



# Country Fact Sheet

# România

Directorate-General Regional Policy  
Analysis Unit C3

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## Introduction

The Analysis unit of DG for Regional Policy has created 27 country fact sheets to support the preparation and negotiations for the upcoming programming period (2014-2020). Each factsheet makes it easy to compare the performance of a country with the EU average and the best and the worst performer in the Union.

It shows indicators at the national level, grouped by the three types of growth, and the regional level. In addition, it shows the distribution of population by type of region and a few indicators by degree of urbanisation, which highlight the differences between cities and rural areas.

The Europe 2020 indicators are highlighted in blue. They show the current level, the target, the distance to the target and recent change. The distance to target shows how far a country is removed from the target it has set itself. This distance can be compared to the EU distance and the shortest and longest national distance. Comparing the distances should provide an indication of the relative effort required to reach the target. Where available and reliable, regional Europe 2020 indicators have been included.

These fact sheets are based on data primarily from Eurostat, but also from the Joint Research Centre, the European Environmental Agency, the World Bank and other sources. The targets have been collected from official documents. In some cases, absolute targets have been translated into relative targets to allow for a cross country comparison.

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Comments on these fact sheets are welcome at [REGIO-PAPERS@ec.europa.eu](mailto:REGIO-PAPERS@ec.europa.eu)

## Explanation of the column headings

M.S.	EU avg.	EU min.	EU max.
Member State value	EU value	Minimum national value in the EU	Maximum national value in the EU

# 1. National Indicators

indicator	unit	year(s)*	M.S.	EU avg.	EU min.	EU max.
<b>1.1. Smart growth</b>						
<b>R&amp;D and innovation</b>						
R&D expenditure	% of GDP	2010	0.5	2.0	0.5	3.9
- national EU 2020 target	% of GDP	2020	2.0	3.0	0.5	4.0
- increase required to reach the target	% of GDP	2010-2020	1.5	1.0	0.0	1.6
- change in rate	Percentage point change	2000-2010	0.1	0.1	-0.7	1.0
Gross domestic expenditure on R&D (GERD) financed by Government sector	% of GERD	2010 (2009)	54.4	34.9	25.3	69.0
Authors of EPO patent applications (per inhabitant)	Index, EU27 = 100	2006-2007	1.2	100.0	1.2	265.4
Human Resources in Science and Technology (core)	% of total employment	2010	12.6	18.8	12.6	33.1
Employment in high-technology sectors	% of total employment	2010	1.8	3.7	1.8	7.0
Employment in knowledge-intensive services	% of total employment	2010	20.0	38.5	20.0	55.0
Real labour productivity growth per hour worked	Index 2000 = 100	2010	135.9	109.7	100.7	163.6
<b>IT infrastructure</b>						
Households with broadband connection	% of all households	2011	23.0	68.0	23.0	83.0
Firms with broadband connection	% of firms	2011	54.0	87.0	54.0	96.0
DSL coverage	% of total population	2009	74.0	94.0	74.0	100.0
<b>Competitiveness and business environment</b>						
Competitiveness Index	Index - Values range between 0 and 100	2010	20.1	54.7	19.7	83.5
GDP per head (PPS)	Index, EU27 = 100	2010	45.0	100.0	44.0	274.0
GDP per head growth	Annual average % change	2000-2010	4.5	1.0	-0.4	5.0
Ease of doing business	Rank (out of 183 economies)	2011	72.0	40.3	5.0	100.0
Number of days to start a business	Number of days required to register a firm	2011	14.0	13.7	4.0	32.0
<b>Quality of governance</b>						
Quality of Government index	Index (in standard deviations)	2010	-1.9	0.0	-1.9	1.5
Rule of law	Index (in standard deviations)	2010	-1.9	0.0	-2.1	1.3
Voice and Accountability	Index (in standard deviations)	2010	-2.2	0.0	-2.2	1.4
Government effectiveness	Index (in standard deviations)	2010	-2.2	0.0	-2.2	1.7
Control of corruption	Index (in standard deviations)	2010	-1.4	0.0	-1.5	1.7
Interact with public authorities online	% of individuals	2010	7.0	32.0	7.0	72.0
Interact with public authorities online	% of firms	2009	41.0	72.0	41.0	96.0
Online access to 20 basic e-government services	% of services available	2010	60.0	84.3	47.5	100.0
<b>Education</b>						
Population aged 25-64 with low educational attainment	% of population, aged 25-64	2010	25.7	27.3	8.0	71.0
Population aged 25-64 with high educational attainment	% of population, aged 25-64	2010	13.8	25.9	13.8	38.1

indicator	unit	year(s)*	M.S.	EU avg.	EU min.	EU max.
Population aged 30-34 with high educational attainment	% of population, aged 30-34	2010	18.1	33.6	18.1	49.9
- national EU 2020 target	% of population, aged 30-34	2020	26.7	40.0	26.5	60.0
- increase required to reach the target	% of population, aged 30-34	2010-2020	8.6	6.4	0.9	17.9
- change in rate	Percentage point change	2000-2010	9.2	11.2	1.2	24.9
Early school leavers, aged 18-24	% of population, aged 18-24	2010	18.4	14.1	4.7	36.9
- national EU 2020 target	% of population, aged 18-24	2020	11.3	10.0	4.5	29.0
- reduction required to reach the target	% of population, aged 18-24	2010-2020	7.1	4.1	0.5	18.7
- change in rate	Percentage point change	2000-2010	-4.5	-3.5	-17.3	2.4

