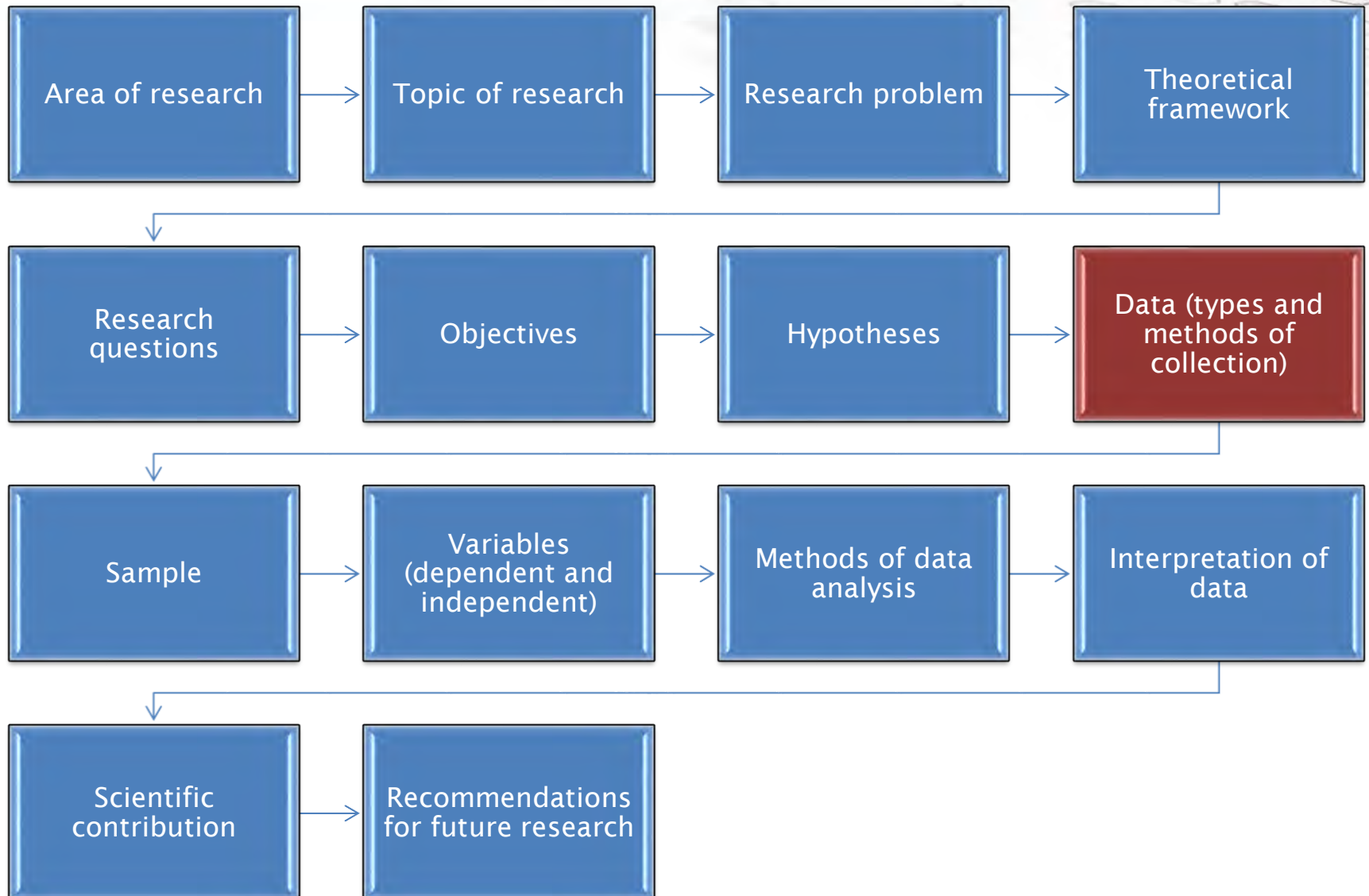# STATISTICAL RESEARCH METHODS

International inter-university postgraduate interdisciplinary doctoral study ENTREPRENEURSHIP AND INNOVATIVENESS

Jasna Horvat, Ph.D.

Josipa Mijoč, Ph.D.

RESEARCH PROCESS

Where is the data?

Availability of data today

- The age we live in?
  - First industrial revolution
    - Steam engine
  - Second industrial revolution
    - Electrical power and conveyor belts
  - Third industrial revolution
    - Electronics and robotics
  - Fourth industrial revolution
    - Data and 'smart' centers

- Time – fourth industrial revolution
- Missing – time, finances?
- We need – information which we produce from
  - DATA

  - STATISTICS

Data

- Types of data that are collected in research:
  - Primary research
    - Primary Data
  - Secondary research
    - Secondary Data

GOAL?

- Reach the wanted data in as little time as possible
  - Valid
  - Reliable
  - Cheap
    - Free?
  - Comparable
- Successfully transform data into
  - information

How to find data?

Data sources:

- personal gathering – PRIMARY DATA
- „borrowing data" – SECONDARY DATA

Gathering	PRIMARY		SECONDARY	
PURPOSE	for the problem that is being researched	+	second purpose	-
PROCESS	very demanding	-	quick and simple	+
EXPENSES	high	-	low or none	+
TIME	long	-	short	+
SAMPLE	questionable representativity	-	(multi)nationally representative	+

Primary Data

- Gathered for the purpose of your own study
  - More expensive, more unavailable, takes longer to collect, but more precisely
    - More suitable for the specific research question

- **Knowing how to work with primary data is an assumption of valid analyses of secondary data**

Do you understand this?

Secondary Data

- Collected by other researchers (Institutions, organizations, individual)
  - Advantages :
    - Easily accessible
      - Databases
      - Statistical Yearbook
      - Official institutions
        - » e.g. DZS, HZZ, HNB, Eurostat, Eurobarometer, ESS, GEM, etc.
      - General reports
      - Parent company documentation
      - Internet websites
      - Documents
    - Less costly
    - Objective

Secondary Data

- Disadvantages:
  - Are they refferinf to the research questions?
  - "hidden" in aggregate data
  - Comparability?
    - Different units and methodology
    - Is the time interval the same?
    - Same category of data?
      - Example: Age
  - Outdate
  - May be unreliable
  - …

Secondary data

- Disadvantages:
  - Finding data which suit the needs of the research
  - Methodology of data in foreign language
    - Language skills of researcher
    - Compatibility of researchers methodological skills with the original methodology
  - **Mandatory logical-formal controls of encodedness of measurable charts**

Secondary data

- **Internal**
  - Within a company
    - Business, financial, accounting reports,…
- **External**
  - Publications of state offices, agencies, scientific institutions, business associations, but also other commercial sources

Secondary data

- **1st rule:**

CITE DATA SOURCE

- **2nd rule:**

Describe the methodology by which the data was originally collected

Data factory

For example:

- **Croatian:** DZS, HNB, HZZ, HANFA, HGK, MFIN, ZSE, etc.

- **European:** EUROSTAT, EUROBAROMETER, EUROPEAN SOCIAL SURVEY, etc.

- **World:** UNESCO, UN, OECD, GEM, etc.

- ... ∞

When choosing and using secondary data consider:

- Who can find this data useful?
- Which kind of analyses would be useful?
- Source of the data?

- Let's watch a [video](#):
  - The Joy of Stats
    - Hans Rosling's 200 Countries
      - 200 Years

Refreshing memories

RESEARCH

- Developing and testing new theories
- Habit of questioning
- **It is based on data:**

Collecting	Recording	Analyzing	Interpreting

RESEARCH PROCESS

Area of research	→	Topic of research	→	Research problem	→	Theoretical framework

Research questions	→	Objectives	→	Hypotheses	→	Data (types and methods of collection)

Sample	→	Variables (dependent and independent)	→	Methods of data analysis	→	Interpretation of data

Scientific contribution	→	Recommendations for future research
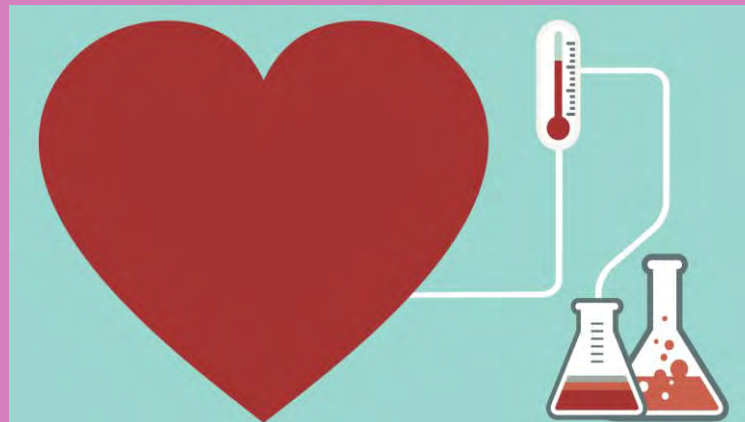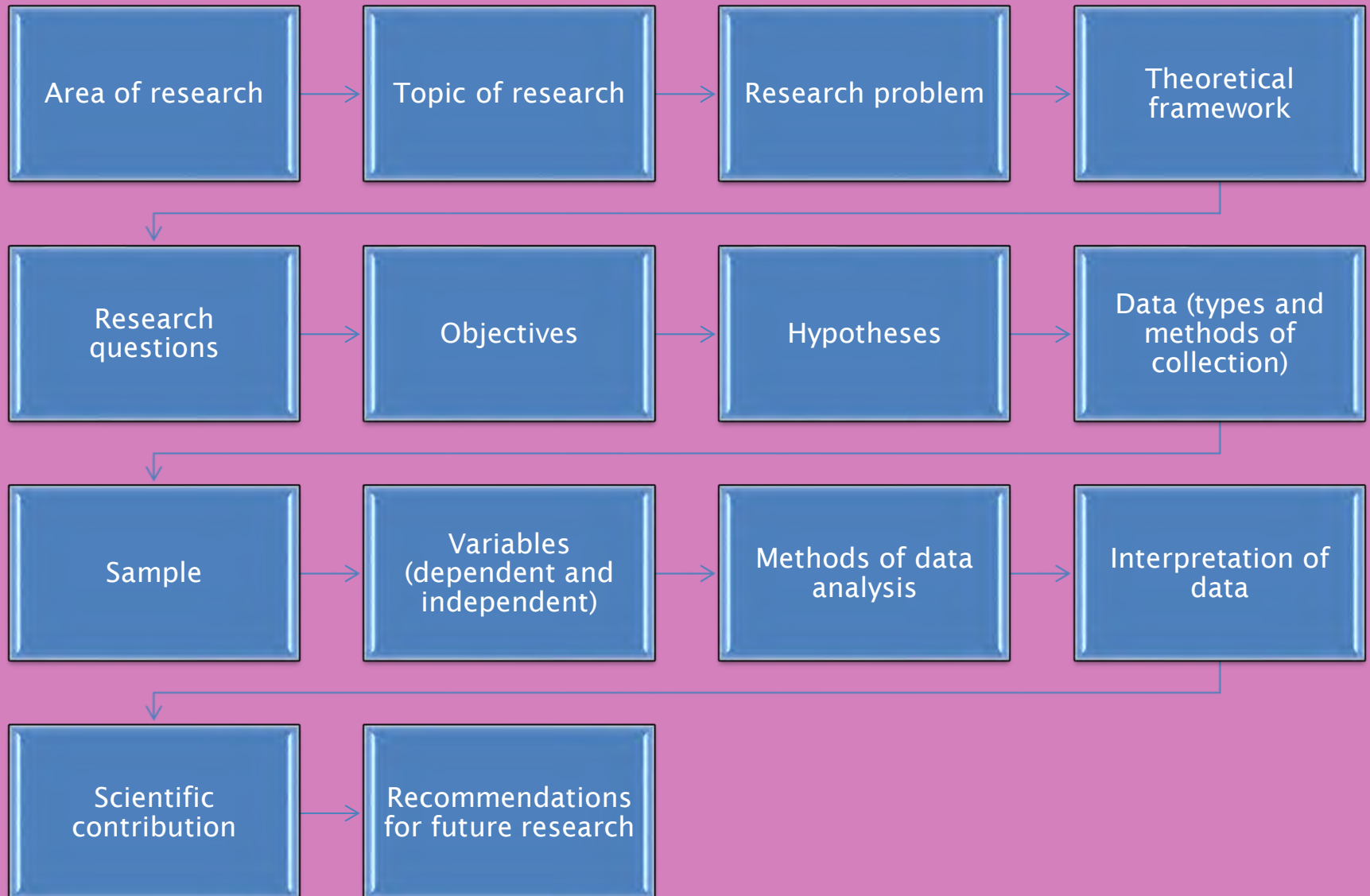
Determining the area of research

- **Area of research** is a broad area of interest from which a specific topic can be generated
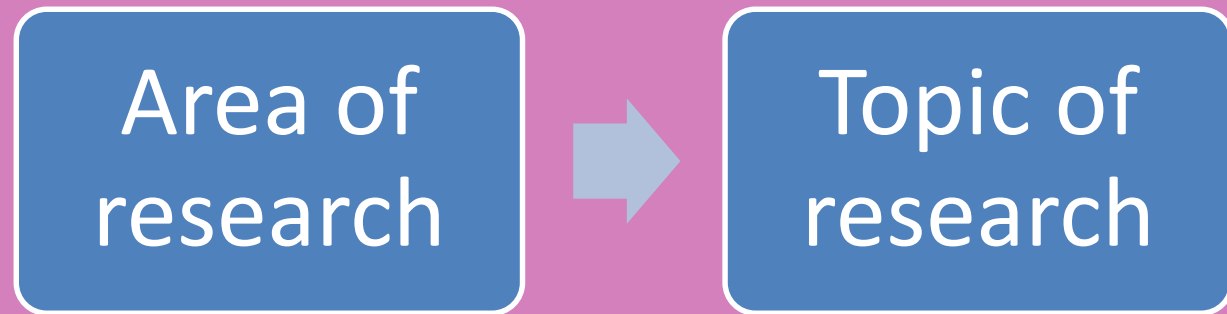
Area of research → Topic of research

- Answer the question: *What interests you?*
- Select an **area** that you are sincerely interested in

Topic of research

- Soundness of the topic?!
  - Investigate and verify:
    - Previous studies
    - Published works
    - Scientific contributions
    - Projects in progress
    - Etc.

