

# **PUBLIC STATISTICS FOR PROGRAMMING AND MONITORING COHESION POLICY – POLISH EXPERIENCE WITH THE STRATEG SYSTEM**

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European Union  
Cohesion Fund



GENESIS OF THE STRATEG PROJECT

GOALS OF THE STRATEG PROJECT

MILESTONES OF THE STRATEG PROJECT

BACKGROUND OF THE STRATEG PROJECT

SCOPE OF INFORMATION IN STRATEG

FUNCTIONING OF STRATEG SYSTEM

VALUE ADDED OF THE STRATEG PROJECT

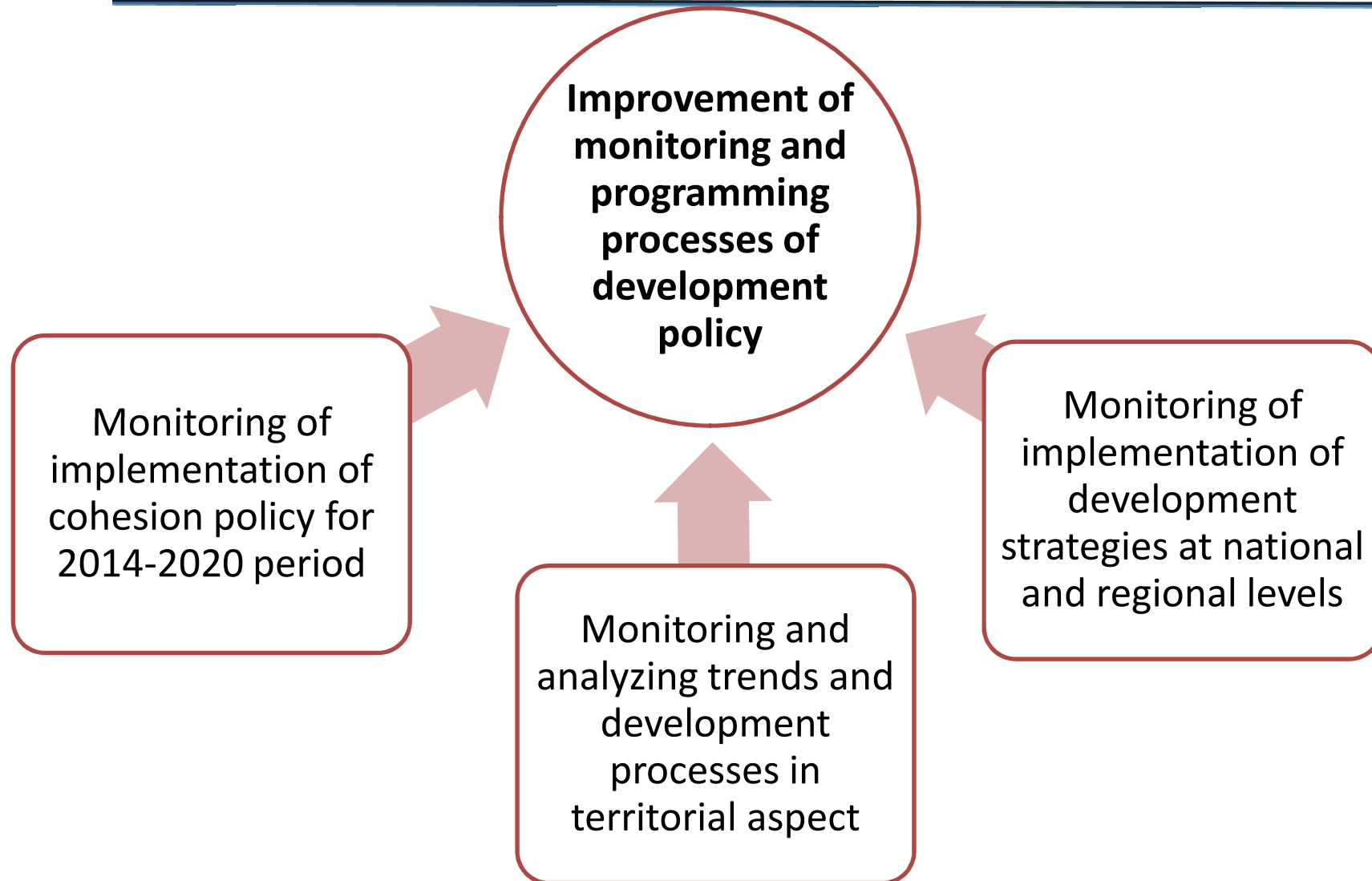
# The role of public statistics in the information system of the country:

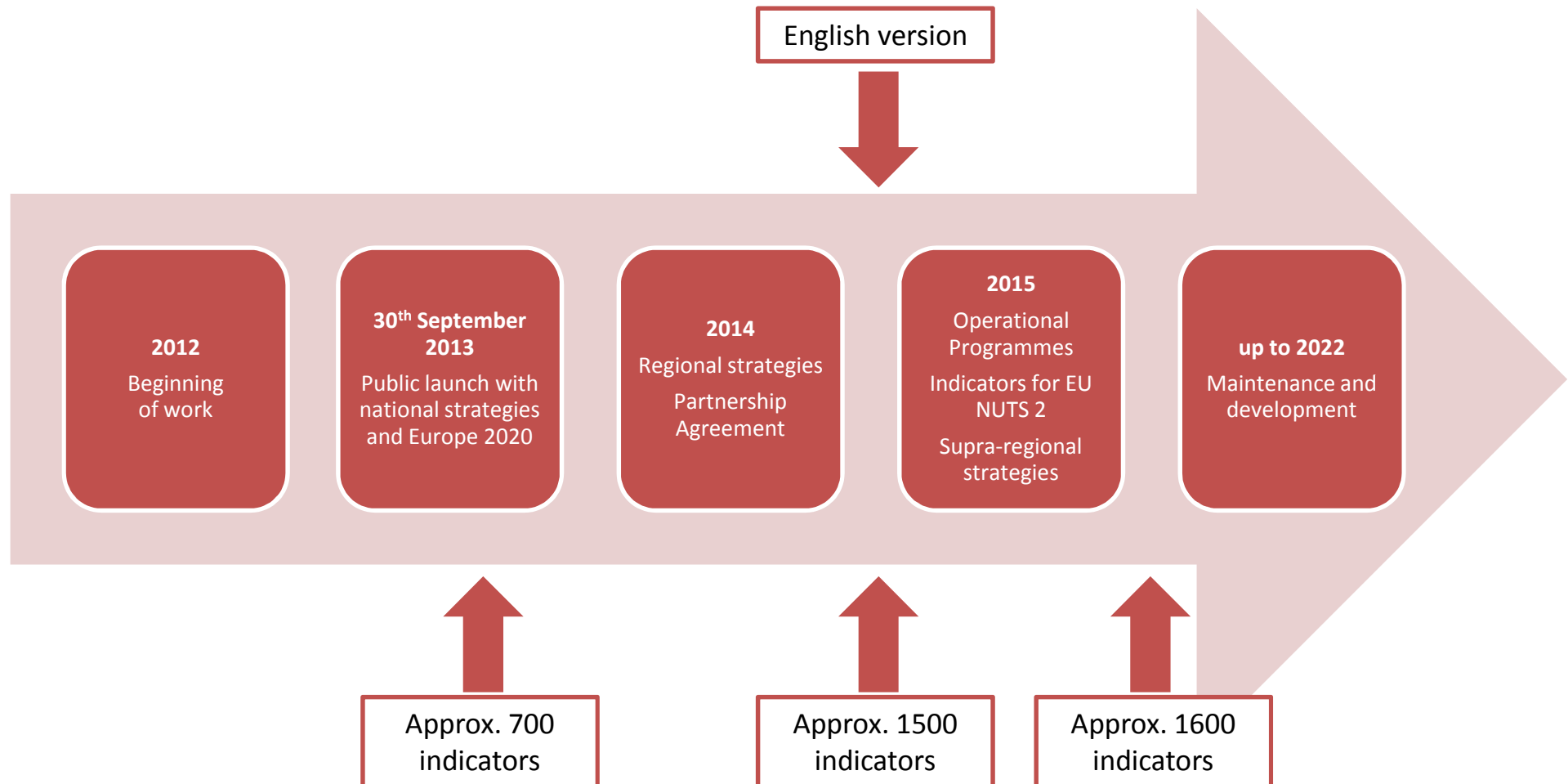
- information support for policy making and monitoring processes
- competitive advantages:
  - Methodology of surveys
  - Quality of statistics
  - Permanence of information

Agreement between Ministry of Regional Development (coordinator of the national system of strategies) and Central Statistical Office – December 2012

Target: elaboration of *the system of the key indicators for monitoring and programming the development policy*

The project „Management of development - improving the quality of governance in Poland”, financed from European Funds (Operational Programme „Human Capital” )





### Basis for development and cohesion policy on EU level:

- **Europe 2020:** a long-term strategy of socio-economic development of the European Union for years 2010-2020, based on 5 EU headline targets which are currently being measured by 11 headline indicators.

### Basis for cohesion policy on national and regional level:

- **Partnership Agreement,** 6 national Operational Programmes and 16 regional Operational Programmes for 2014-2020 period

## Basis for development policy on national and regional levels:

- Europe 2020 targets translated into national targets (National Reform Programs)
- other national programs – for Poland complex system of strategies:
  - Long-term strategy – National Development Strategy 2030
  - Medium-term strategy – National Development Strategy 2020
- 9 integrated strategies on:
  - transport
  - human capital
  - social capital
  - energy security and environment
  - regional development, etc.
- The National Spatial Development Concept
- 16 regional strategies
- 4 supra-regional strategies

All programs monitored by dedicated sets of indicators



Public database for the needs of policy planning and monitoring process

Rich set of information – data, metadata (definitions, methodological explanations), information on strategies and programmes, elaborations, subject analyses and publications

Modern tools used to visualize analyses of phenomena

Possibility of arithmetical operations on data

Flexible and permanent system (it will have been being maintained and developed at least until 2022)

**Target users** - representatives of government and self-government, engaged in the development policy programming and monitoring process, policy makers, and others

