemployed people as % of the economically active population: not available	9.4	10.5		
-	ther information: http://ap.uikip.dia.org/uiki/MargueiCallery		J		

Further information: http://en.wikipedia.org/wiki/MarousiGallery http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Arezzo, Italy







Twin cities with, since:

- Bedford, United Kingdom
- Viseu, Portugal
- Montenars, Italy, 1977
- Saint-Priest, France, 1981

- Eger, Hungary, 1989
 Jaen, Spain, 2006
 Norman, OK, United States, 2009
 Oswiecim, Poland, 2009
- Mount Pleasant, MI, United States, 2010

Core data

			and the second second
0	Health indicator	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
	Mortality		CITIES NELWORK
	Crude mortality per 1000 inhabitants: not available	8.8	9.3
•	Environmental indicators		
	Air quality		
	Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : not available	12	7
	Number of days annually nitrogen dioxide (NO2) concentrations exceed 200 µg/m3: not available	0	0
	Number of days annually particulate matter (PM_{10}) concentrations exceed 50 µg/m ³ : not available	21	20
	Number of days annually particulate matter ($PM_{2.5}$) concentrations exceed 50 µg/m ³ : not available	Not available	17
	Water quality		
	Percentage of water pollutants removed from sewage produced: not available	100	96
	Waste		
	Municipal waste generated (domestic and commercial), in thousands of tonnes: not available	66	211
	Green space in cities		
	Surface area of green spaces in the city – km ² : not available	Not available	34
	Green space to which the public has access – km ² : not available	Not available	39
	Healthy transport		
	Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90
	Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
	Social indicator		
-			
	Unemployment		
	Unemployed people as % of the economically active population: not available	9.4	10.5

Further information: http://en.wikipedia.org/wiki/Arezzo http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Aydın, Turkey





ELF

- Bugulma, Russian Federation
- Le Havre, France
- Montereau-Fault-Yonne, France
- Manchester, United Kingdom

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$\overline{\boldsymbol{\mathcal{C}}}$	ле	00		$\lambda \equiv$

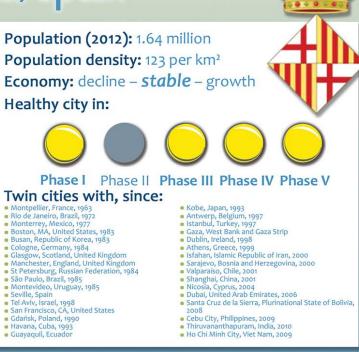
Health indicator Mortality	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
Crude mortality per 1000 inhabitants: <i>not available</i>	8.8	9.3
Environmental indicators		
Air quality		
Number of days annually ozone (O ₃) concentrations exceed 120 µg/m ³ : not available	12	7
Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 μ g/m ³ : not available	0	0
Number of days annually particulate matter (PM $_{_{10}}$) concentrations exceed 50 µg/m 3 : not available	21	20
Number of days annually particulate matter (PM _{2.5}) concentrations exceed 50 µg/m ³ : not available	Not available	17
Water quality		
Percentage of water pollutants removed from sewage produced: not available	100	96
Waste		
Municipal waste generated (domestic and commercial), in thousands of tonnes: not available	66	211
Green space in cities		
Surface area of green spaces in the city – km ² : not available	Not available	34
Green space to which the public has access – km ² : not available	Not available	39
Healthy transport		
Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90
Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
Social indicator		
Unemployment		
Unemployed people as % of the economically active population: not available	9.4	10.5

Further information: http://www.aydin.bel.tr

http://www.aydin.bei.tr http://en.wikipedia.org/wiki/Aydin http://data.worldbank.org

Barcelona, Spain





Core data

•	Health indicator	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
	Mortality		
	Crude mortality per 1000 inhabitants: 9.8 (2012)	8.8	9.3
0	Environmental indicators		
	Air quality		
	Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : 2 (2011)	12	7
	Number of days annually nitrogen dioxide (NO $_2$) concentrations exceed 200 µg/m ³ : 0 (2011)	0	0
	Number of days annually particulate matter (PM_{10}) concentrations exceed 50 µg/m ³ : 3 (2011)	21	20
	Number of days annually particulate matter ($PM_{2.5}$) concentrations exceed 50 µg/m ³ : 3 (2011)	Not available	17
	Water quality		
	Percentage of water pollutants removed from sewage produced: not available	100	96
	Waste		
	Municipal waste generated (domestic and commercial), in thousands of tonnes: not available	66	211
	Green space in cities		
	Surface area of green spaces in the city – km²: 36 (2009)	Not available	34
	Green space to which the public has access – km ² : 11 (2009)	Not available	39
	Healthy transport		
	Length of cycling network (dedicated cycle paths and lanes) – km: 189 (2014) estimated	73	90
	Percentage of commuting trips by public transport (rail, metro, bus, tram): 33 (2012)	15	14
•	Social indicator		
	Unemployment		
	Unemployed people as % of the economically active population: 19.7 (2014)	9.4	10.5

Further information: www.barcelona.cat/healthycity

http://en.wikipedia.org/wiki/Barcelona http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Belfast, United Kingdom



Population (2012): 268 000 Population density: *not available* Economy: decline – stable – growth Healthy city in:



Twin cities with, since:

- Bonn, Germany
- Wonju, Republic of Korea
- Hefei, China
- Belfast, ME, United States
- Nashville, TN, United States
- Cochabamba, Plurinational State of Bolivia

Core data

•	Health indicator Mortality	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
		0.0	
	Crude mortality per 1000 inhabitants: 9.3 (2013)	8.8	9.3
0	Environmental indicators		
	Air quality		
	Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : 0 (2011)	12	7
	Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 μ g/m ³ : o (2011)	0	o
	Number of days annually particulate matter (PM_{10}) concentrations exceed 50 µg/m ³ : 3 (2009)	21	20
	Number of days annually particulate matter (PM _{2.5}) concentrations exceed 50 µg/m ³ : not available	Not available	17
	Water quality		
	Percentage of water pollutants removed from sewage produced: not available	100	96
	Waste		
	Municipal waste generated (domestic and commercial), in thousands of tonnes: 122 (2014)	66	211
	Green space in cities		
	Surface area of green spaces in the city – km²: 11 (2014)	Not available	34
	Green space to which the public has access – km ² : not available	Not available	39
	Healthy transport		
	Length of cycling network (dedicated cycle paths and lanes) – km: 81 (2014)	73	90
	Percentage of commuting trips by public transport (rail, metro, bus, tram): 15 (2011)	15	14
•	Social indicator		
	Unemployment		
	Unemployed people as % of the economically active population: 12.3 (2012)	9.4	10.5
-	ther information: http://www.bolfastcity.gov.uk		

Further information: http://www.belfastcity.gov.uk

http://www.benastcity.gov.uk http://en.wikipedia.org/wiki/Belfast http://www.detini.gov.uk/ladb_2012__final_.pdf?rev=0 http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Bologna, Italy





 Toulouse, France, 1981 • Tuzla, Bosnia and Herzegovina, 1994 • Valencia, Spain, 1976

• Zagreb, Croatia, 1963

- Coventry, United Kingdom, 1984
 Kharkiv, Ukraine, 1966
- La Plata, Argentina, 1988
- St. Louis, MO, United States, 1987
 Portland, OR, United States, 2003
 Thessaloniki, Greece, 1981

- San Carlos, Nicaragua, 1988 Saint Louis, Senegal, 1991
- Asmara, Eritrea, 1974

Core data

•	Health indicator	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
	Mortality Crude mortality per 1000 inhabitants: 12.7 (2012)	8.8	9.3
	Environmental indicators		,,,
	Air quality		
	Number of days annually ozone (O,) concentrations exceed 120 µg/m³: 70 (2011)	12	7
	Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 µg/m ³ : 0 (2011)	0	0
	Number of days annually particulate matter (PM_{10}) concentrations exceed 50 µg/m ³ : 40 (2011)	21	20
	Number of days annually particulate matter (PM_{10}) concentrations exceed 50 µg/m ³ : 40 (2011)	Not available	17
	Water quality		
	Percentage of water pollutants removed from sewage produced: 79 (2008)	100	9 <mark>6</mark>
	Waste		
	Municipal waste generated (domestic and commercial), in thousands of tonnes: 211 (2010)	66	211
	Green space in cities		
	Surface area of green spaces in the city – km ² : not available	Not available	34
	Green space to which the public has access – km ² : 1366 (2008)	Not available	39
	Healthy transport		
	Length of cycling network (dedicated cycle paths and lanes) – km: 78 (2008)	73	90
	Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
0	Social indicator		
	Unemployment		
	Unemployed people as % of the economically active population: not available	9.4	10.5

Further information: http://www.comune.bologna.it http://en.wikipedia.org/wiki/Bologna http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Brighton, United Kingdom



Population (2012): 254 000 Population density: not available Economy: decline – stable – growth Healthy city in:



Twin cities with, since:

• Draveil, France

	Core data				
•	Health indicator	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network		
	Mortality				
	Crude mortality per 1000 inhabitants: 7.6 (2012) <i>estimated</i>	8.8	9-3		
•	Environmental indicators				
	Air quality				
	Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : 9 (2011)	12	7		
	Number of days annually nitrogen dioxide (NO $_2$) concentrations exceed 200 µg/m ³ : 0 (2011)	0	0		
	Number of days annually particulate matter (PM_{10}) concentrations exceed 50 µg/m ³ : not available	21	20		
	Number of days annually particulate matter ($PM_{_{2.5}}$) concentrations exceed 50 µg/m ³ : not available	Not available	17		
	Water quality				
	Percentage of water pollutants removed from sewage produced: not available	100	96		
	Waste				
	Municipal waste generated (domestic and commercial), in thousands of tonnes: not available	66	211		
	Green space in cities				
	Surface area of green spaces in the city – km ² : not available	Not available	34		
	Green space to which the public has access – km ² : not available	Not available	39		
	Healthy transport				
	Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90		
	Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14		
•	Social indicator				
	Unemployment				
	Unemployed people as % of the economically active population: 7.3 (2011)	9.4	10.5		
ur	urther information: http://www.brighton-hove.gov.uk				

http://en.wikipedia.org/wiki/Brighton http://epp.eurostat.ec.europa.eu http://data.worldbank.org

8

Brno, Czech Republic







Vienna, Austria, 1998

• Bratislava, Slovakia, 2012

• Voronezh, Russian Federation, 1967

• Moscow, Russian Federation, 2006

Phase I Phase II Phase IV Phase V Twin cities with, since:

- Dallas, TX, United States, 1991
 Kaunas, Lithuania, 1994
 Kharkiv, Ukraine, 2008
- Leeds, United Kingdom, 2003
- Leipzig, Germany, 1973
 Poznan, Poland, 1966
- Rennes, France, 1965
- Sankt Polten, Austria, 1991
- Stuttgart, Germany, 1989
- Utrecht, Netherlands

Core data

•	Health indicator Mortality	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
	Crude mortality per 1000 inhabitants: 10.2 (2011)	8.8	9.3
•	Environmental indicators		
	Air quality		
	Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : 30 (2013)	12	7
	Number of days annually nitrogen dioxide (NO $_2$) concentrations exceed 200 µg/m ³ : 0 (2013)	0	0
	Number of days annually particulate matter (PM_{10}) concentrations exceed 50 µg/m ³ : 32 (2013)	21	20
	Number of days annually particulate matter ($PM_{_{2.5}}$) concentrations exceed 50 µg/m ³ : 21 (2013)	Not available	17
	Water quality		
	Percentage of water pollutants removed from sewage produced: 94 (2013)	100	96
	Waste		
	Municipal waste generated (domestic and commercial), in thousands of tonnes: 37 (2013)	66	211
	Green space in cities		
	Surface area of green spaces in the city – km²: 178 (2012)	Not available	34
	Green space to which the public has access – km ² : 67 (2012)	Not available	39
	Healthy transport		
	Length of cycling network (dedicated cycle paths and lanes) – km: 29 (2011)	73	90
	Percentage of commuting trips by public transport (rail, metro, bus, tram): 57 (2012)	15	14
	Social indicator		
	Unemployment		
	Unemployed people as % of the economically active population: 8.1 (2013)	9.4	10.5

Further information: Ministry of Labour and Social Affairs of the Czech Republic http://en.wikipedia.org/wiki/Brno

http://epp.eurostat.ec.europa.eu

http://data.worldbank.org

Brussels, Belgium



www.arp-gan.be

http://epp.eurostat.ec.europa.eu

Population (2014): 1.16 million Population density: 7210 per km² Economy: decline - stable - growth Healthy city in:





Twin cities with, since:

- Akhisar, Turkey
 Atlanta, GA, United States
 Beijing, China, 1994
 Berlin, Germany
 Breda, Netherlands
 Kyiv, Ukraine
 Kinshasa, Democratic Republic of the Control of the Congo
 Ljubljana, Slovenia
 Mexico City, Mexico

- Macau, China Madrid, Spain
- Montreal, Canada
- Moscow, Russian Federation
- Sofia, Bulgaria Tirana, Albania
- Washington, DC, United States

Core dato

Health indicator	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
Mortality		
Crude mortality per 1000 inhabitants: 8.1 (2013)	8.8	9.3
Environmental indicators		
Air quality (the mean number of days with exceeded concentrations from six stations in the Brussels region)		
Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : 10 (2011)	12	7
Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 μ g/m ³ : o (2011)	0	0
Number of days annually particulate matter (PM_{10}) concentrations exceed 50 µg/m ³ : 36 (2011)	21	20
Number of days annually particulate matter (PM $_{_{2.5}}$) concentrations exceed 50 µg/m ³ : 178 (2011)	Not available	17
Water quality		
Percentage of water pollutants removed from sewage produced: not available	100	96
Waste		
Municipal waste generated (domestic and commercial), in thousands of tonnes: 519 (2011) estimated	66	211
Green space in cities		
Surface area of green spaces in the city – km²: 57 (2014)	Not available	34
Green space to which the public has access – km ² : 30 (2014)	Not available	39
Healthy transport		
Length of cycling network (dedicated cycle paths and lanes) – km: 292 (2014)	73	90
Percentage of commuting trips by public transport (rail, metro, bus, tram): 50.8 (2011)	15	14
Social indicator		
Unemployment		
Unemployed people as % of the economically active population: 19.3 (2013)	9.4	10.5
Further information: http://www.brussels.be/artdet.cfm?id=4000 www.ibgehim.be		
http://en.wikipedia.org/wiki/Brussels www.mobielbrussel.irisnet.be		
Municipal waste generated (domestic and commercial), in thousands of tonnes: 519 (2011) estimated Green space in cities Surface area of green spaces in the city – km ² : 57 (2014) Green space to which the public has access – km ² : 30 (2014) Healthy transport Length of cycling network (dedicated cycle paths and lanes) – km: 292 (2014) Percentage of commuting trips by public transport (rail, metro, bus, tram): 50.8 (2011) Social indicator Unemployment Unemployed people as % of the economically active population: 19.3 (2013) Further information: http://www.brussels.be/artdet.cfm?id=4000	Not available Not available 73 15	34 39 90 14

www.observatbru.be

http://data.worldbank.org

10

Bursa, Turkey



Population (2012): 2.7 million Population density: 258 per km² Economy: decline - stable - growth Healthy city in:



Phase I Phase II Phase III Phase IV Phase V Twin cities with, since:

Darmstadt, Germany, 1971 Sarajevo, Bosnia and Herzegovina, 1972 Multan, Pakistan, 1975 Oulu, Finland, 1979 Tiffin, O.H. United States, 1983 Kairousan, Tunisia, 1987 Denizil, Turkey, 1986 Lefkosia, Cyprus, 1990 Anshan, China, 1991 Bitola, the former Yugoslav Republic of Macedonia, 1996 Ceadir-Lunga, Republic of Moldova, 1997 Orda, Kazakhstan, 1998 Plevne, Bulgaria, 1998 Pierken, Germany, 1998 Pierken, Kosovo (in accordance with Security Council resolution 1244 (1999)), 2010 Van, Turkey, 2008

BURSA BÜYÜKŞEHİR BELEDİYESİ

- Rabat, Morocco, 2009
 Bakhchysarai, Ukraine, 2010
 Cyeongsangbuk-do, Republic of Korea, 2001
 Mestanii, Bulgaria, 2010
 Mogilev, Belarus, 2013
 Et-Halli, West Bank and Gaza Strip, 2014
 Kinik, Turkey, 2010
 Kuishya, Turkey, 2010
 Bayburt, Turkey, 2010
 Mus, Turkey, 2010
 Bitlifs. Turkey, 2010

- Bitlis, Turkey, 2010
- Bilecik, Turkey, 20

- Vinnitsa, Ukrair :

Core data

	Health indicator Mortality	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
	Crude mortality per 1000 inhabitants: 6.1 (2011)	8.8	9.3
	Environmental indicators		
-			
	Air quality		-
	Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : 0 (2011)	12	7
	Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 μ g/m ³ : 0 (2011)	0	0
	Number of days annually particulate matter (PM $_{10}$) concentrations exceed 50 µg/m ³ : 108 (2011)	21	20
	Number of days annually particulate matter (PM _{2.5}) concentrations exceed 50 µg/m³: not available	Not available	17
	Water quality		
	Percentage of water pollutants removed from sewage produced: 95 (2011)	100	96
	Waste		
	Municipal waste generated (domestic and commercial), in thousands of tonnes: 651 (2011)	66	211
	Green space in cities		
	Surface area of green spaces in the city – km²: 2 (2011)	Not available	34
	Green space to which the public has access – km²: 28 (2011)	Not available	39
	Healthy transport		
	Length of cycling network (dedicated cycle paths and lanes) – km: 59 (2011)	73	90
	Percentage of commuting trips by public transport (rail, metro, bus, tram): 27 (2011)	15	14
0	Social indicator		
	Unemployment		
	Unemployed people as % of the economically active population: 7 (2011)	9.4	10.5

Further information: http://en.bursa.bel.tr

www.tuik.gov.tr

www.havaizleme.gov.tr http://en.wikipedia.org/wiki/Bursa http://data.worldbank.org

Çankaya, Turkey



Population (2012): 1 million CANKAYABELEDIYES Population density: 3100 per km² Economy: decline - stable - growth Healthy city in:



Twin cities with, since:

- North York, CanadaMaykop, Russian Federation
- Athens, Greece
- Kyiv, Ukraine .
- Havana, Cuba
- Seoul, Republic of Korea
- Sükhbaatar, MongoliaBangui, Central African Republic
- Core data

		1
Health indicator	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
Mortality		cides network
Crude mortality per 1000 inhabitants: not available	8.8	9.3
Environmental indicators		
Air quality		
Number of days annually ozone (O ₃) concentrations exceed 120 μ g/m ³ : not available	12	7
Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 μ g/m ³ : not available	0	0
Number of days annually particulate matter (PM $_{_{10}}$) concentrations exceed 50 µg/m 3 : not available	21	20
Number of days annually particulate matter (PM _{2.5}) concentrations exceed 50 µg/m ³ : not available	Not available	17
Water quality		
Percentage of water pollutants removed from sewage produced: not available	100	96
Waste		
Municipal waste generated (domestic and commercial), in thousands of tonnes: not available	66	211
Green space in cities		
Surface area of green spaces in the city – km ² : not available	Not available	34
Green space to which the public has access – km ² : not available	Not available	39
Healthy transport		
Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90
Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
Social indicator		
Unemployment		
Unemployed people as % of the economically active population: not available	9.4	10.5

Further information: http://www.cankaya.bel.tr

http://en.wikipedia.org/wiki/%C3%87ankaya,_Ankara http://data.worldbank.org

Cardiff, United Kingdom







Twin cities with, since:

- Hordaland County, Norway
- Luhansk, Ukraine
- Nantes, France
- Stuttgart, GermanyXiamen, China

۲	Health indicator	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
	Mortality		chies network
	Crude mortality per 1000 inhabitants: 7.8 (2012)	8.8	9.3
0	Environmental indicators		
	Air quality		
	Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : 0 (2011)	12	7
	Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 μ g/m ³ : o (2011)	0	o
	Number of days annually particulate matter (PM_{10}) concentrations exceed 50 µg/m ³ : 6 (2009)	21	20
	Number of days annually particulate matter ($PM_{2.5}$) concentrations exceed 50 µg/m ³ : 6 (2009)	Not available	17
	Water quality		
	Percentage of water pollutants removed from sewage produced: not available	100	96
	Waste		
	Municipal waste generated (domestic and commercial), in thousands of tonnes: not available	66	211
	Green space in cities		
	Surface area of green spaces in the city – km²: 20 (2014)	Not available	34
	Green space to which the public has access – km ² : not available	Not available	39
	Healthy transport		
	Length of cycling network (dedicated cycle paths and lanes) – km: 103 (2014)	73	90
	Percentage of commuting trips by public transport (rail, metro, bus, tram): 17 (2009-13)	15	14
	Social indicator		
0			
	Unemployment		
	Unemployed people as $\%$ of the economically active population: 7.8 (2014)	9.4	10.5

Further information: http://www.cardiff.gov.uk

https://statswales.wales.gov.uk http://en.wikipedia.org/wiki/Cardiff http://data.worldbank.org

http://www.ons.gov.uk http://www.askcardiff.com http://epp.eurostat.ec.europa.eu

Carlisle, United Kingdom



Population (2012): 105 000 Population density: not available Economy: decline – stable – growth Healthy city in:



Twin cities with, since:

- Flensburg, Germany
- Slupsk, Poland

	Core data				
•	Health indicator	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network		
	Mortality Crude mortality per 1000 inhabitants: 9.9 (2011)	8.8	9. <u>3</u>		
•	Environmental indicators				
	Air quality				
	Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : not available	12	7		
	Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 μ g/m ³ : not available	0	0		
	Number of days annually particulate matter (PM $_{_{10}}$) concentrations exceed 50 µg/m³: not available	21	20		
	Number of days annually particulate matter (PM $_{_{2.5}}$) concentrations exceed 50 µg/m ³ : not available	Not available	17		
	Water quality				
	Percentage of water pollutants removed from sewage produced: not available	100	96		
	Waste				
	Municipal waste generated (domestic and commercial), in thousands of tonnes: not available	66	211		
	Green space in cities				
	Surface area of green spaces in the city – km ² : not available	Not available	34		
	Green space to which the public has access – km ² : not available	Not available	39		
	Healthy transport				
	Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90		
	Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14		
•	Social indicator				
	Unemployment				
	Unemployed people as % of the economically active population: 5.1 (2011)	9.4	10.5		
Fur	ther information: http://www.carlisle.gov.uk				

http://en.wikipedia.org/wiki/Carlisle,_Cumbria http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Celje, Slovenia