- Currently open access: [ProQuest](#) (It works for now just from the classroom – IP address ☹)

Setting the research problem:

- Should it (can it):
  - Give contribution:
    - To an unexplored phenomenon
    - To the deeper understanding of the topic
    - To familiarizing with marginalized social phenomena
    - To a specific practice
  - Replicate:
    - An already conducted research (with other participants in another place)

Sample Health Sciences Review Matrix.xlsx - Excel

FILE | HOME | INSERT | PAGE LAYOUT | FORMULAS | DATA | REVIEW | VIEW

A8

	A	B	C	D	E	F	G	H	I	J	K
1	Sample Review Matrix on the Use of Acupuncture for Treating Chronic Lower Back Pain										
2	REFERENCE & PURPOSE				SUBJECTS		DATA	VARIABLES		CONCLUSION	COMMENTS
3	Author(s), Title, Journal	Year Published	Purpose	#	Subject Characteristics	Sample Design	Year Data Collected	Control	Intervention		
4	Cho YJ, Song YK, Cha YY, Shin BC, Shin IH, Park HJ, Lee HS, Kim KW, Cho JH, Chung WS, Lee JH, Song MY. Acupuncture for chronic low back pain: A multicenter, randomized, patient-assessor blind, sham-controlled clinical trial. *Spine.*	2013	Is acupuncture superior to a placebo for treating chronic lower back pain?	130	Similar baseline characteristics except for Oswestry Disability Index	Multicenter, randomized, patient-assessor blind. Visual analogue scale (VAS) score, Oswestry Disability Index, general health status (Short Form-36), and Beck Depression Inventory (BDI). Treated >6 weeks for 2x week.	2008-2010	Sham acupuncture treatments	Real acupuncture treatments	Based on VAS scores, acupuncture is effective	
5	Cherkin DC, Sherman KJ, Avins AL, Erro JH, Ichikawa L, Barlow WE, Delaney K, Hawkes R, Hamilton L, Pressman A, Khalsa PS, Deyo RA. A randomized trial comparing acupuncture, simulated acupuncture, and usual care for chronic low back pain. *Arch. Intern Med.*	2009	Are needle placement and skin penetration important when using acupuncture to treat patients with chronic low back pain?	638	Similar baseline characteristics	Randomized-control trial. Modified Roland Disability Questionnaire, pain scale from 0 ("not at all bothersome") to 10 ("extremely bothersome"), Physical and Mental Health Component Summary Scores. 10 treatments over 7 weeks.	(Recruitment occurred March 2004 through August 2006.)	Usual care	Individualized acupuncture, standardized acupuncture, or simulated acupuncture	Acupuncture found effective for chronic low back pain, but tailoring needling sites unimportant. Unclear what this means.	
6											

Sheet1

READY

Some suggestions:

- Baze.nsk.hr
  - Proxy
  - AAI@edu.hr
    - name@efos.hr
- Google scholar
  - How to cite?
- Research Gate
- …

Types of objectives of research

- According to the application:
  - Theoretical (scientific) objectives
    - Useful for theory
  - Applicative objectives
    - Useful in practice

Who needs this?

Use action-oriented verbs:

- Example
  - To explain,
  - To apply,
  - To predict,
  - To identify,
  - To study,
  - To investigate,
    - To employ, evaluate, describe, illustrate, defend, integrate, use, assess, interpret, distinguish, categorize, solve, formulate, report, relate, organize, restate, recall, prepare, review, list, arrange, classify, name, construct, recognize, create, determine, …

Research question/s

- The central part of the research process

- Determines the **direction** of research

- Affects the quality of the entire project
  - E.g. find, determine, analyze

- **Definition: Concrete questions to which the research provides the answer**

Hypothesis

- Definition: plausible claim about relations between two or more variables
    - Clear implications for testing the stated relations between the variables
    - It should be expressed as briefly as possible
    - It should be based on theory, previous research, data
- **Relations** between variables:
    - Correlation, differences, influences, types of variables, dependency, prediction, models, measurements, effects, …

How to find data?

Data sources:

- personal gathering – PRIMARY DATA
- „borrowing data" – SECONDARY DATA

Gathering	PRIMARY		SECONDARY	
PURPOSE	for the problem that is being researched	+	second purpose	-
PROCESS	very demanding	-	quick and simple	+
EXPENSES	high	-	low or none	+
TIME	long	-	short	+
SAMPLE	questionable representativity	-	(multi)nationally representative	+

Public and open (free) data

Discussion

- Have you ever used data from Eurobarometer until now?

- Look at the topics, do You think there are any interesting areas of research?

Eurobarometer

European public opinion

- Trends of public attitude
- Measuring how public opinion is *changing* over time
- Understand how the European project and its developments *impact on the life of Europeans*
- Provide information for policy-making

- Helps us to see also beyond the EU and
  - Comparison with the world leader countries

Eurobarometer's four types of surveys

- Standard Eurobarometer surveys
  - the reference on European public opinion, with <u>face-to-face surveys at respondents' homes</u> done twice a year (Spring/Autumn) by DG COMM since 1974.

  - Each survey consists of approximately **1000 face-to-face interviews per country**
  - Reports are published twice yearly

Eurobarometer's four types of surveys

- Special Eurobarometer surveys
  - the primary tool for capturing the opinion of the general public on **specific issues**, <u>with face-to-face surveys at respondents' homes</u>
  - reports are based on <u>in-depth thematic studies</u> carried out for various services of the European Commission or other EU Institutions and integrated in the Standard Eurobarometer's polling waves.

Eurobarometer's four types of surveys

- Flash Eurobarometer surveys
  - telephone surveys for the polling of specific target groups or the general public with short questionnaires
  - ad hoc thematic <u>telephone interviews</u> conducted <u>at the request of any service</u> of the European Commission
  - Flash surveys enable the **Commission to obtain results relatively quickly** and to <u>focus on specific target groups</u>, as and when required.

Eurobarometer's four types of surveys

Qualitative EB

- Eurobarometer Studies
  - focus groups or in-depth interviews, allowing for a detailed understanding of public opinion on a specific subject
  - the qualitative studies investigate in-depth the <u>motivations, feelings and reactions</u> of selected social groups towards a given subject or concept, by listening to and analysing their way of expressing themselves in <u>discussion groups</u> or with <u>non-directive interviews.</u>

Explore it!

- 10 minutes!
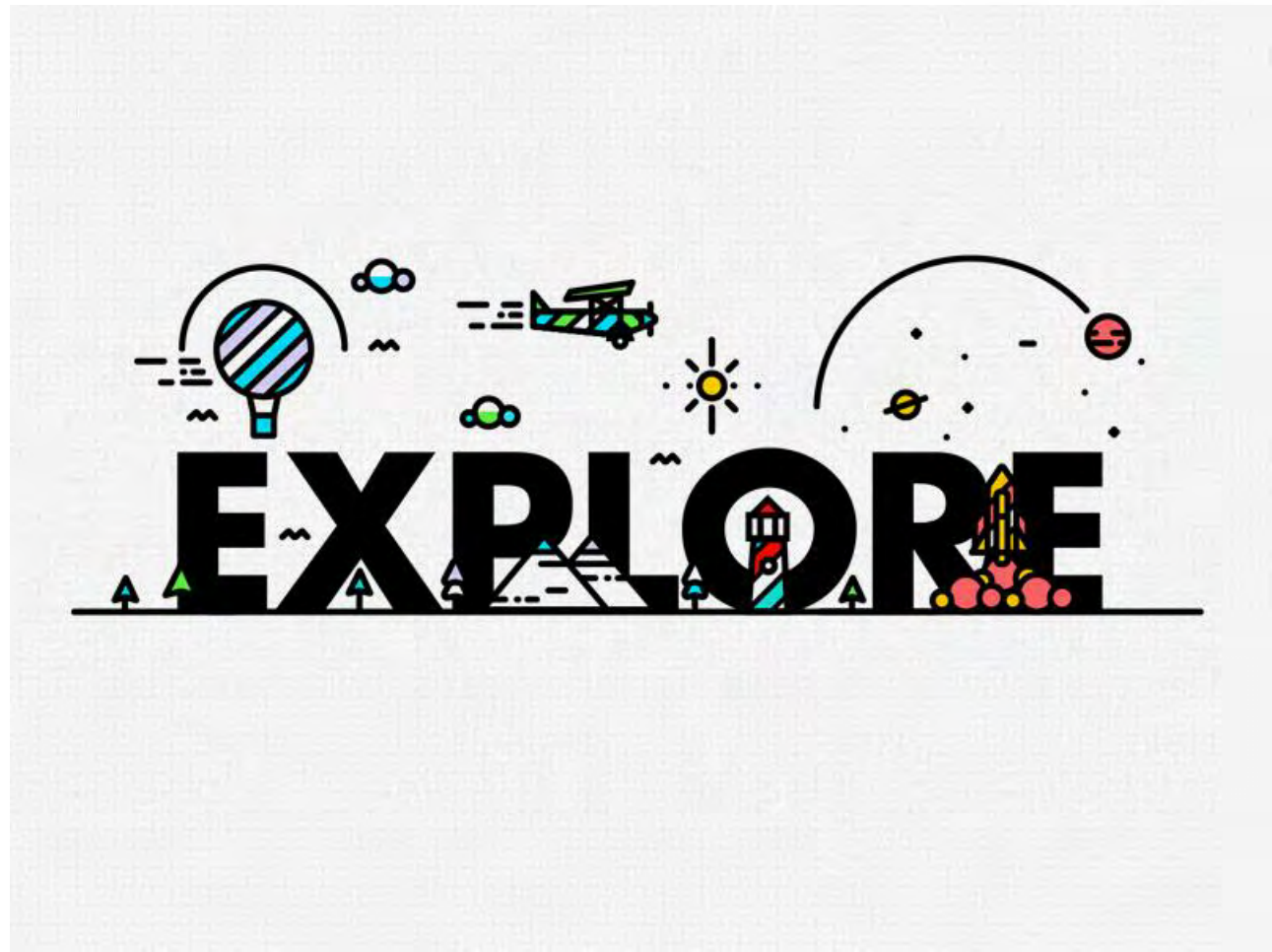
Displayed examples

- Useful, interesting and current research
- Reports
  - Descriptive reports
    - Comparison of countries
- Representative national samples
- Verified methodology
- BUT
  - How to reach data? How to reach questionnaires? Can we use (paid) labors of EK in new research questions and controversies linked to various topics of the EU?

gesis Leibniz-Institut
für Sozialwissenschaften

Eurobarometer Data Service

Suche　GESIS durchsuchen...　▼

Home ▼　**Survey Series ▼**　**Search & Data Access ▼**　**FAQ**

Sie sind hier:　*Eurobarometer Data Service* ▸　Home 📄

The European Commission's Eurobarometer Surveys

Monitoring the public opinion in the European Union member and candidate countries is the mission of the Eurobarometer programme, which comprises the following survey series or instruments:

- Standard & Special Eurobarometer
- Flash Eurobarometer
- Central & Eastern Eurobarometer (1990-1997)
- Candidate Countries Eurobarometer (2000-2004)

The surveys are conducted on behalf of the **European Commission** and the responsible Directorate-General(s), particular modules are commissioned by the **European Parliament**. The **survey results** are regularly published in official reports by the European Commission or rather by the European Parliament.

The **primary data on microdata level** and the related documentation are placed at the disposal of the scientific community for research and training since the 1970s. They are curated at the GESIS data archive department (formerly Central Archive for Empirical Social Research) and at the Interuniversity Consortium for Political and Social Research (ICPSR). They are made available in the long term and worldwide for re-use in statistical analysis, i.a. in the context of the European social science data archive network (CESSDA).

Data access

Eurobarometer Data Service

Suche   GESIS durchsuchen...   ▼

Home ▼   **Survey Series ▼**   **Search & Data Access ▼**   **FAQ**

Access to Eurobarometer primary data

Eurobarometer primary data and related documentation (questionnaires, codebooks, etc.) are made available by GESIS, ICPSR and through the Social Science Data Archive networks. Adequate use of these data presupposes at least basic knowledge in data analysis methodology and experience in the use of statistical software packages (information on Eurobarometer weighting variables should also be noticed).

Single topical modules may be subject to temporary embargo provisions and may not be part of the dataset distributed by the archive(s) at any one time.

Data access via the GESIS Data Catalogue (DBK)	▼

Data access via ZACAT Data Portal	▼

Bibliographic citation of Eurobarometer data	▼

Terms and conditions	▼

Free tools supporting data download and format conversion	▼

Eurobarometer Data Service

Access to Eurobarometer primary data

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Single topical modules may be subject to temporary embargo provisions and may not be part of the dataset distributed by the archive(s) at any one time.

Data access via the GESIS Data Catalogue (DBK)	▲

DBK-Download - free of charge download of microdata analysis files (SPSS or STATA) and questionnaires via the data catalogue entry (study description). All Eurobarometer data catalogue entries are also listed by groups:

- Standard & Special Eurobarometer (DBK)
- Flash Eurobarometer (DBK)
- Candidate Countries Eurobarometer (DBK)
- Central & Eastern Eurobarometer (DBK)

DBK-Ordering - complete Eurobarometer collections on DVD-R can be ordered via shopping cart and subject to handling charges of 25 € per DVD-R product:

- Standard & Special Eurobarometer 1970-2014
- Candidate Countries Eurobarometer 2000-2004
- Central & Eastern Eurobarometer 1990-1997

For accessing data through Data Catalogue (DBK), you need to sign in with user name (your e-mail address) and password. New users have to register first.

GESIS Data Catalogue 2.1

Search | **Browse** | Overview | News | About

Login | Shopping Cart

Groups

Products

Studies

Geographic Codes

Member of the

Leibniz Association

da|ra Registration agency for social and economic data

DataCite
FIND, ACCESS, AND REUSE DATA

DBKSearch 2.1 © GESIS

GN0008: EB - Standard and Special Eurobarometer

Since the early nineteen seventies the European Commission´s "Standard and Special Eurobarometer" are regularly monitoring the public opinion in the European Union member countries at times. Interviews are conducted face-to-face, in each spring and each autumn, at all times based on new samples with a size 1000 respondents per country. Separate samples are drawn for Northern Ireland and East Germany. After the EU enlargement in 2004, remaining and new Candidate Countries are also regularly included in selected surveys. The Standard Eurobarometer modules ask for attitudes towards European unification, institutions and policies, complemented by measurements for general socio-political orientations, as well as by respondent and household demographics. Intermittently special Eurobarometer modules extensively address topics, such as environment, science and technology, health or family issues, social or ethnic exclusion, quality of life etc. The "European Communities Studies" 1970-1973 can be considered forerunner studies, as well the "Attitudes towards Europe" from 1962.