More than 1600 main indicators (with breakdown by sex, age, rural and urban areas, where possible – more than 2100 indicators)

Data for Poland and detailed territorial levels (up to LAU 2, where available)

Time series since 2003

Data for EU countries

Selected indicators for EU regions (NUTS 2)

Statistical guide

Metadata & analyses

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# FUNCTIONING OF STRATEG SYSTEM



**DEVELOPMENT MONITORING SYSTEM**  
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## RECENTLY ADDED

09.05.2016 Updated

Some data concerning following thematic areas have been updated: Education ; Energy; Social capital; Culture, Tourism. Sport ;Population; Environmental protection; Health care; Entrepreneurship and competitiveness; National accounts; Agriculture; Labour market; Public safety and the efficiency of the State; Transport & communication

## DATABASE



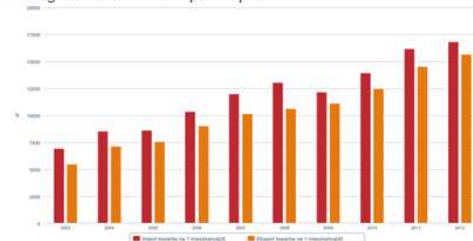
## Welcome to STRATEG

STRATEG is a system created by the Central Statistical Office for programming and monitoring of development policy. It is a collection of data derived from different sources and used to monitor the implementation of strategies binding in Poland (at the national, supra-national and voivodship levels) as well as in the European Union (Europe 2020 strategy). Additionally, the system gathers statistical indicators relevant to the implementation of cohesion policy. Apart from numerical data, STRATEG also includes definitions of concepts, methodological explanations, reports and thematic analyses. Along with a highly developed database application, the STRATEG system offers its users functional tools supporting the analysis of socio-economic trends in form of charts and maps.

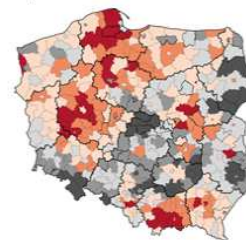
[The Statistical Guide](#) will support you in interpretation of data.

## MAPS AND CHARTS

Foreign trade turnover per capita




Natural increase per 1000 inhabitants in 2014



## SEE ALSO



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1 2 3 4 5 6 7  


**Europe 2020:**



The EU Strategy for smart, sustainable and inclusive growth.

**Supra-regional strategies**


**Partnership Agreement**

**Operational Programmes**

**National strategies:**

- Long-term National Development Strategy
- National Development Strategy
- Strategy for Innovation and Efficiency of the Economy
- Human Capital Development Strategy
- Transport Development Strategy
- Strategy for Energy Security and the Environment
- Efficient State Strategy
- Social Capital Development Strategy
- National Strategy of Regional Development
- Strategy for Development of the National Security System
- Strategy for Sustainable Development of Rural Areas, Agriculture and Fisheries
- National Spatial Development Concept
- National Strategic Reference Framework

**Regional strategies:**



Programmes setting out directions for sustainable, balanced development and economic, social and territorial cohesion of regions.

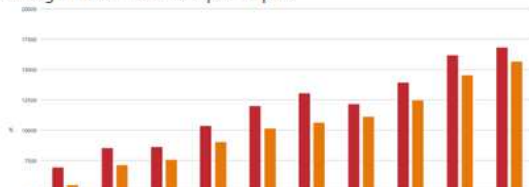
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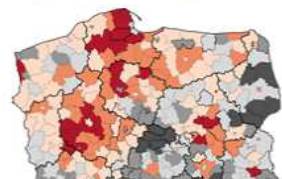
**The Statistical Guide** will support you in interpretation of data.


**MAPS AND CHARTS**

**Foreign trade turnover per capita**




**Natural increase per 1000 inhabitants in 2014**






**LOCAL DATA BANK**



**OTHER MONITORING SYSTEMS**

**SEE ALSO**



# FUNCTIONING OF STRATEG SYSTEM – STRATEGIES/PROGRAMMES TABLE

*Europe 2020 - the Strategy for smart, sustainable and inclusive growth* is a long-term programme of socio-economic development of the European Union for years 2010-2020. The main objective of the strategy is to boost economic growth, but particular attention is paid to issues [>>more](#)

Table
Chart

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### Europe 2020 Strategy

POLAND

Base value
Intermediate value
Target value

Indicator	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2020 Target value
Area 1. Employment														
Employment rate of persons aged 20-64 [%]	.	.	.	.	.	.	.	64.3	64.5	64.7	64.9	66.5	.	at least 71.0%
Area 2. Research and development														
Expenditures on R&D in relation to GDP [%]	0.56	0.56	0.57	0.56	0.57	0.60	0.67	0.72	0.75	0.88	0.87	0.94	.	1.7
Area 3. Climate change and sustainable energy use														
Greenhouse gas emissions (1990=100)	83.11	83.99	83.94	86.92	86.90	85.17	81.51	85.90	85.29	83.93	83.20	80.42	.	reduction in CO <sub>2</sub> emissions
Share of renewable energy in gross final energy consumption [%]	.	.	6.90	6.90	6.90	7.70	8.70	9.20	10.30	10.88	11.34	11.45	.	15.0
Primary energy consumption [Mtoe]	.	.	87.65	91.72	91.61	92.76	89.81	95.72	95.79	92.67	93.00	89.12	.	reduction consumption to approx. 96 Mtoe
Area 4. Education														
Percentage of early leavers from education and training [%]	6.0	5.6	5.3	5.4	5.0	5.0	5.3	5.4	5.6	5.7	5.6	5.4	5.3	4.0
Percentage of persons aged 30-34 with tertiary education attainment [%]	.	.	.	.	.	.	.	34.8	36.5	39.1	40.5	42.1	.	45.0