Population (2012): 48 000 Population density: 1655 per km² Economy: decline - stable - growth Healthy city in:



Twin cities with, since:

- Grevenbroich, Germany, 1986
- Singen, Germany, 1990
 Slavonski Brod, Croatia, 2010

Core data		
Health indicator Mortality	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
Crude mortality per 1000 inhabitants: <i>not available</i>	8.8	9.3
Environmental indicators		
Air quality		
Number of days annually ozone (O3) concentrations exceed 120 μ g/m ³ : <i>not available</i>	12	7
Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 μ g/m ³ : not available	0	0
Number of days annually particulate matter ($PM_{_{10}}$) concentrations exceed 50 µg/m ³ : not available	21	20
Number of days annually particulate matter (PM _{2.5}) concentrations exceed 50 µg/m ³ : not available	Not available	17
Water quality		
Percentage of water pollutants removed from sewage produced: not available	100	96
Waste		
Municipal waste generated (domestic and commercial), in thousands of tonnes: not available	66	211
Green space in cities		
Surface area of green spaces in the city – km ² : not available	Not available	34
Green space to which the public has access – km ² : not available	Not available	39
Healthy transport		
Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90
Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
Social indicator		
Unemployment		
Unemployed people as % of the economically active population: not available	9.4	10.5
Further information: http://www.zdravi-gradovi.com.hr/home-eng/who-we-are.aspx		

Further information: http://www.zdravi-gradovi.com.hr/home-eng/who-we-are.aspx http://en.wikipedia.org/wiki/Celje http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Cheboksary, Russian Federation





Twin cities with, since:

- Eger, Hungary
- Santa Clara, Cuba
- Antalya, Turkey
- Rundu, Namibia
- Grondo, Belarus

Core data

Health indicator	Median all Europe (2011)	Median, members of the WHO European Healthy
Mortality		Cities Network
Crude mortality per 1000 inhabitants: 9.2 (2013)	8.8	9.3
Environmental indicators		
Air quality		
Sulfur dioxide (SO_2) emitted from fossil-fuel combustion in thousands of tonnes per year: 0.11 (2013)	Not available	Not available
Nitrogen oxides (NO _x) emitted from fossil-fuel combustion in thousands of tonnes per year: 2.6 (2013)	Not available	Not available
Carbon dioxide (CO $_2$) emitted from fossil-fuel combustion in thousands of tonnes per year: 0.54 (2013)	Not available	Not available
Solids emitted from fossil-fuel combustion in thousands of tonnes per year: 0.051 (2013)	Not available	Not available
Hydrocarbons (excluding methane) emitted from fossil-fuel combustion in thousands of tonnes per year: 0.17 (2013)	Not available	Not available
Water quality		
Percentage of water pollutants removed from sewage produced: 100 (2013)	100	96
Waste		
Municipal waste collected in thousands of m ³ : 1104 (2013)	66	Not available
Green space in cities		
Surface area of green spaces in the city – km²: 30 (2014)	Not available	34
Green space to which the public has access – km ² : 79 (2014)	Not available	39
Healthy transport		
Length of cycling network (dedicated cycle paths and lanes) – km: 17 (2014)	73	90
Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
Social indicator		
Unemployment		
Unemployed people as % of the economically active population: 0.7 (2013)	9.4	10.5
Further information: http://gov.cap.ru/Default.aspx?gov_id=81 http://en.wikipedia.org/wiki/Cheboksary		

http://knoema.com/atlas/Russian-Federation

http://data.worldbank.org

Cherepovets, Russian Federation





- Balakovo, Russian Federation
 Liaoyuan, China
 Klaipeda, Lithuania

- Maladzyechna, Belarus
- Derry, NH, United States
 Montclair, NJ, United States
- Raahe, Finland

Core data (Vologda Region)

•	Health indicator	Median all Europe (2011)	Median, members of the WHO European Healthy
	Mortality		European Healthy Cities Network
	Crude mortality per 1000 inhabitants: 15.1 (2012)	8.8	9.3
0	Environmental indicators		
	Air quality		
	Sulfur dioxide (SO_2) emitted from fossil-fuel combustion in thousands of tonnes per year: 29.48 (2012)	Not available	Not available
	Nitrogen oxides (NO _x) emitted from fossil-fuel combustion in thousands of tonnes per year: 13.24 (2012)	Not available	Not available
	Carbon dioxide (CO_2) emitted from fossil-fuel combustion in thousands of tonnes per year: 22.17 (2012)	Not available	Not available
	Solids emitted from fossil-fuel combustion in thousands of tonnes per year: 11.19 (2012)	Not available	Not available
	Hydrocarbons (excluding methane) emitted from fossil-fuel combustion in thousands of tonnes per year: 0.03 (2012)	Not available	Not available
	Water quality		
	Percentage of water pollutants removed from sewage produced: not available	100	96
	Waste		
	Municipal waste collected in thousands of m ³ : 1978 (2012)	66	211
	Green space in cities		
	Surface area of green spaces in the city – km ² : not available	Not available	34
	Green space to which the public has access – km ² : not available	Not available	39
	Healthy transport		
	Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90
	Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
0	Social indicator		
	Unemployment		
	Unemployed people as % of the economically active population: <i>not available</i>	9.4	10.5

Further information: http://www.movustug.ru

http://en.wikipedia.org/wiki/Veliky_Ustyug http://knoema.com/atlas/Russian-Federation http://data.worldbank.org

Copenhagen, Denmark



Population (2012): 560 000 Population density: 6345 per km² Economy: decline - stable - growth Healthy city in:



Twin cities with, since:

- Beijing, China, 2012
- Berlin, Germany
 Curitiba, Brazil
- Marseille, France
- Paris, France
- Prague, Czech Republic
- Reykjavik, Iceland

Core data

Health indicator Mortality	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
Crude mortality per 1000 inhabitants: 7.3 (2013)	8.8	9.3
 Environmental indicators 		,,,
Air quality		
Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : 8 (2011)	12	7
Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 μ g/m ³ : 0 (2011)	0	0
Number of days annually particulate matter (PM $_{_{10}}$) concentrations exceed 50 µg/m ³ : 33 (2011)	21	20
Number of days annually particulate matter ($PM_{2.5}$) concentrations exceed 50 µg/m ³ : not available	Not available	17
Water quality		
Percentage of water pollutants removed from sewage produced: 100 (2011)	100	96
Waste		
Municipal waste generated (domestic and commercial), in thousands of tonnes: 287 (2011)	66	211
Green space in cities		
Surface area of green spaces in the city – km ² : not available	Not available	34
Green space to which the public has access – km ² : 20 (2011)	Not available	39
Healthy transport		
Length of cycling network (dedicated cycle paths and lanes) – km: 350 (2011)	73	90
Percentage of commuting trips by public transport (rail, metro, bus, tram): 30 (2011)	15	14
Social indicator		
Unemployment		
Unemployed people as % of the economically active population: 6.7 (2014)	9.4	10.5
Further information: http://www.kk.dk		

http://en.wikipedia.org/wiki/Copenhagen http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Cork, Ireland







Twin cities with, since:

- Cologne, Germany, 1988
- Coventry, United Kingdom, 1969
- Rennes, France, 1982
 San Francisco, CA, United States, 1984
- Swansea, Wales, United Kingdom, 1994
- Shanghai, China, 2005

Core data

٠	Health indicator Mortality	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
	Crude mortality per 1000 inhabitants: 9.0 (2011) <i>estimated</i>	8.8	9.3
•	Environmental indicators		
	Air quality Number of days annually ozone (O ₂) concentrations exceed 120 µg/m ³ : not available	12	7
	Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 µg/m ³ : not available	0	0
	Number of days annually particulate matter (PM,) concentrations exceed 50 µg/m ³ : 10 (2011)	21	20
	Number of days annually particulate matter (PM, .) concentrations exceed 50 µg/m ³ : 10 (2011)	Not available	17
	Water quality		
	Percentage of water pollutants removed from sewage produced: not available	100	96
	Waste		
	Municipal waste generated (domestic and commercial), in thousands of tonnes: not available	66	211
	Green space in cities		
	Surface area of green spaces in the city – km ² : not available	Not available	34
	Green space to which the public has access – km ² : not available	Not available	39
	Healthy transport		
	Length of cycling network (dedicated cycle paths and lanes) – km: 15 (2011)	73	90
	Percentage of commuting trips by public transport (rail, metro, bus, tram): 9 (2011)	15	14
0	Social indicator		
	Unemployment		
	Unemployed people as % of the economically active population: 19.7 (2011) <i>estimated</i>	9.4	10.5

Further information: http://www.corkcity.ie

http://en.wikipedia.org/wiki/Cork_(city) http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Denizli, Turkey





Phase I Phase II Phase III Phase IV Phase V

Twin cities with, since:

- Amasya, Turkey .
- Bursa, Turkey Mus, Turkey Tokat, Turkey
- Almelo, Netherlands Pavlodar, Kazakhstan
- Tbilisi, Georgia Braila, Romania •
- Samara, Russian Federation
- Mogilev, Belarus Larissa, Greece • Łódź, Poland
 Damascus, Syria
 Jiaozhou, China

Rhodes, Greece Betzdorf, Germany

- Sarajevo, Bosnia and Herzegovina .
- Muan, Republic of Korea

.

•

• Kazvin, Islamic Republic of Iran

Core dato

•	Health indicator Mortality	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
	Crude mortality per 1000 inhabitants: 4.8 (2013)	8.8	9.3
•	Environmental indicators		
	Air quality		
	Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : not available	12	7
	Number of days annually nitrogen dioxide (NO $_2$) concentrations exceed 200 µg/m ³ : not available	0	0
	Number of days annually particulate matter (PM_{10}) concentrations exceed 50 µg/m ³ : 230 (2013)	21	20
	Number of days annually particulate matter ($PM_{2.5}$) concentrations exceed 50 µg/m ³ : not available	Not available	17
	Water quality		
	Percentage of water pollutants removed from sewage produced: 92 (2013)	100	96
	Waste		
	Municipal waste generated (domestic and commercial), in thousands of tonnes: 171 (2013)	66	211
	Green space in cities		
	Surface area of green spaces in the city – km²: 10 (2013)	Not available	34
	Green space to which the public has access – km ² : 10 (2013)	Not available	39
	Healthy transport		
	Length of cycling network (dedicated cycle paths and lanes) – km: 5 (2013)	73	90
	Percentage of commuting trips by public transport (rail, metro, bus, tram): 40 (estimated, 2008)	15	14
•	Social indicator		
	Unemployment		
	Unemployed people as % of the economically active population: 6.5 (2013)	9.4	10.5
Furi	ther information: http://www.denizli.bel.tr www.tuik.gov.tr		

http://en.wikipedia.org/wiki/Denizli www.havaizleme.gov.tr http://data.worldbank.org

www.saglik.gov.tr

Derry, United Kingdom



Population (2012): 105 000 Population density: not available Economy: decline – stable – growth Healthy city in:



Twin cities with, since:

Coleraine, France

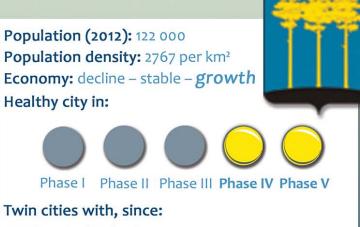
	Core data				
۲	Health indicator	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network		
	Mortality Crude mortality per 1000 inhabitants: 6.9 (2011)	8.8	9.3		
0	Environmental indicators				
	Air quality				
	Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : 1 (2011)	12	7		
	Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 μ g/m ³ : 0 (2011)	0	o		
	Number of days annually particulate matter (PM $_{_{10}}$) concentrations exceed 50 µg/m³: 6 (2011)	21	20		
	Number of days annually particulate matter (PM $_{_{2.5}}$) concentrations exceed 50 µg/m ³ : 6 (2011)	Not available	17		
	Water quality				
	Percentage of water pollutants removed from sewage produced: not available	100	96		
	Waste				
	Municipal waste generated (domestic and commercial), in thousands of tonnes: not available	66	211		
	Green space in cities				
	Surface area of green spaces in the city – km ² : not available	Not available	34		
	Green space to which the public has access – km ² : not available	Not available	39		
	Healthy transport				
	Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90		
	Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14		
0	Social indicator				
	Unemployment				
	Unemployed people as % of the economically active population: not available	9.4	10.5		
	ther information: http://www.derrycity.gov.uk				

Further information: http://www.derrycity.gov.uk

http://www.derrycity.gov.uk http://en.wikipedia.org/wiki/Derry http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Dimitrovgrad, Russian Federation





- Dimitrovgrad, Bulgaria, 1971
- Drogobych, Ukraine, 1974
- Lida, Belarus, 2001
- Kayrakkum, Tajikistan
- Alexin, Russian Federation, 2003
- Obrunsk, Russian Federation, 2011
- Kalinin district of St Petersburg, Russian Federation, 2013

Core data (Ulyanovsk region)		
Health indicator Mortality	Median all Europe (2011)	Median, members of the WHO European Healthy Cities Network
Crude mortality per 1000 inhabitants: 14.2 (2012)	8.8	9.3
Environmental indicators		
Air quality		
Sulfur dioxide (SO_2) emitted from fossil-fuel combustion in thousands of tonnes per year: 0.92 (2012)	Not available	Not available
Nitrogen oxides (NO _x) emitted from fossil-fuel combustion in thousands of tonnes per year: 3.86 (2012)	Not available	Not available
Carbon dioxide (CO $_2$) emitted from fossil-fuel combustion in thousands of tonnes per year: 3.5 (2012)	Not available	Not available
Solids emitted from fossil-fuel combustion in thousands of tonnes per year: 0.8 (2012)	Not available	Not available
Hydrocarbons (excluding methane) emitted from fossil-fuel combustion in thousands of tonnes per year: 0.01 (2012)	Not available	Not available
Water quality		
Percentage of water pollutants removed from sewage produced: not available	100	96
Waste		
Municipal waste collected in thousands of m ³ : 2851 (2012)	66	Not available
Green space in cities		
Surface area of green spaces in the city – km ² : not available	Not available	34
Green space to which the public has access – km ² : not available	Not available	39
Healthy transport		
Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90
Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
Social indicator		
Unemployment		
Unemployed people as % of the economically active population: not available	9.4	10.5
Further information: http://dimitrovgrad.ulregion.ru www.dimitrovgrad.ru		

http://en.wikipedia.org/wiki/Dimitrovgrad,_Russia http://knoema.com/atlas/Russian-Federation http://data.worldbank.org

Dresden, Germany



Population (2012): 510 000 Population density: 1600 per km² Economy: decline - stable - growth Healthy city in:



Salzburg, Austria, 1991
Columbus, OH, United States, 1992
Hangzhou, China, 2009

Phase I Phase II Phase III Phase IV Phase V Twin cities with, since:

- Coventry, United Kingdom, 1959
 Rotterdam, Netherlands, 1988
 St Petersburg, Russian
 Strasbourg, France, 1990
- Federation, 1961
- Wroclaw, Poland, 1959
 Skopje, the former Yugoslav Republic of Macedonia, 1967
- Ostrava, Czech Republic, 1971
- Brazzaville, Congo, 1975
- Florence, Italy, 1978
 Hamburg, Germany, 1987

Core data

•	Health indicator	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
	Mortality		
	Crude mortality per 1000 inhabitants: 9.1 (2011)	8.8	9.3
0	Environmental indicators		
	Air quality		
	Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : not available	12	7
	Number of days annually nitrogen dioxide (NO $_2$) concentrations exceed 200 µg/m ³ : not available	0	0
	Number of days annually particulate matter (PM_{10}) concentrations exceed 50 µg/m ³ : not available	21	20
	Number of days annually particulate matter ($PM_{_{2.5}}$) concentrations exceed 50 µg/m ³ : not available	Not available	17
	Water quality		
	Percentage of water pollutants removed from sewage produced: 100 (2009)	100	96
	Waste		
	Municipal waste generated (domestic and commercial), in thousands of tonnes: 172 (2013)	66	211
	Green space in cities		
	Surface area of green spaces in the city – km²: 203 (2013)	Not available	34
	Green space to which the public has access – km ² : 9 (2013)	Not available	39
	Healthy transport		
	Length of cycling network (dedicated cycle paths and lanes) – km: 401 (2013)	73	90
	Percentage of commuting trips by public transport (rail, metro, bus, tram): 21 (2008)	15	14
•	Social indicator		
	Unemployment		
	Unemployed people as % of the economically active population: 8.7 (2012)	9.4	10.5

Further information: http://www.dresden.de

http://en.wikipedia.org/wiki/Dresden http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Dunkerque, France





- Gaza, West Bank and Gaza Strip
- Riga, Latvia, 1960
- Rostock, Germany, 1960
- Vitoria, Brazil
- Ramat HaSharon, Israel
- Liberec, Czech Republic

Core data

•	Health indicator Mortality	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
	Crude mortality per 1000 inhabitants: <i>not available</i>	8.8	9.3
		0.0	9.5
0	Environmental indicators		
	Air quality		
	Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : 4 (2011)	12	7
	Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 μ g/m ³ : 0 (2011)	0	0
	Number of days annually particulate matter (PM $_{_{10}}$) concentrations exceed 50 µg/m 3 : 22 (2011)	21	20
	Number of days annually particulate matter ($PM_{2.5}$) concentrations exceed 50 µg/m ³ : 22 (2011)	Not available	17
	Water quality		
	Percentage of water pollutants removed from sewage produced: not available	100	96
	Waste		
	Municipal waste generated (domestic and commercial), in thousands of tonnes: 107 (2009) estimated	66	211
	Green space in cities		
	Surface area of green spaces in the city – km ² : not available	Not available	34
	Green space to which the public has access – km ² : not available	Not available	39
	Healthy transport		
	Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90
	Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
	Social indicator		
	Unemployment		
	Unemployed people as % of the economically active population: 17.6 (2010)	9.4	10.5

Further information: http://en.wikipedia.org/wiki/Dunkirk

http://epp.eurostat.ec.europa.eu

http://data.worldbank.org

Eskişehir, Turkey







Twin cities with, since:

- Berlin, Germany
- Changzhou, China
- Chisinau, Republic of Moldova
- Kazan, Russian Federation

- Razari, Russian Federation
 Linz, Austria
 Paju, Republic of Korea
 Paterson, NJ, United States
 Simferopol, Ukraine
- Ganja, Azerbaijan

Core data

•	Health indicator Mortality	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
	Crude mortality per 1000 inhabitants: <i>not available</i>	8.8	9.3
•	Environmental indicators		
	Air quality		
	Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : not available	12	7
	Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 μ g/m ³ : <i>not available</i>	0	0
	Number of days annually particulate matter (PM $_{10}$) concentrations exceed 50 µg/m ³ : not available	21	20
	Number of days annually particulate matter ($PM_{2.5}$) concentrations exceed 50 µg/m ³ : not available	Not available	17
	Water quality		
	Percentage of water pollutants removed from sewage produced: not available	100	96
	Waste		
	Municipal waste generated (domestic and commercial), in thousands of tonnes: not available	66	211
	Green space in cities		
	Surface area of green spaces in the city – km ² : not available	Not available	34
	Green space to which the public has access – km ² : not available	Not available	39
	Healthy transport		
	Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90
	Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
0	Social indicator		
	Unemployment		
	Unemployed people as % of the economically active population: <i>not available</i>	9.4	10.5

Further information: http://www.eskisehir-bld.gov.tr

http://en.wikipedia.org/wiki/Eskisehir http://data.worldbank.org

Galway, Ireland



Population (2012): 73 000 Population density: not available Economy: decline - stable - growth Healthy city in:



Twin cities with, since:

- Aalborg, Denmark, 1997 Bradford, England, United Kingdom, 1986 Cambridge, MA, United States, 1997 Chicago, IL, United States, 1997 Lorient, France, 1978 Milwaukee, WI, United States, 2001 Moncton, Canada, 2002 Oingdao, China, 1990

- Qingdao, China, 1999 St. Louis, MO, United States, 1977 Seattle, WA, United States, 1986 Waitakere City, New Zealand, 2002
- 0

Core data

Health indicator	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
Mortality		Cities Network
Crude mortality per 1000 inhabitants: 4.5 (2011) estimated	8.8	9.3
Environmental indicators		
Air quality		
Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : not available	12	7
Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 μ g/m ³ : not available	0	0
Number of days annually particulate matter (PM,,) concentrations exceed 50 µg/m³: not available	21	20
Number of days annually particulate matter (PM _{2.5}) concentrations exceed 50 µg/m ³ : not available	Not available	17
Water quality		
Percentage of water pollutants removed from sewage produced: not available	100	96
Waste		
Municipal waste generated (domestic and commercial), in thousands of tonnes: not available	66	211
Green space in cities		
Surface area of green spaces in the city – km ² : not available	Not available	34
Green space to which the public has access – km ² : not available	Not available	39
Healthy transport		
Length of cycling network (dedicated cycle paths and lanes) – km: 14 (2011)	73	90
Percentage of commuting trips by public transport (rail, metro, bus, tram): 7 (2011)	15	14
Social indicator		
Unemployment		
Unemployed people as % of the economically active population: 16.5 (2011) <i>estimated</i>	9.4	10.5
Further information: http://www.galwaycity.ie		

http://www.galwaycity.ie http://en.wikipedia.org/wiki/Galway http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Glasgow, United Kingdom



Population (2012): 584 000 Population density: 3298 per km² Economy: decline – stable – growth Healthy city in:



Twin cities with, since:

- Bethlehem, West Bank and Gaza Strip
- Dalian, China
- Havana, Cuba, 2002
- Lahore, Pakistan
- Marseille, France, 2006Nuremburg, Germany
- Rostov-on-Don, Russian Federation
- Turin, Italy
- Cape Town, South Africa

Core data :

Health indicator Mortality	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
Crude mortality per 1000 inhabitants: 10.8 (2011)	8.8	9.3
Environmental indicators		
Air quality		
Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : 0 (2011)	12	7
Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 μ g/m ³ : 0 (2011)	0	0
Number of days annually particulate matter (PM $_{_{10}}$) concentrations exceed 50 µg/m³: 2 (2011)	21	20
Number of days annually particulate matter ($PM_{_{2.5}}$) concentrations exceed 50 µg/m ³ : 2 (2011)	Not available	17
Water quality		
Percentage of water pollutants removed from sewage produced: not available	100	96
Waste		
Municipal waste generated (domestic and commercial), in thousands of tonnes: not available	66	211
Green space in cities		
Surface area of green spaces in the city – km ² : not available	Not available	34
Green space to which the public has access – km ² : not available	Not available	39
Healthy transport		
Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90
Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
Social indicator		
Unemployment		
Unemployed people as % of the economically active population: 8.8 (2011)	9.4	10.5
Turther information. I. U. U. J. J. J. J. J. J. J. J. J. J. J. J. J.		