Study List

1 2 3 4 5 6 7 8 9 10 >>

- ZA0078 Attitudes towards Europe (1962)
- ZA0626 European Communities Study 1970
- ZA0627 European Communities Study 1971
- ZA0628 European Communities Study 1973
- ZA0986 Eurobarometer 2 (Oct-Nov 1974)
- ZA0987 Eurobarometer 3 (May 1975)
- ZA0988 Eurobarometer 4 (Oct-Nov 1975)
- ZA0989 Eurobarometer 5 (May-Jun 1976)
- ZA0990 Eurobarometer 6 (Nov 1976)

Content

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Geographic Codes

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da|ra — Registration agency for social and economic data

DataCite
FIND, ACCESS, AND REUSE DATA

DBKSearch 2.1 © GESIS

ZA5998: Eurobarometer 83.3 (2015)

Bibliographic Citation | **Content** | Methodology | Data & Documents | Errata & Versions

Further Remarks | Publications | Groups

Abstract

Attitudes towards the EU. Europe 2020. European economy. European citizenship. EU budget. Economic knowledge. Attitude towards statistics.

Topics: 1. Attitudes towards the EU: life satisfaction; frequency of political discussions about local, national, and European matters with friends and relatives; assessment of the current situation in the following areas: national economy, European economy, personal job situation, financial situation of the own household, national employment situation, quality of life in the own country, quality of life in the EU; expectations for the next twelve months regarding: personal life in general, national economic situation, financial situation of the own household, national employment situation, personal job situation, economic situation in the EU; most important problems in the own country, personally, and in the EU; assessment of the own country's assumed membership in the EU as a good thing (not in EU28 and CY); expectations of benefit from an assumed membership of the own country (not in EU28 and CY); assessment of the development in the own country and in the European Union as positive; trust in selected institutions: national legal system (not in CY), police (not in CY), army (not in CY), political parties, regional or local public authorities (not in CY), national government (not in CY), national parliament (not in CY), European Union, and the United Nations; image of the EU; assessment of the immigration of people from other EU member states and from outside the EU as positive;

Downloading data

GESIS Data Catalogue 2.1

| A | | Search | **Browse** | Overview | News | About |

▾ Login   Shopping Car

Groups

Products

Studies

Geographic Codes

ZA5964: Eurobarometer 83.1 (2015)

| Bibliographic Citation | Content | Methodology | **Data & Documents** | Errata & Versions |

| Further Remarks | Publications | Groups |

Dataset

Number of Units: 27980

Number of Variables: 443

Analysis System(s): SPSS, Stata

Availability ⓘ   0 - Data and documents are released for everybody.

Download of   **All downloads from this catalogue are free of charge. Data-sets available under access**

Data and Documents ⓘ   **categories B and C must be ordered via the shopping cart.** Charges apply!

⬇ | **Datasets** | Questionnaires | Other Documents | DDI Documents |

‣ ZA5964_v1-0-0.dta (Dataset STATA) 16 MBytes

‣ ZA5964_v1-0-0.por (Dataset SPSS Portable) 30 MBytes

‣ ZA5964_v1-0-0.sav (Dataset SPSS) 17 MBytes

ᶻᴬᶜᴬᵀ ZACAT online analysis, data download with sub-setting in several formats, and search

in variable level documentation:

Eurobarometer 83.1 (February-March 2015)

Member of the
Leibniz Association

da|ra Registration agency for
social and economic data

DataCite
FIND, ACCESS, AND REUSE DATA

DBKSearch 2.1 © GESIS

Create an account!

Specific search

The Data Catalogue DBK holds study descriptions of all studies that are available at the Data Archive. **All downloads from this catalogue are free of charge. Data-sets available under access categories B and C must be ordered via the shopping cart. Charges apply!**

Search   Options

Please enter single search term (automatic truncation):

Search term 1:

in: [all fields]   ▲▼

Fields ⓘ Categories ⓘ Topics ⓘ

Search in: English Study descriptions

Sort by: Year of Collection descending   ▲▼

Show: 100 hits   ▲▼

Search

New Data   📄DBK | 🔊
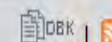
EU Neighbourhood   6 Jan 2016
Barometer Wave 2 - Autumn 2012
(ZA6289) available

EU Neighbourhood   5 Jan 2016
Barometer Wave 1 - Summer 2012
(ZA6288) available

Professional   5 Jan 2016
socialisation of childcare workers
(ZA5843) available

Terms of use

Charge regulations

Usage regulations

Bibliographic citations of research data

Contact

GESIS Data service
Team Data service
Phone: 0221-476 94-420
E-Mail

Found groups: 1

1

No.	Group-number	Group Title		Order
1	GN0065			🛒

No products found.

Found studies: 75

1 2 3 4 5 6 7 8

Select all none	No. ↑↓	Title ↑↓	Collection Date ↑	Order Download
1 ☐	ZA6285			🛒 ⬇
2 ☐	ZA5905			🛒 go to dow ⬇
3 ☐	ZA5887			🛒 ⬇
4 ☐	ZA5617			🛒 ⬇
5 ☐	ZA5792			🛒 ⬇
6 ☐	ZA5478			🛒 ⬇
7 ☐	ZA5919			🛒

ZA6285: Flash Eurobarometer 414 (Preferences of Europeans towards Tourism, 2015)

Type

| Bibliographic Citation | Methodology | **Data & Documents** | Errata & Versions | Publications |

| Groups |

Dataset

Number of Units: 30101

Number of Variables: 629

Analysis System(s): SPSS, Stata

Availability ℹ

0 - Data and documents are released for everybody.

Download of

Data and Documents ℹ

All downloads from this catalogue are free of charge. Data-sets available under access categories B and C must be ordered via the shopping cart. Charges apply!

| **Datasets** | Questionnaires | Other Documents | DDI Documents |

· ZA6285_v1-0-0.dta (Dataset STATA) 23 MBytes

· ZA6285_v1-0-0.por (Dataset SPSS Portable) 43 MBytes

· ZA6285_v1-0-0.sav (Dataset SPSS) 24 MBytes

🛒 You can order this study via shopping cart. Charges apply!

add to shopping cart

○ General Access to studies and data sets at the GESIS Data Archive for the Social Sciences

You need to combine these two pages!

- GESIS
  - SPSS dataset (.sav)
  - Questionnaire (.pdf)
- [Eurobarometer](#)
  - Reports
    - Methodology
- List of Eurobarometer
  - Loomen

Do you have data access to the whole Eurobarometer datasets?

Standard EB

Special EB

Year ▾	Reference	Title	Fieldwork
2018	476	EU citizens and development cooperation	June 2018
2018	473	Europeans, Agriculture and the CAP	December 2017
2018	472	Sport and physical activity	December 2017
2018	471	Fairness, inequality and inter-generational mobility	December 2017
2018	469	Integration of immigrants in the European Union	October 2017
2018	462	E-Communications and Digital Single Market	April 2017
2017	470	Corruption	October 2017
2017	468	Attitudes of European citizens towards the environment	September 2017

Assignment

You need to find and upload to Loomen an SPSS file and the related questionnaire.

(the file and questionnaire must be different from the shown examples)

More EU data

Eurostat

- Statistical office of the European Union
- Mission
  - to provide high quality statistics for Europe.
- Enabling comparisons between countries and regions
- International statistics are a way of getting to know your neighbors in the Member States and countries outside the EU
- Eurostat offers a whole range of important and interesting data that governments, businesses, the education sector, journalists and the public can use for their work and daily life

Code and label of the new aggregate

To accommodate the changes a new code was introduced and a label change has been done for existing codes. The most important changes are listed below.

Geo code	Label	Comment
EU28	European Union (current composition)	label changed
EU27_2019	European Union (without United Kingdom)	new code
EU27	European Union (before the accession of Croatia)	label changed

eurostat
Your key to European statistics

Type a keyword, a publication title, a dataset title...

News   **Data**   **Publications**   **About Eurostat**   **Help**

NEWS RELEASES   See complete list

23/10/2018

Seasonally adjusted government deficit decreased to 0.1% of GDP in the euro area

In the second quarter of 2018, the seasonally adjusted general government deficit to GDP ratio stood at 0.1% in the euro area (EA19), a decrease compared with 0.2% in the first quarter of 2018 and the lowest deficit since the beginning of comparable time series (2002). In the EU28, the deficit to... *more*

Release calendar

WHAT'S NEW?   See complete list

23/10/2018

Migrant integration: regional employment rate

22/10/2018

SDGs & me: Clean water & sanitation

20/10/2018

New version of digital publication on women and men

19/10/2018

Be surprised by statistics

DATA

Most popular tables   Complete database   Visualisations & Tools

ECONOMIC TRENDS

Government deficit/surplus (% GDP)

EU (28 countries)

-1.0   2017

2.0
0.0
-2.0
-4.0
-6.0
-8.0

2007 2009 2011 2013 2015 2017

European Union 28 countries   Euro Area 19 countries

eurostat
Your key to European statistics

News	Data	Publications

European Commission > Euros

NEWS RELEASES

> Database

> Browse statistics by theme

> Statistics A - Z

> Population Census 2011 ☑

> Experimental statistics

> Bulk download

> Web Services

> Access to microdata

> GISCO:Geographical Information and maps

> Metadata

> SDMX InfoSpace

> Data validation

eurostat
Your key to European statistics

Type a keyword, a publication title, a dataset title...

News	Data	Publications	About Eurostat	Help

European Commission > Eurostat > Data > Database

DATA

▲ **DATABASE**
    Information
Browse statistics by theme
Statistics A - Z
Population Census 2011 ☑
Experimental statistics
Bulk download
▲ **Web Services**
    SDMX Web Services
    Json and Unicode Web Services
Access to microdata
GISCO:Geographical Information and maps
▲ **Metadata**
    ESS Reference Metadata
    Reporting Standards
    Classifications
    Legislation and methodology ☑
    Concepts and definitions ☑
    Glossaries
    National methodologies ☑
    Standard code lists ☑
SDMX InfoSpace
Data validation

IMPORTANT MESSAGE

New aggregate for European Union without UK > more

DATABASE

📂 Data navigation tree
  📂 Database by themes
    ⊞ 📁 General and regional statistics
    ⊞ 📁 Economy and finance
    ⊞ 📁 Population and social conditions
    ⊞ 📁 Industry, trade and services
    ⊞ 📁 Agriculture, forestry and fisheries
    ⊞ 📁 International trade
    ⊞ 📁 Transport
    ⊞ 📁 Environment and energy
    ⊞ 📁 Science, technology, digital society
  📂 Tables by themes
    ⊞ 📁 General and regional statistics
    ⊞ 📁 Economy and finance
    ⊞ 📁 Population and social conditions
    ⊞ 📁 Industry, trade and services
    ⊞ 📁 Agriculture, forestry and fisheries
    ⊞ 📁 International trade
    ⊞ 📁 Transport
    ⊞ 📁 Environment and energy
    ⊞ 📁 Science, technology, digital society
  📂 Tables on EU policy
    ⊞ 📁 ZIP Macroeconomic imbalance procedure indicators
    ⊞ 📁 ZIP Euro indicators / PEEIs M
    ⊞ 📁 ZIP Europe 2020 indicators
    ⊞ 📁 ZIP Circular economy indicators

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  ⊟📂 Database by themes

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    ⊞📁 Economy and finance

    ⊞📁 Population and social conditions

    ⊞📁 Industry, trade and services

    ⊞📁 Agriculture, forestry and fisheries

    ⊞📁 International trade

    ⊞📁 Transport

    ⊞📁 Environment and energy

    ⊟📂 Science, technology, digital society

      ⊟📂 Science and technology (scitech)

        ⊟📂 Research and development (research)

          ⊟📂 Statistics on research and development (rd) Ⓜ

            ⊟📂 R&D expenditure at national and regional level (rd_e)

              🔍 ZIP Intramural R&D expenditure (GERD) by sectors of performance (rd_e_gerdtot) ⓘ

              🔍 ZIP Intramural R&D expenditure (GERD) by sectors of performance and source of funds (rd_e_gerdfund)   ⓘ

              🔍 ZIP Intramural R&D expenditure (GERD) by source of funds (rd_e_fundgerd) ⓘ

              🔍 ZIP Intramural R&D expenditure (GERD) by sectors of performance and fields of science (rd_e_gerdsc)   ⓘ

              🔍 ZIP Intramural R&D expenditure (GERD) by sectors of performance and type of costs (rd_e_gerdcost)   ⓘ

              🔍 ZIP Intramural R&D expenditure (GERD) by sectors of performance and type of R&D activity (rd_e_gerdact)   ⓘ

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Intramural R&D expenditure (GERD) by sectors of performance
Last update: 27-02-2018

[rd_e_gerdtot]