**Legend:**  
"." - Complete lack of information, the fulfillment is impossible or inadvisable or data not yet available



## Indicator profile

Save Print

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Indicator name	Expenditures on R&D in relation to GDP
Alternative name / indicator used in the strategy/programme	–
Strategic/programme documents / targets for monitoring	<p>Europe 2020 Strategy Long-term National Development Strategy National Development Strategy National Strategic Reference Framework National Strategy of Regional Development Partnership Agreement Strategy for Development of the Dolnośląskie Voivodship Strategy for Development of the Lubelskie Voivodship Strategy for Development of the Lubuskie Voivodship Strategy for Development of the Łódzkie Voivodship Strategy for Development of the Małopolskie Voivodship Strategy for Development of the Opolskie Voivodship Strategy for Development of the Podlaskie Voivodship Strategy for Development of the Pomorskie Voivodship Strategy for Development of the Śląskie Voivodship Strategy for Development of the Świętokrzyskie Voivodship Strategy for Development of the Wielkopolskie Voivodship Strategy for Development of Western Poland Strategy for Innovation and Efficiency of the Economy Strategy for Socio-Economic Development of the Warmińsko-Mazurskie Voivodship Regional Operational Programme of Dolnośląskie Voivodship Regional Operational Programme of Kujawsko-Pomorskie Voivodship Regional Operational Programme of Lubelskie Voivodship Regional Operational Programme of Łódzkie Voivodship Regional Operational Programme of Małopolskie Voivodship Regional Operational Programme of Mazowieckie Voivodship Regional Operational Programme of Opolskie Voivodship Regional Operational Programme of Podkarpackie Voivodship Regional Operational Programme of Podlaskie Voivodship Regional Operational Programme of Pomorskie Voivodship Regional Operational Programme of Śląskie Voivodship Regional Operational Programme of Świętokrzyskie Voivodship Regional Operational Programme of Warmińsko-Mazurskie Voivodship Regional Operational Programme of Wielkopolskie Voivodship Regional Operational Programme of Zachodniopomorskie Voivodship</p>
Themes	Research and innovation
The goal of cohesion policy	<p>Smart growth:</p> <p>– Strengthening research, technological development and innovation</p>
	Sum of intramural expenditures on research and development activity incurred by all national entities conducting this activity, irrespective of origin of the funds, in relation to GDP.

## Indicator description

Indicator is the main measure in research and development statistics, characterized the competitiveness and the level of knowledge economy.

## Methodological explanations

**Research and experimental development (R&D)** comprise creative work undertaken on a systematic basis in order to increase the stock of knowledge (e.g. about man, culture and society) and the use of this stock of knowledge to devise new applications.

Research and development activity includes: scientific research (basic research - experimental or theoretical work undertaken primarily to achieve specific practical applications, applied research - original investigation undertaken in order to acquire new knowledge that has specific practical applications, industrial research - undertaken in order to acquire new knowledge directed to producing new or significantly improved goods, processes or services and experimental development (systematic work, drawing on existing knowledge, which is directed to producing new or significantly improved goods, processes or services). R&D is distinguished from other types of activity from visible element of novelty and the elimination of scientific and technical uncertainty. R&D surveys are carried out on the basis of international methodology (Frascati Manual).

Intramural expenditures on R&D are expenditures incurred in a reporting year on R&D in the reported entity, irrespective of origin of such funds, i.e. including funds obtained from abroad (exports of R&D). They cover both current expenditures and investment outlays on fixed assets related to R&D, but do not cover depreciation of these assets.


Current expenditures on R&D are personnel outlays; costs of consumption of materials, nondurable objects and energy; costs of services made by other contractors (other than R&D) including: third party processing, transport, repair, bank, postal, telecommunication, information technology, publishing, municipal, etc. services; costs of business trips and other current costs, including in particular taxes and fees charged on costs of operating activity and profits, property insurance and equivalent for the benefit of employees - in part in which they are related to R&D. Total current expenditures do not include depreciation of fixed assets and VAT tax.

Capital expenditures on R&D cover new fixed assets connected with R&D; purchase (taking over) of second-hand fixed assets as well as outlays on initial investments (not included in fixed assets and purchased from investment funds).

Gross domestic product (GDP) illustrates the final result of the activity of all entities of the national economy.