## 1.2. Sustainable growth

### Climate change and energy

Change in GHG emissions outside ETS	% change	2005-2009	1.5	-2.6	-14.1	24.4
- national EU 2020 target	%	2020	19.0	-10.0	-20.0	20.0
- to reach target (negative = minimum reduction, positive = maximum increase)	% points	2009-2020	17.5	-7.4	-17.6	24.1
Share of renewable energy in gross final energy consumption	% of energy consumption	2009	22.4	11.7	0.2	47.3
- national EU 2020 target	% of energy consumption	2020	24.0	20.0	10.0	49.0
- increase required to reach the target	% of energy consumption	2009-2020	1.6	8.3	1.6	12.1
- change in rate	Percentage point change	2006-2009	5.2	2.7	0.0	6.7
Wind energy potential	full load hours per year	2000-2005	572.5	1261.0	457.1	3186.7
Average of solar radiation resources	Average solar energy resources in KWh/year	-	1533.8	1358.3	1053.0	2001.0

### Environment

Population connected to urban wastewater treatment	% of total population	2009	29.0	:	29.0	99.0
Particulate matter (PM10) concentration at surface level	Yearly average concentration ( $\mu\text{g}/\text{m}^3$ )	2009	20.1	16.0	5.5	22.7
Ozone concentration exceedances	Number of days with exceedance	2008	25.0	11.8	1.8	46.2
Sufficiency of sites designated under the EU habitats directive	% of sufficiency of proposals	2010	82.0	89.0	40.0	100.0

### Transport

Density of motorways	Index of length, relative to area and population	2008	8.8	100.0	0.0	305.8
Increase in pot. road accessibility in a high-speed scenario	% increase in current pot. accessibility	2008	131.5	14.0	0.0	131.5
Passenger transport by road	% of passenger km per mode	2008	92.4	92.7	87.8	99.1
Freight transport by road	% of tonnes km transported per mode	2009	60.0	77.5	30.2	100.0
Road fatalities	per mio inhabitants	2009	130.1	69.0	37.9	130.1
- European 2020 target	per mio inhabitants	2020	33.8	33.8	33.8	33.8
- reduction required to reach the target	per mio inhabitants	2009-2020	96.3	35.2	4.1	96.3
Density of railways (moderate and high speed)	Index of length, relative to area and population	2010	103.1	100.0	0.0	227.8
Increase in pot. rail accessibility in a high-speed scenario	% increase in current pot. accessibility	2008	69.6	30.3	0.0	75.7
Passenger transport by rail	% of passenger km per mode	2008	7.6	7.3	0.0	12.3

indicator	unit	year(s)*	M.S.	EU avg.	EU min.	EU max.
Freight transport by rail	% of tonnes km transported per mode	2009	19.4	16.5	0.6	69.8
Accessibility to passenger flights	Daily number of passenger flights	2010	56.2	593.8	34.5	1469.1

### 1.3. Inclusive growth

#### Employment

Employment growth	Average annual % change	2000-2010	-1.7	0.5	-1.7	3.1
Employment rate, ages 20-64	% of population, aged 20-64	2010	63.3	68.6	60.1	78.7
- national EU 2020 target	% of population, aged 20-64	2020	70.0	75.0	62.9	80.0
- increase required to reach the target	% of population, aged 20-64	2010-2020	6.7	6.4	0.6	14.6
- change in rate	Percentage point change	2000-2010	-5.8	2.0	-5.8	10.1
Gender gap in employment rate, ages 20-64	% point difference (f - m)	2010	-14.9	-13.0	-36.2	1.5
Unemployment rate	% of active population	2011	7.3	9.6	4.1	21.6
Change in unemployment rate	Percentage point change	2000-2011	0.5	0.8	-6.5	10.1
Gender gap in unemployment rate	% point difference (f - m)	2011	-1.1	0.2	-6.8	6.3
Long-term unemployment	% of active population	2010	2.5	3.9	1.1	9.2
Participation in Life Long Learning	% of population, aged 25-64	2010	1.3	9.1	1.2	32.8