Table Customization show

TIME | +
GEO | +
Unit of measure
Euro per inhabitant | +

GEO \ TIME	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
European Union (current com	460.7	479.6	472.9	490.9	516.7	535.6	542.4	562.3	593.5	593.7 (p)
Euro area (19 countries)	513	546.6	551.4	567.7	598	615.6	621.6	640.4	664.2	674.8 (p)
Belgium	600.6	638.7	644	690.7	742.8	795.3	822.1	854.3	900.4	929.9 (p)
Bulgaria	18.4	22.2	24.7	29	29.8	34.6	36.6	46.9	60.4	52.5
Czechia	175.6	193.3	184.6	200.3	243.4	273.9	285	294	308.4	280.8 (p)
Denmark	1,077.7 (b)	1,223.8	1,282	1,281.6	1,312.7	1,360	1,371.8	1,376.2	1,420.1 (p)	1,396 (e)
Germany (until 1990 former t	746.9	809.2	817.2	855.9	942	984.8	990.1	1,043.1	1,093.4	1,124.7 (e)
Estonia	129.3	155.4	147.8	174.6	289.1	287.3	247	217.9	230.3	205.4
Ireland	560.4	584.5	605 (e)	586.8 (e)	583.2 (e)	596.6 (e)	612.7 (e)	634.3 (e)	676.8	686.4 (e)
Greece	121.6 (e)	144.8 (be)	133.9 (e)	121.6 (e)	125.1	120.7	133.2	136.2	156.9	162.7
Spain	297.9	321.9	315.4	313.8	303.9	286	278.5	275.6	283.6	285.5
France	617.5	641.6	665.7	672.3 (b)	694.3	712.6	722	726.7	749.6 (p)	750.4 (p)
Croatia	80.7	98.7	88.3	77.9	78.4	77.2	83.2	80	88.7	93.6 (p)
Italy	313.1	323.8	325.6	331.6	333.7	345.2	351.6	358.3 (e)	364.5	356.2 (p)
Cyprus	92.9	94.5	104.1	105.2	107	99	101	104.3	100.7	107.7 (p)
Latvia	56.9	64.6	39.2	51.2	67.8	71.7	69.1	81.3	76.6	56.1
Lithuania	71.6	80.2	70.2	69.9	92.6	99.3	111.9	128	133.4	113.4
Luxembourg	1,242.4 (e)	1,279	1,256.9	1,202.4	1,233.6	1,069.6 (b)	1,127.9	1,145.8	1,176.5	1,143.9 (p)
Hungary	97.1	105.4	106.4	112.4	120.6	126.6	142.8	144.7	153.3	139.5
Malta	77.9	80.1	77.3	96.7	111	141.9	140.2	142.3	166.5	140.1 (p)
Netherlands	632.2	640.2	631.3	657.1	734.6 (b)	747.9 (b)	759.6	788.4	810.4	841.1 (b)
Austria	829.1	908.5 (e)	897.4	965.9 (e)	988.2	1,104.6 (e)	1,132.4	1,201.7 (e)	1,224.2	1,255 (p)
Poland	46.3	57.6	55	68.6	74.5	90.1	90.3	101.6	113.6	108.3 (p)
Portugal	187.3	245 (b)	262.4	260.8	242.7	220.1	215.4	214.1	215.4	227 (p)
Romania	30.9	39.2	27.2	28.2	32.5 (b)	32.1	27.9	28.8	39.4	41.4
Slovenia	249	306.9 (b)	323.2	364.4	436.2 (b)	451.6	454.1	431.9	413.5	392 (p)
Slovakia	46.9	56.7	56.3	77.2	86.9	108.3	112.9	123.6	171	118.1
Finland	1,183	1,296.3	1,274.1	1,302.7	1,332.7	1,264.9	1,231.7	1,194.6	1,109.5	1,080
Sweden	1,273.7	1,341 (e)	1,154.1	1,270.8 (b)	1,397.4	1,464.9 (e)	1,507.6 (e)	1,411.3 (e)	1,504.3	1,537 (p)
United Kingdom	598.1	523 (b)	467.9 (b)	491.6 (b)	500.6 (b)	524.5 (b)	532	589.9 (b)	671.7	618.7 (p)
Iceland	1,303	863.3	766	:	825.3 (be)	:	638 (b)	801	1,007.5	1,146
Norway	979.9	1,040.3	999.9	1,099.6	1,185	1,289.1	1,286.9	1,262.3	1,302.2	1,308.5
Switzerland	:	1,352.3	:	:	:	2,081.7	:	:	2,507.6	:
Montenegro	:	:	:	:	16.6	:	20.3	20.2	22	:
Former Yugoslav Republic of	:	:	:	:	:	:	:	:	19.5	20.3
Serbia	:	:	36.2	30.3	33.4	39.8	34.7	35.9	40.7	43.6
Turkey	48.9	51.2	52.3	64	64.7	75.6	77.3	79	87.7	:
Bosnia and Herzegovina	:	:	:	:	:	9.3	:	:	:	:
Russia	74.5	83.3	77.6	91.6	104.5	122.5	:	115.8	:	:
United States	919.8 (d)	909.2 (d)	948.4 (d)	998.5 (d)	989.1 (d)	1,081.7 (d)	1,087.6 (d)	1,130.3 (d)	1,408.9 (dp)	:
China except Hong Kong	27	34	45.6 (b)	58.7	71.7	93.8	106.6	116.2	147.8	:

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Intramural R&D expenditure (GERD) by sectors of performance
Last update: 27-02-2018

Downloads

XLS
- Full extraction [25 data tables] ☑
  - On the same sheet ⦿
  - On separate sheets ○
- Flags and footnotes ☐
  - On the same sheet ⦿
  - On separate sheets ○
- Separator ☐
  - With thousand separator (format dependent on Excel configuration) ⦿
  - Without thousand separator ○

  Download in Excel Format

CSV
- Full extraction [25 data tables] ☑
  - Single file ⦿
  - Multiple files ○
- Flags and footnotes ☑
- Cell formatting
  - 1.234,56 ○
  - 1,234.56 ⦿
  - 1 234.56 ○

  Download in CSV Format

HTML
- Full extraction [25 data tables] ☑
- Flags and footnotes ☑
- Cell formatting
  - 1.234,56 ○
  - 1,234.56 ⦿
  - 1 234.56 ○

  Download in HTML Format

PC-AXIS
- Full extraction [25 data tables] ☑
- Flags and footnotes ☑

  Download in PC-AXIS Format

SPSS
- Full extraction [25 data tables] ☑
- Flags and footnotes ☑

  Download in SPSS Format

Differences between offered group

- Tables by themes
  - General and regional statistics
  - Economy and finance
  - Population and social conditions
  - Industry, trade and services
  - Agriculture, forestry and fisheries
  - International trade
  - Transport
  - Environment and energy
  - Science, technology, digital society
    - Science and technology (t_scitech)
      - Research and development (t_research)
        - Statistics on research and development (t_rd)
          - ZIP Research and development expenditure, by sectors of performance (tsc00001) ℹ
          - ZIP Intramural R&D expenditure (GERD) by source of funds (tsc00031) ℹ
          - ZIP Total researchers by sectors of performance - head count (tsc00003) ℹ
          - ZIP Total researchers by sectors of performance - full time equivalent (tsc00004) ℹ
          - ZIP Research and development personnel, by sectors of performance (tsc00002) ℹ
          - ZIP Share of women researchers, all sectors (tsc00006) ℹ
          - ZIP Share of women researchers, by sectors of performance (tsc00005) ℹ
          - ZIP Intramural R&D expenditure (GERD) by NUTS 2 regions (tgs00042) ℹ
          - ZIP Researchers, all sectors by NUTS 2 regions (tgs00043) ℹ
        - Government budget appropriations or outlays on R&D (t_gba) M
      - High-tech industry and knowledge-intensive services (t_htec) M
      - Human Resources in Science & Technology (t_hrst) M
      - Intellectual property rights (t_ipr)
    - Digital economy and society (t_isoc)
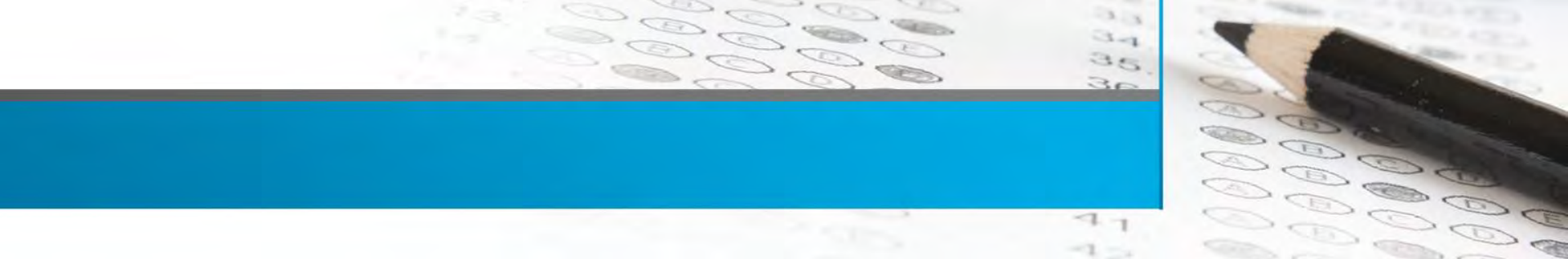
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Table ▼   Graph ▼   Map ▼

Research and development expenditure, by sectors of performance
% of GDP
Research and experimental development (R&D) comprise creative work undertaken on a ... more

Code: tsc00001

sectperf All sectors

☑ Flags ○ Codes ● Labels ○ Codes & Labels ○ 1 234,56 ○ 1.234,56 ● 1,234.56

geo \ time	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
EU (28 countries)	1.74	1.76	1.77	1.84	1.93	1.93	1.97	2.01	2.02	2.03	2.04	2.03^p
Euro area (19 countries)	1.78	1.8	1.81	1.89	1.99	1.99	2.04	2.1	2.1	2.13	2.14	2.13^p
Belgium	1.78	1.81	1.84	1.92	1.99	2.05	2.16	2.27	2.33	2.39	2.47	2.49^p
Bulgaria	0.45	0.45	0.43	0.45	0.49	0.56	0.53	0.6	0.63	0.79	0.96	0.78
Czechia	1.17	1.23	1.3	1.24	1.29	1.34	1.56	1.78	1.9	1.97	1.93	1.68^p
Denmark	2.39	2.4	2.52^b	2.77	3.06	2.92	2.94	2.98	2.97	2.91	2.96^p	2.87^e
Germany	2.42	2.46	2.45	2.6	2.72	2.71	2.8	2.87	2.82	2.87	2.92	2.94^e
Estonia	0.92	1.12	1.07	1.26	1.4	1.58	2.31	2.12	1.72	1.45	1.49	1.28
Ireland	1.19	1.2	1.23	1.39	1.61^e	1.59^e	1.55^e	1.56^e	1.56^e	1.5^e	1.2	1.18^e
Greece	0.58	0.56^e	0.58^e	0.66^{be}	0.63^e	0.6^e	0.67	0.7	0.81	0.83	0.97	1.01
Spain	1.1	1.17	1.23	1.32	1.35	1.35	1.33	1.29	1.27	1.24	1.22	1.19
France	2.04	2.05	2.02	2.06	2.21	2.18^b	2.19	2.23	2.24	2.23	2.27^p	2.25^p
Croatia	0.86	0.74	0.79	0.88	0.84	0.74	0.75	0.75	0.81	0.78	0.84	0.85^b
Italy	1.05	1.09	1.13	1.16	1.22	1.22	1.21	1.27	1.31	1.34^e	1.34	1.29^p
Cyprus	0.37	0.38	0.4	0.39	0.44	0.45	0.46	0.44	0.48	0.51	0.48	0.5^p
Latvia	0.53	0.65	0.55	0.58	0.45	0.61	0.7	0.66	0.61	0.69	0.63	0.44
Lithuania	0.75	0.79	0.8	0.79	0.83	0.78	0.9	0.89	0.95	1.03	1.04	0.85
Luxembourg	1.57	1.67	1.59^e	1.62	1.68	1.5	1.46	1.27^b	1.3	1.26	1.27	1.24^p
Hungary	0.92	0.98	0.96	0.98	1.13	1.14	1.19	1.26	1.39	1.35	1.36	1.21
Malta	0.53	0.58	0.55	0.53	0.52	0.61	0.67	0.83	0.77	0.72	0.77	0.61^p

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Table ▾ Graph ▾ Map ▾

Research and development expenditure, by sectors of performance
% of GDP
Research and experimental development (R&D) comprise creative work undertaken on a ... more

Research and development expenditure, by sectors of performance

% of GDP

Research and experimental development (R&D) comprise creative work undertaken on a ... more

ectperf | All sectors
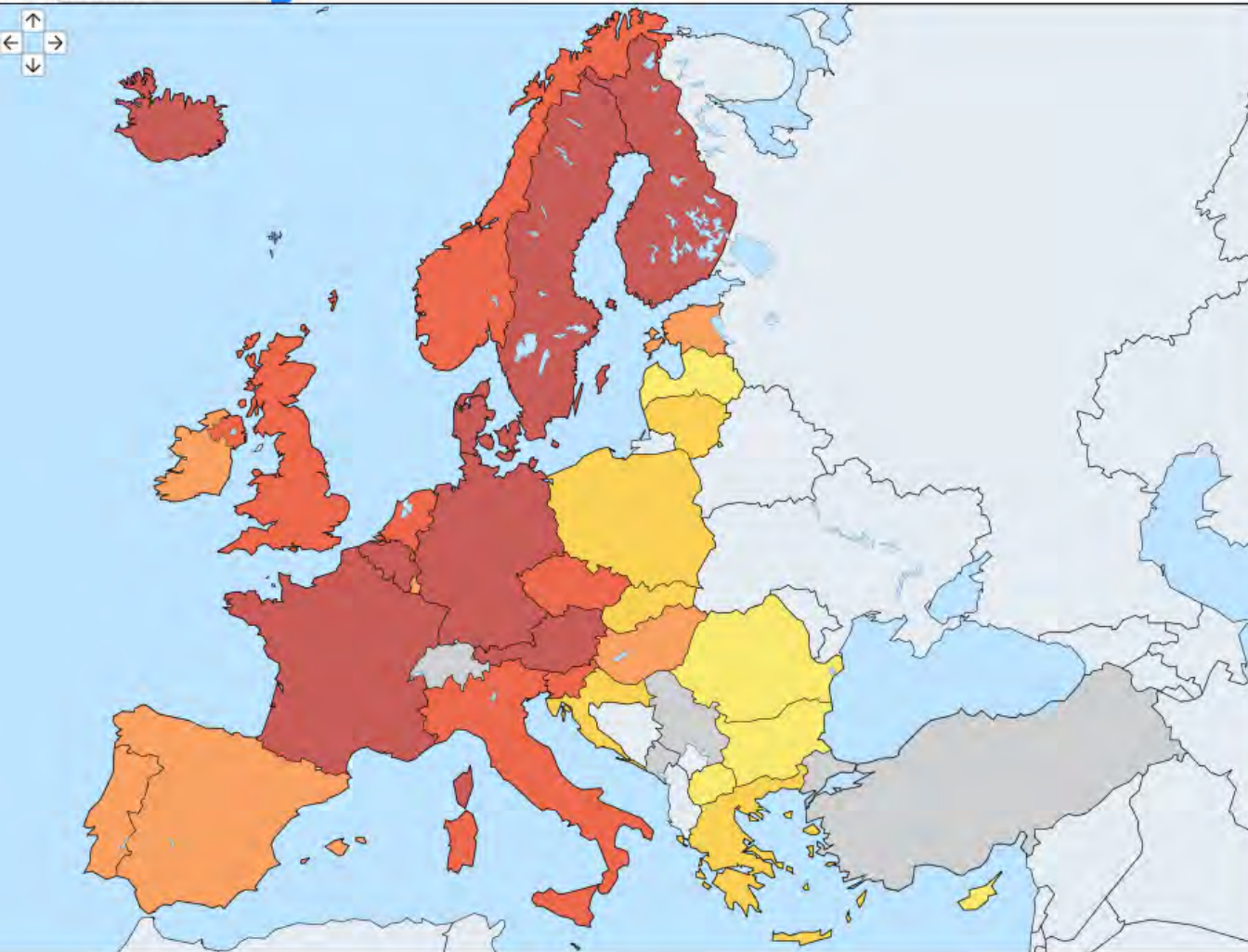
Hide toolbox ▣

Types | Data | Classes | Laye

| 2 |
| 3 |
| 4 |
| ✓ 5 |

Number Of Classes (2 to 5

Colour Shading:

Method:

- ● Quantiles
- ○ Equal interval
- ○ Manual input

Min: 0.43
Max: 3.25

Limit 1: 0.994
Limit 2: 1.558
Limit 3: 2.122
Limit 4: 2.686

Refresh

Data for 2016

Legend	Cases
0.43 to 0.78	6
0.78 to 1.01	6
1.01 to 1.28	6
1.28 to 2.03	6
2.03 to 3.25	8
Data not available	6

Minimum value: 0.43
Maximum value: 3.25

: = not available
p = provisional
b = break in time series

Click on map to:
○ Recenter ○ Zoom In/Recenter ○ Zoom Out/Recenter

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News	Data	Publications

European Commission > Euros

DATA

▲ **DATABASE**

Information

Browse statistics by theme

Statistics A - Z

Population Census 2011 ☑

Experimental statistics

Bulk download

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> Access to microdata

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> Data validation

ACCESS TO MICRODATA

▲ Overview

Statistical confidentiality and
personal data protection

**European Community Household
Panel**

European Union Labour Force
Survey

Community Innovation Survey

European Union Statistics on
Income and Living Conditions

Structure of Earnings Survey

Adult Education Survey

European Road Freight Transport
Survey

European Health Interview Survey

Continuing Vocational Training
Survey

Community Statistics on
information Society

Micro-Moments Dataset

Household Budget Survey

▲ Public microdata

LABOUR FORCE SURVEY

Statistics on Income and Living
Conditions

LABOUR FORCE SURVEY (LFS)

Public microdata (also referred to as public use files, PUFs) for the European Union Labour Force Survey (EU-LFS) were created to enable interested parties to become familiar with microdata. At the same time the privacy of respondents had to be protected. The structure of the public microdata is the same as for the microdata for research (Scientific Use Files). The public microdata provide researchers and trainers the opportunity to develop programs using the same formats and variable names as for the actual LFS Scientific Use Files. The files have been designed with the purpose that programs and procedures created on the public microdata will also function on the Scientific Use Files.

The LFS public microdata files are protected with traditional statistical disclosure control methods (global recoding, local suppression and addition of noise). There are both annual and quarterly files.

The public microdata are tailored to the following purposes:

❯ For statistical training at all levels;

❯ To allow researchers to explore the content and complexity of the survey prior to requesting access to the confidential microdata;

❯ To enable accredited researchers to develop and write a code that may eventually be applied to the scientific use files.

The public microdata cannot be used for any statistical inference to a wider population. No generalised statements about individual characteristics or relationships between different personal or household characteristics should be made on the basis of these data. Only the scientific use files should be used for publications as they alone provide a basis for valid analysis. Any calculations based on the public microdata or any conclusions drawn from the public microdata are at the sole risk and responsibility of the user. The National Statistical Institutes and Eurostat are not responsible for any improper use of these data. Neither the National Statistical Institutes nor Eurostat can guarantee the accuracy or reliability of results.

The Public Use Files are developed in agreement with article 19 of Regulation 223/2009 on European statistics.

The user guide for the Labour Force Survey gives an overview of the variables used in the survey. Further background information is available on the dedicated pages on statistics explained.

Currently public microdata are published for a limited number of countries; in the course of 2018 data will become available from more countries. The data are in CSV-format (comma-separated values) and grouped by country and year.

European Commission > Euros...

DATA

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   Information
BROWSE STATISTICS BY THEM
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Population Census 2011 ☑
Experimental statistics
Bulk download
▲Web Services
   SDMX Web Services
   Json and Unicode Web Services
Access to microdata
GISCO:Geographical Information and maps
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   ESS Reference Metadata Reporting Standards
   Classifications
   Legislation and methodology ☑
   Concepts and definitions ☑
   Glossaries
   National methodologies ☑
   Standard code lists ☑
SDMX InfoSpace
Data validation

llar of hts	Sustainable development	Circular economy	Macroeconomic Imbalance Procedure (MIP)

Economy and finance
National accounts (including GDP)
ESA Input-Output tables
European sector accounts
> Pensions in National Accounts
> Government finance and EDP
> Exchange and interest rates
> Harmonised Indices of Consumer Prices (HICP)
> Housing price statistics
> Purchasing Power Parities (PPPs)
> Balance of payments
> Economic globalisation

Population and social conditions
> Population (Demography, Migration and Projections)
> Population and Housing Census
> Asylum and managed migration
> Health
> Education and training
> Labour market (including Labour Force Survey (LFS))
> Income, social inclusion and living conditions
> Social protection
> Household Budget Surveys
> Youth
> Culture
> Sport
> Crime and criminal justice
> Quality of life indicators
> Migrant integration
> Equality (age and gender)
> Skills related statistics

Industry, trade and services
> Structural business statistics
> Short-term business statistics
> Tourism
> Manufactured goods (Prodcom)

Agriculture and fisheries
> Agriculture
> Forestry
> Fisheries
> Agri-Environmental Indicators

International trade
> International trade in goods
> International trade in services

More EU data
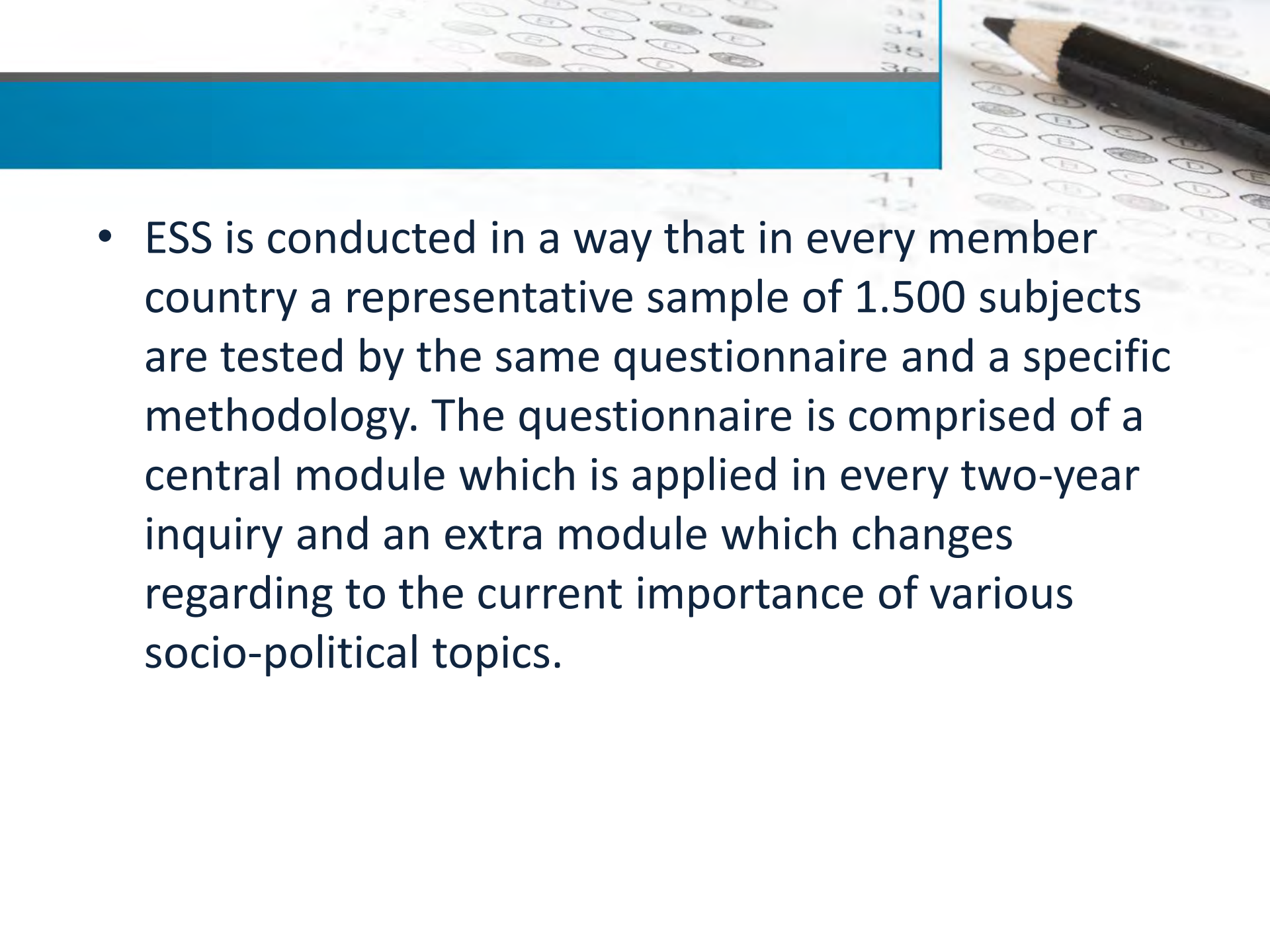
European social survey

- [ESS](#)
- Academically driven cross-national survey that has been conducted across Europe since its establishment in 2001
- Round:
  - Every two years,
- Face-to-face interviews
  - with newly selected, cross-sectional samples
- The survey measures:
  - Attitudes,
  - Beliefs, and
  - Behaviour patterns of European citizens
- More than thirty nations

European social survey

- – Intercultural European project
- Elementary principle of ESS:
  - – Transparency of all collected data and results

- ESS is conducted in a way that in every member country a representative sample of 1.500 subjects are tested by the same questionnaire and a specific methodology. The questionnaire is comprised of a central module which is applied in every two-year inquiry and an extra module which changes regarding to the current importance of various socio-political topics.

The central module is comprised of 12 broad areas:

- – public confidence in the government, politicians and institutions;
- – political views and involvement in politics;
- – socio-economic orientation;
- – questions of conduct and efficiency on a national and international level;
- – base moral, political and social values;
- – social involvement and exclusion;
- – national, ethnical and religious affiliation;
- – quality of life, health and security;
- – demographical characteristics;
- – educational and professional status;
- – economic status;
- – characteristics of households

The European Social Survey

We're an academically driven cross-national survey using high methodological standards to provide freely available data for 36 countries. MORE...

Latest news

02/10/18
Europeans accept climate change is happening

17/09/18
Europeans receptive to new welfare policy ideas

02/08/18
Upcoming events in Brussels

11/07/18
Exploring democracy and digital communication
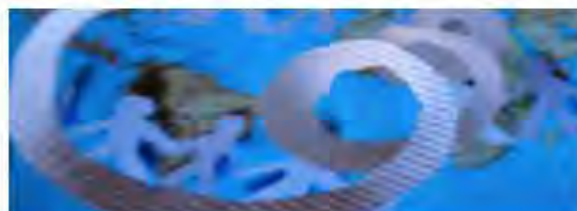
Data and Documentation

Data and documentation can be accessed by round (year), by theme or by country. Data are available for download and online analysis.

Methodological Research

The European Social Survey runs a programme of research to support and enhance the methodology that underpins the high standards it pursues in every aspect of survey design, data collection and archiving.

Data and Documentation by Year

Data and Documentation by Country

Data and Documentation by Theme

Online Analysis

Cumulative Data (Wizard)

Methodological data

Multilevel Data

ESS Data Alerts

Fieldwork Summary and Deviations

Conditions of Use

Related Studies

FAQ

Data and Documentation

Data and Documentation by Round (year)

Access data files and documentation organised by round.

Download ESS Round 8 (2016)

Download ESS Round 7 (2014)

Download ESS Round 6 (2012)

Data and D Theme (Mo

ESS consists of c (themes), shown

Media and

Data an Country

Select count documentat

Albania

Data and Documentation

Data and Documentation by Round (year)

Access data files and documentation organised by round.

Download ESS Round 8 (2016)

Download ESS Round 7 (2014)

Download ESS Round 6 (2012)

Download ESS Round 5 (2010)

Download ESS Round 4 (2008)

Download ESS Round 3 (2006)

Download ESS Round 2 (2004)

Download ESS Round 1 (2002)

Data and Documentation by Theme (Module)

ESS consists of core and rotating modules (themes), shown in the table below.

	R1 02	R2 04	R3 06	R4 08	R5 10	R6 12	R7 14	R8 16
Media and social trust	•	•	•	•	•	•	•	•
Politics	•	•	•	•	•	•	•	•

> expand table <

Health inequalities...							•	
Attitudes to climate change								•

Data and Documentation by Country

Select country to download data and documentation for a specific country.

	R1 02	R2 04	R3 06	R4 08	R5 10	R6 12	R7 14	R8 16
Albania						•		
Austria	•	•	•	•	•		•	•

> expand table <

Turkey		•		•				
Ukraine		•	•	•	•	•		
United Kingdom	•	•	•	•	•	•	•	•

Online Analysis

Open ESS Online Analysis >>

Cumulative Data (Wizard)

Customize a cumulative subset of rounds (year), countries and variables. >>

Multilevel Data

The ESS MD contains data on individuals, regions and countries. >>

ESS Methodological Data

ESS methodological data available for download.