Further information: http://www.glasgow.gov.uk

http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Gölcük, Turkey



Population (2012): 146 000 Population density: 640 per km² Economy: decline – stable – growth Healthy city in:

	Core data			
•	Health indicator Mortality	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network	
	Crude mortality per 1000 inhabitants: 4.2 (2012)	8.8	9.3	
•	Environmental indicators			
	Air quality			
	Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : not available	12	7	
	Number of days annually nitrogen dioxide (NO2) concentrations exceed 200 µg/m3: not available	0	0	
	Number of days annually particulate matter (PM_{10}) concentrations exceed 50 µg/m ³ : not available	21	20	
	Number of days annually particulate matter (PM2.5) concentrations exceed 50 µg/m3: not available	Not available	17	
	Water quality			
	Percentage of water pollutants removed from sewage produced: not available	100	96	
	Waste			
	Municipal waste generated (domestic and commercial), in thousands of tonnes: 39 (2012)	66	211	
	Green space in cities			
	Surface area of green spaces in the city – km²: 1 (2014)	Not available	34	
	Green space to which the public has access – km ² : not available	Not available	39	
	Healthy transport			
	Length of cycling network (dedicated cycle paths and lanes) – km: 2 (2014)	73	90	
	Percentage of commuting trips by public transport (rail, metro, bus, tram): 20 (2014)	15	14	
•	Social indicator			
	Unemployment			
	Unemployed people as % of the economically active population: 9.5 (2011)	9.4	10.5	

Further information: http://www.golcuk.bel.tr

http://en.wikipedia.org/wiki/G%C3%B6lc%C3%BCk,_Kocaeli http://data.worldbank.org

Grasse, France



Population (2012): 53 000 Population density: 1200 per km² Economy: decline – stable – growth Healthy city in: Phase I Phase II Phase IV Phase V

Core data			
Health indicator Mortality	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network	
Crude mortality per 1000 inhabitants: <i>not available</i>	8.8	9.3	
Environmental indicators			
Air quality			
Number of days annually ozone (O ₃) concentrations exceed 120 µg/m ³ : <i>not available</i>	12	7	
Number of days annually nitrogen dioxide (NO,) concentrations exceed 200 µg/m ³ : not available	0	o	
Number of days annually particulate matter (PM $_{10}$) concentrations exceed 50 µg/m ³ : not available	21	20	
Number of days annually particulate matter (PM _{2.5}) concentrations exceed 50 µg/m ³ : not available	Not available	17	
Water quality			
Percentage of water pollutants removed from sewage produced: not available	100	96	
Waste			
Municipal waste generated (domestic and commercial), in thousands of tonnes: not available	66	211	
Green space in cities			
Surface area of green spaces in the city – km ² : not available	Not available	34	
Green space to which the public has access – km ² : not available	Not available	39	
Healthy transport			
Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90	
Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14	
Social indicator			
Unemployment			
Unemployed people as % of the economically active population: not available	9.4	10.5	
Further information. In the there is a life	1		

Further information: http://en.wikipedia.org/wiki/Grasse http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Győr, Hungary





Kuopio, Finland

- Erfurt, Germany
 Sindelfingen, Germany
 Ingolstadt, Germany

- Colmar, France
 Bryansk, Russian Federation
- Brasov, Romania
- Nazareth Illit, Israel
- Wuhan, China
- Poznan, Poland
- Montevideo, Uruguay

Core data

•	Health indicator Mortality	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
	Crude mortality per 1000 inhabitants: 11.8 (2012)	8.8	9.3
•	Environmental indicators		
	Air quality		
	Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : 11 (2011)	12	7
	Number of days annually nitrogen dioxide (NO $_2$) concentrations exceed 200 µg/m ³ : 0 (2011)	0	0
	Number of days annually particulate matter (PM_{10}) concentrations exceed 50 µg/m ³ : 60 (2011)	21	20
	Number of days annually particulate matter ($PM_{2.5}$) concentrations exceed 50 µg/m ³ : 60 (2011)	Not available	17
	Water quality		
	Percentage of water pollutants removed from sewage produced: 100 (2008)	100	96
	Waste		
	Municipal waste generated (domestic and commercial), in thousands of tonnes: 75 (2012)	66	211
	Green space in cities		
	Surface area of green spaces in the city – km²: 2 (2011)	Not available	34
	Green space to which the public has access – km ² : not available	Not available	39
	Healthy transport		
	Length of cycling network (dedicated cycle paths and lanes) – km: 33 (2011)	73	90
	Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
•	Social indicator		
	Unemployment		
	Unemployed people as % of the economically active population: 5.7 (2011)	9.4	10.5

Further information: http://en.wikipedia.org/wiki/Gy%C5%91r http://epp.eurostat.ec.europa.eu http://data.worldbank.org

30

Helsingborg, Sweden





Twin cities with, since:

- Helsingør, Denmark
- Alexandria, VA, United States
- Dubrovnik, Croatia
- Pärnu, Estonia

	Core data		
•	Health indicator	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
	Mortality Crude mortality per 1000 inhabitants: 10 (2008)	8.8	9.3
0	Environmental indicators		
	Air quality		
	Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : 3 (2011)	12	7
	Number of days annually nitrogen dioxide (NO $_2$) concentrations exceed 200 µg/m ³ : 0 (2011)	0	0
	Number of days annually particulate matter (PM $_{_{10}}$) concentrations exceed 50 µg/m³: not available	21	20
	Number of days annually particulate matter ($PM_{_{2.5}}$) concentrations exceed 50 µg/m ³ : not available	Not available	17
	Water quality		
	Percentage of water pollutants removed from sewage produced: not available	100	96
	Waste		
	Municipal waste generated (domestic and commercial), in thousands of tonnes: not available	66	211
	Green space in cities		
	Surface area of green spaces in the city – km ² : not available	Not available	34
	Green space to which the public has access – km ² : not available	Not available	39
	Healthy transport		
	Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90
	Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
	Social indicator		
0			
	Unemployment		
	Unemployed people as % of the economically active population: 9 (2008)	9.4	10.5
_			

Further information: http://www.helsingborg.se

http://en.wikipedia.org/wiki/Helsingborg_Municipality http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Horsens, Denmark



Population (2012): 80 000 Population density: 300 per km² Economy: decline – stable – growth Healthy city in:



Twin cities with, since:

- Nokia, Finland
- Blönduós, Iceland
- Moss, Norway
- Karlstad, Sweden

Health indicatorMedian, members burgean RegionMedian, members burgean RegionMurde on contactive protocon inhabitants: not availableS.89,3S.89,3S.89,3S.89,3S.89,3S.8S.89,3S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8S.8 </th <th></th> <th></th> <th></th>			
Mortality 8.8 9.3 Crude mortality per 1000 inhabitants: not available 8.8 9.3 Environmental indicators 12 7 Air quality 12 7 Number of days annually ozone (0 ₃) concentrations exceed 120 µg/m ² : not available 0 0 Number of days annually nitrogen dioxide (NO ₃) concentrations exceed 200 µg/m ² : not available 21 20 Number of days annually particulate matter (PM _{wa}) concentrations exceed 50 µg/m ² : not available Not available 17 Water quality Percentage of water pollutants removed from sewage produced: not available 100 96 Waste Inon 96 211 21 Surface area of green spaces in the city – km ² : not available 100 96 211 Surface area of green spaces in the city – km ² : not available 66 211 211 Surface area of green spaces in the city – km ² : not available Not available 34 Green space to which the public has access – km ² : not available Not available 39	Health indicator	European Region	of the WHO European Healthy
 Environmental indicators Air quality Number of days annually ozone (0₃) concentrations exceed 120 µg/m³: not available Number of days annually nitrogen dioxide (NO₃) concentrations exceed 200 µg/m³: not available Number of days annually particulate matter (PM_{v0}) concentrations exceed 50 µg/m³: not available Number of days annually particulate matter (PM_{v0}) concentrations exceed 50 µg/m³: not available Number of days annually particulate matter (PM_{v0}) concentrations exceed 50 µg/m³: not available Not available Not available Percentage of water pollutants removed from sewage produced: not available Not available Municipal waste generated (domestic and commercial), in thousands of tonnes: not available Surface area of green spaces in the city – km³: not available Surface area of green spaces in the city – km³: not available Not available Not available Not available Mot available 	Mortality		
Air quality127Number of days annually ozone (O ₃) concentrations exceed 120 µg/m³: not available127Number of days annually nitrogen dioxide (NO ₃) concentrations exceed 200 µg/m³: not available00Number of days annually particulate matter (PM ₁₀) concentrations exceed 50 µg/m³: not available2120Number of days annually particulate matter (PM ₁₂₅) concentrations exceed 50 µg/m³: not availableNot available17Water qualityNot available9696Waste10096211Municipal waste generated (domestic and commercial), in thousands of tonnes: not available66211Surface area of green spaces in the city – km²: not availableNot available34Green space to which the public has access – km²: not availableNot available39	Crude mortality per 1000 inhabitants: not available	8.8	9.3
Number of days annually ozone (0,) concentrations exceed 120 µg/m³: not available127Number of days annually nitrogen dioxide (NO,) concentrations exceed 200 µg/m³: not available00Number of days annually particulate matter (PM, o) concentrations exceed 50 µg/m³: not available2120Number of days annually particulate matter (PM, o) concentrations exceed 50 µg/m³: not availableNot available17Water qualityNot available10096Waste10096Waste66211Surface area of green spaces in the city - km²: not availableNot available34Green space to which the public has access - km²: not availableNot available39	Environmental indicators		
Number of days annually nitrogen dioxide (NO,) concentrations exceed 200 µg/m²: not available00Number of days annually particulate matter (PM,,) concentrations exceed 50 µg/m²: not available2120Number of days annually particulate matter (PM,_s) concentrations exceed 50 µg/m²: not availableNot available17Water qualityNot available10096Water quality10096Waste10096Waste66211Surface area of green spaces in the city – km²: not availableNot available34Green space to which the public has access – km²: not availableNot available39	Air quality		
Number of days annually particulate matter (PM,) concentrations exceed 50 µg/m³: not available2120Number of days annually particulate matter (PM,) concentrations exceed 50 µg/m³: not availableNot available17Water quality10096Percentage of water pollutants removed from sewage produced: not available10096Waste66211Municipal waste generated (domestic and commercial), in thousands of tonnes: not available66211Surface area of green spaces in the city - km²: not availableNot available34Green space to which the public has access - km²: not availableNot available39	Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : not available	12	7
Number of days annually particulate matter (PM,,,s) concentrations exceed 50 µg/m²: not availableNot available17Water qualityNot available10096Waste10096Waste66211Municipal waste generated (domestic and commercial), in thousands of tonnes: not available66211Surface area of green spaces in the city – km²: not availableNot available34Green space to which the public has access – km²: not availableNot available39	Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 μ g/m ³ : not available	0	0
Water quality10096Percentage of water pollutants removed from sewage produced: not available10096Waste100100100Municipal waste generated (domestic and commercial), in thousands of tonnes: not available66211Green space in cities100100100Surface area of green spaces in the city – km²: not availableNot available34Green space to which the public has access – km²: not available10039	Number of days annually particulate matter (PM $_{_{10}}$) concentrations exceed 50 µg/m ³ : not available	21	20
Percentage of water pollutants removed from sewage produced: not available10096Waste10096Municipal waste generated (domestic and commercial), in thousands of tonnes: not available66211Green space in cities10096Surface area of green spaces in the city – km²: not availableNot available34Green space to which the public has access – km²: not availableNot available39	Number of days annually particulate matter (PM $_{_{2,5}}$) concentrations exceed 50 µg/m 3 : not available	Not available	17
Waste 66 211 Municipal waste generated (domestic and commercial), in thousands of tonnes: not available 66 211 Green space in cities 10 10 10 Surface area of green spaces in the city – km ² : not available Not available 34 Green space to which the public has access – km ² : not available Not available 39	Water quality		
Municipal waste generated (domestic and commercial), in thousands of tonnes: not available66211Green space in citiesNot available34Surface area of green spaces in the city – km²: not availableNot available34Green space to which the public has access – km²: not available39	Percentage of water pollutants removed from sewage produced: not available	100	96
Green space in citiesNot available34Surface area of green spaces in the city – km²: not availableNot available34Green space to which the public has access – km²: not availableNot available39	Waste		
Surface area of green spaces in the city – km²: not availableNot available34Green space to which the public has access – km²: not availableNot available39	Municipal waste generated (domestic and commercial), in thousands of tonnes: not available	66	211
Green space to which the public has access – km ² : <i>not available</i> 39	Green space in cities		
	Surface area of green spaces in the city – km ² : not available	Not available	34
Healthy transport	Green space to which the public has access – km ² : not available	Not available	39
	Healthy transport		
Length of cycling network (dedicated cycle paths and lanes) – km: not available 73 90	Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90
Percentage of commuting trips by public transport (rail, metro, bus, tram): <i>not available</i> 15 14	Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
Social indicator	Social indicator		
Unemployment			
Unemployed people as % of the economically active population: <i>not available</i> 9.4 10.5		9.4	10.5

Further information: http://www.horsens.dk

http://en.wikipedia.org/wiki/Horsens http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Istanbul, Turkey







Phase I Phase II Phase III Phase IV Phase V Twin cities with, since:

- Baku, Azerbaijan .

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- .
- 0
- 0
- Baku, Azerbaijan Athens, Greece Berlin, Germany Barcelona, Spain Budapest, Hungary Cologne, Germany Constanta, Romania Durres, Albania Florence, Italy Kazan, Russian Federation London, United kingdom Odessa, Ukraine Plovdiv, Bulgaria Prague, Czech Republic Prizren, Kosovo (in accordance with Security Council resolution 1244 (1999))

- Rotterdam, Netherlands
 St Petersburg, Russian Federation
 Sarajevo, Bosnia and Herzegovina
 Skopje, the former Yugoslav Republic of Macedonia
 Stockholm, Sweden
 Strasbourg, France
 Venice, Italy
 Warsaw, Poland
 Almaty, Kazakhstan
 Amman, Jordan
 Beirut, Lebanon
 Bangkok, Thailand
 Busan, Republic of Korea

Core data

	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
	8.8	9.3
	12	7
Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 µg/m ³ : not available	0	о
Number of days annually particulate matter (PM10) concentrations exceed 50 µg/m³: not available	21	20
Number of days annually particulate matter (PM _{2.5}) concentrations exceed 50 µg/m ³ : not available	Not available	17
Water quality		
Percentage of water pollutants removed from sewage produced: not available	100	96
Waste		
Municipal waste generated (domestic and commercial), in thousands of tonnes: not available	66	211
Green space in cities		
Surface area of green spaces in the city – km ² : not available	Not available	34
Green space to which the public has access – km ² : not available	Not available	39
Healthy transport		
Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90
Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
Social indicator		
Unemployed people as % of the economically active population: <i>not available</i>	9.4	10.5
	Health indicator Mortality Crude mortality per 1000 inhabitants: not available Environmental indicators Air quality Number of days annually ozone (0,) concentrations exceed 120 µg/m ³ : not available Number of days annually particulate matter (PM,) concentrations exceed 200 µg/m ³ : not available Number of days annually particulate matter (PM,) concentrations exceed 50 µg/m ³ : not available Number of days annually particulate matter (PM,) concentrations exceed 50 µg/m ³ : not available Water quality Percentage of water pollutants removed from sewage produced: not available Waste Municipal waste generated (domestic and commercial), in thousands of tonnes: not available Green space in cities Surface area of green spaces in the city – km ³ : not available Green space to which the public has access – km ³ : not available Healthy transport Length of cycling network (dedicated cycle paths and lanes) – km: not available Percentage of commuting trips by public transport (rail, metro, bus, tram): not available Social indicator Unemployment	Health indicator European Region (conf) Mortality 8.8 Crude mortality per 1000 inhabitants: not available 8.8 Environmental indicators 12 Air quality 12 Number of days annually ozone (0,) concentrations exceed 120 µg/m ³ : not available 0 Number of days annually nitrogen dioxide (NO,) concentrations exceed 200 µg/m ³ : not available 0 Number of days annually particulate matter (PM _{MA}) concentrations exceed 50 µg/m ³ : not available 10 Water quality 100 Percentage of water pollutants removed from sewage produced: not available 100 Waste 100 Surface area of green spaces in the city – km ² : not available Not available Green space in cities 10 Surface area of green spaces in the city – km ² : not available Not available Healthy transport 12 Length of cycling network (dedicated cycle paths and lanes) – km: not available 73 Percentage of commuting trips by public transport (rail, metro, bus, tram): not available 15 Social indicator 15

Further information: http://www.ibb.gov.tr

http://en.wikipedia.org/wiki/Istanbul http://data.worldbank.org

Izhevsk, Russian Federation





- Bedzin, Poland, 2004
- Córdoba, Argentina, 2006
- Maracay, Bolivarian Republic of Venezuela, 2006
- Xining, China, 2002
- Tatabanya, Hungary, 1992
- Yambol, Bulgaria, 1999

Core data

٠	Health indicator Mortality	Median all Europe (2011)	Median, members of the WHO European Healthy Cities Network
	Crude mortality per 1000 inhabitants: 11.4 (2013)	8.8	9.3
•	Environmental indicators		
	Air quality		
	Sulfur dioxide (SO_2) emitted from fossil-fuel combustion in thousands of tonnes per year: 0.68 (2012)	Not available	Not available
	Nitrogen oxides (NO _x) emitted from fossil-fuel combustion in thousands of tonnes per year: 20.1 (2012)	Not available	Not available
	Carbon dioxide (CO_2) emitted from fossil-fuel combustion in thousands of tonnes per year: 45.6 (2012)	Not available	Not available
	Solids emitted from fossil-fuel combustion in thousands of tonnes per year: 0.54 (2012)	Not available	Not available
	Hydrocarbons (excluding methane) emitted from fossil-fuel combustion in thousands of tonnes per year: 8.45 (2012)	Not available	Not available
	Water quality		
	Percentage of water pollutants removed from sewage produced: 100 (2012)	100	96
	Waste		
	Municipal waste collected in thousands of m ³ : 354 (2012)	66	Not available
	Green space in cities		
	Surface area of green spaces in the city – km²: 34 (2012)	Not available	34
	Green space to which the public has access – km²: 108 (2012)	Not available	39
	Healthy transport		
	Length of cycling network (dedicated cycle paths and lanes) – km: 26 (2013)	73	90
	Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
0	Social indicator		
	Unemployment		
	Unemployed people as % of the economically active population: 0.6 (2013)	9.4	10.5

Further information: http://www.izh.ru

http://www.mzur.ru http://knoema.com/atlas/Russian-Federation http://udmstat.gks.ru

http://en.wikipedia.org/wiki/Izhevsk

Izmir, Turkey







Phase I Phase II Phase III Phase IV Phase V

Twin cities with, since:

- Baku, Azerbaijan, 1985
 Balti, Republic of Moldova, 1996
 Bremen, Germany, 1993
 Kardzhali, Bulgaria, 2008

- Non Ozhan, Dungalia, 2006
 Constanta, Romania, 1995
 Mostar, Bosnia and Herzegovina, 1996
 Odense, Denmark, 1991
 Plzen, Czech Republic, 1987
 Split, Croatia, 1996
 Volvorad, Pursian Foderation Sector 5

- Tel Aviv, Israel, 1998
 Bishkek, Kyrgyzstan, 1991
 Mumbai, India, 1997
 Tianjin, China, 1990
 Turkmenabat, Turkmenistan, 1993
 Wuhan, China, 2012

- Wuhan, China, 2013
 Sousse, Tunisia
 Long Beach, CA, United States
 Tampa, FL, United States
- Havana, Cuba
- Volvograd, Russian Federation, 2006
 Famagusta, Cyprus

Core data

۲	Health indicator	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
	Mortality		
	Crude mortality per 1000 inhabitants: <i>not available</i>	8.8	9.3
0	Environmental indicators		
	Air quality		
	Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : not available	12	7
	Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 μ g/m ³ : not available	0	0
	Number of days annually particulate matter (PM $_{_{10}}$) concentrations exceed 50 µg/m³: not available	21	20
	Number of days annually particulate matter (PM $_{_{2.5}}$) concentrations exceed 50 µg/m ³ : not available	Not available	17
	Water quality		
	Percentage of water pollutants removed from sewage produced: not available	100	96
	Waste		
	Municipal waste generated (domestic and commercial), in thousands of tonnes: not available	66	211
	Green space in cities		
	Surface area of green spaces in the city – km ² : not available	Not available	34
	Green space to which the public has access – km ² : not available	Not available	39
	Healthy transport		
	Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90
	Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
0	Social indicator		
	Unemployment		
	Unemployed people as % of the economically active population: not available	9.4	10.5

Further information: http://www.skb.org.tr

http://www.skb.org.tr/english/ www.skpo.izmir.bel.tr http://en.wikipedia.org/wiki/Kar%C5%9F%C4%B1yaka http://epp.eurostat.ec.europa.eu

http://www.tuik.gov.tr/UstMenu.dometod=temelist http://data.worldbank.org

Jerusalem, Israel



Population (2012): 760 000 Population density: 6400 per km² Economy: decline – stable – growth Healthy city in:



Twin cities with, since:

- Prague, Czech Republic
- Ayabe, Japan
- Fez, Morocco
- New York City, United States, 1993
- Marseille, France