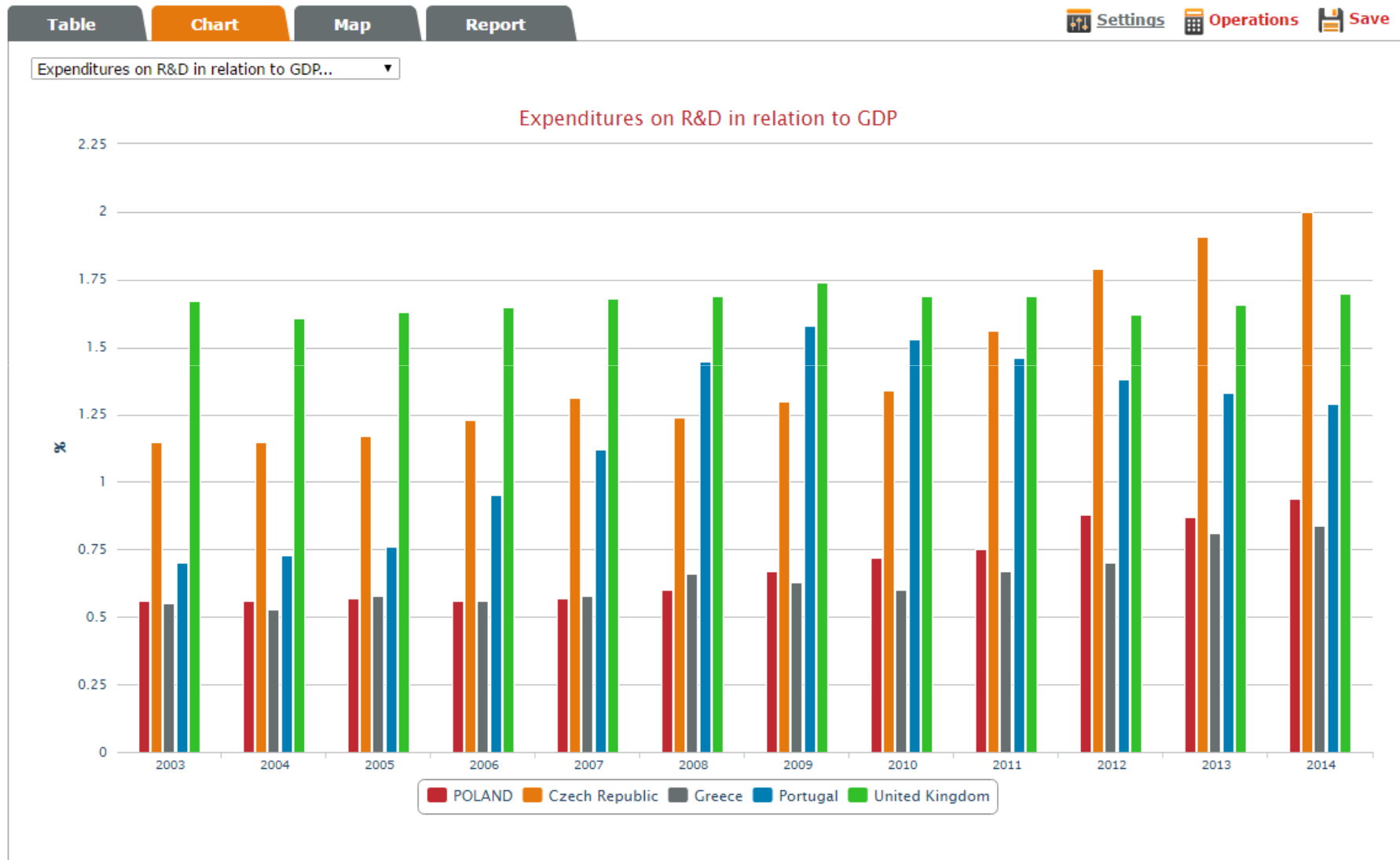
Data source	Central Statistical Office
Data availability in the system	Annual data; since 2003
Available variables	Not applicable
Territorial level of availability	Poland, Central Poland, Eastern Poland, Southern Poland, Western Poland, NTS 2
Availability for EU	<p>EU-28, EU-27, EU countries</p> <p>Source of data: Eurostat</p>
Remarks	<p>Data for Poland in total for years 2003-2013 and for voivodships and functional areas for years 2010-2012 previously presented in Strateg system has been changed with regard for the adoption of ESA 2010 methodology. See more: <a href="http://stat.gov.pl/en/topics/national-accounts/european-system-of-national-and-regional-accounts-esa-2010/">http://stat.gov.pl/en/topics/national-accounts/european-system-of-national-and-regional-accounts-esa-2010/</a></p> <p>To access the data according to ESA 1995 please follow the path described below:</p> <ol style="list-style-type: none"> <li>1. click the link: <a href="http://stat.gov.pl/en/poland-macroeconomic-indicators/">http://stat.gov.pl/en/poland-macroeconomic-indicators/</a></li> <li>2. choose the position called Annual macroeconomic indicators</li> <li>3. in the List of tables click the position National accounts – ESA 1995.</li> </ol>