#### Social inclusion, poverty and health

At risk of poverty or exclusion	% of population	2010	41.4	23.4	14.4	41.6
- national EU 2020 target	% of population	2020	38.7	19.3	13.8	38.7
- reduction required to reach the target	% of population	2010-2020	2.7	4.1	0.3	6.6
- change in rate	Percentage point change	2007-2010 (2005-2010)	-5	-2	-21	1
Living in a household with a low work intensity	% of population	2010	6.8	9.9	4.0	19.8
At risk of poverty after social transfers	% of population	2010	21.1	16.4	9.0	21.3
Severely materially deprived persons	% of population	2010	31.0	8.1	0.5	35.0
Male life expectancy at birth	Years	2009 (2008)	69.8	76.4	68.0	79.6
Female life expectancy at birth	Years	2009 (2008)	77.4	82.4	77.4	85.3
Infant mortality	Deaths under 1 year of age per 1000 births	2010 (2009)	9.8	4.3	2.3	9.8
Standardised cancer mortality rates	Deaths per 100,000 inhabitants	2009	181.4	169.0	123.1	243.2
Standardised heart disease mortality rates	Deaths per 100,000 inhabitants	2009	188.8	79.8	33.8	305.1

### 1.4. Context

#### Demography

Average total population	1000 inh.	2010	21424.9	501667.6	413.5	81744.0
Population growth	pro mille (annual average)	2000-2010	-4.3	3.6	-8.0	15.5
Natural population change	pro mille (annual average)	2000-2010	-1.9	0.7	-5.0	8.7
Net migration	pro mille (annual average)	2000-2010	-2.5	2.9	-4.4	11.3
Population aged 0-14 years	% of total population	2010	15.2	15.6	13.4	21.8
Population aged 15-64	% of total population	2010	69.9	67.0	64.7	72.3
Population aged 65+	% of total population	2010	14.9	17.4	11.6	20.6

#### Economic policy and public finance

Inflation rate	Annual average rate of change in HICPs	2011	5.8	3.1	-1.6	5.8
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indicator	unit	year(s)*	M.S.	EU avg.	EU min.	EU max.
Public deficit/surplus	Net lending / net borrowing as a share of GDP	2010	-6.9	-6.6	-31.3	0.2
Public debt	Government gross debt as a share of GDP	2010	31.0	80.1	6.7	144.9
Balance of the current account	Current account deficit / surplus as a share of GDP	2010	-4.0	-0.9	-10.1	7.7
Total investment	Gross fixed capital formation as a share of GDP	2011	24.0	18.7	10.1	24.7
Net foreign direct investment (inflow)	Direct investment in the reporting economy as a share of GDP	2010	1.8	0.8	-2.4	12.8
Net foreign direct investment (outflow)	Direct investment outside the reporting economy, as a share of GDP	2010	0.0	1.2	-3.7	8.6
Public investment	Gross fixed capital formation of General Government as a share of GDP	2010	5.8	2.7	1.0	5.8
Long term bond yields	in %	2011	7.2	4.3	2.6	15.8
<b>Economic structure</b>						
Employment in Agriculture (NACE A+B)	% of total employment	2009 (2008)	27.8	5.7	1.4	27.8
Employment in Industry (NACE C+D+E)	% of total employment	2009 (2008)	23.3	17.5	10.2	28.0
Employment in Construction (NACE F)	% of total employment	2009 (2008)	8.0	7.6	5.5	10.9
Employment in Trade and Transport (NACE G+H+I)	% of total employment	2009 (2008)	20.2	25.6	20.2	34.2
Employment in Financial Intermediation (NACE J+K)	% of total employment	2009 (2008)	4.5	15.6	4.5	28.9
Employment in Other Services (NACE L-P)	% of total employment	2009 (2008)	16.3	29.1	16.3	38.7
Productivity in Agriculture; GVA (PPS) / Employment	Index, EU27 = 100	2009	37.9	100.0	33.5	314.5
Productivity in Industry (NACE C+D+E); GVA (PPS) / Employment	Index, EU27 = 100	2009	51.7	100.0	36.7	241.0
Productivity in Construction; GVA (PPS) / Employment	Index, EU27 = 100	2009	75.0	100.0	45.1	142.2
Productivity in Trade and Transport; GVA (PPS) / Employment	Index, EU27 = 100	2009	68.9	100.0	45.4	172.9
Productivity in Financial Intermediation (NACE J-K); GVA (PPS) / Employment	Index, EU27 = 100	2009	89.9	100.0	55.3	158.3
Productivity in Other Services (NACE L -P); GVA (PPS) / Employment	Index, EU27 = 100	2009	57.6	100.0	38.4	160.1