Sample Design Data

Contact Form Data

Interviewer Data

Test Data (MTMM)

ESS CRONOS

CRONOS is the first input-harmonised cross-national probability-based online panel. >>

ESS Media Claims

The ESS Media Claims data provides systematic data about national context. >>

Related studies

ESS associated data. >>

Online Analysis

Open ESS Online Analysis >>

ESS DATA

European Social Survey

☐ ESS
  ▦ ESS1-2002, ed.6.5
  ▦ ESS2-2004, ed.3.5
  ▦ ESS3-2006, ed.3.6
  ▦ ESS4-2008, ed.4.4
  ▦ ESS5-2010, ed.3.3
  ▦ ESS6-2012, ed.2.3
  ▦ ESS7-2014, ed.2.1
  ▦ ESS8-2016, ed.2.0
    ⊞ Metadata
    ⊟ Variable Description
      ⊞ Country
      ⊞ Weights
      ⊞ Media and social trust
      ⊞ Politics
      ⊞ Subjective well-being, social exclusion, religion, national and ethnic identity
      ⊞ Climate change
      ⊟ Welfare attitudes
        ◪ Large differences in income acceptable to reward talents and efforts
        ◪ For fair society, differences in standard of living should be small
        ◪ Of every 100 working age how many unemployed and looking for work
        ◪ Standard of living of pensioners
        ◪ Standard of living of unemployed
        ◪ Standard of living for the old, governments' responsibility
        ◪ Standard of living for the unemployed, governments' responsibility
        ◪ Child care services for working parents, governments' responsibility
        ◪ Social benefits/services place too great strain on economy
        ◪ Social benefits/services prevent widespread poverty
        ◪ Social benefits/services lead to a more equal society
        ◪ Social benefits/services cost businesses too much in taxes/charges
        ◪ Social benefits/services make people lazy
        ◪ Social benefits/services make people less willing care for one another
        ◪ When should immigrants obtain rights to social benefits/services
        ◪ Most unemployed people do not really try to find a job
        ◪ Many with very low incomes get less benefit than legally entitled to
        ◪ Many manage to obtain benefits/services not entitled to
        ◪ Administration of unemployment benefits questions
        ◪ Unemployment benefit if turn down job: less pay
        ◪ Unemployment benefit if turn down job: lower level of education
        ◪ Unemployment benefit if turn down job: refuse unpaid work
        ◪ Someone in their 50s, unemployment benefit if turn down job: less pay
        ◪ Someone In their 50s, unemployment benefit if turn down job: lower level of education
        ◪ Someone in their 50s, unemployment benefit if turn down job: refuse unpaid work
        ◪ Someone aged 20-25, unemployment benefit if turn down job: less pay
        ◪ Someone aged 20-25, unemployment benefit if turn down job: lower level of education
        ◪ Someone aged 20-25, unemployment benefit if turn down job: refuse unpaid work
        ◪ Single parent to 3-year-old, unemployment benefit if turn down job: less pay
        ◪ Single parent to 3-year-old, unemployment benefit if turn down job: lower level of education
        ◪ Single parent to 3-year-old, unemployment benefit if turn down job: refuse unpaid work
        ◪ Social benefits only for people with lowest incomes
        ◪ Spend more on education for unemployed at cost of unemployment benefit

Dataset: ESS8-2016, ed.2.0

ESS Access Control

You need to have a registered email address to use this resource.

Enter your email address:

LOGIN

Unregistered Users

Register here: http://www.europeansocialsurvey.org/user/new

Note In general, you must weight tables before quoting percentages from them. To apply weights, select the Weight icon and choose one (PSPWGHT) adjust for sampling error and non-response bias as well as different selection probabilities. Either DWEIGHT or PSPWGHT mus countries combined. Please see the guide **Weighting European Social Survey Data** for fuller details about how to use the weights.

Users of data are obliged to read the **ESS Conditions of use**

Cumulative Data (Wizard)

Customize a cumulative subset of rounds
(year), countries and variables. >>

ESS Cumulative Data Wizard

– Download your customised dataset

The ESS Cumulative Data Wizard gives access to cumulative data from countries that have been included in the integrated ESS
files in two or more rounds. Please select variables and rounds/countries to customise your own file for download. More...

Please **sign in** to use the wizard.

⬇ Download SPSS   ⬇ Download STATA   ⬇ Download CSV

Documentation

ESS1–7 Editions in Cumulative Data Wizard
ESS1–7 Cumulative Variable list
Weighting ESS Data

Select Variables

▶ ☑ Media use and trust (10/10)

▶ ☐ Politics, including: political interest, efficacy, trust, electoral and other forms of participation, party allegi... (0/387)

▶ ☐ Subjective well-being, social exclusion; religion; percieved discrimination; national and ethnic identity (0/119)

▶ ☐ Gender, age and household composition (0/72)

▶ ☐ Socio-demographic profile, including: type of area, education and occupation, union membership, incom... (0/420)

▶ ☐ Human values scale (0/21)

▶ ☐ Region (0/41)

▶ ☐ Administrative variables; interview time, administration of split ballot (0/19)

▶ ☐ Rotating modules (0/95)

▶ ☐ Cross-module replicated questions (0/8)

Select Rounds/Countries

ESS Round:	1	2	3	4	5	6	7	All
All	☐	☐	☐	☐	☐	☐	☐	☐
Austria	☑	☑	☑				☑	☑
Belgium	☐	☐	☐	☐	☐	☐	☐	☐
Bulgaria			☐	☐	☐	☐		☐
Croatia				☐	☐			☐
Cyprus			☐	☐	☐	☐		☐
Czech Republic	☐	☐		☐	☐	☐	☐	☐
Denmark	☐	☐	☐	☐	☐	☐		☐
Estonia		☐	☐	☐	☐	☐	☐	☐
Finland	☐	☐	☐	☐	☐	☐	☐	☐
France	☐	☐	☐	☐	☐	☐	☐	☐

Assignment

- Search European data which is interesting to you

World dataset

GEM

- World's foremost study of entrepreneurship.

- GEM is able to provide high quality information, comprehensive reports and interesting stories, which greatly enhance the understanding of the entrepreneurial phenomenon

- In each economy, GEM looks at two elements:
  - The **entrepreneurial behaviour and attitudes** of individuals
  - The **national context** and how that impacts entrepreneurship

GEM

- **18** years of data
- **200,000+** interviews a year
- **100+** economies
- **500+** specialists in entrepreneurship research

- GEM began in 1999 as a joint project between Babson College (USA) and London Business School (UK).

GEM
Global
Entrepreneurship
Monitor

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ENTREPRENEURIAL BEHAVIOUR AND ATTITUDES

ENTREPRENEURIAL FRAMEWORK CONDITIONS

Not all entrepreneurs are alike. Our Adult Population Survey (APS) looks at the characteristics, motivations and ambitions of individuals starting businesses, as well as social attitudes towards entrepreneurship

Entrepreneurship doesn't take place in a vacuum — a whole host of factors determine how easy (or difficult) it is to start up. Our National Expert Survey (NES) looks at the national context in which individuals start businesses

| DIFFERENCES BETWEEN ECONOMIES | TRENDS OVER TIME |

| DIFFERENCES BETWEEN ECONOMIES | TRENDS OVER TIME |

| CUSTOM DATA TABLES | FULL DATA SETS |

| CUSTOM DATA TABLES | FULL DATA SETS |

ENTREPRENEURIAL BEHAVIOUR AND ATTITUDES

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These full datasets are only made available to the public 3 years after data collection. In this way, GEM 2014 data will become available in February 2018.

More info

Name ⇅	
GEM 2014 APS Global Individual Level Data	DOWNLOAD (32.0 MB)
GEM 2014 APS Global National Level Data	DOWNLOAD (104 KB)
GEM 2013 APS Global National Level Data	DOWNLOAD (179 KB)
GEM 2013 APS Global Individual Level Data – Innovation Optional Questions	DOWNLOAD (775 KB)
GEM 2013 APS Global Individual Level Data – Network Optional Questions	DOWNLOAD (423 KB)
GEM 2013 APS Global Individual Level Data – Registration Optional Questions	DOWNLOAD (222 KB)
GEM 2013 APS Global Individual Level Data – Entrepreneurial Employee Activity Optional Questions	DOWNLOAD (481 KB)
GEM 2013 APS Global Individual Level Data – Business Relations Optional Questions	DOWNLOAD (200 KB)

DIFFERENCES BETWEEN ECONOMIES   TRENDS OVER T

CUSTOM DATA TABLES   FULL DATA SETS

Code	Economy	Financing for entrepreneurs	Governmental support and policies	Taxes and bureaucracy	Governmental programs	Basic-school Entrepreneurial Education and training	Post-school entrepreneurial education and training	R&D Transfer	Commercial and professional infrastructure
		The availability of financi	The extent to which publ	The extent to which publ	The presence and quality	The extent to which train	The extent to which train	The extent to which natic	The presence of property The leve
244	ANGOLA	2,63	2,58	2,16	2,40	1,91	2,22	1,77	2,73
54	ARGENTINA	2,03	2,08	1,49	2,70	1,82	3,11	2,49	2,85
61	AUSTRALIA	2,34	1,83	2,44	2,23	2,19	2,85	2,18	3,42
42	AUSTRIA	2,51	2,46	2,60	3,58	1,66	3,02	2,82	3,40
1246	BARBADOS	2,42	2,42	1,87	2,30	1,71	2,96	1,78	2,72
32	BELGIUM	3,38	2,62	1,98	2,71	1,95	2,75	2,99	3,74
501	BELIZE	2,14	2,55	2,20	2,45	2,05	2,53	1,77	2,68
591	BOLIVIA	2,25	2,15	1,97	2,34	2,13	3,11	2,33	2,81
387	BOSNIA & HZ	2,29	2,13	1,74	2,07	2,06	2,43	1,96	2,92
267	BOTSWANA	2,71	2,61	2,62	2,71	2,74	3,09	2,45	2,56
55	BRAZIL	2,46	2,40	1,46	2,24	1,48	2,54	2,00	2,50
226	BURKINA FASO	2,09	2,88	3,09	3,04	1,26	2,78	1,77	2,80
237	CAMEROON	2,16	3,18	2,80	2,86	2,19	3,23	2,05	2,86
101	CANADA	3,10	2,50	2,85	2,86	2,32	3,14	2,57	3,49
56	CHILE	2,35	2,77	2,91	3,06	1,63	2,98	2,20	2,80
86	CHINA	2,59	3,07	2,76	2,54	1,77	2,81	2,48	2,69
57	COLOMBIA	2,37	2,75	2,41	2,95	2,14	2,97	2,17	2,79
506	COSTA RICA	1,90	2,39	2,02	2,80	1,93	3,07	2,12	2,63
385	CROATIA	2,32	2,15	1,55	2,27	1,68	2,35	2,04	2,90
45	DENMARK	2,73	3,33	3,31	3,43	3,10	3,43	2,77	3,56
593	ECUADOR	2,19	2,98	2,19	2,66	2,36	3,18	2,35	2,76
503	EL SALVADOR	1,88	2,26	1,92	2,50	1,64	2,76	1,88	2,65
372	ESTONIA	2,86	2,43	3,58	3,39	2,63	2,99	2,92	3,21
358	FINLAND	2,82	3,17	2,95	2,77	2,28	2,70	2,61	3,20
33	FRANCE	2,77	2,99	2,96	3,17	1,75	2,92	2,73	3,06
995	GEORGIA	2,15	2,94	3,95	2,37	2,35	2,91	1,83	3,10
49	GERMANY	2,84	2,93	2,87	3,46	2,13	2,81	2,75	3,34

Sheets: 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014

Normal View   Ready   Sum=0

ENTREPRENEURIAL BEHAVIOUR AND ATTITUDES

Not all entrepreneurs are alike. Our Adult Population Survey (APS) looks at the characteristics, motivations and ambitions of individuals starting businesses, as well as social attitudes towards entrepreneurship

ENTREPRENEURIAL BEHAVIOUR AND ATTITUDES

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Bosnia and Herzegovina Perceived Opportunities   Croatia Perceived Opportunities   United Kingdom Perceived Opportunities

SAVE AS IMAGE

ECONOMY	INDICATOR
☐ Romania	☑ Perceived Opportunities
☐ Russia	☐ Perceived Capabilities
☐ Serbia	☐ Fear Of Failure Rate
☐ Slovakia	☐ Entrepreneurial Intentions
☐ Slovenia	☐ Total Early-Stage Entrepreneurial Activity (TEA)
☐ Spain	☐ Established Business Ownership
☐ Sweden	☐ Entrepreneurial Employee Activity
☐ Switzerland	☐ Motivational Index
☑ United Kingdom	☐ Female/Male TEA

GO

ENTREPRENEURIAL BEHAVIOUR AND ATTITUDES

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DIFFERENCES BETWEEN ECONOMIES   TRENDS OVER TIME

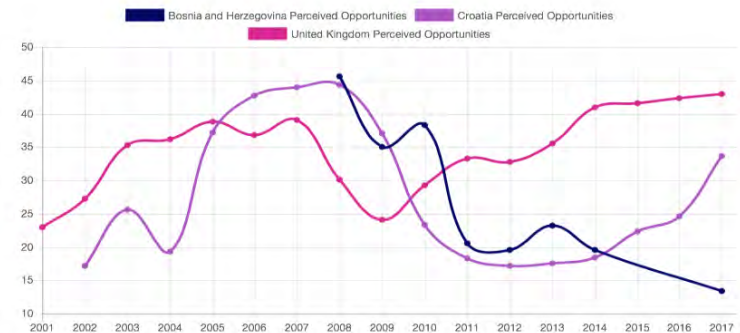CUSTOM DATA TABLES   FULL DATA SETS

ENTREPRENEURIAL BEHAVIOUR AND ATTITUDES

Not all entrepreneurs are alike. Our Adult Population Survey (APS) looks at the characteristics, motivations and ambitions of individuals starting businesses, as well as social attitudes towards entrepreneurship

DIFFERENCES BETWEEN ECONOMIES

TRENDS OVER TIME

CUSTOM DATA TABLES

FULL DATA SETS

ECONOMY	INDICATOR	YEAR
☐ All Search	☐ All Search	☐ All Search
☐ ⌄ **Africa**	☐ Perceived Opportunities	☐ 2017
☐ Algeria	☐ Perceived Capabilities	☐ 2016
☐ Angola	☐ Fear Of Failure Rate	☐ 2015
☐ Botswana	☐ Entrepreneurial Intentions	☐ 2014
☐ Burkina Faso	☐ Total Early-Stage Entrepreneurial Activity (TEA)	☐ 2013
☐ Cameroon	☐ Established Business Ownership	☐ 2012
☐ Egypt	☐ Entrepreneurial Employee Activity	☐ 2011
☐ Ethiopia	☐ Motivational Index	☐ 2010
☐ Ghana	☐ Female/Male TEA	☐ 2009
☐ Libya	☐ Female/Male Opportunity-Driven TEA	☐ 2008
☐ Madagascar	☐ High Job Creation Expectation	☐ 2007
☐ Malawi	☐ Innovation	☐ 2006
☐ Morocco		☐ 2005