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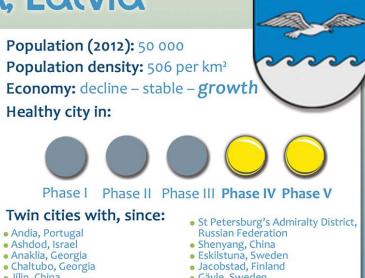
Health indicator	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
Mortality		
Crude mortality per 1000 inhabitants: 4.4 (2012)	8.8	9.3
Environmental indicators		
Air quality		
Number of days annually ozone (O ₃) concentrations exceed 120 μ g/m ³ : not available	12	7
Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 μ g/m ³ : not available	0	o
Number of days annually particulate matter (PM $_{_{10}}$) concentrations exceed 50 µg/m ³ : not available	21	20
Number of days annually particulate matter (PM _{2.5}) concentrations exceed 50 µg/m ³ : not available	Not available	17
Water quality		
Percentage of water pollutants removed from sewage produced: 4 (2012)	100	96
Waste		
Municipal waste generated (domestic and commercial), in thousands of tonnes: not available	66	211
Green space in cities		
Surface area of green spaces in the city – km ² : not available	Not available	34
Green space to which the public has access – km ² : not available	Not available	39
Healthy transport		
Length of cycling network (dedicated cycle paths and lanes) – km: 140 (2008) estimated	73	90
Percentage of commuting trips by public transport (rail, metro, bus, tram): 43 (2008) estimated	15	14
Social indicator		
Unemployment		
Unemployed people as % of the economically active population: 16 (2011) <i>estimated</i>	9.4	10.5

Further information: http://en.wikipedia.org/wiki/Jerusalem

http://en.wikipedia.org/wiki/Jerusale http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Jūrmala, Latvia





- Chartubo, Georgia
 Jilin, China
 Khanty-Mansiysk, Russian Federation
 Kazan, Russian Federation
 Southwest region of Moscow,
 Painug, Lithuania
 Durbe Sederation
- **Russian Federation**
- Samarkand, Uzbekistan
- Alushta, Ukraine
 - Terracina, Italy
 Türkmenbasy, Turkmenistan

Core data

١	Health indicator	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
	Mortality Crude mortality per 1000 inhabitants: 14.1 (2012)	8.8	
		0.0	9.3
0	Environmental indicators		
	Air quality		
	Number of days annually ozone (O ₃) concentrations exceed 120 μ g/m ³ : 0 (2013)	12	7
	Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 μ g/m ³ : o (2013)	0	0
	Number of days annually particulate matter (PM $_{_{10}}$) concentrations exceed 50 µg/m 3 : 0 (2013)	21	20
	Number of days annually particulate matter ($PM_{2.5}$) concentrations exceed 50 µg/m ³ : 0 (2013)	Not available	17
	Water quality		
	Percentage of water pollutants removed from sewage produced: 100 (2013)	100	96
	Waste		
	Municipal waste generated (domestic and commercial), in thousands of tonnes: 272 (2010)	66	211
	Green space in cities		
	Surface area of green spaces in the city – km ² : 65 (2013)	Not available	34
	Green space to which the public has access – km ² : not available	Not available	39
	Healthy transport		
	Length of cycling network (dedicated cycle paths and lanes) – km: 65 (2013)	73	90
	Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
•	Social indicator		
	Unemployment		
	Unemployed people as % of the economically active population: 8.1 (2013)	9.4	10.5

Further information: www.jurmala.lv

www.spkc.gov.lv

www.nva.gov.lv http://en.wikipedia.org/wiki/Jurmala http://data.worldbank.org

Kadiköy, Turkey



Population (2012): 570 000 Population density: 12 591 per km² Economy: decline – stable – growth Healthy city in:



Twin cities with, since:

Agios Ioannis Rentis, Greece, 2003
Petah Tikya, Israel

	Core data		
•	Health indicator Mortality	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
	Crude mortality per 1000 inhabitants: <i>not available</i>	8.8	9.3
•	Environmental indicators		
	Air quality		
	Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : not available	12	7
	Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 μ g/m ³ : not available	0	0
	Number of days annually particulate matter ($PM_{_{10}}$) concentrations exceed 50 µg/m ³ : not available	21	20
	Number of days annually particulate matter (PM2.5) concentrations exceed 50 µg/m3: not available	Not available	17
	Water quality		
	Percentage of water pollutants removed from sewage produced: not available	100	96
	Waste		
	Municipal waste generated (domestic and commercial), in thousands of tonnes: not available	66	211
	Green space in cities		
	Surface area of green spaces in the city – km ² : not available	Not available	34
	Green space to which the public has access – km ² : not available	Not available	39
	Healthy transport		
	Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90
	Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
	Social indicator		
-	Unemployment		
	Unemployed people as % of the economically active population: <i>not available</i>	9.4	10.5

 Further information:
 http://www.skb.org.tr
 http://www.skb.org.tr/english

 http://www.citypopulation.de/php/turkey-istanbul.phpadm2id=TR10016
 http://epp.eurostat.ec.europa.eu

Karsiyaka-Izmir, Turkey



Population (2012): 310 000 Population density: 4800 per km² Economy: decline – stable – growth Healthy city in:



Core data		
Health indicator	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
Mortality Crude mortality per 1000 inhabitants: <i>not available</i>	8.8	0.3
	0.0	9.3
Environmental indicators		
Air quality		
Number of days annually ozone (O ₃) concentrations exceed 120 μ g/m ³ : <i>not available</i>	12	7
Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 µg/m ³ : not available	0	0
Number of days annually particulate matter (PM $_{_{10}}$) concentrations exceed 50 µg/m ³ : not available	21	20
Number of days annually particulate matter (PM _{2.5}) concentrations exceed 50 µg/m ³ : not available	Not available	17
Water quality		
Percentage of water pollutants removed from sewage produced: not available	100	96
Waste		
Municipal waste generated (domestic and commercial), in thousands of tonnes: not available	66	211
Green space in cities		
Surface area of green spaces in the city – km ² : not available	Not available	34
Green space to which the public has access – km ² : not available	Not available	39
Healthy transport		
Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90
Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
Social indicator		
Unemployment		
Unemployed people as % of the economically active population: <i>not available</i>	9.4	10.5

Further information: http://skpo.izmir.bel.tr/content.aspx?MID=101

http://epp.eurostat.ec.europa.eu/http://en.wikipedia.org/wiki/Emblems_of_Turkeymediaviewer/File:Insigne_Turciae.svgdata http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Kırıkkale, Turkey



Population (2012): 193 000 Population density: 630 per km² Economy: decline – stable – growth Healthy city in:



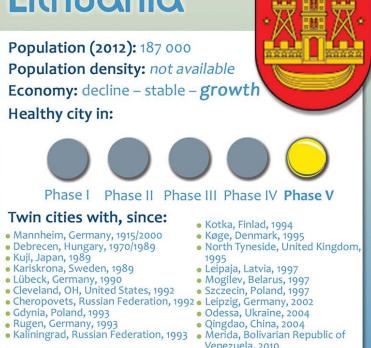
Core data		
Health indicator	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
Mortality Crude mortality per 1000 inhabitants: <i>not available</i>	8.8	9.3
Environmental indicators		
Air quality		
Number of days annually ozone (O ₃) concentrations exceed 120 µg/m ³ : <i>not available</i>	12	7
Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 μ g/m ³ : not available	0	0
Number of days annually particulate matter (PM $_{_{10}}$) concentrations exceed 50 µg/m 3 : not available	21	20
Number of days annually particulate matter (PM _{2.5}) concentrations exceed 50 µg/m ³ : not available	Not available	17
Water quality		
Percentage of water pollutants removed from sewage produced: not available	100	96
Waste		
Municipal waste generated (domestic and commercial), in thousands of tonnes: not available	66	211
Green space in cities		
Surface area of green spaces in the city – km ² : not available	Not available	34
Green space to which the public has access – km ² : not available	Not available	39
Healthy transport		
Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90
Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
recentage of communing trips by public transport (rail, metto, bus, train). Not trainable	Çi.	די
Social indicator		
Unemployment		
Unemployed people as % of the economically active population: <i>not available</i>	9.4	10.5

Further information: http://www.kirikkale-bld.gov.tr

http://en.wikipedia.org/wiki/K%C4%B1r%C4%B1kkale http://data.worldbank.org

Klaipėda, Lithuania





- Venezuela, 2010

Core data

Health indicator Mortality	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
Crude mortality per 1000 inhabitants : 12.5 (2012) <i>estimated</i>	8.8	9.3
Environmental indicators		
Air quality		
Number of days annually ozone (O ₃) concentrations exceed 120 μ g/m ³ : <i>not available</i>	12	7
Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 μ g/m ³ : not available	0	0
Number of days annually particulate matter (PM $_{_{10}}$) concentrations exceed 50 µg/m ³ : not available	21	20
Number of days annually particulate matter ($PM_{2.5}$) concentrations exceed 50 µg/m ³ : not available	Not available	17
Water quality		
Percentage of water pollutants removed from sewage produced: not available	100	96
Waste		
Municipal waste generated (domestic and commercial), in thousands of tonnes: not available	66	211
Green space in cities		
Surface area of green spaces in the city – km ² : not available	Not available	34
Green space to which the public has access – km ² : not available	Not available	39
Healthy transport		
Length of cycling network (dedicated cycle paths and lanes) – km: 82 (2011)	73	90
Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
Social indicator		
Unemployment		
Unemployed people as % of the economically active population: 13.1 (2011)	9.4	10.5
Further informations buy the set to be		

Further information: http://www.klaipeda.lt

http://en.wikipedia.org/wiki/Klaipeda http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Kocaeli, Turkey



Population (2012): 1.68 million Population density: 478 per km² Economy: decline – stable – growth Healthy city in:



Twin cities with, since:

- State of Maryland, United States, 2011
- Amsterdam, Netherlands, 2011
- Ulsan, Republic of Korea, 2012
- Kassel, Germany, 2012
- Székesfehérvár, Hungary, 2011

Core data :

Health indicator	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
Mortality	1000	
Crude mortality per 1000 inhabitants: 4.3 (2013)	8.8	9.3
Environmental indicators		
Air quality		
Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : not available	12	7
Number of days annually nitrogen dioxide (NO $_{_2}$) concentrations exceed 200 µg/m ³ : not available	0	0
Number of days annually particulate matter (PM $_{_{10}}$) concentrations exceed 50 µg/m 3 : not available	21	20
Number of days annually particulate matter (PM _{2.5}) concentrations exceed 50 µg/m ³ : not available	Not available	17
Water quality		
Percentage of water pollutants removed from sewage produced: 96 (2012)	100	96
Waste		
Municipal waste generated (domestic and commercial), in thousands of tonnes: 555 (2012)	66	211
Green space in cities		
Surface area of green spaces in the city – km²: 17 (2014)	Not available	34
Green space to which the public has access – km ² : 17 (2014)	Not available	39
Healthy transport		
Length of cycling network (dedicated cycle paths and lanes) – km: 26 (2014)	73	90
Percentage of commuting trips by public transport (rail, metro, bus, tram): 20 (2014)	15	14
Social indicator		
Unemployment		
Unemployed people as % of the economically active population: 10.1 (2013)	9.4	10.5

Further information: http://www.kocaeli.bel.tr

http://en.wikipedia.org/wiki/%C4%Bozmit http://data.worldbank.org

Kuopio, Finland







Gera, Germany

Besançon, France
Opole, Poland

• Craiova, Romania • Shanghai Pudong, China

Twin cities with, since:

- .
- Györ, Hungary Minneapolis, MN, United States
- Winnipeg, Canada Jönköping, Sweden Trabzon, Turkey Svendborg, Denmark Pitkyaranta, Russian Federation Pskov, Russian Federation

- Castrop-Rauxel, Germany Bodø, Norway
- Core data

•	Health indicator	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
	Mortality		
	Crude mortality per 1000 inhabitants: 9.5 (2012)	8.8	9.3
•	Environmental indicators		
	Air quality		
	Number of days annually ozone (O ₃) concentrations exceed 120 μ g/m ³ : 0 (2011)	12	7
	Number of days annually nitrogen dioxide (NO $_2$) concentrations exceed 200 µg/m ³ : 0 (2011)	0	0
	Number of days annually particulate matter (PM $_{_{10}}$) concentrations exceed 50 µg/m 3 : 11 (2011)	21	20
	Number of days annually particulate matter ($PM_{2.5}$) concentrations exceed 50 µg/m ³ : 3 (2011)	Not available	17
	Water quality		
	Percentage of water pollutants removed from sewage produced: 96 (2011)	100	96
	Waste		
	Municipal waste generated (domestic and commercial), in thousands of tonnes: 60 (2011)	66	211
	Green space in cities		
	Surface area of green spaces in the city – km ² : not available	Not available	34
	Green space to which the public has access – km ² : not available	Not available	39
	Healthy transport		
	Length of cycling network (dedicated cycle paths and lanes) – km: 225 (2011)	73	90
	Percentage of commuting trips by public transport (rail, metro, bus, tram): 8 (2011)	15	14
	Social indicator		
	Unemployment		
	Unemployed people as % of the economically active population: 10.4 (2011)	9.4	10.5

Further information: http://www.kuopio.fi

http://www.kuopio.fi/web/english http://en.wikipedia.org/wiki/Kuopio http://data.worldbank.org

http://epp.eurostat.ec.europa.eu http://www.kuopio.fi/web/kaupunkitietoa/tilastotietoa

Leganes, Spain





- La Guera, Morocco
- Bethlehem, West Bank and Gaza Strip 0
- Maraca, Ecuador
- Huzhou, China
- Taguist, Morocco

Core data

Health indicator Mortality	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
Crude mortality per 1000 inhabitants: not available	8.8	9.3
Environmental indicators		
Air quality		
Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : not available	12	7
Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 μ g/m ³ : not available	0	0
Number of days annually particulate matter ($PM_{_{10}}$) concentrations exceed 50 µg/m ³ : not available	21	20
Number of days annually particulate matter ($PM_{2.5}$) concentrations exceed 50 µg/m ³ : not available	Not available	17
Water quality		
Percentage of water pollutants removed from sewage produced: not available	100	96
Waste		
Municipal waste generated (domestic and commercial), in thousands of tonnes: not available	66	211
Green space in cities		
Surface area of green spaces in the city – km ² : not available	Not available	34
Green space to which the public has access – km ² : not available	Not available	39
Healthy transport		
Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90
Percentage of commuting trips by public transport (rail, metro, bus, tram): 12 (2008)	15	14
Social indicator		
Unemployment		
Unemployed people as % of the economically active population: 21.1 (2011)	9.4	10.5

Further information: http://en.wikipedia.org/wiki/Legan%C3%A9s http://epp.eurostat.ec.europa.eu

Liège, Belgium



L Population (2012): 1.04 million Population density: 2800 per km² Economy: decline – stable – growth Healthy city in:





Twin cities with, since:

- Aachen, Germany
- Cologne, Germany
 Esch-sur-Alzette, Luxembourg
- Lille, France
- Krakow, Poland
- Lubumbashi, Democratic Republic Maastricht, Netherlands
- Nancy, France
 Plzen, Czech Republic

- Szeged, Hungary
 Tangier, Morocco
 Turin, Italy
 Volvograd, Russian Federation

Rotterdam, Netherlands
Saint-Louis, Senegal

Porto, Portugal

G

Core data

•	Health indicator	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
	Mortality		
	Crude mortality per 1000 inhabitants: 11.8 (2011)	8.8	9.3
0	Environmental indicators		
	Air quality		
	Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : 12 (2011)	12	7
	Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 μ g/m ³ : 0 (2011)	0	0
	Number of days annually particulate matter (PM $_{10}$) concentrations exceed 50 µg/m ³ : 38 (2011)	21	20
	Number of days annually particulate matter (PM $_{2.5}$) concentrations exceed 50 µg/m ³ : 38 (2011)	Not available	17
	Water quality		
	Percentage of water pollutants removed from sewage produced: 100 (2011)	100	96
	Waste		
	Municipal waste generated (domestic and commercial), in thousands of tonnes: 137 (2011) estimated	66	211
	Green space in cities		
	Surface area of green spaces in the city – km ² : not available	Not available	34
	Green space to which the public has access – km ² : not available	Not available	39
	Healthy transport		
	Length of cycling network (dedicated cycle paths and lanes) – km: 71 (2008)	73	90
	Percentage of commuting trips by public transport (rail, metro, bus, tram): 8.43 (2011)	15	14
0	Social indicator		
-			
	Unemployment		
	Unemployed people as % of the economically active population: 14.8 (2011)	9.4	10.5
_			

Further information: http://en.wikipedia.org/wiki/Li%C3%A8ge http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Liverpool, United Kingdom



Population (2012): 470 000 Population density: 4200 per km² Economy: decline – stable – growth Healthy city in:



Twin cities with, since:

- Cologne, Germany, 1952
- New Orleans, LA, United States, 1972
- Dublin, Ireland, 1997
- Odessa, Ukraine, 1956
- Shanghai, China, 1999
- Rio de Janeiro, Brazil, 2004

Core data :

Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
8.8	9.3
12	7
0	0
21	20
Not available	17
100	96
66	211
Not available	34
Not available	39
73	90
15	14
9.4	10.5
	European Region (2011) 8.8 12 0 21 Not available 100 66 Not available Not available Not available

Further information: http://liverpool.gov.uk

http://www.ons.gov.uk http://en.wikipedia.org/wiki/Liverpool

http://epp.eurostat.ec.europa.eu

Ljubljana, Slovenia





- Graz, Austria, 2001
 Moscow, Russian Federation, 2001
 Nottingham, United Kingdom
- Parma, Italy, 1964

- Zagreb, Croatia, 2001

Core data

Health indicator	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
Mortality		cities network
Crude mortality per 1000 inhabitants: 8.1 (2012)	8.8	9.3
Environmental indicators		
Air quality		
Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : 44 (2011)	12	7
Number of days annually nitrogen dioxide (NO $_2$) concentrations exceed 200 µg/m ³ : 0 (2011)	0	0
Number of days annually particulate matter (PM ₁₀) concentrations exceed 50 µg/m³: 59 (2011)	21	20
Number of days annually particulate matter (PM _{2.5}) concentrations exceed 50 µg/m³: 59 (2011)	Not available	17
Water quality		
Percentage of water pollutants removed from sewage produced: not available	100	96
Waste		
Municipal waste generated (domestic and commercial), in thousands of tonnes: 116 (2012)	66	211
Green space in cities		
Surface area of green spaces in the city – km²: 272 (2008)	Not available	34
Green space to which the public has access – km ² : not available	Not available	39
Healthy transport		
Length of cycling network (dedicated cycle paths and lanes) – km: 169 (2011)	73	90
Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
Social indicator		
Unemployment		
Unemployed people as % of the economically active population: not available	9.4	10.5
Further information: http://www.ljubljana.si/en		

http://en.wikipedia.org/wiki/Ljubljana http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Łódź, Poland







Phase I Phase II Phase III Phase IV Phase V Twin cities with, since:

- Chemnitz, Germany, 1972
 Stuttgart, Germany, 1988
 Lyon, France, 1991
 Vilnius, Lithuania, 1991

- Ivanovo, Russian Federation, 1992
 Murcia, Spain, 1999
 Kaliningrad, Russian Federation, 2002
 Örebro, Sweden, 2001
- Minsk, Belarus, 1992
- Odessa, Ukraine, 1993
- Tel Aviv, Israel, 1994
 Tianjin, China, 1993

- Rustavi, China, 1994
 Barreiro, Portugal, 1996
 Tampere, Finland, 1996
- - Puebla, Mexico, 1996
- Lviv, Ukraine, 2003
- Szeged, Hungary, 2008

Core data

COLE CAR		1
Health indicator	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
Mortality		cities network
Crude mortality per 1000 inhabitants: 14.3 (2012) estimated	8.8	9.3
Environmental indicators		
Air quality		
Number of days annually ozone (O ₃) concentrations exceed 120 μ g/m ³ : 15 (2011)	12	7
Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 μ g/m ³ : 0 (2011)	0	0
Number of days annually particulate matter (PM $_{_{10}}$) concentrations exceed 50 µg/m 3 : 76 (2011)	21	20
Number of days annually particulate matter ($PM_{_{2.5}}$) concentrations exceed 50 µg/m ³ : 76 (2011)	Not available	17
Water quality		
Percentage of water pollutants removed from sewage produced: not available	100	96
Waste		
Municipal waste generated (domestic and commercial), in thousands of tonnes: 211 (2012)	66	211
Green space in cities		
Surface area of green spaces in the city – km²: 28 (2008)	Not available	34
Green space to which the public has access – km ² : 3340 (2008) estimated	Not available	39
Healthy transport		
Length of cycling network (dedicated cycle paths and lanes) – km: 99 (2014)	73	90
Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
Social indicator		
Unemployment		
Unemployed people as % of the economically active population: 11.9 (2014)	9.4	10.5

Further information: http://http://en.wikipedia.org/wiki/%C5%81%C3%B3d%C5%BA

http://epp.eurostat.ec.europa.eu

Manchester, United Kingdom



Population (2012): 460 000 Population density: 4349 per km² CONCILIO ET LABORE Economy: decline - stable - growth Healthy city in:



Twin cities with, since:

- Chemnitz, Germany
- Córdoba, Spain
- Faisalabad, Pakistan Kanpur, India
- Los Angeles, CA, United States
 Amsterdam, Netherlands
- Bilwi, Nicaragua
- Rehovot, Israel
- St Petersburg, Russian Federation
- Wuhan, China

Core data

Health indicator Mortality	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
Crude mortality per 1000 inhabitants: 6.9 (2011)	8.8	0.2
	0.0	9.3
Environmental indicators		
Air quality		
Number of days annually ozone (O ₃) concentrations exceed 120 μ g/m ³ : 2 (2011)	12	7
Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 μ g/m ³ : o (2011)	0	0
Number of days annually particulate matter (PM $_{_{10}}$) concentrations exceed 50 µg/m 3 : 10 (2008)	21	20
Number of days annually particulate matter (PM $_{2.5}$) concentrations exceed 50 µg/m ³ : 10 (2008)	Not available	17
Water quality		
Percentage of water pollutants removed from sewage produced: not available	100	96
Waste		
Municipal waste generated (domestic and commercial), in thousands of tonnes: not available	66	211
Green space in cities		
Surface area of green spaces in the city – km ² : not available	Not available	34
Green space to which the public has access – km ² : not available	Not available	39
Healthy transport		
Length of cycling network (dedicated cycle paths and lanes) – km: 229 (2008)	73	90
Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
Social indicator		
Unemployment		
Unemployed people as % of the economically active population: 11.8 (2011)	9.4	10.5

Further information: http://www.manchester.gov.uk http://en.wikipedia.org/wiki/Manchester http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Milan, Italy



Population (2012): 1.3 million Population density: not available Economy: decline - stable - growth Healthy city in: Phase I Phase II Phase III Phase IV Phase V

Krakow, Poland, 2003
Melbourne, Australia, 2004

2010

Twin cities with, since:

- Chicago, IL, United States, 1962
- Lyon, France, 1967
 Frankfurt, Germany, 1969
 Birmingham, United Kingdom, 1974
 Nakow, Polalid, 2005
 Melbourne, Australia, 2004
 Guadalajara, Mexico, 2008
 Dubai, United Arab Emirates,
- Dakar, Senegal, 1974
 Shanghai, China, 1979
- Osaka, Japan, 1981
- Tel Aviv, Israel, 1997
 Bethlehem, West Bank and Gaza Strip, 2000
- Toronto, Canada, 2003

Core data

Health indicator	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
Mortality		Cities Network
Crude mortality per 1000 inhabitants: 10.1 (2012)	8.8	9.3
Environmental indicators		
Air quality		
Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : 61 (2013)	12	7
Number of days annually nitrogen dioxide (NO $_{_2}$) concentrations exceed 200 µg/m ³ : 35 (2013)	0	0
Number of days annually particulate matter (PM $_{_{10}}$) concentrations exceed 50 µg/m ³ : 81 (2013)	21	20
Number of days annually particulate matter ($PM_{_{2.5}}$) concentrations exceed 50 µg/m ³ : 77 (2010)	Not available	17
Water quality		
Percentage of water pollutants removed from sewage produced: 74 (2008)	100	96
Waste		
Municipal waste generated (domestic and commercial), in thousands of tonnes: 666 (2013)	66	211
Green space in cities		
Surface area of green spaces in the city – km ² : not available	Not available	34
Green space to which the public has access – km ² : 22 (2013)	Not available	39
Healthy transport		
Length of cycling network (dedicated cycle paths and lanes) – km: 160 (2013)	73	90
Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
Social indicator		
Unemployment		
Unemployed people as % of the economically active population: 7.7 (2013)	9.4	10.5

Further information: http://en.wikipedia.org/wiki/Milan

http://epp.eurostat.ec.europa.eu

Modena, Italy







Twin cities with, since:

- Almaty, KazakhstanBenxi, China
- Highland Park, IL, United States
- Linz, Austria
- Londrina, Brazil
- Novi Sad, Serbia • St. Paul, MN, United States

Core data

Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
8.8	9.3
	_
12	7
0	0
21	20
Not available	17
100	96
66	211
Not available	34
Not available	39
73	90
15	14
9.4	10.5
	European Region (2011) 8.8 12 0 21 Not available 100 66 Not available Not available Not available 73 15

Further information: http://www.comune.modena.it http://en.wikipedia.org/wiki/Modena http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Montijo, Portugal



Population (2012): 41 000 Population density: 14 per km² Economy: *decline* – stable – growth Healthy city in:



Core data			
Health indicator Mortality	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network	
Crude mortality per 1000 inhabitants: <i>not available</i>	8.8	9.3	
Environmental indicators			
Air quality			
Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : not available	12	7	
Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 μ g/m ³ : not available	0	0	
Number of days annually particulate matter (PM_{10}) concentrations exceed 50 µg/m ³ : not available	21	20	
Number of days annually particulate matter ($PM_{_{2.5}}$) concentrations exceed 50 µg/m ³ : not available	Not available	17	
Water quality			
Percentage of water pollutants removed from sewage produced: not available	100	96	
Waste			
Municipal waste generated (domestic and commercial), in thousands of tonnes: not available	66	211	
Green space in cities			
Surface area of green spaces in the city – km ² : not available	Not available	34	
Green space to which the public has access – km ² : not available	Not available	39	
Healthy transport			
Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90	
Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14	
Social indicator			
Unemployment			
Unemployed people as % of the economically active population: <i>not available</i>	9.4	10.5	

Further information: http://en.wikipedia.org/wiki/Montijo,_Spain http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Nancy, France



Population (2014): 260 000 Population density: 7000 per km² Economy: decline - stable - growth Healthy city in:



Core data			
Health indicator	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network	
Mortality Crude mortality per 1000 inhabitants: <i>not available</i>	8.8	9.3	
Environmental indicators			
-			
Air quality Number of days annually ozone (O ₂) concentrations exceed 120 µg/m ³ : 21 (2011)	12	7	
Number of days annually nitrogen dioxide (NO ₃) concentrations exceed 200 μ g/m ³ : 0 (2011)	0	7 0	
Number of days annually particulate matter (PM_{μ}) concentrations exceed 50 µg/m ³ : 8 (2011)	21	20	
Number of days annually particulate matter ($PM_{2.5}$) concentrations exceed 50 µg/m ³ : 8 (2011)	Not available	17	
	Not available	12	
Water quality			
Percentage of water pollutants removed from sewage produced: not available	100	96	
Waste			
Municipal waste generated (domestic and commercial), in thousands of tonnes: 136 (2009) estimated	66	211	
Green space in cities			
Surface area of green spaces in the city – km ² : not available	Not available	34	
Green space to which the public has access – km ² : not available	Not available	39	
Healthy transport			
Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	00	
	73	90	
Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14	
Social indicator			
Unemployment			
Unemployed people as % of the economically active population: 13.6 (2010)	9.4	10.5	

Further information: http://en.wikipedia.org/wiki/Nancy,_France http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Nantes, France



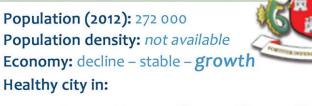


Core data				
Health indicator Mortality	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network		
Crude mortality per 1000 inhabitants: <i>not available</i>	8.8	9.3		
Environmental indicators				
Air quality				
Number of days annually ozone (O,) concentrations exceed 120 µg/m³: 188 (2011)	12	7		
Number of days annually nitrogen dioxide (NO,) concentrations exceed 200 µg/m³: o (2011)	0	0		
Number of days annually particulate matter (PM_{10}) concentrations exceed 50 µg/m ³ : 9 (2011)	21	20		
Number of days annually particulate matter (PM $_{2.5}$) concentrations exceed 50 µg/m 3 : 9 (2011)	Not available	17		
Water quality				
Percentage of water pollutants removed from sewage produced: not available	100	96		
Waste				
Municipal waste generated (domestic and commercial), in thousands of tonnes: 307 (2009) estimated	66	211		
Green space in cities				
Surface area of green spaces in the city – km ² : not available	Not available	34		
Green space to which the public has access – km ² : not available	Not available	39		
Healthy transport				
Length of cycling network (dedicated cycle paths and lanes) – km: <i>not available</i>	73	90		
Percentage of commuting trips by public transport (rail, metro, bus, tram): not available				
	15	14		
Social indicator				
Unemployment				
Unemployed people as % of the economically active population: 11.2 (2010)	9.4	10.5		
Further information: http://en.wikipedia.org/wiki/Nantes				

Further information: http://en.wikipedia.org/wiki/Nantes http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Newcastle, United Kingdom







Twin cities with, since:

- Atlanta, GA, United States
- Bergen, Norway
- Gelsenkirchen, Germany
- Groningen, Netherlands
- Halfa, Israel
- Nancy, France
- Newcastle, Australia

Core data

•	Health indicator Mortality	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
	Crude mortality per 1000 inhabitants: 8.5 (2011)	8.8	9.3
		0.0	5.5
0	Environmental indicators		
	Air quality		
	Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : 0 (2011)	12	7
	Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 μ g/m ³ : o (2011)	0	0
	Number of days annually particulate matter (PM $_{10}$) concentrations exceed 50 µg/m ³ : 6 (2011)	21	20
	Number of days annually particulate matter (PM $_{2.5}$) concentrations exceed 50 µg/m ³ : 7 (2011)	Not available	17
	Water quality		
	Percentage of water pollutants removed from sewage produced: not available	100	96
	Waste		
	Municipal waste generated (domestic and commercial), in thousands of tonnes: 147 (2011-2012)	66	211
	Green space in cities		
	Surface area of green spaces in the city – km²: 68 (2010)	Not available	34
	Green space to which the public has access – km ² : 17 (2010)	Not available	39
	Healthy transport		
	Length of cycling network (dedicated cycle paths and lanes) – km: 100 (2011)	73	90
	Percentage of commuting trips by public transport (rail, metro, bus, tram): 14 (2011)	15	14
0	Social indicator		
	Unemployment		
	Unemployed people as % of the economically active population: 11 (2011)	9.4	10.5
	has information.		

Further information: www.knownewcastle.org.uk https://www.newcastle.gov.uk http://en.wikipedia.org/wiki/Newcastle_upon_Tyne

http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Nilüfer, Turkey





- Braila, Romania • Nizami, Azerbaijan
- Tokai, Japan
- Havana, Cuba
- Umeå, Śweden
- Sirdenya, Kazakhstan

RIIRS

- Peja, Kosovo (in accordance with Security Council
 - resolution 1244 (1999))

Core dato

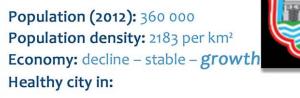
Health indicator	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
Mortality		cities network
Crude mortality per 1000 inhabitants: not available	8.8	9.3
Environmental indicators		
Air quality		
Number of days annually ozone (O ₃) concentrations exceed 120 μ g/m ³ : not available	12	7
Number of days annually nitrogen dioxide (NO $_2$) concentrations exceed 200 µg/m ³ : not available	0	0
Number of days annually particulate matter (PM $_{_{10}}$) concentrations exceed 50 µg/m 3 : not available	21	20
Number of days annually particulate matter (PM _{2.5}) concentrations exceed 50 µg/m ³ : not available	Not available	17
Water quality		
Percentage of water pollutants removed from sewage produced: not available	100	96
Waste		
Municipal waste generated (domestic and commercial), in thousands of tonnes: not available	66	211
Green space in cities		
Surface area of green spaces in the city – km ² : not available	Not available	34
Green space to which the public has access – km ² : not available	Not available	39
Healthy transport		
Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90
Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
Social indicator		
Unemployment		
Unemployed people as % of the economically active population: <i>not available</i>	9.4	10.5

Further information: http://www.nilufercity.eu

http://en.wikipedia.org/wiki/Nil%C3%BCfer,_Bursa http://data.worldbank.org

Novi Sad, Serbia







Twin cities with, since:

- Banja Luka, Bosnia and Herzegovina
- Budva, Montenegro
- Changchun, China
- Dortmund, Germany Gomel, Belarus
- Illioupolis, Greece
 Modena, Italy
- Nizhny Novgorod, Russian Federation
 Norwich, United Kingdom

- Pécs, Hungary
 Timisoara, Romania

Core data

•	Health indicator Mortality	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
	Crude mortality per 1000 inhabitants: 11.3 (2011)	8.8	9.3
0	Environmental indicators		
	Air quality		
	Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : 20 (2012)	12	7
	Number of days annually nitrogen dioxide (NO $_2$) concentrations exceed 200 µg/m ³ : o (2012)	0	o
	Number of days annually particulate matter (PM $_{10}$) concentrations exceed 50 µg/m ³ : 32 (2012)	21	20
	Number of days annually particulate matter (PM $_{_{2.5}}$) concentrations exceed 50 µg/m 3 : 0 (2012)	Not available	17
	Water quality		
	Percentage of water pollutants removed from sewage produced: not available	100	96
	Waste		
	Municipal waste generated (domestic and commercial), in thousands of tonnes: 106 (2008)	66	211
	Green space in cities		
	Surface area of green spaces in the city – km²: 33 (2013)	Not available	34
	Green space to which the public has access – km ² : 13 (2014)	Not available	39
	Healthy transport		
	Length of cycling network (dedicated cycle paths and lanes) – km: 65 (2010)	73	90
	Percentage of commuting trips by public transport (rail, metro, bus, tram): 8 (2009)	15	14
0	Social indicator		
-	Unemployment		
	Unemployed people as % of the economically active population: 17.9 (2013)	9.4	10.5

Further information: http://www.novisad.rs/novi-sad-danas

http://epp.eurostat.ec.europa.eu

http://www.novisad.rs/eng/novi-sad-today http://en.wikipedia.org/wiki/Novi_Sad http://www.novisad.rs/gradska-uprava-za-saobra-i-puteve http://www.nsz.gov.rs/live/dokumenti/statisti_ki_bilteni_nsz_-_2013._godina.cid11155 www.eko.vojvodina.gov.rs

 $http://www.novisad.rs/biciklisticke-staze \ http://atisma.home.xs4all.nl/Studija%20zelenih%20i%20rekreativnih%20povrsina_print.pdf \ http://atisma.home.xs4all.nl/Studija%20zelenih%20i%20rekreativnih%20povrsina_print.pdf \ http://atisma.home.xs4all.nl/Studija%20zelenih%20i%20rekreativnih%20povrsina_print.pdf \ http://atisma.home.xs4all.nl/Studija%20zelenih%20i%20rekreativnih%20povrsina_print.pdf \ http://atisma.home.xs4all.nl/Studija%20zelenih%20i%20rekreativnih%20povrsina_print.pdf \ http://atisma.home.xs4all.nl/Studija%20zelenih%20i%20rekreativnih%20povrsina_print.pdf \ http://atisma.home.xs4all.nl/Studija%20zelenih%20i%20rekreativnih%20povrsina_print.pdf \ http://atisma.home.xs4all.nl/Studija%20zelenih%20i%20rekreativnih%20povrsina_print.pdf \ http://atisma.home.xs4all.nl/Studija%20zelenih%20i%20rekreativnih%20povrsina_print.pdf \ http://atisma.home.xs4all.nl/Studija%20zelenih%20i%20rekreativnih%20povrsina_print.pdf \ http://atisma.home.xs4all.nl/Studija%20zelenih%20i%20rekreativnih%20povrsina_print.pdf \ http://atisma.home.xs4all.nl/Studija%20zelenih%20i%20rekreativnih%20povrsina_print.pdf \ http://atisma.home.xs4all.nl/Studija%20zelenih%20i%20rekreativnih%20povrsina_print.pdf \ http://atisma.home.xs4all.nl/Studija%20zelenih%20i%20rekreativnih%20povrsina_print.pdf \ http://atisma.home.xs4all.nl/Studija%20zelenih%20i%20rekreativnih%20povrsina_print.pdf \ http://atisma.home.xs4all.nl/Studija%20zelenih%20povrsina_print.pdf \ http://atisma.home.xs4all.nl/Studija%20povrsina_print.pdf \ http://atisma.home.xs4all.nl/Studija%20povrsi$

Novocheboksarsk, Russian Federation





- Klimovsk, Russian Federation
- Sterlitamak, Russian Federation
- Zatec, Czech Republic

(Core	data (nuvas	h Re	gion,) =

Health indicator	Median all Europe (2011)	Median, members of the WHO European Healthy
Mortality	and the second	Cities Network
Crude mortality per 1000 inhabitants: 13.3 (2012)	8.8	9.3
Environmental indicators		
Air quality		
Sulfur dioxide (SO ₂) emitted from fossil-fuel combustion in thousands of tonnes per year: $0.37(2012)$	Not available	Not available
Nitrogen oxides (NO _x) emitted from fossil-fuel combustion in thousands of tonnes per year: 4.02 (2012)	Not available	Not available
Carbon dioxide (CO ₂) emitted from fossil-fuel combustion in thousands of tonnes per year: 1.78 (2012)	Not available	Not available
Solids emitted from fossil-fuel combustion in thousands of tonnes per year: 0.19 (2012)	Not available	Not available
Hydrocarbons (excluding methane) emitted from fossil-fuel combustion in thousands of tonnes per year: 0.04 (2012)	Not available	Not available
Water quality		
Percentage of water pollutants removed from sewage produced: not available	100	96
Waste		
Municipal waste collected in thousands of m ³ : 1913 (2012)	66	Not available
Green space in cities		
Surface area of green spaces in the city – km ² : not available	Not available	34
Green space to which the public has access – km ² : not available	Not available	39
Healthy transport		
Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90
Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
Social indicator		
Unemployment		
Unemployed people as % of the economically active population: not available	9.4	10.5
Further information: http://gov.cap.ru/Default.aspx?gov_id=82		

http://en.wikipedia.org/wiki/Novocheboksarsk http://knoema.com/atlas/Russian-Federation

Novosibirsk, Russian Federation





- Daejeon, Republic of Korea, 2001
- Changchun, China, 1994
- Minneapolis, MN, United States
- Varna, Bulgaria
- Sapporo, Japan, 1990
- Minsk, Belarus

Health indicator	Median all Europe (2011)	Median, members of the WHO European Healthy
Mortality		Cities Network
Crude mortality per 1000 inhabitants: 1 3.6 (2012)	8.8	9.3
Environmental indicators		
Air quality		
Sulfur dioxide (SO_2) emitted from fossil-fuel combustion in thousands of tonnes per year: 49.3 (2012)	Not available	Not available
Nitrogen oxides (NO _x) mitted from fossil-fuel combustion in thousands of tonnes per year: 39.7 (2012)	Not available	Not available
Carbon dioxide (CO_2) emitted from fossil-fuel combustion in thousands of tonnes per year: 34.4 (2012)	Not available	Not available
Solids emitted from fossil-fuel combustion in thousands of tonnes per year: 42.6 (2012)	Not available	Not available
Hydrocarbons (excluding methane) emitted from fossil-fuel combustion in thousands of tonnes per year: 0.14 (2012)	Not available	Not available
Water quality		
Percentage of water pollutants removed from sewage produced: not available	100	96
Waste		
Municipal waste collected in thousands of m ³ : 3313 (2012)	66	Not available
Green space in cities		
Surface area of green spaces in the city – km ² : not available	Not available	34
Green space to which the public has access – km ² : not available	Not available	39
Healthy transport		
Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90
Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
Social indicator		
Unemployment		
Unemployed people as % of the economically active population: not available	9.4	10.5
iurther information: http://www.povo.sibirsk.ru		

Further information: http://www.novo-sibirsk.ru

http://en.wikipedia.org/wiki/Novosibirsk http://knoema.com/atlas/Russian-Federation http://data.worldbank.org

Oeiras, Portugal

Phase I



Population (2012): 171 000 Population density: not available Economy: decline - stable - growth TA DE OEI Healthy city in: Phase II Phase III Phase IV Phase V

10.5

9.4

Core data Median, WHO Median, members European Region (2011) of the WHO European Healthy Cities Network Health indicator Mortality Crude mortality per 1000 inhabitants: not available 8.8 9.3 **Environmental indicators** Air quality Number of days annually ozone (O3) concentrations exceed 120 µg/m3: not available 12 7 Number of days annually nitrogen dioxide (NO₃) concentrations exceed 200 µg/m³: not available 0 0 Number of days annually particulate matter (PM,,) concentrations exceed 50 µg/m³: not available 21 20 Number of days annually particulate matter (PM, c) concentrations exceed 50 µg/m³: not available Not available 17 Water quality Percentage of water pollutants removed from sewage produced: not available 100 96 Waste Municipal waste generated (domestic and commercial), in thousands of tonnes: not available 66 211 Green space in cities Surface area of green spaces in the city – km²: not available Not available 34 Green space to which the public has access - km²: not available Not available 39 **Healthy transport** Length of cycling network (dedicated cycle paths and lanes) – km: not available 73 90 Percentage of commuting trips by public transport (rail, metro, bus, tram): not available 15 14 Social indicator Unemployment

Unemployed people as % of the economically active population: not available

Further information: http://en.wikipedia.org/wiki/Oeiras_Municipality,_Portugal

http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Østfold County, Norway



Population (2014): 285 000 Population density: 66 per km² Economy: decline – stable – growth Healthy city in:



Twin cities with, since:

Bohuslän, Sweden

	Core data				
•	Health indicator Mortality	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network		
	Crude mortality per 1000 inhabitants: 9.3 (2013)	8.8	9-3		
0	Environmental indicators				
	Air quality				
	Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : not available	12	7		
	Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 μ g/m ³ : not available	0	0		
	Number of days annually particulate matter (PM $_{_{10}}$) concentrations exceed 50 µg/m ³ : not available	21	20		
	Number of days annually particulate matter (PM $_{_{2.5}}$) concentrations exceed 50 µg/m ³ : not available	Not available	17		
	Water quality				
	Percentage of water pollutants removed from sewage produced: not available	100	96		
	Waste				
	Municipal waste generated (domestic and commercial), in thousands of tonnes: not available	66	211		
	Green space in cities				
	Surface area of green spaces in the city – km ² : not available	Not available	34		
	Green space to which the public has access – km ² : not available	Not available	39		
	Healthy transport				
	Length of cycling network (dedicated cycle paths and lanes) – km: 2467 (2013)	73	90		
	Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14		
0	Social indicator				
	Unemployment				
	Unemployed people as % of the economically active population: 3.8 (2014)	9.4	10.5		
Eur	ther information: http://www.ostfold-f.kommune.po				

Further information: http://www.ostfold-f.kommune.no http://en.wikipedia.org/wiki/Ostfold http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Ourense, Spain



Population (2012): 336 000 Population density: not available Economy: *decline* – stable – growth Healthy city in:



	Core data				
٠	Health indicator Mortality	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network		
	Crude mortality per 1000 inhabitants: 10.2 (2012)	8.8	9.3		
•	Environmental indicators				
-	Air quality				
	Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : not available	12	7		
	Number of days annually nitrogen dioxide (NO2) concentrations exceed 200 µg/m3: not available	0	0		
	Number of days annually particulate matter (PM_{10}) concentrations exceed 50 µg/m ³ : not available	21	20		
	Number of days annually particulate matter ($PM_{_{2.5}}$) concentrations exceed 50 µg/m ³ : not available	Not available	17		
	Water quality				
	Percentage of water pollutants removed from sewage produced: not available	100	96		
	Waste				
	Municipal waste generated (domestic and commercial), in thousands of tonnes: not available	66	211		
	Green space in cities				
	Surface area of green spaces in the city – km ² : not available	Not available	34		
	Green space to which the public has access – km ² : not available	Not available	39		
	Healthy transport				
	Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90		
	Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14		
	Social indicator				
-	Unemployment				
	Unemployed people as % of the economically active population: 16.7 (2012) <i>estimated</i>	9.4	10.5		

Further information: http://en.wikipedia.org/wiki/Ourense

http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Padua, Italy



Population (2012): 212 000 Population density: 2300 per km² Economy: decline - stable - growth Healthy city in: Phase I Phase II Phase III Phase IV Phase V Twin cities with, since:

- Nancy, France, 1964
- Freiburg, Germany, 1967Boston, MA, United States, 1983
- Handan, China, 1988
- Iasi, Romania, 1995
- Beira, Mozambique, 1995
- Coimbra, Portugal, 1998
 Cagliari, Italy, 2002
- Zadar, Croatia, 2003