## 2. Regional Indicators

	Average total population	Crude rate of net migration plus statistical adjustment	GDP per head (PPS)	GDP per head growth	Productivity in industry and services (PPS)	Real productivity growth in industry and services	Unemployment rate	Long-term unemployment	Gender gap in unemployment rate	Life expectancy at birth	Employment in knowledge-intensive services	Increase in pot. road accessibility in a high-speed scenario	Increase in pot. rail accessibility in a high-speed scenario	Road fatalities	Population connected to wastewater treatment
	1000 inh.	Per 1000 inhabitants	Index, EU27 = 100	Average annual % change	Index, EU27 = 100	Average annual % change	% of active population	% of total number of active population	Percentage point difference	Years	% of total employment	% increase in current pot. accessibility	% increase in current pot. accessibility	per mio inhabitants	% of total population
	2008	2006-2010	2008	2000-2008	2008	2000-2008	2010	2010	2010	2009	2008	2008	2008	2009	2009
<b>EU27</b>	<b>498714</b>	<b>2.7</b>	<b>100.0</b>	<b>1.9</b>	<b>100.0</b>	<b>0.9</b>	<b>9.6</b>	<b>3.8</b>	<b>0.0</b>	<b>79.4</b>	<b>33.0</b>	<b>14.0</b>	<b>30.3</b>	<b>69.0</b>	<b>69.0</b>
<b>Romania</b>	<b>21504</b>	<b>-0.1</b>	<b>46.6</b>	<b>6.4</b>	<b>60.8</b>	<b>5.0</b>	<b>7.3</b>	<b>2.5</b>	<b>-1.4</b>	<b>73.5</b>	<b>14.8</b>	<b>131.5</b>	<b>69.6</b>	<b>130.1</b>	<b>29.0</b>
<i>NUTS 2 regions</i>															
RO11 Nord-Vest	2722	0.5	41.5	5.6	53.5	4.7	6.8	2.3	-1.0	73.0	15.0	185.4	80.1	121.3	42.2
RO12 Centru	2524	-0.5	44.5	5.5	52.2	4.5	10.5	4.6	-0.9	73.7	14.1	212.8	103.5	142.9	43.7
RO21 Nord-Est	3718	-1.8	28.8	4.4	47.4	4.5	5.8	2.1	-1.1	73.4	12.1	142.4	41.7	116.7	30.7
RO22 Sud-Est	2821	-1.1	38.7	5.2	51.0	3.3	8.8	3.4	-1.2	73.1	13.5	156.1	61.9	132.0	24.7
RO31 Sud - Muntenia	3285	-0.5	39.0	6.5	53.9	4.3	8.3	3.3	-0.2	73.1	12.3	110.7	87.7	140.9	26.7
RO32 Bucuresti - Ilfov	2247	5.0	113.1	9.6	101.5	6.3	4.6	0.2	-1.1	75.1	29.1	58.7	48.2	107.9	1.0
RO41 Sud-Vest Oltenia	2263	-1.7	36.2	4.7	56.1	5.0	7.5	2.4	-3.9	73.1	11.2	157.3	90.3	134.2	16.0
RO42 Vest	1925	1.5	50.7	5.6	57.6	5.5	6.0	1.8	-0.8	73.1	14.1	183.1	77.6	151.2	44.5

(only NUTS2 and NUTS3 regions are colour coded)  
(provisional eligibility status based on GDP data 2006-07-08)

less developed regions  
transition regions

regional values worse than the national average are in red, better than the national average in green.

	Employment rate, ages 20-64			Early school leavers, aged 18-24 **			Population aged 30-34 with high education attainment **			R&D expenditure			At-risk of poverty or social exclusion			Severe material deprivation rate		
	Level	Distance to target	Change	Level	Distance to target	% of population, aged 18-24	Level	Distance to target	% of population, aged 30-34	Level	Distance to target	% of GDP	Level	Distance to target	% of total population	Level	Distance to target	% of total population

**Regional Europe 2020 indicators**

<b>EU27</b>	68.5	6.5	2.0	14	4	32	8	1.9	1.1	24	4	8	31	4	2010	2010-2020	2010	
<b>Romania</b>	63.3	6.7	-5.8	17	6	17	10	0.6	1.4	41	3	31	41	3	2010	2010-2020	2010	
<i>NUTS 2 regions</i>																		
RO11 Nord-Vest	62.3	7.7	-6.2	15	3	15	11	0.4	1.6	31	*	21	31	*	2010	2010-2020	2010	
RO12 Centru	57.9	12.1	-8.0	16	5	16	11	0.1	1.9	30	*	19	30	*	2010	2010-2020	2010	
RO21 Nord-Est	66.9	3.1	-5.2	20	9	13	14	0.4	1.6	51	12	39	51	12	2010	2010-2020	2010	
RO22 Sud-Est	59.6	10.4	-6.6	19	8	14	13	0.2	1.8	52	13	40	52	13	2010	2010-2020	2010	
RO31 Sud - Muntenia	64.5	5.5	-5.4	21	9	11	16	0.3	1.7	43	4	33	43	4	2010	2010-2020	2010	
RO32 București - Ilfov	68.0	2.0	2.1	10	*	38	*	1.4	0.6	34	*	32	34	*	2010	2010-2020	2010	
RO41 Sud-Vest Oltenia	63.8	6.2	-11.8	17	6	14	13	0.2	1.8	48	9	32	48	9	2010	2010-2020	2010	
RO42 Vest	62.7	7.3	-4.8	11	0	18	9	0.3	1.7	36	*	23	36	*	2010	2010-2020	2010	

less developed regions

transition regions

(only NUTS2 and NUTS3 regions are colour coded)

(provisional eligibility status based on GDP data 2006-07-08)

\* the national target has been reached.