# FUNCTIONING OF STRATEG SYSTEM – INDICATOR'S TABLE

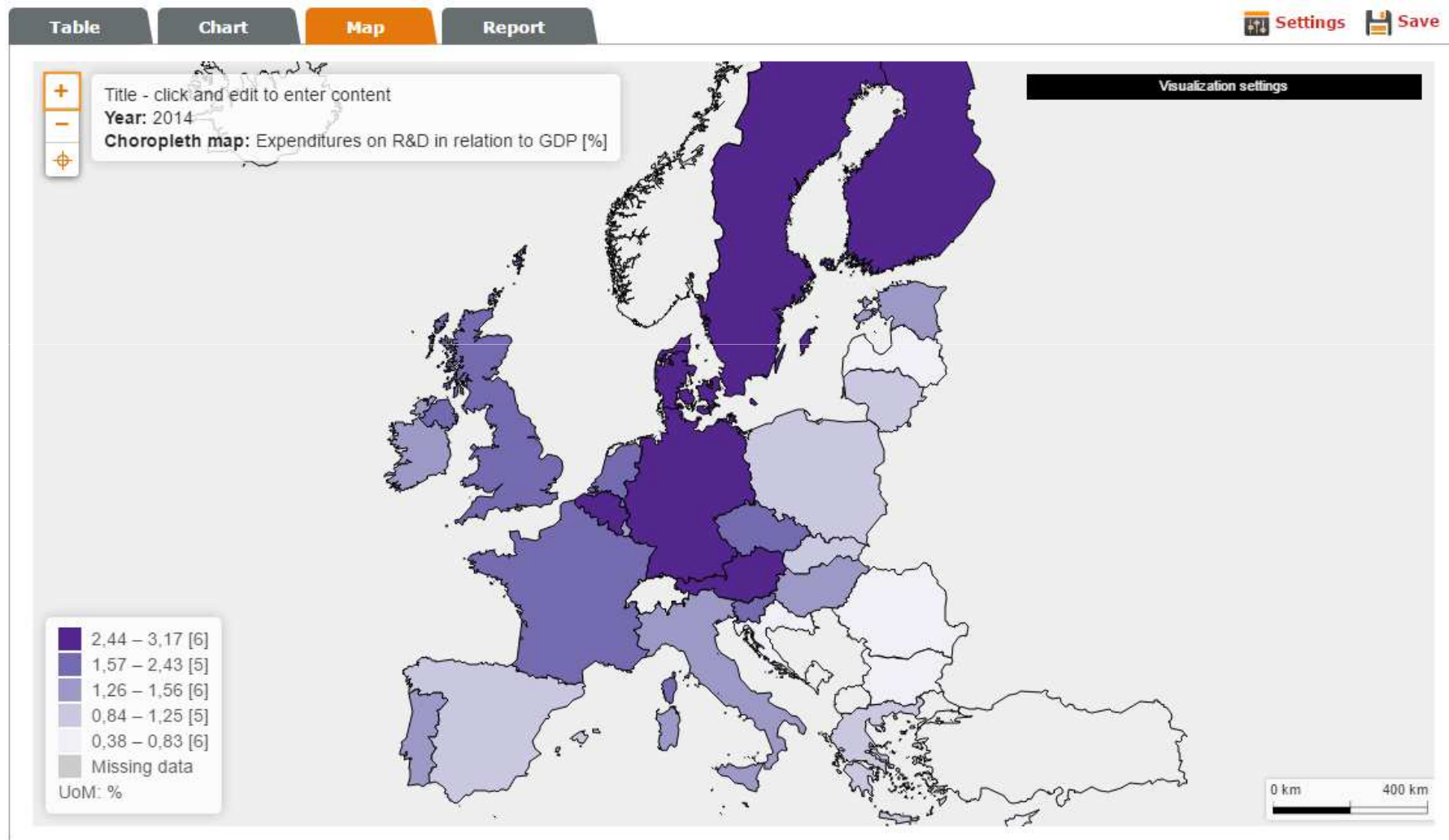
<div> <div>Table</div> <div>Chart</div> <div>Map</div> <div>Report</div> </div> <div> <div>Settings</div> <div>Operations</div> <div>Print</div> <div>Save</div> </div>													
Indicator	Territorial unit	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Expenditures on R&D in relation to GDP [%] 	European Union (28 countries)	1.80	1.76	1.76	1.78	1.78	1.85	1.94	1.93	1.97	2.01	2.03	2.03
	POLAND	0.56	0.56	0.57	0.56	0.57	0.60	0.67	0.72	0.75	0.88	0.87	0.94
	Austria	2.18	2.17	2.38	2.37	2.43	2.59	2.61	2.74	2.68	2.89	2.96	2.99
	Belgium	1.83	1.81	1.78	1.81	1.84	1.92	1.99	2.05	2.16	2.36	2.43	2.46
	Bulgaria	0.47	0.47	0.44	0.44	0.43	0.45	0.50	0.57	0.54	0.61	0.64	0.80
	Croatia	0.95	1.03	0.86	0.74	0.79	0.88	0.84	0.74	0.75	0.75	0.82	0.79
	Cyprus	0.32	0.34	0.37	0.39	0.40	0.39	0.45	0.45	0.45	0.43	0.46	0.48
	Czech Republic	1.15	1.15	1.17	1.23	1.31	1.24	1.30	1.34	1.56	1.79	1.91	2.00
	Denmark	2.51	2.42	2.39	2.40	2.51	2.78	3.07	2.94	2.97	3.00	3.06	3.05
	Estonia	0.77	0.85	0.92	1.12	1.07	1.26	1.40	1.58	2.31	2.11	1.71	1.44
	Finland	3.30	3.31	3.33	3.34	3.35	3.55	3.75	3.73	3.64	3.42	3.29	3.17