Core data

۲	Health indicator Mortality	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
	Crude mortality per 1000 inhabitants: 12.3 (2012)	8.8	9.3
0	Environmental indicators		
	Air quality		
	Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : 104 (2011)	12	7
	Number of days annually nitrogen dioxide (NO $_2$) concentrations exceed 200 µg/m ³ : 0 (2011)	0	0
	Number of days annually particulate matter (PM $_{10}$) concentrations exceed 50 µg/m ³ : 93 (2011)	21	20
	Number of days annually particulate matter ($PM_{2.5}$) concentrations exceed 50 µg/m ³ : 93 (2011)	Not available	17
	Water quality		
	Percentage of water pollutants removed from sewage produced: 46 (2008)	100	96
	Waste		
	Municipal waste generated (domestic and commercial), in thousands of tonnes: 151 (2010)	66	211
	Green space in cities		
	Surface area of green spaces in the city – km ² : not available	Not available	34
	Green space to which the public has access – km ² : not available	Not available	39
	Healthy transport		
	Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90
	Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
	Social indicator		
	Unemployment		
	Unemployed people as % of the economically active population: not available	9.4	10.5

Further information: http://en.wikipedia.org/wiki/Padua http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Pärnu, Estonia



Population (2012): 44 000 Population density: not available Economy: decline - stable - growth Healthy city in:



• Portsmouth, NH, United States Sochi, Russian Federation

Twin cities with, since:

- Siauliai, Lithuania
 Jelgava, Latvia
 Gran, Norway

- Helsingborg, Sweden Södertälje, Sweden Oskarhamn, Sweden Vaasa, Finland
- .
- . .
- .
- Helsingør, Denmark Siófok, Hungary Ocean City, MD, United States

Core data

•	Health indicator Mortality	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
	Crude mortality per 1000 inhabitants: <i>not available</i>	8.8	9.3
•	Environmental indicators		
	Air quality		
	Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : not available	12	7
	Number of days annually nitrogen dioxide (NO2) concentrations exceed 200 µg/m³: not available	0	o
	Number of days annually particulate matter (PM $_{_{10}}$) concentrations exceed 50 µg/m ³ : not available	21	20
	Number of days annually particulate matter (PM _{2.5}) concentrations exceed 50 µg/m ³ : not available	Not available	17
	Water quality		
	Percentage of water pollutants removed from sewage produced: not available	100	96
	Waste		
	Municipal waste generated (domestic and commercial), in thousands of tonnes: not available	66	211
	Green space in cities		
	Surface area of green spaces in the city – km ² : not available	Not available	34
	Green space to which the public has access – km ² : not available	Not available	39
	Healthy transport		
	Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90
	Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
•	Social indicator		
	Unemployment		
	Unemployed people as % of the economically active population: <i>not available</i>	9.4	10.5

Further information: http://www.parnu.ee/lang/eng http://en.wikipedia.org/wiki/Parnu http://data.worldbank.org

Pécs, Hungary



Population (2012): 158 000 Population density: not available Economy: decline - stable - growth LVIIA Healthy city in: Phase I Phase II Phase III Phase IV Phase V Twin cities with, since:

Arad, Romania

- Cluj-Napoca, Romania
- Fellbach, Germany
 Graz, Austria
- Kutahya, Turkey
 Lahti, Finland
- Dijon, France
- Grenoble, France
- Lyon, France
- Novi Sad, Serbia
- Olomouc, Czech Republic
- Osijek, Croatia
- Seattle, WA, United States
- Silven, Bulgaria
 Terracina, Italy
- Tucson, AZ, United States
- Tuzla, Bosnia and Herzegovina
- <u>Core data</u>

Health indicator	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
Crude mortality per 1000 inhabitants: 13.1 (2012)	8.8	9.3
Environmental indicators		
Air quality		
Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : 22 (2011)	12	7
Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 μ g/m ³ : 14 (2011)	0	0
Number of days annually particulate matter (PM_{10}) concentrations exceed 50 µg/m ³ : not available	21	20
Number of days annually particulate matter ($PM_{_{2,5}}$) concentrations exceed 50 µg/m ³ : not available	Not available	17
Water quality		
Percentage of water pollutants removed from sewage produced: 100 (2008)	100	96
Waste		
Municipal waste generated (domestic and commercial), in thousands of tonnes: 48 (2012)	66	211
Green space in cities		
Surface area of green spaces in the city – km²: 11 (2008)	Not available	34
Green space to which the public has access – km²: 1058 (2008)	Not available	39
Healthy transport		
Length of cycling network (dedicated cycle paths and lanes) – km: 5 (2008) estimated	73	90
Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
Social indicator		
Unemployed people as % of the economically active population: 13 (2011)	9.4	10.5
	Mortality Crude mortality per 1000 inhabitants: 13.1 (2012) Environmental indicators Air quality Number of days annually ozone (O ₃) concentrations exceed 120 µg/m ³ : 22 (2011) Number of days annually nitrogen dioxide (NO ₃) concentrations exceed 200 µg/m ³ : 14 (2011) Number of days annually particulate matter (PM ₁₀) concentrations exceed 50 µg/m ³ : not available Number of days annually particulate matter (PM ₂₅) concentrations exceed 50 µg/m ³ : not available Water quality Percentage of water pollutants removed from sewage produced: 100 (2008) Waste Municipal waste generated (domestic and commercial), in thousands of tonnes: 48 (2012) Green space in cities Surface area of green spaces in the city – km ³ : 11 (2008) Green space to which the public has access – km ³ : 1058 (2008) Healthy transport Length of cycling network (dedicated cycle paths and lanes) – km: 5 (2008) <i>estimated</i>	Health indicator European Region (conf) Mortality 8.8 Crude mortality per 1000 inhabitants: 13,1 (2012) 8.8 Environmental indicators 8.8 Air quality 12 Number of days annually ozone (0,) concentrations exceed 120 µg/m²: 22 (2011) 12 Number of days annually nitrogen dioxide (NO,) concentrations exceed 200 µg/m²: 14 (2011) 0 Number of days annually particulate matter (PM _{wb}) concentrations exceed 50 µg/m²: not available Not available Water quality 100 Percentage of water pollutants removed from sewage produced: 100 (2008) 100 Waste 100 Surface area of green spaces in the city – km²: 11 (2008) Not available Green space to which the public has access – km²: 1058 (2008) Not available Healthy transport 15 Length of cycling network (dedicated cycle paths and lanes) – km: 5 (2008) estimated 73 Precentage of commuting trips by public transport (rail, metro, bus, tram): not available 15

Further information: http://en.wikipedia.org/wiki/P%C3%A9cs http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Poznań, Poland







• Ra'anana, Israel, 2010

Rennes, France, 1998
Shenzen, China, 1993

• Toledo, OH, United States, 1991

Phase I Phase II Phase III Phase IV Phase V Twin cities with, since:

- Assen, Netherlands, 1992 • Brno, Czech Republic, 1966
- Kharkiv, Ukraine, 1998
- Györ, Hungary, 2008 Hannover, Germany, 1979
- Bay City, MI, United States, 1997 Nottingamshire, United Kingdom, 1994

- Jyväskylä, Finland, 1979
 Kutaisi, Georgia
 Nablus, West Bank and Gaza Strip
- Pozuelo de Alarcón, Spain

Core dato

•	Health indicator Mortality	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
	Crude mortality per 1000 inhabitants: 10.3 (2012) <i>estimated</i>	8.8	9.3
•	Environmental indicators		
	Air quality		
	Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : 12 (2011)	12	7
	Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 μ g/m ³ : 4 (2011)	0	0
	Number of days annually particulate matter (PM $_{_{10}}$) concentrations exceed 50 µg/m 3 : 88 (2011)	21	20
	Number of days annually particulate matter ($PM_{2.5}$) concentrations exceed 50 µg/m ³ : 88 (2011)	Not available	17
	Water quality		
	Percentage of water pollutants removed from sewage produced: not available	100	96
	Waste		
	Municipal waste generated (domestic and commercial), in thousands of tonnes: 204 (2012)	66	211
	Green space in cities		
	Surface area of green spaces in the city – km²: 38 (2008)	Not available	34
	Green space to which the public has access – km ² : 2981 (2008)	Not available	39
	Healthy transport		
	Length of cycling network (dedicated cycle paths and lanes) – km: 105 (2011)	73	90
	Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
	Social indicator		
	Unemployment		
	Unemployed people as % of the economically active population: <i>not available</i>	9.4	10.5

Further information: http://www.poznan.pl/mim/main/enot availabledministration-of-the-city-of-poznan,p,8270.html

http://en.wikipedia.org/wiki/Pozna%C5%84

http://epp.eurostat.ec.europa.eu

Preston, United Kingdom







Twin cities with, since:

- Almelo, Netherlands
- Kalisz, Poland
- Nimes, France
- Recklinghausen, Germany

Health indicator	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
Mortality		Cities Network
Crude mortality per 1000 inhabitants: 8.0 (2011)	8.8	9.3
Environmental indicators		
Air quality		
Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : 0 (2013)	12	7
Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 μ g/m ³ : 0 (2013)	0	0
Number of days annually particulate matter (PM $_{10}$) concentrations exceed 50 µg/m 3 : 6 (2008)	21	20
Number of days annually particulate matter (PM $_{2.5}$) concentrations exceed 50 µg/m ³ : 17 (2013)	Not available	17
Water quality		
Percentage of water pollutants removed from sewage produced: not available	100	96
Waste		
Municipal waste generated (domestic and commercial), in thousands of tonnes: 52 (2013)	66	211
Green space in cities		
Surface area of green spaces in the city – km ² : 8 (2010)	Not available	34
Green space to which the public has access – km ² : not available	Not available	39
Healthy transport		
Length of cycling network (dedicated cycle paths and lanes) – km: 55 (2014)	73	90
Percentage of commuting trips by public transport (rail, metro, bus, tram): 14 (2011)	15	14
Social indicator		
Unemployment		
Unemployed people as % of the economically active population: 10.2 (2011)	9.4	10.5

Further information: http://www.preston.gov.uk

http://www.lancashire.gov.uk/corporate/web/?siteid=6120&pageid=41424 http://en.wikipedia.org/wiki/Preston http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Ptolemaidas, Greece



Population (2012): 40 000 Population density: 171 per km² Economy: decline - stable - growth Healthy city in:



Twin cities with, since:

- Enkomi, CyprusMost, Czech Republic

	Core data			
•	Health indicator	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network	
	Mortality			
	Crude mortality per 1000 inhabitants: not available	8.8	9.3	
0	Environmental indicators			
	Air quality			
	Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : not available	12	7	
	Number of days annually nitrogen dioxide (NO2) concentrations exceed 200 µg/m3: not available	0	0	
	Number of days annually particulate matter (PM_{10}) concentrations exceed 50 µg/m ³ : not available	21	20	
	Number of days annually particulate matter ($PM_{2.5}$) concentrations exceed 50 µg/m ³ : not available	Not available	17	
	Water quality			
	Percentage of water pollutants removed from sewage produced: not available	100	96	
	Waste			
	Municipal waste generated (domestic and commercial), in thousands of tonnes: not available	66	211	
	Green space in cities			
	Surface area of green spaces in the city – km ² : not available	Not available	34	
	Green space to which the public has access – km ² : not available	Not available	39	
	Healthy transport			
	Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90	
	Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14	
	Social indicator			
-				
	Unemployment			
	Unemployed people as % of the economically active population: not available	9.4	10.5	
Sur	ther information: http://en.wikipedia.org/wiki/Ptolemaida			

Further information: http://en.wikipedia.org/wiki/Ptolemaida http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Rennes, France



Population (2012): 210 000 Population density: 4100 per km² Economy: decline - stable - growth Healthy city in: Phase I Phase II Phase III Phase IV Phase V

> Dogon, Mali, 1995 Poznan, Poland, 1998 • Sibiu, Romania, 1999

Jinan, China, 2002

Twin cities with, since:

- Exeter, United Kingdom, 1956
 Rochester, NY, United States, 1958
- Erlangen, Germany, 1964
- Brno, Czech Republic, 1965
- Shendai, Japan, 1967
 Leuven, Belgium, 1980
- Setif, Algeria, 1982
- Cork, Ireland, 1982
- Almaty, Kazakhstan, 1991

Core data

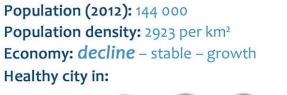
٠	Health indicator Mortality	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
	Crude mortality per 1000 inhabitants: <i>not available</i>	8.8	9.3
•	Environmental indicators		
	Air quality		
	Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : 5 (2011)	12	7
	Number of days annually nitrogen dioxide (NO $_2$) concentrations exceed 200 µg/m ³ : 0 (2011)	0	o
	Number of days annually particulate matter (PM_{10}) concentrations exceed 50 µg/m ³ : 5 (2011)	21	20
	Number of days annually particulate matter ($PM_{2.5}$) concentrations exceed 50 µg/m ³ : 5 (2011)	Not available	17
	Water quality		
	Percentage of water pollutants removed from sewage produced: not available	100	96
	Waste		
	Municipal waste generated (domestic and commercial), in thousands of tonnes: 188 (2009) estimated	66	211
	Green space in cities		
	Surface area of green spaces in the city – km ² : not available	Not available	34
	Green space to which the public has access – km ² : not available	Not available	39
	Healthy transport		
	Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90
	Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
0	Social indicator		
	Unemployment		
	Unemployed people as % of the economically active population: 10.4 (2010)	9.4	10.5

Further information: http://en.wikipedia.org/wiki/Rennes

http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Rijeka, Croatia







Twin cities with, since:

- Bitola, the former Yugoslav Republic of Macedonia
- Faenza, Italy
- Este, Italy
- Genoa, Italy
 Rostock, Germany
 Ljubljana, Slovenia
 Kawasaki, Japan
- Yalta, Ukraine
- Cetinje, Montenegro
- Qingdao, China
 Pittsburgh, PA, United States

Core data

•	Health indicator Mortality	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
	Crude mortality per 1000 inhabitants: <i>not available</i>	8.8	9.3
0	Environmental indicators		
	Air quality		
	Number of days annually ozone (O ₃) concentrations exceed 120 μ g/m ³ : <i>not available</i>	12	7
	Number of days annually nitrogen dioxide (NO $_2$) concentrations exceed 200 µg/m ³ : not available	0	0
	Number of days annually particulate matter (PM $_{_{10}}$) concentrations exceed 50 µg/m 3 : not available	21	20
	Number of days annually particulate matter ($PM_{2.5}$) concentrations exceed 50 µg/m ³ : not available	Not available	17
	Water quality		
	Percentage of water pollutants removed from sewage produced: not available	100	96
	Waste		
	Municipal waste generated (domestic and commercial), in thousands of tonnes: not available	66	211
	Green space in cities		
	Surface area of green spaces in the city – km ² : not available	Not available	34
	Green space to which the public has access – km ² : not available	Not available	39
	Healthy transport		
	Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90
	Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
•	Social indicator		
	Unemployment		
	Unemployed people as % of the economically active population: not available	9.4	10.5
Furt	ther information: http://www.zdravi-gradovi.com.hr/home-eng/who-we-are.aspx		

Further information: http://www.zdravi-gradovi.com.hr/home-eng/who-we-are.aspx http://en.wikipedia.org/wiki/Rijeka http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Rotterdam, Netherlands



Population (2012): 600 000 Population density: 2969 per km² Economy: decline - stable - growth Healthy city in:



Phase I Phase II Phase IV Phase V

Shanghai, China, 1979

St Petersburg, Russian

Median, members of the WHO European Healthy Cities Network

9.3

7

0

20

17

96

211

34

39

90

14

10.5

Twin cities with, since:

- Baltimore, MD, United States, 1985
- Burgas, Bulgaria, 1976
- Constanta, Romania, 1976
- Dresden, Germany, 1988 Esch-sur-Alzette, Luxembourg, 1958
- Gdansk, Poland, 1977
- Havana, Cuba, 1983
- Cologne, Germany, 1958
- Lille, France, 1958
- Liège, Belgium, 1958

Core data

Health indicator

Mortality

Crude mortality per 1000 inhabitants: 9.1 (2012)

Environmental indicators

Air quality Number of days annually ozone (O₃) concentrations exceed 120 µg/m³: 1 (2011) Number of days annually nitrogen dioxide (NO₃) concentrations exceed 200 µg/m³: 0 (2011) Number of days annually particulate matter (PM_) concentrations exceed 50 µg/m³: 21 (2011) Number of days annually particulate matter (PM₂) concentrations exceed 50 µg/m³: 21 (2011)

Water quality

Percentage of water pollutants removed from sewage produced: 100 (2010)

Waste

Municipal waste generated (domestic and commercial), in thousands of tonnes: 319 (2012)

Green space in cities

Surface area of green spaces in the city – km²: not available

Green space to which the public has access - km²: not available

Healthy transport

Length of cycling network (dedicated cycle paths and lanes) - km: not available Percentage of commuting trips by public transport (rail, metro, bus, tram): not available

Social indicator

Unemployment

Unemployed people as % of the economically active population: 10.6 (2012)

Further information: http://www.rotterdam.nl

http://en.wikipedia.org/wiki/Rotterdam http://epp.eurostat.ec.europa.eu http://data.worldbank.org





Median, WHO

European Region

(2011)

8.8

12

0

21

Not available

100

66

Not available

Not available

73

15

9.4

Samara, Russian Federation





- Zhengzhou, China
- St. Louis, MO, United States
- Stara Zagora, Bulgaria
- Stuttgart, GermanyDenizli, Turkey
- Koper, Slovenia

(Samar

Core data (Samara region)		
Health indicator	Median all Europe (2011)	Median, members of the WHO European Healthy
Mortality		European Healthy Cities Network
Crude mortality per 1000 inhabitants: 13.9 (2012)	8.8	9.3
Environmental indicators		
Air quality		
Sulfur dioxide (SO ₂) emitted from fossil-fuel combustion in thousands of tonnes per year: 16.5 (2012)	Not available	Not available
Nitrogen oxides (NO _x) emitted from fossil-fuel combustion in thousands of tonnes per year: 19.7 (2012)	Not available	Not available
Carbon dioxide (CO $_2$) emitted from fossil-fuel combustion in thousands of tonnes per year: 10.5 (2012)	Not available	Not available
Solids emitted from fossil-fuel combustion in thousands of tonnes per year: 1.12 (2012)	Not available	Not available
Hydrocarbons (excluding methane) emitted from fossil-fuel combustion in thousands of tonnes per year: 0.21 (2012)	Not available	Not available
Water quality		
Percentage of water pollutants removed from sewage produced: not available	100	96
Waste		
Municipal waste collected in thousands of m ³ : 12 099 (2012)	66	Not available
Green space in cities		
Surface area of green spaces in the city – km ² : not available	Not available	34
Green space to which the public has access – km ² : not available	Not available	39
Healthy transport		
Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90
Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
Social indicator		
Unemployment		
Unemployed people as % of the economically active population: not available	9.4	10.5
Further information: http://city.samara.ru		

Further information: http://city.samara.ru

http://en.wikipedia.org/wiki/Samara,_Russia http://knoema.com/atlas/Russian-Federation http://data.worldbank.org

San Fernando, Spain



Population (2012): 40 000 Population density: 3100 per km² Economy: decline - stable - growth Healthy city in:



Phase I Phase II Phase IV Phase V

Twin cities with, since:

Montigny-le-Bretonneux, FranceBadalona, Spain

•	Health indicator	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
	Mortality		
	Crude mortality per 1000 inhabitants: not available	8.8	9.3
0	Environmental indicators		
	Air quality		
	Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : not available	12	7
	Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 μ g/m ³ : not available	0	0
	Number of days annually particulate matter (PM $_{_{10}}$) concentrations exceed 50 µg/m ³ : not available	21	20
	Number of days annually particulate matter (PM $_{_{2.5}}$) concentrations exceed 50 µg/m ³ : not available	Not available	17
	Water quality		
	Percentage of water pollutants removed from sewage produced: not available	100	96
	Waste		
	Municipal waste generated (domestic and commercial), in thousands of tonnes: not available	66	211
	Green space in cities		
	Surface area of green spaces in the city – km ² : not available	Not available	34
	Green space to which the public has access – km ² : not available	Not available	39
	Healthy transport		
	Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90
	Percentage of commuting trips by public transport (rail, metro, bus, tram): 12 (2008)	15	14
	Social indication		
0	Social indicator		
	Unemployment		
	Unemployed people as % of the economically active population: 23.9 (2011)	9.4	10.5

Further information: http://en.wikipedia.org/wiki/San_Fernando,_C%C3%A1diz http://epp.eurostat.ec.europa.eu

http://data.worldbank.org

San Sebastián, Spain





- Plymouth, United Kingdom
- Trento, Italy
- Wiesbaden, Germany
- Reno, NV, United States

Core data :

Health indicator Mortality		Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
Crude mortality per 1000 inhabitan	ts: 4.4 (2012)	8.8	9.3
 Environmental indicate Air quality 			
Number of days annually ozone (O) concentrations exceed 120 μg/m³: 0 (2011)	12	7
Number of days annually nitrogen	lioxide (NO ₂) concentrations exceed 200 μg/m³: 0 (2011)	0	0
Number of days annually particulat	e matter (PM,,) concentrations exceed 50 μg/m³: <i>not available</i>	21	20
Number of days annually particulat	e matter (PM _{2.5}) concentrations exceed 50 µg/m³: <i>not available</i>	Not available	17
Water quality			
Percentage of water pollutants ren	noved from sewage produced: not available	100	96
Waste			
Municipal waste generated (dome	tic and commercial), in thousands of tonnes: not available	66	211
Green space in cities			
Surface area of green spaces in the	city – km²: not available	Not available	34
Green space to which the public ha	s access – km ² : not available	Not available	39
Healthy transport			
Length of cycling network (dedicat	ed cycle paths and lanes) – km: not available	73	90
Percentage of commuting trips by	public transport (rail, metro, bus, tram): not available	15	14
Social indicator Unemployment			
Unemployed people as % of the eco	nomically active population: 12.7 (2011) estimated	9.4	10.5

Further information: http://en.wikipedia.org/wiki/San_Sebasti%C3%A1n http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Sandnes, Norway



Population (2014): 72 000 Population density: 237 per km² Economy: decline – stable – growth Healthy city in:



9.4

Twin cities with, since:

- Nyborg, Denmark
- Pernio, Finland
- Mariestad, Sweden

•	Health indicator Mortality	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
	Crude mortality per 1000 inhabitants: 5.6 (2014)	8.8	9.3
•	Environmental indicators		
	Air quality		
	Number of days annually ozone (O ₃) concentrations exceed 120 μ g/m ³ : 12 (2014)	12	7
	Number of days annually nitrogen dioxide (NO $_2$) concentrations exceed 200 µg/m ³ : 0 (2014)	0	0
	Number of days annually particulate matter (PM_{10}) concentrations exceed 50 µg/m ³ : 0 (2014)	21	20
	Number of days annually particulate matter ($PM_{_{2,5}}$) concentrations exceed 50 µg/m ³ : 0 (2014)	Not available	17
	Water quality		
	Percentage of water pollutants removed from sewage produced: 76 (2014)	100	96
	Waste		
	Municipal waste generated (domestic and commercial), in thousands of tonnes: 22 (2014)	66	211
	Green space in cities		
	Surface area of green spaces in the city – km ² : 6 (2014)	Not available	34
	Green space to which the public has access – km ² : 170 (2014)	Not available	39
	Healthy transport		
	Length of cycling network (dedicated cycle paths and lanes) – km: 130 (2014)	73	90
	Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14

Social indicator

Unemployment

Unemployed people as % of the economically active population: 2.1 (2014)

Further information: http://www.sandnes.kommune.no http://en.wikipedia.org/wiki/Brighton http://epp.eurostat.ec.europa.eu http://data.worldbank.org

10.5

Sant Andreu de la Barca, Spain



Population (2012): 27 000 Population density: 4200 per km² Economy: *decline* – stable – growth Healthy city in:



Core data		
Health indicator Mortality	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
Crude mortality per 1000 inhabitants: <i>not available</i>	8.8	9.3
Environmental indicators		
Air quality		
Number of days annually ozone (O ₃) concentrations exceed 120 μ g/m ³ : <i>not available</i>	12	7
Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 μ g/m ³ : not available	0	0
Number of days annually particulate matter (PM $_{_{10}}$) concentrations exceed 50 µg/m ³ : not available	21	20
Number of days annually particulate matter (PM _{2.5}) concentrations exceed 50 µg/m ³ : not available	Not available	17
Water quality		
Percentage of water pollutants removed from sewage produced: not available	100	96
Waste		
Municipal waste generated (domestic and commercial), in thousands of tonnes: not available	66	211
Green space in cities		
Surface area of green spaces in the city – km ² : not available	Not available	34
Green space to which the public has access – km ² : not available	Not available	39
Healthy transport		
Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90
Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
Social indicator		
Unemployment		
Unemployed people as % of the economically active population: <i>not available</i>	9.4	10.5

Further information: http://en.wikipedia.org/wiki/Sant_Andreu_de_la_Barca http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Sarajevo, Bosnia and Herzegovina





- Cairo, Egypt
- Dubrovnik, Croatia
- Lillehammer, Norway
- Skopje, the former Yugoslav Republic of Macedonia

90

14

10.5

73

15

9.4

Konya, Turkey

Health indicator	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
Mortality		Cities Network
Crude mortality per 1000 inhabitants: total deaths: 4704 (2010)	8.8	9.3
Environmental indicators		
Air quality		
Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : not available	12	7
Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 μ g/m ³ : not available	0	0
Number of days annually particulate matter (PM_{10}) concentrations exceed 50 µg/m ³ : not available	21	20
Number of days annually particulate matter ($PM_{2.5}$) concentrations exceed 50 µg/m ³ : not available	Not available	17
Water quality		
Percentage of water pollutants removed from sewage produced: not available	100	96
Waste		
Municipal waste generated (domestic and commercial), in thousands of tonnes: not available	66	211
Green space in cities		
Surface area of green spaces in the city – km ² : not available	Not available	34
Green space to which the public has access – km ² : not available	Not available	39

Healthy transport

Length of cycling network (dedicated cycle paths and lanes) - km: not available Percentage of commuting trips by public transport (rail, metro, bus, tram): not available

Social indicator

Unemployment

Unemployed people as % of the economically active population: total number of people unemployed: 8023 (2012)

Further information: http://www.sarajevo.ba/en

http://en.wikipedia.org/wiki/Sarajevo http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Seixal, Portugal



Population (2012): 180 000 Population density: 1725 per km² Economy: *decline* – stable – growth Healthy city in:



Core data		
Health indicator Mortality	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
Crude mortality per 1000 inhabitants: 7.5 (2012) estimated	8.8	9.3
Environmental indicators		
Air quality		
Number of days annually ozone (O,) concentrations exceed 120 µg/m³: 14 (2011)	12	7
Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 μ g/m ³ : o (2011)	0	0
Number of days annually particulate matter (PM $_{_{10}}$) concentrations exceed 50 µg/m 3 : 75 (2011)	21	20
Number of days annually particulate matter ($PM_{2.5}$) concentrations exceed 50 µg/m ³ : 75 (2011)	Not available	17
Water quality		
Percentage of water pollutants removed from sewage produced: not available	100	96
Waste		
Municipal waste generated (domestic and commercial), in thousands of tonnes: 72	66	211
Green space in cities		
Surface area of green spaces in the city – km ² : not available	Not available	34
Green space to which the public has access – km ² : not available	Not available	39
Healthy transport		
Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90
Percentage of commuting trips by public transport (rail, metro, bus, tram): 14 (2011)	15	14
Social indicator		
Unemployment		
Unemployed people as % of the economically active population: 14.1 (2011)	9.4	10.5

Further information: http://en.wikipedia.org/wiki/Seixal_Municipality http://epp.eurostat.ec.europa.eu

http://data.worldbank.org

Sheffield, United Kingdom







Twin cities with, since:

- Anshan, China
- Bochum, GermanyDonetsk, Ukraine
- Estelí, Nicaragua
- Kawasaki, Japan
- Kitwe, Zambia
- Pittsburgh, PA, United States

Core data

of the WHO Opean Healthy ies Network
9.3
7
0
20
17
96
211
34
39
90
14
10.5

Further information: http://www.sheffield.gov.uk

http://en.wikipedia.org/wiki/Sheffield http://epp.eurostat.ec.europa.eu http://data.worldbank.org

St Petersburg, Russian Federation



Population (2012): 5.0 million Population density: 3390 per km² Economy: decline - stable - growth Healthy city in: Phase I Phase II Phase III Phase IV Phase V Twin cities with, since: Gdansk, Poland, 2001 Gdansk, Poland, 2001
Graz, Austria, 2001
Göteborg, Sweden, 1962
Hamburg, Germany, 1957
Havana, Cuba, 2000
Helsinki, Finland, 1993
Ho Chi Minh City, Viet Nam, 1977
Isfahan, Islamic Republic of Iran, 1999
Istanbul, Turkey, 1990
Kotka, Finland, 1997
Le Havre, France, 1965
Los Angeles, CA, United States, 1990
Lyon, France, 1993
Manchester, United Kingdom, 1956
Melbourne, Australia, 1989 St. Petersburg, FL, United States Antwerp, Belgium, 1958 Aarhus, Denmark, 1989 0 Aarnus, Denmark, 1969 Bangkok, Thailand, 1997 Barcelona, Spain, 1984 Bethlehem, West Bank and Gaza Strip, 2003 Bordeaux, France, 1991 Cape Town, South Africa, 2001 Colombo, Sri Lanka, 1997 Chaerdru, China, 1008 0

- 0
- 0
- 0
- Chengdu, China, 1998 Daegu, Republic of Korea, 1997 Dresden, Germany, 1961 Santa Cruz de Tenerife, Spain Edinburgh, United Kingdom, 1995

Core data (St Petersburg region)

•	Health indicator Mortality	Median all Europe (2011)	Median, members of the WHO European Healthy Cities Network
	Crude mortality per 1000 inhabitants: 11.8 (2012)	8.8	9.3
•	Environmental indicators		
	Air quality		
	Sulfur dioxide (SO_2) emitted from fossil-fuel combustion in thousands of tonnes per year: 5.1 (2012)	Not available	Not available
	Nitrogen oxides (NO _x) emitted from fossil-fuel combustion in thousands of tonnes per year: 25.8 (2012)	Not available	Not available
	Carbon dioxide (CO_2) emitted from fossil-fuel combustion in thousands of tonnes per year: 16.2 (2012)	Not available	Not available
	Solids emitted from fossil-fuel combustion in thousands of tonnes per year: 0.92 (2012)	Not available	Not available
	Hydrocarbons (excluding methane) emitted from fossil-fuel combustion in thousands of tonnes per year: 0.05 (2012)	Not available	Not available
	Water quality		
	Percentage of water pollutants removed from sewage produced: not available	100	96
	Waste		
	Municipal waste collected in thousands of m ³ : 8794 (2012)	66	Not available
	Green space in cities		
	Surface area of green spaces in the city – km ² : not available	Not available	34
	Green space to which the public has access – km ² : not available	Not available	39
	Healthy transport		
	Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90
	Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
0	Social indicator		
	Unemployment		
	Unemployed people as % of the economically active population: 1.1 (2012)	9.4	10.5

Further information: http://eng.gov.spb.ru/gov

http://en.wikipedia.org/wiki/Saint_Petersburg

http://petrostat.gks.ru http://knoema.com/atlas/Russian-Federation http://data.worldbank.org

Stavropol, Russian Federation







Twin cities with, since:

- Des Moines, IA, United States
- Beziers, France
- Pazardzhik, Bulgaria
- Temuco, Chile
- Yerevan, Armenia

Core data (stavropor region)		
Health indicator	Median all Europe (2011)	Median, members of the WHO European Healthy
Mortality		European Healthy Cities Network
Crude mortality per 1000 inhabitants: 12 (2012)	8.8	9.3
Environmental indicators		
Air quality		
Sulfur dioxide (SO ₂) emitted from fossil-fuel combustion in thousands of tonnes per year: 4.1 (2012)	Not available	Not available
Nitrogen oxides (NO _x) emitted from fossil-fuel combustion in thousands of tonnes per year: 15.3 (2012)	Not available	Not available
Carbon dioxide (CO $_2$) emitted from fossil-fuel combustion in thousands of tonnes per year: 5.6 (2012)	Not available	Not available
Solids emitted from fossil-fuel combustion in thousands of tonnes per year: 0.29 (2012)	Not available	Not available
Hydrocarbons (excluding methane) emitted from fossil-fuel combustion in thousands of tonnes per year: 0.1 (2012)	Not available	Not available
Water quality		
Percentage of water pollutants removed from sewage produced: not available	100	96
Waste		
Municipal waste collected in thousands of m ³ : 3877 (2012)	66	Not available
Green space in cities		
Surface area of green spaces in the city – km ² : not available	Not available	34
Green space to which the public has access – km ² : not available	Not available	39
Healthy transport		
Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90
Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
Social indicator		
Unemployment		
Unemployed people as % of the economically active population: not available	9.4	10.5
iurther information: http://stayropol.staykray.ru		

Further information: http://stavropol.stavkray.ru

http://en.wikipedia.org/wiki/Stavropol http://knoema.com/atlas/Russian-Federation http://data.worldbank.org

Stockholm, Sweden



Population (2012): 1.9 million Population density: 330 per km² Economy: decline - stable - growth Healthy city in:



• Riga, Latvia

Khemisset, Morocco

Twin cities with, since:

- Tirana, Albania .
- Warsaw, Poland Kyiv, Ukraine Tunis, Tunisia Cali, Colombia

- 0
- Sarajevo, Bosnia and Herzegovina, 1997 St Petersburg, Russian Federation, 1992 Istanbul, Turkey Podgorica, Montenegro Reykjavik, Iceland .
- .
- .

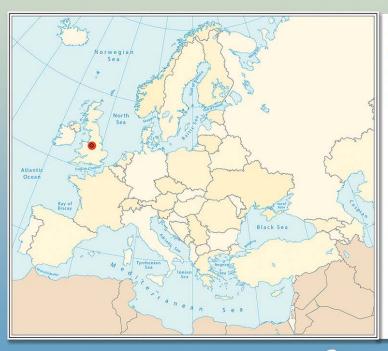
Core data

•	Health indicator Mortality	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
	Crude mortality per 1000 inhabitants: 8 (2011)	8.8	9.3
•	Environmental indicators		
	Air quality		
	Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : 0 (2011)	12	7
	Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 μ g/m ³ : o (2011)	0	0
	Number of days annually particulate matter (PM $_{_{10}}$) concentrations exceed 50 µg/m ³ : 1 (2011)	21	20
	Number of days annually particulate matter ($PM_{_{2.5}}$) concentrations exceed 50 µg/m ³ : 1 (2011)	Not available	17
	Water quality		
	Percentage of water pollutants removed from sewage produced: 1 (2011) estimated	100	96
	Waste		
	Municipal waste generated (domestic and commercial), in thousands of tonnes: 439 (2011) estimated	66	211
	Green space in cities		
	Surface area of green spaces in the city – km ² : not available	Not available	34
	Green space to which the public has access – km ² : not available	Not available	39
	Healthy transport		
	Length of cycling network (dedicated cycle paths and lanes) – km: 761 (2011) estimated	73	90
	Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
•	Social indicator		
	Unemployment		
	Unemployed people as % of the economically active population: 6.5 (2011)	9.4	10.5

Further information: http://www.stockholm.se

http://en.wikipedia.org/wiki/Stockholm_Municipality http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Stoke-on-Trent, United Kingdom



Population (2012): 239 000 Population density: 2565 per km² Economy: decline – stable – growth Healthy city in:



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Twin cities with, since:

• Erlangen, Germany

	Core data			
٠	Health indicator Mortality	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network	
	Crude mortality per 1000 inhabitants: 9.3 (2011)	8.8	9.3	
0	Environmental indicators			
	Air quality			
	Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : not available	12	7	
	Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 μ g/m ³ : 0 (2011)	0	0	
	Number of days annually particulate matter (PM $_{_{10}}$) concentrations exceed 50 µg/m ³ : 13 (2011)	21	20	
	Number of days annually particulate matter (PM $_{_{2.5}}$) concentrations exceed 50 µg/m ³ : 13 (2011)	Not available	17	
	Water quality			
	Percentage of water pollutants removed from sewage produced: not available	100	96	
	Waste			
	Municipal waste generated (domestic and commercial), in thousands of tonnes: 113 (2012-2013)	66	211	
	Green space in cities			
	Surface area of green spaces in the city – km²: 93 (2010)	Not available	34	
	Green space to which the public has access – km ² : 17 (2010)	Not available	39	
	Healthy transport			
	Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90	
	Percentage of commuting trips by public transport (rail, metro, bus, tram): 9 (2011)	15	14	
0	Social indicator			
	Unemployment			
	Unemployed people as % of the economically active population: <i>not available</i>	9.4	10.5	

Further information: http://www.stoke.gov.uk

http://www.stoke.gov.uk http://www.staffs.ac.uk http://en.wikipedia.org/wiki/Stoke-on-Trent http://ep.eurostat.ec.europa.eu http://data.worldbank.org

Sunderland, United Kingdom



Population (2012): 280 000 Population density: 2003 per km² Economy: decline – stable – growth Healthy city in:



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Twin cities with, since:

- Essen, Germany
- Saint-Nazaire, France
- Washington, DC, United States

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Health indicator Mortality	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
Crude mortality per 1000 inhabitants: 9.9 (2011)	8.8	9.3
Environmental indicators		
Air quality		
Number of days annually ozone (O ₃) concentrations exceed 120 μ g/m ³ : 2 (2011)	12	7
Number of days annually nitrogen dioxide (NO $_{_2}$) concentrations exceed 200 µg/m ³ : 0 (2011)	0	0
Number of days annually particulate matter (PM $_{_{10}}$) concentrations exceed 50 µg/m 3 : not available	21	20
Number of days annually particulate matter ($PM_{_{2.5}}$) concentrations exceed 50 µg/m ³ : not available	Not available	17
Water quality		
Percentage of water pollutants removed from sewage produced: not available	100	96
Waste		
Municipal waste generated (domestic and commercial), in thousands of tonnes: not available	66	211
Green space in cities		
Surface area of green spaces in the city – km ² : not available	Not available	34
Green space to which the public has access – km ² : not available	Not available	39
Healthy transport		
Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90
Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
Social indicator		
Unemployment		
Unemployed people as % of the economically active population: 13 (2011)	9.4	10.5
Further information: http://www.sunderland.gov.uk		

Further information: http://www.sunderland.gov.uk

http://en.wikipedia.org/wiki/Sunderland,_Tyne_and_Wear http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Swansea, United Kingdom







Twin cities with, since:

- Mannheim, Germany
- Sinop, TurkeyPau, France
- Cork, Ireland • Bydgoszcz, Poland

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•	Health indicator Mortality	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
	Crude mortality per 1000 inhabitants: 9.9 (2010) estimated	8.8	9.3
•	Environmental indicators		
	Air quality		
	Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : not available	12	7
	Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 μ g/m ³ : not available	0	o
	Number of days annually particulate matter ($PM_{_{10}}$) concentrations exceed 50 µg/m ³ : not available	21	20
	Number of days annually particulate matter ($PM_{2.5}$) concentrations exceed 50 µg/m ³ : not available	Not available	17
	Water quality		
	Percentage of water pollutants removed from sewage produced: not available	100	96
	Waste		
	Municipal waste generated (domestic and commercial), in thousands of tonnes: not available	66	211
	Green space in cities		
	Surface area of green spaces in the city – km ² : not available	Not available	34
	Green space to which the public has access – km ² : not available	Not available	39
	Healthy transport		
	Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90
	Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
0	Social indicator		
	Unemployment		
	Unemployed people as % of the economically active population: 9.7 (2011)	9.4	10.5
-	ther information: http://www.guarcea.gou.uk		

Further information: http://www.swansea.gov.uk

http://en.wikipedia.org/wiki/Swansea http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Trabzon, Turkey



Population (2012): 229 000 Population density: 1700 per km² Economy: decline - stable - growth Healthy city in:



Szigetvar, Hungary, 1998
Zanjan, Islamic Republic of

• Chicago, IL, United States

Iran, 2001

Twin cities with, since:

- .
- Amasya, Turkey Batumi, Georgia, 2000 Dortmund, Germany, 2013
- Kuopio, Finland, 1977 Kaunas, Lithuania, 1987
- . .
 - Purwakarta, Indonesia, 2011
- Rasht, Islamic Republic of Iran, 2000 .
- .
- Rizhao, China, 1997 Sochi, Russian Federation, 1993 .

Core data

Median, WHO			
Health indicator	European Region (2011)	Median, members of the WHO European Healthy Cities Network	
Mortality		CITIES NELWORK	
Crude mortality per 1000 inhabitants: not available	8.8	9.3	
Environmental indicators			
Air quality			
Number of days annually ozone (O ₃) concentrations exceed 120 μ g/m ³ : not available	12	7	
Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 μ g/m ³ : not available	0	0	
Number of days annually particulate matter (PM ₁₀) concentrations exceed 50 µg/m ³ : not available	21	20	
Number of days annually particulate matter (PM _{2.5}) concentrations exceed 50 µg/m ³ : not available	Not available	17	
Water quality			
Percentage of water pollutants removed from sewage produced: not available	100	96	
Waste			
Municipal waste generated (domestic and commercial), in thousands of tonnes: not available	66	211	
Green space in cities			
Surface area of green spaces in the city – km ² : not available	Not available	34	
Green space to which the public has access – km ² : not available	Not available	39	
Healthy transport			
Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90	
Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14	
Social indicator			
Unemployment			
Unemployed people as % of the economically active population: not available	9.4	10.5	
	1		

Further information: http://www.trabzon.bel.tr/default1.htm http://en.wikipedia.org/wiki/Trabzon http://data.worldbank.org

Turin, Italy



Population (2012): 910 000 Population density: 7000 per km² Economy: decline – stable – growth Healthy city in:



Core data			
Health indicator Mortality	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network	
Crude mortality per 1000 inhabitants: 11.2 (2012)	8.8	9.3	
Environmental indicators			
Air quality			
Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : 31 (2011)	12	7	
Number of days annually nitrogen dioxide (NO $_2$) concentrations exceed 200 µg/m ³ : 4 (2011)	0	0	
Number of days annually particulate matter (PM $_{10}$) concentrations exceed 50 µg/m 3 : 105 (2011)	21	20	
Number of days annually particulate matter (PM _{2.5}) concentrations exceed 50 μ g/m ³ : 105 (2011)	Not available	17	
Water quality			
Percentage of water pollutants removed from sewage produced: 71 (2011)	100	96	
Waste			
Municipal waste generated (domestic and commercial), in thousands of tonnes: 497 (2010)	66	211	
Green space in cities			
Surface area of green spaces in the city – km ² : not available	Not available	34	
Green space to which the public has access – km²: 1808 (2008)	Not available	39	
Healthy transport			
Length of cycling network (dedicated cycle paths and lanes) – km: 120 (2008)	73	90	
Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14	
Social indicator			
Unemployment			
Unemployed people as % of the economically active population: <i>not available</i>	9.4	10.5	

Further information: http://en.wikipedia.org/wiki/Turin http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Turku, Finland TURKU



Population (2012): 180 000 Population density: 741 per km² Economy: decline - stable - growth Healthy city in:



Phase I Phase II Phase III Phase IV Phase V

Twin cities with, since:

- Gothenburg, Sweden, 1946
 Aarhus, Denmark, 1946
 Bergen, Norway, 1946
 St Petersburg, Russian Federation, 1953
 Gdansk, Poland, 1958
 Rostock, Germany, 1963
 Varna, Bulgaria, 1963
 Constanta, Romania, 1963
 Cologne germany, 1967

- Cologne, germany, 1967 Szeged, Hungary, 1971

Core data

Health indicator	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
Mortality		CITIES NELWOIR
Crude mortality per 1000 inhabitants: 10.3 (2012)	8.8	9.3
Environmental indicators		
Air quality		
Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : 0 (2013)	12	7
Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 μ g/m ³ : 0 (2013)	0	0
Number of days annually particulate matter (PM $_{10}$) concentrations exceed 50 µg/m 3 : 8 (2013)	21	20
Number of days annually particulate matter ($PM_{_{2.5}}$) concentrations exceed 50 µg/m ³ : 0 (2013)	Not available	17
Water quality		
Percentage of water pollutants removed from sewage produced: 98 (2008)	100	96
Waste		
Municipal waste generated (domestic and commercial), in thousands of tonnes: 90 (2011)	66	211
Green space in cities		
Surface area of green spaces in the city – km^2 : 31 (2013) (Parks maintained by the city)	Not available	34
Green space to which the public has access – km ² : not available	Not available	39
Healthy transport		
Length of cycling network (dedicated cycle paths and lanes) – km: 355 (2011)	73	90
Percentage of commuting trips by public transport (rail, metro, bus, tram): 9 (2008)	15	14
Social indicator		
Unemployment		
Unemployed people as % of the economically active population: 12.5 (2011)	9.4	10.5
Further information: http://www.turku.fi		