\*\* DG Regional Policy calculations



### 3. Population in specific territories

Category	M.S.	EU avg.	EU min.	EU max.
<b>urban/rural including remoteness</b>				
Predominantly urban regions	10.4	40.9	0.0	100.0
Intermediate regions, close to a city	43.8	34.6	0.0	100.0
Intermediate, remote regions	0.0	0.8	0.0	13.4
Predominantly rural regions, close to a city	32.6	18.1	0.0	50.4
Predominantly rural, remote regions	13.2	5.5	0.0	31.6
<b>metro regions</b>				
Capital city region	10.4	16.5	6.1	100.0
Second tier metro region	16.8	19.6	0.0	34.2
Smaller metro region	5.6	23.5	0.0	39.2
Other regions	67.1	40.4	0.0	74.3
<b>border regions</b>				
no programme area	54.5	60.4	0.0	80.1
programme area (including partly)	45.5	39.6	19.9	100.0
internal border programmes (EU + EFTA)	18.4	30.2	0.0	100.0
external border programmes	20.9	4.7	0.0	29.0
both internal and external border programmes	6.2	4.7	0.0	100.0
<b>mountain regions</b>				
> 50 % of population	0.0	0.1	0.0	0.6
> 50 % of surface	20.0	16.1	0.0	69.9
> 50 % of population and 50 % of surface	14.6	7.9	0.0	47.2
Other regions	65.4	76.0	16.2	100.0
<b>island regions</b>				
major island < 50,000 inhabitants	0.0	0.1	0.0	7.5
major island between 50,000 and 100,000 inh.	0.0	0.1	0.0	1.4
major island between 100,000 and 250,000 inh.	0.0	0.2	0.0	4.6
island with 250,000 - 1 million inhabitants	0.0	1.3	0.0	100.0
island with >= 1 million inhabitants	0.0	2.6	0.0	100.0
other regions	100.0	95.7	0.0	100.0
<b>sparsely populated regions</b>				
less than 12.5 inh/km <sup>2</sup>	0.0	0.6	0.0	18.4
other regions	100.0	99.4	81.6	100.0

#### 4. Indicators by degree of urbanisation

Severely materially deprived people by degree of urbanisation - % (2010)

	Densely populated	Intermediate	Thinly populated
<b>EU27</b>	<b>7.7</b>	<b>5.4</b>	<b>11.7</b>
BE	8.6	2.6	3.6
BG	26.6	38.4	41.9
CZ	6.0	6.3	6.2
DK	3.6	2.8	1.2
DE	5.1	3.6	4.8
EE	7.2	14.1	10.1
IE	9.1		5.6
EL	10.4	8.6	13.4
ES	4.1	4.1	3.5
FR	6.8	4.7	5.2
IT	7.5	7.0	5.0
CY	9.5	7.9	8.9
LV	26.8	42.7	27.1
LT	19.4		19.7
LU	0.9	0.3	0.2
HU	17.1	24.1	23.4
MT	5.6	6.9	
NL	3.0	0.9	0.0
AT	7.3	3.0	2.3
PL	12.6	13.0	16.1
PT	10.3	8.3	7.6
RO	24.7	23.7	34.8
SI	6.3	5.3	6.3
SK	9.1	10.2	14.0
FI	3.0	3.1	2.7
SE	1.9	0.8	1.3
UK	6.2	2.9	2.5

Difficult Access to compulsory school by degree of urbanisation - % (2007)

	Densely populated	Intermediate	Thinly populated
<b>EU27</b>	<b>11.6</b>	<b>17.0</b>	<b>21.5</b>
BE	5.6	16.2	16.6
BG	11.3	20.0	27.6
CZ	7.2	10.9	20.0
DK	9.4	11.5	11.9
DE	10.6	17.8	24.4
EE	10.2	3.0	19.3
IE	10.1		16.4
EL	8.4	8.8	18.1
ES	16.2	17.7	21.0
FR	9.1	10.8	9.4
IT	18.2	24.5	27.5
CY	8.0	9.9	9.3
LV	23.0	22.7	25.5
LT	12.9		18.7
LU	13.2	8.2	16.3
HU	12.1	16.3	14.4
MT	17.8	16.6	
NL	9.0	9.4	14.6
AT	13.6	18.3	19.1
PL	8.9	20.3	25.5
PT	16.5	31.5	30.1
RO	10.3	23.9	23.0
SI	9.4	15.0	17.0
SK	9.2	12.7	22.7
FI	5.7	6.9	10.5
SE	10.1	8.4	8.8
UK	11.2	7.5	6.1