GO   RESET   EXPORT

ENTREPRENEURIAL BEHAVIOUR AND ATTITUDES

Not all entrepreneurs are alike. Our Adult Population Survey (APS) looks at the characteristics, motivations and ambitions of individuals starting businesses, as well as social attitudes towards entrepreneurship
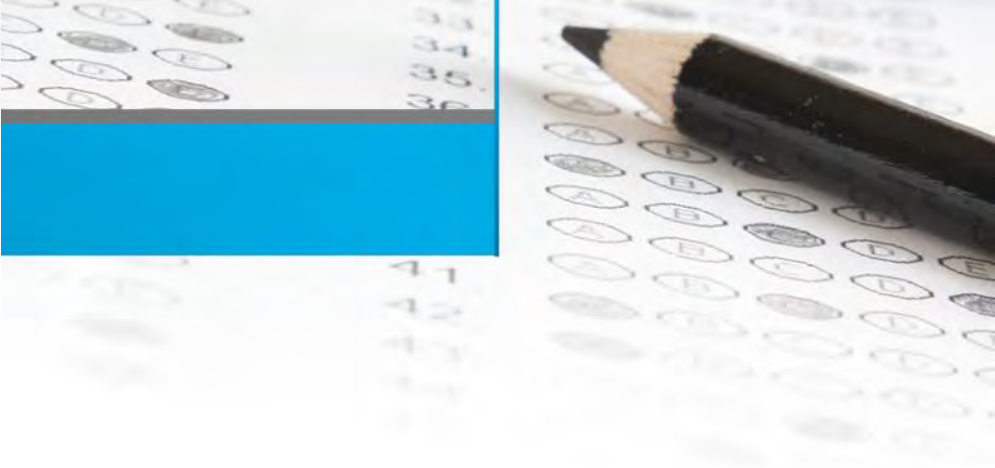
DIFFERENCES BETWEEN ECONOMIES   **TRENDS OVER TIME**

CUSTOM DATA TABLES   **FULL DATA SETS**

INDICATOR	YEAR	
○ Perceived Opportunities	○ Most recent data	GO
○ Perceived Capabilities	○ 2017	
○ Fear Of Failure Rate	○ 2016	
○ Entrepreneurial Intentions	○ 2015	
○ Total Early-Stage Entrepreneurial Activity (TEA)	○ 2014	
○ Established Business Ownership	○ 2013	
○ Entrepreneurial Employee Activity	○ 2012	
○ Motivational Index	○ 2011	
○ Female/Male TEA	○ 2010	
○ Female/Male Opportunity-Driven TEA	○ 2009	
○ High Job Creation Expectation	○ 2008	
○ Innovation	○ 2007	
○ Business Services Sector	○ 2006	
○ High Status To Successful Entrepreneurs	○ 2005	

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| Tags | Author | Published In |

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DESCENDING ▼   ASCENDING ▲   ALPHABETICAL

ABMS (1) Active Labor Market Programs (1) Additionality (1) Africa (8) Age (5) Agricultural Entrepreneurship (3) Altruism (1) Ambidexterity (1) Angel Investment (8) Angola (1) Anomie Theory (1) Arbitrage (1) Asia-Pacific (7) Aspirations (9) Australia (6) Austria (1) Barriers To Technological Adoption (1) Base of the Pyramid (1) Belgium (2) Bibliometrics (1) Bootstrap DEA (3) Born Globals (1) Brazil (3) Canada (4) Capability Building (1) Caribbean (3) Chile (7) China (6) Cities (4) Clusters (5) Cognitive Models (4) Collaboration (2) Colombia (5) Communist Legacy (3) Community Development (1) Comparative Entrepreneurship (1) Comparision of Indices (7) Competitiveness (12) Configurational Approach (2) Consultants (1) Context Effects (3) Cooperative Entrepreneurship (1) Corruption (9) Creative Destruction (1) Creativity (5) Crisis (9) Croatia (5) Crowding Effect (1) Cultural Factors (44) Czech Republic (4) Data Envelopment Analysis (6) Decomposition Analysis (1) Demographics (5) Denmark (2) Determinants (38) Digitalization (2) Diversity (1) Economic Development (50) Economic Freedom (8) Economic Growth (9) Ecosystems (12) Ecuador (1) Education and Training (28) Efficiency (2) Egypt (3) El Salvador (1) Emerging Economies (7) Employee Entrepreneurial Activity (14) Enabling Technology (1) Entrepreneurial Action (2) Entrepreneurial Capacity (8) Entrepreneurial Capital (5) Entrepreneurial Climate (2) Entrepreneurial Entry (2) Entrepreneurial Intention (28) Entrepreneurial Pipeline (1) Entrepreneurial Self-Efficacy (4) Entrepreneurial Spirit (1) Environmental Entrepreneurship (3) Environmental Factors (25) Epistemic Uncertainty (1) Estonia (1) Ethnic Minorities (6) Ethnicity (1) Europe (59) Exit (2) Export Orientation (8) Entrepreneurial National Efficiency (1) Endogeneity (1) Age-Based Self-Image (1) Argentina (1) Childhood Characteristics (1) Eurozone (1) Cognitive Psychology (1) Absorptive Capacity (1) Costa Rica (1)

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ECONOMY PROFILES

SEARCH ECONOMY PROFILES

	Economy ⬍	GDP ⬍	Economic Development Level ⬍	Region ⬍	
	Algeria	$172.3 billion	Factor-Driven Economy	Africa	VIEW PROFILE
	Angola	$102.6 billion	Factor-Driven Economy	Africa	VIEW PROFILE
	Argentina	$585.6 billion	Efficiency-Driven Economy	LatAm & Caribbean	VIEW PROFILE
	Australia	$1223.9 billion	Innovation-Driven Economy	Oceania	VIEW PROFILE
	Austria	$374.1 billion	Innovation-Driven Economy	Europe	VIEW PROFILE
	Bangladesh	$205.7 billion	Factor-Driven Economy	Asia	VIEW PROFILE
	Barbados	$4.4 billion	Efficiency-Driven Economy	LatAm & Caribbean	VIEW PROFILE
	Belgium	$454.7 billion	Innovation-Driven Economy	Europe	VIEW PROFILE
	Belize	$1.75 billion	Efficiency-Driven Economy	LatAm & Caribbean	VIEW PROFILE
	Bolivia	$33.2 billion	Factor-Driven Economy	LatAm & Caribbean	VIEW PROFILE
	Bosnia and Herzegovina	$15.8 billion	Efficiency-Driven Economy	Europe	VIEW PROFILE

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	GLOBAL REPORTS	NATIONAL REPORTS	SPECIAL TOPIC REPORTS

SEARCH GLOBAL REPORTS

Language ⇕		Name ⇕	
English	ⓘ	GEM 2017 / 2018 Global Report	DOWNLOAD (39.6 MB)
English	ⓘ	GEM 2016 / 2017 Global Report	DOWNLOAD (29.5 MB)
English	ⓘ	GEM 2015 / 2016 Global Report	DOWNLOAD (10.5 MB)
English	ⓘ	GEM 2014 Global Report	DOWNLOAD (6.13 MB)
English	ⓘ	GEM 2013 Global Report	DOWNLOAD (1.83 MB)
English	ⓘ	GEM 2012 Global Report	DOWNLOAD (2.39 MB)
English	ⓘ	GEM 2011 Global Report	DOWNLOAD (5.64 MB)
English	ⓘ	GEM 2011 Global Report - EXTENDED	DOWNLOAD (7.87 MB)
English	ⓘ	GEM 2010 Global Report	DOWNLOAD (4.03 MB)
English	ⓘ	GEM 2009 Global Report	DOWNLOAD (4.37 MB)

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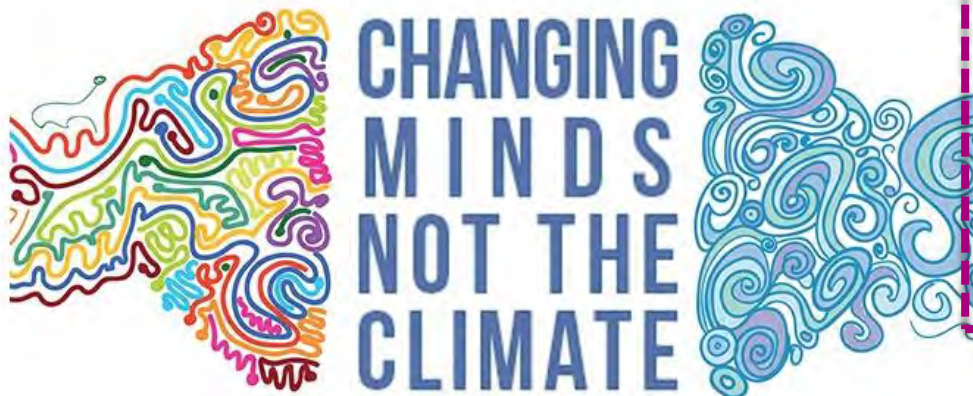
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NEWS   All

A new chapter in the strategic partnership between Japan and UNESCO

UNESCO Director-General Audrey Azoulay this morning held her first meeting with Japanese Prime Minister Shinzo Abe. The Director-General declared, "We welcome today's commitment to open a new chapter in cooperation between UNESCO and Japan. It is a sign of renewed confidence in our Organization."

EVENTS   All | Cultural | in Paris
List of all Prizes and Celebrations

23 OCTOBER 2018
PARIS, FRANCE
Climate impacts on water: high-level panel session and publications launch

24 OCTOBER 2018 TO 31 OCTOBER 2018
LITHUANIA AND LATVIA, LATVIA
Global Media and Information Literacy Week 2018

24 OCTOBER 2018
STRASBOURG, FRANCE
Education 2030: Europe and North America Regional Consultation

25 OCTOBER 2018 TO 26 OCTOBER 2018
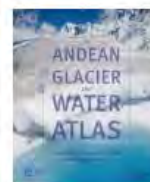PANAMA, PANAMA
Inter-regional Conference for Collaboration on

RESEARCH & PUBLICATIONS

The UNESCO Courier (July-September 2018)

The Andean Glacier and Water Atlas The Impact of Glacier Retreat on Water Resources

Data for the Sustainable Development Goals

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Culture

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> The Official Source of Internationally-Comparable Education Data

> **Learning Outcomes**
> Towards a New Generation of Internationally-Comparable Data

> **Out-of-School Children and Youth**
> Data to Break the Barriers to Education

> **Education in Africa**
> Data for the Region Facing the Biggest Challenges

> **Education Finance**
> Data and Tools to Track Funding

> **Higher Education**
> Tracking Enrolment, Fields of Study and Destinations of Students Globally

Europe

Albania	Latvia
Andorra	Liechtenstein
Austria	Lithuania
Belarus	Luxembourg
Belgium	Malta
Bosnia and Herzegovina	Monaco
Bulgaria	Montenegro
Channel Islands	Netherlands
Croatia	Norway
Czechia	Poland
Denmark	Portugal
Estonia	Romania
Faeroe Islands	Russian Federation
Finland	San Marino
France	Serbia
Germany	Slovakia
Greece	Slovenia
Hungary	Spain
Iceland	Sweden

BROWSE BY COUNTRY >

Croatia ⌄

| Education and Literacy | Science, Technology and Innovation | Culture |

General Information ⌃

Socio-economic indicators

Total population (in thousands)	4,213
Annual population growth (%)	-1.20
Population 15-24 years (in thousands)	474
Population aged 14 years and younger (in thousands)	619
Rural population (% of total population)	40
Total fertility rate (births per woman)	1.40
Infant mortality rate (per 1,000 live births)	4
Life expectancy at birth (years)	78
Prevalence of HIV (% of population aged 15-49 years)	0.10
Poverty headcount ratio at 3.10 PPP$ a day (% of population)	2.20
GDP per capita - PPP$	21,880
Annual GDP growth (%)	2.80
Total debt service (% of GNI)	..
GDP in billions - PPP$	104

Total population by age group, 2016 (in thousands)
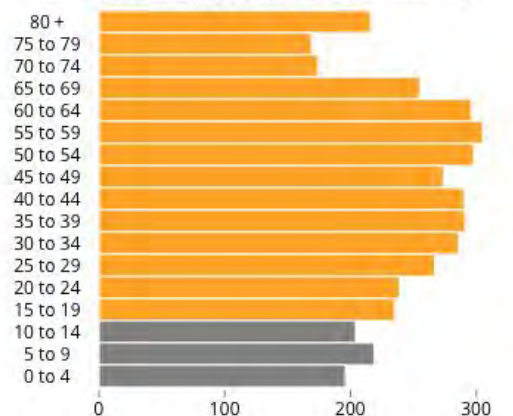
Population aged 14 years and younger represents 15% of the tot

Data for the Sustainable Developmen
Goals

↓

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Data for the Region Facing the Biggest
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Destinations of Students Globally

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All Themes

- **EDUCATION**
  - **Education**
    - Education (full dataset)
    - **Out-of-school children**
      - Number of out-of-school children of primary school age
      - Number of out-of-school adolescents of lower secondary school age
      - Number of out-of-school youth of upper secondary school age
      - Number of out-of-school children and adolescents of primary and lower secondary school age
      - Number of out-of-school adolescents and youth of secondary school age
      - Number of out-of-school children, adolescents and youth of primary and secondary school age
      - Out-of-school rate for children of primary school age
      - Out-of-school rate for children of primary school age (household survey data)
      - Out-of-school rate for adolescents of lower secondary school age
      - Out-of-school rate for adolescents of lower secondary school age (household survey data)
      - Out-of-school rate for youth of upper secondary school age
      - Out-of-school rate for youth of upper secondary school age (household survey data)
      - Out-of-school rate for children and adolescents of primary and lower secondary school age
      - Out-of-school rate for adolescents and youth of secondary school age
      - Out-of-school rate for children, adolescents and youth of primary and secondary school age
  - Entry
  - Participation
  - Progression
  - Completion
  - Literacy
  - Educational attainment

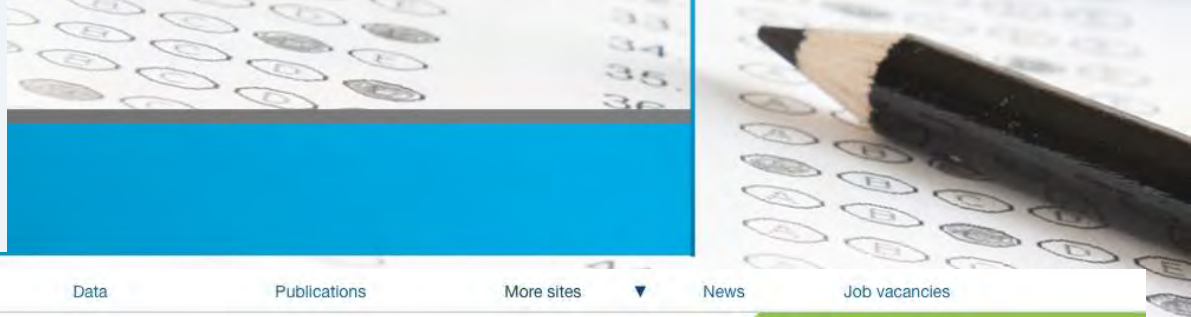**Education** ⓘ : *Number of out-of-school children of primary school age*

Indicator: Out-of-school children of primary school age, both sexes (number)

→ Country / → Time		2012		2013		2014		2015		2016		2017	2018
Afghanistan		..		..		..		..		..			..
Åland Islands		..		..		..		..		..			..
Albania		19 980.0		10 957.0		6 981.0		7 557.0		7 101.0		4 665.0	..
Algeria		26 026.0		..		..		24 862.0		27 860.0		21 362.0	..
American Samoa		..		..		..		..		..			..
Andorra		..		..		..		..		..			..
Angola		..		..		..		..		..			..
Anguilla		..		..		..		..		..			..
Antigua and Barbuda		2 601.0		..		2 601.0		2 131.0		..			..
Argentina		35 053.0		27 937.0		14 149.0		11 564.0		28 723.0		..	..
Armenia	(+)	5 001.0	(+)	4 935.0	(+)	8 869.0	(+)	10 967.0		12 075.0		12 282.0	..
Aruba		..		..	(+)	59.0				..			..
Australia	(+)	45 874.0	(+)	50 066.0	(+)	58 355.0		60 306.0		69 193.0		..	..
Austria		..		..		..		..		..			..
Azerbaijan	(+)	53 736.0	(+)	31 378.0	(+)	25 324.0	(+)	29 661.0	(+)	27 483.0	(+)	34 961.0	..
Bahamas		..		..		..		..		3 740.0		..	..
Bahrain		7 274.0		6 394.0		4 453.0		2 143.0		2 330.0		1 279.0	..
Bangladesh		..		..		..		..		..		753 254.0	..
Barbados		..		..		1 924.0		1 680.0		1 573.0		2 126.0	..
Belarus		20 276.0		24 701.0		24 686.0		20 855.0		14 400.0		16 598.0	..
Belgium		14 591.0		14 473.0		15 126.0		12 285.0		10 325.0		..	..
Belize		204.0		522.0		395.0		359.0		376.0		330.0	..
Benin		70 197.0		..		59 913.0		..		..		52 737.0	..
Bermuda		797.0		..		..		..		..			..
Bhutan		11 524.0		12 840.0		..		15 606.0		17 305.0		18 367.0	..
Bolivia (Plurinational State of)		139 212.0		145 344.0		148 574.0		139 989.0		126 435.0		104 077.0	..