- Bratislava, Slovakia, 1976
 Florence, italy, 1992
- Tianjin, China, 2000

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http://en.wikipedia.org/wiki/Turku http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Udine, Italy





- Dilijan, Armenia • Villach, Austria
- Windsor, Canada
 Medellin, Colombia
- Vienne, France
- e Esslingen am Neckar, Germany
- Schiedam, Netherlands
- Velenje, Slovenia
- Albacete, Spain
- Norrkøping, Sweden
 Neath Port Talbot, Wales, United Kingdom

Core data

Health indicator Mortality	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
Crude mortality per 1000 inhabitants: 11.6 (2013)	8.8	9.3
Environmental indicators Air quality		
Number of days annually ozone (O ₃) concentrations exceed 120 µg/m ³ : 81 (2013)	12	7
Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 μ g/m ³ : 6 (2013)	0	0
Number of days annually particulate matter (PM $_{10}$) concentrations exceed 50 µg/m ³ : 15 (2013)	21	20
Number of days annually particulate matter (PM _{2.5}) concentrations exceed 50 µg/m ³ : 16 (2013)	Not available	17
Water quality		
Percentage of water pollutants removed from sewage produced: not available	100	96
Waste		
Municipal waste generated (domestic and commercial), in thousands of tonnes: not available	66	211
Green space in cities		
Surface area of green spaces in the city – km ² : not available	Not available	34
Green space to which the public has access – km ² : 2 (2012)	Not available	39
Healthy transport		
Length of cycling network (dedicated cycle paths and lanes) – km: 39 (2012)	73	90
Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
Social indicator		
Unemployment		
Unemployed people as % of the economically active population: 7.9 (2012)	9.4	10.5
Further information: Yearly Report 2012 of the Municipality of Udine		

Yearly Report 2012 of the Municipality of Udine http://en.wikipedia.org/wiki/Udine http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Ulyanovsk, Russian Federation



Population (2012): 610 000 Population density: 1937 per km² Economy: decline – stable – growth Healthy city in:



Twin cities with, since:

• Macon, GA, United States

Core data (Ulyanovsk region)		1
Health indicator	Median all Europe (2011)	Median, members of the WHO European Healthy
Mortality		Cities Network
Crude mortality per 1000 inhabitants: 14.2 (2012)	8.8	9.3
Environmental indicators		
Air quality		
Sulfur dioxide (SO ₂) emitted from fossil-fuel combustion in thousands of tonnes per year: 0.92 (2012)	Not available	Not available
Nitrogen oxides (NO $_x$) emitted from fossil-fuel combustion in thousands of tonnes per year: 3.86 (2012)	Not available	Not available
Carbon dioxide (CO $_2$) emitted from fossil-fuel combustion in thousands of tonnes per year: 3.5 (2012)	Not available	Not available
Solids emitted from fossil-fuel combustion in thousands of tonnes per year: 0.8 (2012)	Not available	Not available
Hydrocarbons (excluding methane) emitted from fossil-fuel combustion in thousands of tonnes per year: 0.01 (2012)	Not available	Not available
Water quality		
Percentage of water pollutants removed from sewage produced: not available	100	96
Waste		
Municipal waste collected in thousands of m ³ : 2851 (2012)	66	Not available
Green space in cities		
Surface area of green spaces in the city – km ² : not available	Not available	34
Green space to which the public has access – km ² : not available	Not available	39
Healthy transport		
Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90
Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
Social indicator		
Unemployment		
Unemployed people as % of the economically active population: not available	9.4	10.5
Further information: http://www.ulmeria.nu		

Further information: http://www.ulmeria.ru

http://en.wikipedia.org/wiki/Ulyanovsk http://knoema.com/atlas/Russian-Federation http://data.worldbank.org

Veliky Ustyug, Russian Federation







Core data (Vologda Region)		
Health indicator	Median all Europe (2011)	Median, members of the WHO European Healthy
Mortality		Cities Network
Crude mortality per 1000 inhabitants: 15.1 (2012)	8.8	9.3
Environmental indicators		
Air quality		
Sulfur dioxide (SO_2) emitted from fossil-fuel combustion in thousands of tonnes per year: 29.48 (2012)	Not available	Not available
Nitrogen oxides (NO _x) emitted from fossil-fuel combustion in thousands of tonnes per year: 13.24 (2012)	Not available	Not available
Carbon dioxide (CO $_2$) emitted from fossil-fuel combustion in thousands of tonnes per year: 22.17 (2012)	Not available	Not available
Solids emitted from fossil-fuel combustion in thousands of tonnes per year: 11.19 (2012)	Not available	Not available
Hydrocarbons (excluding methane) emitted from fossil-fuel combustion in thousands of tonnes per year: 0.03 (2012)	Not available	Not available
Water quality		
Percentage of water pollutants removed from sewage produced: not available	100	96
Waste		
Municipal waste collected in thousands of m ³ : 1978 (2012)	66	211
Green space in cities		
Surface area of green spaces in the city – km ² : not available	Not available	34
Green space to which the public has access – km ² : not available	Not available	39
Healthy transport		
Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90
Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
Social indicator		
Unemployment		
Unemployed people as % of the economically active population: not available	9.4	10.5
Surther information: http://www.mountur.mu		

Further information: http://www.movustug.ru

http://www.movustug.ru http://en.wikipedia.org/wiki/Veliky_Ustyug http://knoema.com/atlas/Russian-Federation http://data.worldbank.org

Venice, Italy





- Tallinn, Estonia

- Pereira, Colombia
 Istanbul, Turkey, 1993
 Sarajevo, Bosnia and Herzegovina
- Yerevan, Armenia, 2011
- Banjarmasin, Indonesia
- Aveiro, Portugal, 1998
- 2006
- Thessaloniki, Greece, 2003
- Fort Lauderdale, FL, United States, 2007
 - Wolverhampton, United Kingdom
 - Most, Czech Republic
 - Dubrovnik, Croatia, 2012

Core dato

•	Health indicator Mortality	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
	Crude mortality per 1000 inhabitants: 13.4 (2013)	8.8	9.3
•	Environmental indicators		
	Air quality		
	Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : 45 (2013)	12	7
	Number of days annually nitrogen dioxide (NO $_2$) concentrations exceed 200 µg/m ³ : 0 (2013)	0	0
	Number of days annually particulate matter (PM_{10}) concentrations exceed 50 µg/m ³ : 64 (2013)	21	20
	Number of days annually particulate matter ($PM_{2.5}$) concentrations exceed 50 µg/m ³ : 85 (2011)	Not available	17
	Water quality		
	Percentage of water pollutants removed from sewage produced: 94 (2013)	100	96
	Waste		
	Municipal waste generated (domestic and commercial), in thousands of tonnes: 165 (2013)	66	211
	Green space in cities		
	Surface area of green spaces in the city – km ² : not available	Not available	34
	Green space to which the public has access – km ² : 8029 (2013)	Not available	39
	Healthy transport		
	Length of cycling network (dedicated cycle paths and lanes) – km: 106 (2013)	73	90
	Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
•	Social indicator		
	Unemployment		
	Unemployed people as % of the economically active population: 8.6 (2013)	9.4	10.5
Fur	ther information: http://www.comune.venezia.it/flex/cm/pages/ServeBLOB.php/L/EN/IDPagina/1		

/w.comune.venezia.it/flex/cm/pages/ServeBLOB.php/L/EN/IDPagina/1 http://en.wikipedia.org/wiki/Venice http://epp.eurostat.ec.europa.eu

http://data.worldbank.org

Viana do Castelo, Portugal



Population (2012): 90 000 Population density: not available Economy: *decline* – stable – growth Healthy city in:



Core data			
Health indicator Mortality	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network	
Crude mortality per 1000 inhabitants: 9.5 (2012) <i>estimated</i>	8.8	9.3	
Environmental indicators			
Air quality			
Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : not available	12	7	
Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 μ g/m ³ : not available	0	0	
Number of days annually particulate matter (PM $_{10}$) concentrations exceed 50 µg/m ³ : not available	21	20	
Number of days annually particulate matter (PM _{2.5}) concentrations exceed 50 µg/m ³ : not available	Not available	17	
Water quality			
Percentage of water pollutants removed from sewage produced: not available	100	96	
Waste			
Municipal waste generated (domestic and commercial), in thousands of tonnes: 38 (2012)	66	211	
Green space in cities			
Surface area of green spaces in the city – km ² : not available	Not available	34	
Green space to which the public has access – km ² : not available	Not available	39	
Healthy transport			
Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90	
Percentage of commuting trips by public transport (rail, metro, bus, tram): 5 (2011)	15	14	
Social indicator			
Unemployment			
Unemployed people as % of the economically active population: 12.5 (2011)	9.4	10.5	

Further information: http://epp.eurostat.ec.europa.eu

Vienna, Austria



Population (2012): 1.8 million Population density: 4259 per km² Economy: decline - stable - growth Healthy city in:



Phase II Phase III Phase IV Phase V Phase I

Twin cities with, since:

- Belgrade, Serbia, 2003
 Bratislava, Slovakia, 1993/2003
 Brno, Czech Republic, 1998
 Budapest, Hungary, 1990
 Istanbul, Turkey, 2010
 Krin, Uluzia, 1992

- Kyiv, Ukraine, 1991
 Moscow, Russian Federation, 1991
 Tel Aviv-Jaffa, Israel, 2005
- Tunis, Tunisia
- Warsaw, Poland, 2001
- Zagreb, Croatia, 1994

Core data

•	Health indicator	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
	Mortality Crude mortality per 1000 inhabitants: 9.3 (2013)	8.8	9.3
		0.0	9.9
0	Environmental indicators		
	Air quality		
	Number of days annually ozone (O ₃) concentrations exceed 120 μ g/m ³ : 26 (2011)	12	7
	Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 μ g/m ³ : 0 (2011)	0	0
	Number of days annually particulate matter (PM $_{_{10}}$) concentrations exceed 50 µg/m 3 : 39 (2011)	21	20
	Number of days annually particulate matter ($PM_{2.5}$) concentrations exceed 50 µg/m ³ : 39 (2011)	Not available	17
	Water quality		
	Percentage of water pollutants removed from sewage produced: 100 (2011)	100	96
	Waste		
	Municipal waste generated (domestic and commercial), in thousands of tonnes: 1055 (2013)	66	211
	Green space in cities		
	Surface area of green spaces in the city – km ² : 189 (2014)	Not available	34
	Green space to which the public has access – km ² : 130 (2014)	Not available	39
	Healthy transport		
	Length of cycling network (dedicated cycle paths and lanes) – km: 1246 (2013)	73	90
	Percentage of commuting trips by public transport (rail, metro, bus, tram): 36 (2011)	15	14
	Social indicator		
9			
	Unemployment		
	Unemployed people as % of the economically active population: 8.4 (2013)	9.4	10.5

Further information: http://www.statistik.at

http://www.vcoe.at http://epp.eurostat.ec.europa.eu http://data.worldbank.org

https://www.wien.gv.at/statistik http://en.wikipedia.org/wiki/Vienna

Villanueva de la Cañada, Spain







Twin cities with, since:

- i will clics with, since
- Le Vézinet, France, 2006
 Metepec, Mexico, 1999
- Madaba, Jordan, 2005
- Royston, United Kingdom, 2011

Core data				
Health indicator	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network		
Mortality				
Crude mortality per 1000 inhabitants: 3.1 (2012)	8.8	9.3		
Environmental indicators				
Air quality				
Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : 1 (2013)	12	7		
Number of days annually nitrogen dioxide (NO $_2$) concentrations exceed 200 µg/m ³ : 0 (2013)	0	0		
Number of days annually particulate matter (PM $_{_{10}}$) concentrations exceed 50 µg/m³: 11 (2012)	21	20		
Number of days annually particulate matter (PM _{2.5}) concentrations exceed 50 µg/m ³ : not available	Not available	17		
Water quality				
Percentage of water pollutants removed from sewage produced: 100 (2013)	100	96		
Waste				
Municipal waste generated (domestic and commercial), in thousands of tonnes: 3 (2013)	66	211		
Green space in cities				
Surface area of green spaces in the city – km²: 15 (2013)	Not available	34		
Green space to which the public has access – km^2 : 2 (2013)	Not available	39		
Healthy transport				
Length of cycling network (dedicated cycle paths and lanes) – km: 13 (2013)	73	90		
Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14		
Social indicator				
Unemployment				
Unemployed people as % of the economically active population: 5.5 (2013)	9.4	10.5		
Further information: www.avto-villacanada.es				

Further information: www.ayto-villacanada.es

http://en.wikipedia.org/wiki/Villanueva_de_la_Cañada http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Vitoria-Gasteiz, Spain





Core data

Health indicator Mortality	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
Crude mortality per 1000 inhabitants: 7.5 (2012)	8.8	9.3
Environmental indicators		
Air quality		
Number of days annually ozone (O ₃) concentrations exceed 120 μ g/m ³ : not available	12	7
Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 μ g/m ³ : not available	0	0
Number of days annually particulate matter (PM $_{_{10}}$) concentrations exceed 50 µg/m³: not available	21	20
Number of days annually particulate matter ($PM_{_{2.5}}$) concentrations exceed 50 µg/m ³ : not available	Not available	17
Water quality		
Percentage of water pollutants removed from sewage produced: not available	100	96
Waste		
Municipal waste generated (domestic and commercial), in thousands of tonnes: not available	66	211
Green space in cities		
Surface area of green spaces in the city – km ² : not available	Not available	34
Green space to which the public has access – km ² : not available	Not available	39
Healthy transport		
Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90
Percentage of commuting trips by public transport (rail, metro, bus, tram): 12 (2008)	15	14
Social indicator		
Unemployment		
Unemployed people as % of the economically active population: <i>not available</i>	9.4	10.5

Further information: http://en.wikipedia.org/wiki/Vitoria-Gasteiz http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Warsaw, Poland







Phase I Phase II Phase III Phase IV Phase V Twin cities with, since:

- Astana, Kazakhstan, 2002 Berlin, Germany, 1991 Budapest, Hungary, 2005 Buenos Aires, Argentina, 1992 Coventry, United Kingdom, 1957 Chicago, IL, United States, 1960 Düsseldorf, Germany, 1989 Grozny, Russian Federation, 1997 The Hague, Netherlands, 1991 Hamamatsu, Japan, 1990 Hanoi, Viet Nam, 2000 Harbin, China, 1993 ile-de-France, France, 1990 Istanbul, Turkey, 1991

- Kyiv, Ukraine, 1994
 Madrid, Spain, 1981
 Moscow, Russian Federation
 Oslo, Norway, 2005
 Paris, France, 1999

- Paris, France, 1999
 Rio de Janeiro, Brazil, 1997
 Riga, Latvia, 2002
 Saint-Etienne, France, 1995
 St Petersburg, Russian Federation, 1997
 San Diego, CA, United States, 1960
 Seoul, Republic of Korea, 1996
 Taipei, Taiwan, China, 1995
 Tel Aviv, Israel, 1992
 Vienna, Austria, 2001
 Vilnius, Lithuania, 1998

Core data

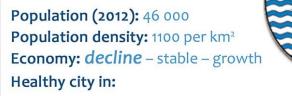
Health indicator Mortality	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
Crude mortality per 1000 inhabitants: 10.8 (2012) <i>estimated</i>	8.8	9.3
Environmental indicators		
Air quality		
Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : 7 (2011)	12	7
Number of days annually nitrogen dioxide (NO $_2$) concentrations exceed 200 µg/m ³ : 0 (2011)	0	0
Number of days annually particulate matter (PM $_{_{10}}$) concentrations exceed 50 µg/m ³ : 58 (2011)	21	20
Number of days annually particulate matter (PM $_{2.5}$) concentrations exceed 50 µg/m ³ : 58 (2011)	Not available	17
Water quality		
Percentage of water pollutants removed from sewage produced: not available	100	96
Waste		
Municipal waste generated (domestic and commercial), in thousands of tonnes: 548 (2012)	66	211
Green space in cities		
Surface area of green spaces in the city – km ² : 86 (2008)	Not available	34
Green space to which the public has access – km ² : 3678 (2008)	Not available	39
Healthy transport		
Length of cycling network (dedicated cycle paths and lanes) – km: 291.8 (2008)	73	90
Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
Social indicator		
Unemployment		
Unemployed people as % of the economically active population: <i>not available</i>	9.4	10.5
Further information: http://www.um.wargzowa.pl/op		

Further information: http://www.um.warszawa.pl/en

http://en.wikipedia.org/wiki/Warsaw http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Waterford, Ireland







Twin cities with, since:

- Waterford, CT, United States
 Rochester, NY, United States
 St. John's, Canada

- Saint-Herblain, France

Core data				
Health indicator	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network		
Mortality				
Crude mortality per 1000 inhabitants: 7.5 (2011) estimated	8.8	9.3		
Environmental indicators				
Air quality				
Number of days annually ozone (O ₃) concentrations exceed 120 μ g/m ³ : not available	12	7		
Number of days annually nitrogen dioxide (NO $_{_2}$) concentrations exceed 200 µg/m ³ : not available	0	0		
Number of days annually particulate matter (PM $_{_{10}}$) concentrations exceed 50 µg/m 3 : not available	21	20		
Number of days annually particulate matter (PM _{2.5}) concentrations exceed 50 µg/m ³ : not available	Not available	17		
Water quality				
Percentage of water pollutants removed from sewage produced: not available	100	96		
Waste				
Municipal waste generated (domestic and commercial), in thousands of tonnes: not available	66	211		
Green space in cities				
Surface area of green spaces in the city – km ² : not available	Not available	34		
Green space to which the public has access – km ² : not available	Not available	39		
Healthy transport				
Length of cycling network (dedicated cycle paths and lanes) – km: 19 (2011)	73	90		
Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14		
Social indicator				
Unemployment				
Unemployed people as % of the economically active population: 22.2 (2011) estimated	9.4	10.5		

Further information: http://www.waterfordcouncil.ie/en

http://en.wikipedia.org/wiki/Waterford http://epp.eurostat.ec.europa.eu http://data.worldbank.org

Yalova, Turkey







Twin cities with, since:

- Bonn, Germany
- Ohrid, the former Yugoslav Republic of Macedonia
- Suwon, Republic of Korea
- Medgidia, Romania
- Batumi, Georgia

Health indicator	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
Mortality		
Crude mortality per 1000 inhabitants: not available	8.8	9-3
Environmental indicators		
Air quality		
Number of days annually ozone (O3) concentrations exceed 120 μ g/m ³ : <i>not available</i>	12	7
Number of days annually nitrogen dioxide (NO ₂) concentrations exceed 200 μ g/m ³ : not available	0	0
Number of days annually particulate matter ($PM_{_{10}}$) concentrations exceed 50 µg/m ³ : not available	21	20
Number of days annually particulate matter (PM_{25}) concentrations exceed 50 µg/m ³ : not available	Not available	17
Water quality		
Percentage of water pollutants removed from sewage produced: not available	100	96
Waste		
Municipal waste generated (domestic and commercial), in thousands of tonnes: not available	66	211
Green space in cities		
Surface area of green spaces in the city – km ² : not available	Not available	34
Green space to which the public has access – km ² : not available	Not available	39
Healthy transport		
Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90
Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
Social indicator		
Unemployment		
Unemployed people as % of the economically active population: not available	9.4	10.5

Further information: http://www.yalova.bel.tr

http://www.yalova.be.tr http://en.wikipedia.org/wiki/Yalova http://data.worldbank.org

Zagreb, Croatia



Population (2012): 780 000 Population density: 4200 per km² Economy: decline - stable - growth Healthy city in:

Phase I Phase II Phase III Phase IV Phase V

Twin cities with, since:

- Mainz, Germany, 1967 St Petersburg, Russian

- Federation, 1968
 Tromsø, Norway
 Lisbon, Portugal, 1977
 Pittsburgh, PA, United States, 1980
 Podgorica, Montenegro
- Ahmedabad, India, 1962
- Buenos Aires, Argentina, 1972
 Kyoto, Japan, 1972
- Shanghai, China, 1980
- Bologna, Italy, 1963

- Budapest, Hungary
- Vienna, Austria
- Sarajevo, Bosnia and Herzegovina
 Ljubljana, Slovenia
- London, United Kingdom
- Prizren, Kosovo (in accordance with Security Council resolution 1244 (1999))

Core dato

•	Health indicator	Median, WHO European Region (2011)	Median, members of the WHO European Healthy Cities Network
	Mortality		
	Crude mortality per 1000 inhabitants: not available	8.8	9.3
•	Environmental indicators		
	Air quality		
	Number of days annually ozone (O_3) concentrations exceed 120 µg/m ³ : not available	12	7
	Number of days annually nitrogen dioxide (NO2) concentrations exceed 200 µg/m3: not available	0	0
	Number of days annually particulate matter (PM $_{_{10}}$) concentrations exceed 50 µg/m ³ : not available	21	20
	Number of days annually particulate matter (PM _{2.5}) concentrations exceed 50 µg/m ³ : not available	Not available	17
	Water quality		
	Percentage of water pollutants removed from sewage produced: not available	100	96
	Waste		
	Municipal waste generated (domestic and commercial), in thousands of tonnes: not available	66	211
	Green space in cities		
	Surface area of green spaces in the city – km ² : not available	Not available	34
	Green space to which the public has access – km ² : not available	Not available	39
	Healthy transport		
	Length of cycling network (dedicated cycle paths and lanes) – km: not available	73	90
	Percentage of commuting trips by public transport (rail, metro, bus, tram): not available	15	14
0	Social indicator		
	Unemployment		- 1
	Unemployed people as % of the economically active population: <i>not available</i>	9.4	10.5

Further information: http://www.zagreb.hr

http://en.wikipedia.org/wiki/Zagreb http://epp.eurostat.ec.europa.eu http://data.worldbank.org

http://www.stampar.hr/Default.aspxsec=177

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The WHO Regional Office for Europe

The World Health Organization (WHO) is a specialized agency of the United Nations created in 1948 with the primary responsibility for international health matters and public health. The WHO Regional Office for Europe is one of six regional offices throughout the world, each with its own programme geared to the particular health conditions of the countries it serves.

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City fact sheets

WHO European Healthy Cities Network

World Health Organization Regional Office for Europe

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