Total population by degree of urbanisation - % (2010)

	Densely populated	Intermediate	Thinly populated
<b>EU27</b>	<b>47.7</b>	<b>26.3</b>	<b>26.0</b>
BE	55.6	39.6	4.8
BG	42.6	8.1	49.3
CZ	34.5	24.3	41.2
DK	34.5	31.0	34.5
DE	51.4	33.5	15.2
EE	44.6	3.1	52.3
IE	33.5		66.5
EL	41.4	12.4	46.1
ES	50.6	23.5	25.9
FR	46.7	35.7	17.6
IT	43.5	41.5	15.0
CY	56.7	14.9	28.4
LV	45.5	2.0	52.5
LT	41.9		58.1
LU	34.6	42.8	22.6
HU	33.0	22.2	44.8
MT	84.0	8.4	7.7
NL	64.3	33.6	2.1
AT	35.5	25.6	39.0
PL	40.3	14.1	45.5
PT	44.1	33.2	22.7
RO	37.5	0.9	61.5
SI	18.7	35.7	45.7
SK	22.1	26.6	51.3
FI	25.0	13.7	61.3
SE	22.7	16.2	61.1
UK	67.1	17.6	15.2

## 5. Sources and notes

indicator / notes	unit	source(s)
<b>R&amp;D and innovation</b>		
R&D expenditure	% of GDP	Eurostat
R&D expenditure - national EU 2020 target	% of GDP	European Commission
R&D expenditure - increase required to reach the target	% of GDP	EC, Eurostat, DG REGIO
R&D expenditure - change in rate	Percentage point change	Eurostat, DG REGIO
Gross domestic expenditure on R&D (GERD) financed by Government sector	% of GERD	Eurostat
Authors of EPO patent applications (per inhabitant)	Index, EU27 = 100	Eurostat, DG REGIO
Human Resources in Science and Technology (core)	% of total employment	Eurostat, DG REGIO
<i>Core = people employed in a science and technology occupation AND having successfully completed education at the third level in a S&amp;T field of study</i>		
Employment in high-technology sectors	% of total employment	Eurostat
Employment in knowledge-intensive services	% of total employment	Eurostat
Real labour productivity growth per hour worked	Index 2000 = 100	Eurostat, DG REGIO
<b>IT infrastructure</b>		
Households with broadband connection	% of all households	Eurostat
Firms with broadband connection	% of firms	Eurostat
DSL coverage	% of total population	EC (Europe's Digital Competitiveness Report 2010)
<b>Competitiveness and business environment</b>		
Competitiveness Index	Index - Values range between 0 and 100	JRC, DG REGIO
GDP per head (PPS)	Index, EU27 = 100	Eurostat
GDP per head growth	Annual average % change	Eurostat, DG REGIO
Ease of doing business	Rank (out of 183 economies)	World Bank
Number of days to start a business	Number of days required to register a firm	World Bank
<b>Quality of governance</b>		
Quality of Government index	Index (in standard deviations)	Worldbank, DG REGIO
Rule of law	Index (in standard deviations)	Worldbank, DG REGIO
Voice and Accountability	Index (in standard deviations)	Worldbank, DG REGIO
Government effectiveness	Index (in standard deviations)	Worldbank, DG REGIO
Control of corruption	Index (in standard deviations)	Worldbank, DG REGIO
<i>The five indicators above have been calculated based on the methodology developed in the regional quality of government study by the Quality of Government Institute in Gothenburg.</i>		
Interact with public authorities online	% of individuals	Eurostat
Interact with public authorities online	% of firms	Eurostat
Online access to 20 basic e-government services	% of services available	Eurostat
<b>Education</b>		
Population aged 25-64 with low educational attainment	% of population, aged 25-64	Eurostat
Population aged 25-64 with high educational attainment	% of population, aged 25-64	Eurostat
Population aged 30-34 with high educational attainment	% of population, aged 30-34	Eurostat
Population aged 30-34 with high educational attainment - national EU 2020 target	% of population, aged 30-34	Eurostat, DG REGIO
Population aged 30-34 with high educational attainment - increase required to reach the target	% of population, aged 30-34	Eurostat, DG REGIO

Population aged 30-34 with high educational attainment - change in rate	Percentage point change	Eurostat, DG REGIO
Early school leavers, aged 18-24	% of population, aged 18-24	Eurostat
Early school leavers, aged 18-24 - national EU 2020 target	% of population, aged 18-24	Eurostat, DG REGIO
Early school leavers, aged 18-24 - reduction required to reach the target	% of population, aged 18-24	Eurostat, DG REGIO
Early school leavers, aged 18-24 - change in rate	Percentage point change	Eurostat, DG REGIO