Legend:

+ National Estimation

a Category not applicable

‡ UIS Estimation

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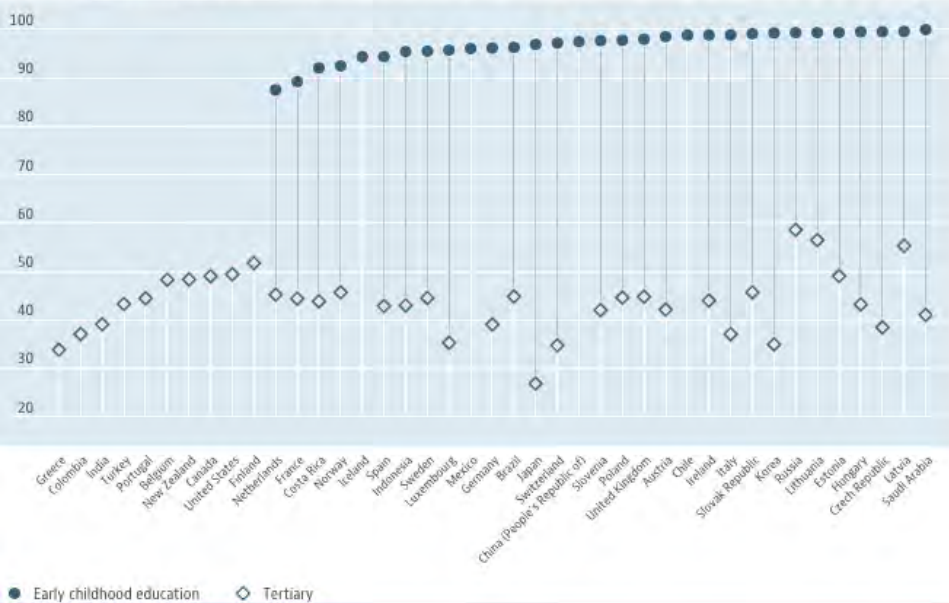› Catalogue of OECD databases

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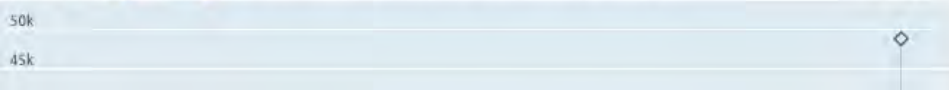Nearly all teachers in early childhood education are women, but fewer than one in two is a woman at tertiary level.

Women teachers Early childhood education / Tertiary, % of teachers, 2016   ℹ ⤢ ⤴

● Early childhood education   ◇ Tertiary

Education spending Early childhood education / Tertiary, US dollars/student, 2015   ℹ ⤢ ⤴

50k

45k

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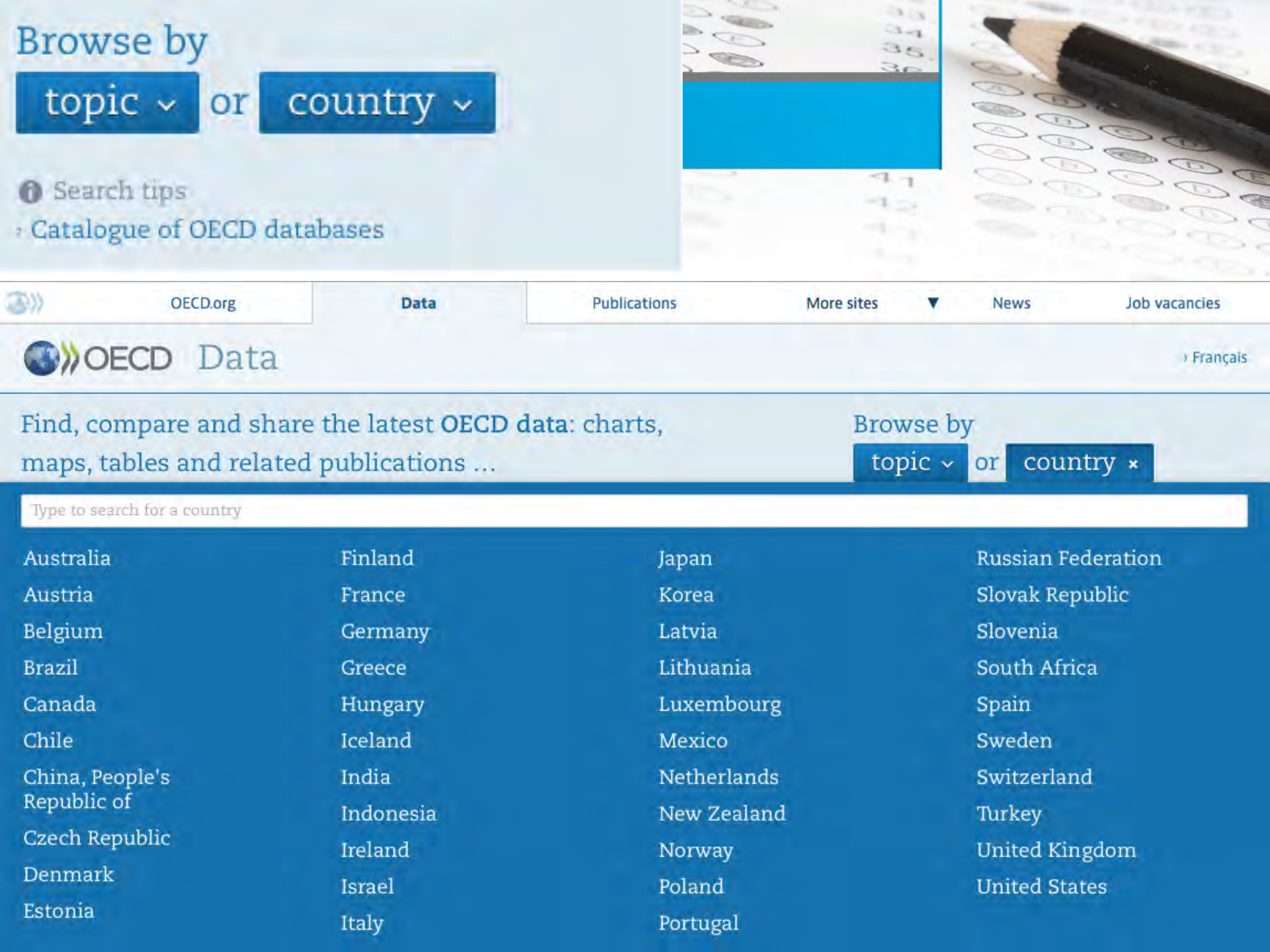
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Estonia	Israel	Poland	United States
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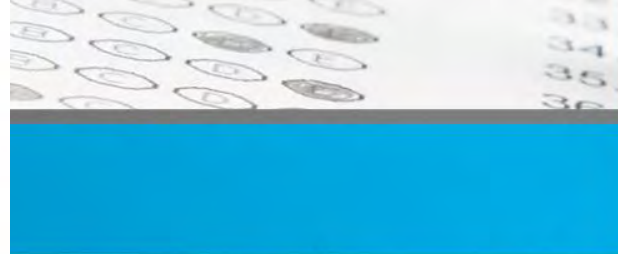
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Country	Unit					2040	2050	2060
Australia					3 179 615 000 000	4 199 830 000 000	5 533 201 000 000
Austria						490 245 100 000	590 951 200 000	699 855 900 000
Belgium						649 543 700 000	815 652 500 000	1 028 276 000 000
Canada						2 801 302 000 000	3 398 282 000 000	4 125 917 000 000
Chile						251 478 100 000 000	301 691 200 000 000	355 931 400 000 000
Czech Republic						7 706 404 000 000	9 024 995 000 000	10 529 050 000 000
Denmark						3 062 250 000 000	3 789 555 000 000	4 652 668 000 000
Estonia				40 000	30 969 430 000	35 281 880 000	39 557 560 000
Finland	Euro, 2010	158 089 000 000	187 100 000 000	208 871 000 000	236 381 400 000	275 710 700 000	322 643 200 000	374 764 800 000
France	Euro, 2010	1 776 021 780 284	2 000 861 892 805	2 290 954 000 000	2 660 319 000 000	3 175 928 000 000	3 947 825 000 000	5 061 980 000 000
Germany	Euro, 2010	2 358 819 800 000	2 574 835 300 000	3 081 800 000 000	3 446 944 000 000	3 937 086 000 000	4 580 808 000 000	5 298 575 000 000
Greece	Euro, 2010	189 930 008 679	226 046 576 542	202 876 400 000	243 583 800 000	267 409 700 000	289 133 000 000	319 344 000 000
Hungary	Forint, 2005	18 258 901 000 000	22 316 822 000 000	28 877 120 000 000	36 129 090 000 000	41 735 320 000 000	47 488 000 000 000	54 382 620 000 000
Iceland	Iceland Krona, 2005	854 777 224 988	1 106 837 217 587	1 524 231 000 000	1 914 155 000 000	2 441 583 000 000	3 084 132 000 000	3 846 109 000 000
Ireland	Euro, 2015	135 363 930 000	183 908 830 000	324 290 600 000	420 895 700 000	538 477 700 000	674 029 200 000	863 470 100 000
Israel	New Israeli Sheqel, 2015	717 241 624 800	976 006 154 500	1 390 513 000 000	1 987 105 000 000	2 744 004 000 000	3 670 082 000 000	4 868 354 000 000
Italy	Euro, 2010	1 558 066 500 000	1 602 776 400 000	1 646 008 000 000	1 751 823 000 000	1 942 268 000 000	2 229 935 000 000	2 669 800 000 000
Japan	Yen, 2011	461 711 600 000 000	492 023 400 000 000	547 361 500 000 000	602 470 900 000 000	682 551 400 000 000	764 633 200 000 000	865 765 800 000 000
Korea	Won, 2010	820 843 800 000 000	1 265 307 900 000 000	1 710 268 000 000 000	2 216 474 000 000 000	2 638 044 000 000 000	2 998 343 000 000 000	3 372 069 000 000 000
Latvia	Euro, 2010	12 396 558 000	17 937 882 000	25 258 200 000	30 221 750 000	33 652 640 000	36 628 200 000	39 491 140 000
Lithuania	Euro, 2010	18 320 667 705	28 027 659 464	38 885 340 000	43 542 400 000	45 937 310 000	49 422 530 000	52 688 500 000
Luxembourg	Euro, 2010	30 774 616 000	40 156 172 000	53 848 380 000	72 252 400 000	98 388 320 000	131 762 700 000	174 004 200 000
Mexico	Mexican Peso, 2013	12 908 239 797 500	14 950 849 972 500	19 593 650 000 000	25 616 260 000 000	33 423 080 000 000	42 292 610 000 000	51 638 940 000 000
Netherlands	Euro, 2010	554 874 769 889	631 219 747 625	750 851 400 000	893 788 600 000	1 093 485 000 000	1 373 733 000 000	1 723 917 000 000
New Zealand	New Zealand Dollar, 2009-10	149 777 000 000	196 096 000 000	264 588 500 000	341 838 400 000	433 951 100 000	553 507 400 000	701 957 700 000
Norway	Norwegian Krone, 2015	2 446 662 000 000	2 861 214 000 000	3 379 643 000 000	4 076 731 000 000	4 985 928 000 000	6 195 416 000 000	7 680 815 000 000
Poland	Euro, 2010	989 095 463 796	1 445 297 800 000	2 008 268 000 000	2 442 803 000 000	2 777 730 000 000	2 962 616 000 000	3 143 554 000 000
Portugal	Euro, 2011	166 694 708 000	179 444 770 000	190 903 400 000	220 925 700 000	251 242 200 000	285 526 000 000	331 898 400 000
Slovak Republic	Euro, 2010	41 894 507 000	67 577 287 990	92 079 140 000	121 350 000 000	148 196 000 000	171 856 100 000	196 951 300 000
Slovenia	Euro, 2010	27 888 130 183	36 252 431 384	44 140 120 000	48 857 350 000	55 494 840 000	63 780 730 000	76 227 210 000

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Data

- Primary:
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- Secondary:
  - Theoretical part of the work – higher education in Croatia – description of changes in the Croatian education system since the start of application of the Bologna process (Statistical Yearbook of Croatia, 2011, AVZO, www.vjesnik.hr, Statistical Yearbook of Croatia, 2004, Court Registry, www.efos.hr). Measures of active employment policy adopted through National Action Plans for Employment (Yearbook of the Croatian Employment Service (Yearbook 2006, 2007, 2008, 2009, 2010, 2011, 2012))

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