	France	2.11	2.09	2.04	2.05	2.02	2.06	2.21	2.18	2.19	2.23	2.24	2.26
	Greece	0.55	0.53	0.58	0.56	0.58	0.66	0.63	0.60	0.67	0.70	0.81	0.84
	Spain	1.02	1.04	1.10	1.17	1.23	1.32	1.35	1.35	1.33	1.28	1.26	1.23
	Netherlands	1.81	1.81	1.79	1.76	1.69	1.64	1.69	1.72	1.90	1.94	1.96	1.97
	Ireland	1.12	1.18	1.19	1.20	1.23	1.39	1.61	1.61	1.53	1.56	1.54	1.52
	Lithuania	0.66	0.75	0.75	0.79	0.80	0.79	0.83	0.78	0.90	0.90	0.95	1.01
	Luxembourg	1.65	1.62	1.59	1.69	1.61	1.64	1.71	1.53	1.50	1.29	1.30	1.26
	Latvia	0.36	0.40	0.53	0.65	0.55	0.58	0.45	0.61	0.70	0.67	0.61	0.69
	Malta	0.24	0.49	0.53	0.58	0.55	0.53	0.52	0.64	0.69	0.86	0.84	0.83
	Germany	2.46	2.42	2.42	2.46	2.45	2.60	2.72	2.71	2.79	2.87	2.83	2.87
	Portugal	0.70	0.73	0.76	0.95	1.12	1.45	1.58	1.53	1.46	1.38	1.33	1.29
	Romania	0.38	0.38	0.41	0.45	0.52	0.57	0.46	0.45	0.49	0.48	0.39	0.38
	Slovakia	0.56	0.50	0.50	0.48	0.45	0.46	0.47	0.62	0.67	0.81	0.83	0.89
	Slovenia	1.25	1.37	1.41	1.53	1.42	1.63	1.82	2.06	2.42	2.58	2.60	2.39
	Sweden	3.61	3.39	3.39	3.50	3.26	3.50	3.45	3.22	3.25	3.28	3.31	3.16
	Hungary	0.92	0.86	0.93	0.99	0.96	0.99	1.14	1.15	1.20	1.27	1.40	1.37
	United Kingdom	1.67	1.61	1.63	1.65	1.68	1.69	1.74	1.69	1.69	1.62	1.66	1.70
	Italy	1.06	1.05	1.05	1.09	1.13	1.16	1.22	1.22	1.21	1.27	1.31	1.29