## Climate change and energy

Change in GHG emissions outside ETS	% change	European Environment Agency
GHG emissions outside ETS - national EU 2020 target	%	European Environment Agency
<i>Greenhouse gas emission limits under article 3 of Decision n.406/2009/EC - 2020 limits compared to 2005 greenhouse gas emissions levels</i>		
GHG emissions outside ETS - to reach target (negative = minimum reduction, positive = maximum increase)	% points	European Environment Agency
Share of renewable energy in gross final energy consumption	% of energy consumption	Eurostat
Share of renewable energy in gross final energy consumption - national EU 2020 target	% of energy consumption	Eurostat
Share of renewable energy in gross final energy consumption - increase required to reach the target	% of energy consumption	Eurostat, DG REGIO
Share of renewable energy in gross final energy consumption - change in rate	Percentage point change	Eurostat, DG REGIO
Wind energy potential	full load hours per year	EEA ETC-ACC, REGIO-GIS
<i>Average full load hours per year (onshore only) at 80 m hub height.</i>		
Average of solar radiation resources	Average solar energy resources in KWh/year	JRC (Photovoltaic Geographical Information System), REGIO-GIS
<i>Regional, national and EU averages of raster data representing the yearly sum of global irradiation on optimally-inclined surfaces (KWh/m<sup>2</sup>), during period 1981-1990.</i>		

## Environment

Population connected to urban wastewater treatment	% of total population	Eurostat
Particulate matter (PM10) concentration at surface level	Yearly average concentration (µg/m <sup>3</sup> )	GMES Promote project, JRC, EFGS, REGIO-GIS
<i>Figures at regional, national and EU level are population weighted averages of raster-based concentration values.</i>		
Ozone concentration exceedances	Number of days with exceedance	GMES Promote project, Eurostat, JRC, EFGS, REGIO-GIS
<i>Days with ground-level ozone concentration above 120 µg/m<sup>3</sup>. Population-weighted aggregated values at regional/national/EU level.</i>		
Sufficiency of sites designated under the EU habitats directive	% of sufficiency of proposals	Eurostat
<i>This index measures the extent to which SCI proposed by the MS cover the species and habitats listed in Annexes I and II to the habitats directive. 100% indicates sufficiency of proposals for all Annex I and II terrestrial habitat types and species.</i>		

## Transport

Density of motorways	Index of length, relative to area and population	Eurostat, EuroGeographics, DG MOVE, NSOs, REGIO-GIS
<i>Arithmetic average of the index relative to area (motorway length / surface) and the index relative to population (motorway length / inhabitants), both indices being expressed in comparison to the EU27 average.</i>		
Increase in pot. road accessibility in a high-speed scenario	% increase in current pot. accessibility	DG REGIO, Spiekermann & Wegener
<i>Potential (pot.) accessibility calculates the inverse-distance weighted population that can be reached within approximately four hours travel time. The high-speed scenario assumes an ample provision of motorways.</i>		
Passenger transport by road	% of passenger km per mode	Eurostat
Freight transport by road	% of tonnes km transported per mode	Eurostat
Road fatalities	per mio inhabitants	EC, DG MOVE+ENER-SRD, CARE database
Road fatalities - European 2020 target	per mio inhabitants	COM(2010) 389, Towards a European road safety area

Road fatalities - reduction required to reach the target	per mio inhabitants	DG REGIO
Density of railways (moderate and high speed)	Index of length, relative to area and population	DG REGIO, RRG
<i>Arithmetic average of the index relative to area (railway length / surface) and the index relative to population (railway length / inhabitants), both indices being expressed in comparison to the EU27 average.</i>		
Increase in pot. rail accessibility in a high-speed scenario	% increase in current pot. accessibility	DG REGIO, Spiekermann & Wegener
<i>Potential (pot.) accessibility calculates the inverse-distance weighted population that can be reached within approximately four hours travel time. The high-speed scenario assumes an ample provision of reasonably fast rail connections.</i>		
Passenger transport by rail	% of passenger km per mode	Eurostat
Freight transport by rail	% of tonnes km transported per mode	Eurostat
Accessibility to passenger flights	Daily number of passenger flights	Eurostat, JRC, EFGS, TeleAtlas, EuroGeographics, REGIO-GIS
<i>Regional population-weighted average number of passenger flights per day, accessible at less than 90 minutes travel time by road.</i>		

## Employment

Employment growth	Average annual % change	Eurostat, DG REGIO
<i>Growth of workplace-based employment (regional and national accounts)</i>		
Employment rate, ages 20-64	% of population, aged 20-64	Eurostat and NSOs
Employment rate, ages 20-64 - national EU 2020 target	% of population, aged 20-64	Eurostat, DG REGIO
Employment rate, ages 20-64 - increase required to reach the target	% of population, aged 20-64	Eurostat, DG REGIO
Employment rate, ages 20-64 - change in rate	Percentage point change	Eurostat
<i>Change in the employment rate of persons aged 15-64</i>		
Gender gap in employment rate, ages 20-64	% point difference (f - m)	Eurostat
<i>The difference between female and male employment rates</i>		
Unemployment rate	% of active population	Eurostat and NSOs
Change in unemployment rate	Percentage point change	Eurostat and NSOs
Gender gap in unemployment rate	% point difference (f - m)	Eurostat
<i>The difference between female and male unemployment rates</i>		
Long-term unemployment	% of active population	Eurostat
<i>Long-term unemployed = unemployed for more than 1 year</i>		
Participation in Life Long Learning	% of population, aged 25-64	Eurostat

## Social inclusion, poverty and health

At risk of poverty or exclusion	% of population	Eurostat
At risk of poverty or exclusion - national EU 2020 target	% of population	NRP and preliminary Commission estimates. To be updated May 2012.
At risk of poverty or exclusion - reduction required to reach the target	% of population	DG REGIO
At risk of poverty or exclusion - change in rate	Percentage point change	Eurostat, DG REGIO
Living in a household with a low work intensity	% of population	Eurostat
At risk of poverty after social transfers	% of population	Eurostat
Severely materially deprived persons	% of population	Eurostat
Male life expectancy at birth	Years	Eurostat
Female life expectancy at birth	Years	Eurostat
Infant mortality	Deaths under 1 year of age per 1000 births	Eurostat
Standardised cancer mortality rates	Deaths per 100,000 inhabitants	Eurostat
Standardised heart disease mortality rates	Deaths per 100,000 inhabitants	Eurostat

## Demography

Average total population	1000 inh.	Eurostat (regional accounts)
Population growth	pro mille (annual average)	Eurostat
Natural population change	pro mille (annual average)	Eurostat, NSOs, DG REGIO
Net migration	pro mille (annual average)	Eurostat, NSOs, DG REGIO

*Calculated as the difference between total population change and natural population change*

Population aged 0-14 years	% of total population	Eurostat
Population aged 15-64	% of total population	Eurostat
Population aged 65+	% of total population	Eurostat

## **Economic policy and public finance**

Inflation rate	Annual average rate of change in HICPs	Eurostat
Public deficit/surplus	Net lending / net borrowing as a share of GDP	Eurostat
Public debt	Government gross debt as a share of GDP	Eurostat
Balance of the current account	Current account deficit / surplus as a share of GDP	Eurostat
Total investment	Gross fixed capital formation as a share of GDP	Eurostat
Net foreign direct investment (inflow)	Direct investment in the reporting economy as a share of GDP	Eurostat
Net foreign direct investment (outflow)	Direct investment outside the reporting economy, as a share of GDP	Eurostat
Public investment	Gross fixed capital formation of General Government as a share of GDP	Eurostat
Long term bond yields	in %	Eurostat

## **Economic structure**

Employment in Agriculture (NACE A+B) <i>A+B = Agriculture, hunting, forestry and fishing</i>	% of total employment	Eurostat
Employment in Industry (NACE C+D+E) <i>C+D+E = Total industry (excluding construction)</i>	% of total employment	Eurostat
Employment in Construction (NACE F) <i>F = Construction</i>	% of total employment	Eurostat
Employment in Trade and Transport (NACE G+H+I) <i>G+H+I = Wholesale and retail trade; repair of motor vehicles, motorcycles and personal and household goods, hotels and restaurants; transport, storage and communication</i>	% of total employment	Eurostat
Employment in Financial Intermediation (NACE J+K) <i>J+K = Financial intermediation, real estate, renting and business activities</i>	% of total employment	Eurostat
Employment in Other Services (NACE L-P) <i>L to P = Public administration and defence, compulsory social security; education; health and social work; other community, social and personal service activities; private households with employed persons</i>	% of total employment	Eurostat
Productivity in Agriculture; GVA (PPS) / Employment <i>A+B = Agriculture, hunting, forestry and fishing</i>	Index, EU27 = 100	Eurostat
Productivity in Industry (NACE C+D+E); GVA (PPS) / Employment <i>C+D+E = Total industry (excluding construction)</i>	Index, EU27 = 100	Eurostat
Productivity in Construction; GVA (PPS) / Employment <i>F = Construction</i>	Index, EU27 = 100	Eurostat
Productivity in Trade and Transport; GVA (PPS) / Employment <i>G+H+I = Wholesale and retail trade; repair of motor vehicles, motorcycles and personal and household goods, hotels and restaurants; transport, storage and communication</i>	Index, EU27 = 100	Eurostat
Productivity in Financial Intermediation (NACE J-K); GVA (PPS) / Employment <i>J+K = Financial intermediation, real estate, renting and business activities</i>	Index, EU27 = 100	Eurostat
Productivity in Other Services (NACE L -P); GVA (PPS) / Employment <i>L to P = Public administration and defence, compulsory social security; education; health and social work; other community, social and personal service activities; private households with employed persons</i>	Index, EU27 = 100	Eurostat