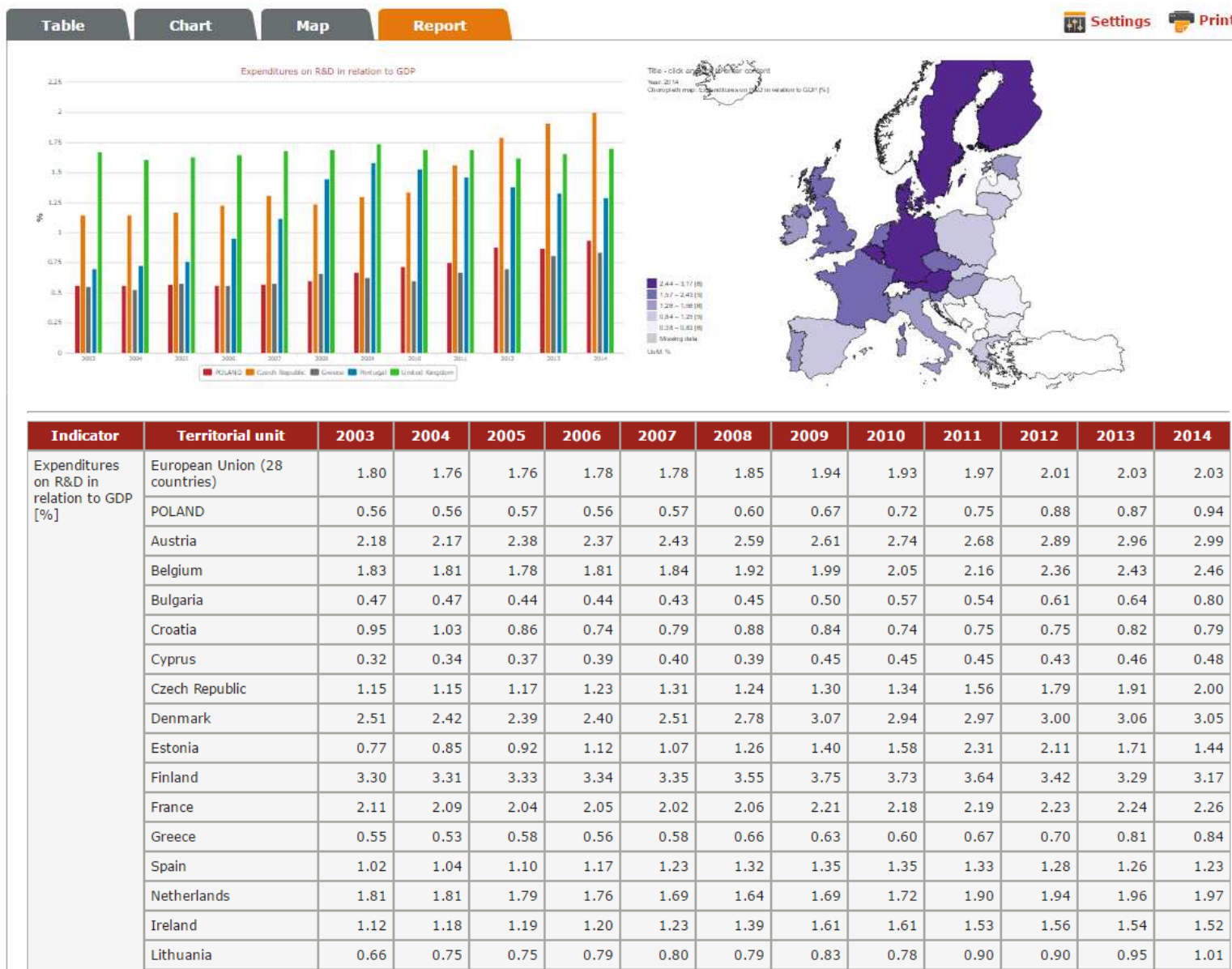


# FUNCTIONING OF STRATEG SYSTEM – VISUALISATION ON CHART



# FUNCTIONING OF STRATEG SYSTEM – VISUALISATION ON MAP





# FUNCTIONING OF STRATEG SYSTEM – HELP: INTERACTIVE USER GUIDE



[Homepage](#) -->> [Help](#)

## Help

### Interactive user guide

How to display indicators by strategy



**STRATEGIES & PROGRAMMES**

The video shows how to access the table containing indicators grouped by strategy and then how to access the dynamic table that can be modified.

00:00 | 03:44

- 02 How to display indicators by strategy.
- 03 How to display indicators by cohesion policy goal.
- 04 How to display indicators by theme.
- 05 How to display indicators by local government unit.
- 06 How to display indicators by name.
- 07 How to find indicators by theme.
- 08 How to find methodological notes – indicator profile.
- 09 How to find a concept definition.
- 10 How to find analyses and publications.

### Information for the User of the STRATEG system

- + Technical requirements for the STRATEG user
- + The content and territorial scope of the STRATEG system
- + Keeping the system up-to-date
- + Data (indicators) search and selection
- + Types of data presentation in the STRATEG system
- + Ways of searching for metadata explanations

### FAQ – frequently asked questions

- + What is STRATEG and what is it for?
- + Do I need to register to access the STRATEG system?
- + What is the criterion for selecting strategic documents to be stored in the STRATEG system?

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**INDICATOR** | **METADATA & ANALYSES**

- Information about indicators
- Conceptual definitions
- Statistical guide**
- Analyses and publications
- Documents and their coordinators
- Classifications




Statistical guide


**TECHNICAL ASSISTANCE**  
 NATIONAL RESEARCH STRATEGY







Science and technology; information society 

Measure <sup>3.1</sup>  
**Gross domestic expenditures on R&D activity**

Gross domestic expenditures on R&D include total intramural expenditures on research and development activity of all entities carrying out this activity in a given area, regardless of the source of funding. Internal expenditures include:

- a) current expenditures – inter alia, personnel costs, consumption of materials and energy, external services, business trips, insurance,
- b) capital expenditures on fixed assets linked to R&D activity.

Available breakdowns

by kind of outlays	by fields of science	by sources of funds	by activity
by performance units			

Possible computations

in relation to GDP	per capita	per 1 person employed in R&D
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Interpretation

Gross domestic expenditures on R&D activity are a key measure in statistics on research and development activity, characterizing the competitiveness and development level of the economy based on knowledge. It allows for the analysis of activity of enterprises in the scope of conducting the research and development activity. It is a support for the composite process of making innovation and science policy. The value of gross domestic expenditures on R&D in relation to gross domestic product is used e.g. for comparison of research and development activity of individual countries.

In Poland, in the survey of expenditures on research and development activities covers all entities (including micro-entities of natural persons), with special attention to these whose primary kind of activity is classified into division 72 of NACE Rev.2 – scientific research and development (including institutes of the Polish Academy of Sciences) universities, which conduct research and development activity, entities engaged in R&D while carrying out main activity and realized intermittently. The survey covers all business entities.

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Coherent set of available, clearly described indicators which can be used for future strategies

Educational advantages – knowledge on specifics of statistics, methodological information

Stronger position of public statistics in the policy planning process

- Higher consciousness of administrative authorities concerning the role of statistics in policy planning and monitoring

# Enjoy the STRATEG system!

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