



Green Deal Indicators

the role of national statistics



Part I:

What IS statistics and what NOT?

National and European Statistics

Part II:

From data needs to the available quality data

Part III:

Green Deal and monitoring framework

Climate Change Indicators in Slovenia



Part I

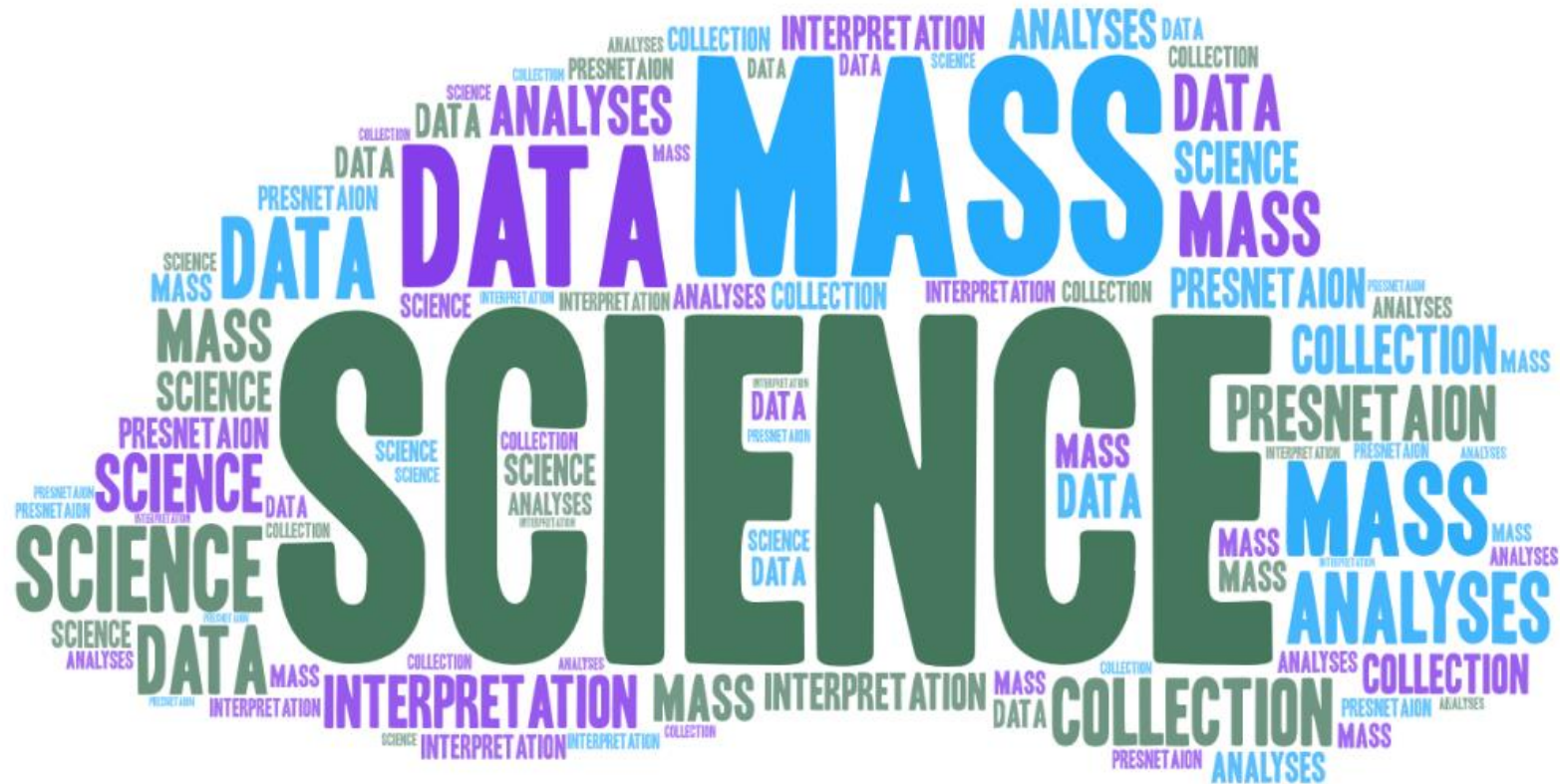


What is statistics?

- Statistics is a science that quantitatively studies **mass phenomena** and discovers qualitative connections between them.
- Statistics is the practice or science of **collecting** and **analysing** numerical data in **large quantities**, especially for the purpose of inferring proportions in a whole from those in a representative sample.
- Statistics is a branch of mathematics dealing with the **collection**, **analysis**, **interpretation**, and **presentation** of masses of numerical data.



What is statistics?





What is NOT statistics?





Statistical office of the Republic of Slovenia

- The main producer and coordinator of national statistics in Slovenia.
- Independent Government Service led by Director-General, Mr. Tomaž Smrekar.
- Legal basis: National Statistics Act, medium-term and annual programmes of statistical surveys.



Our vision

The vision of the Slovene national statistics is a society in which citizens, enterprises and the government use **credible information** in making **decisions**.



Our mission

The mission of the Slovene national statistics is to provide **high-quality data** on the situation and trends in the **economic, demographic** and **social** fields and in the field of the **environment** and **natural resources**.



System of national statistics

- Statistical Office of the Republic of Slovenia
- &
- Two authorized producers:
 - Bank of Slovenia
 - National Institute of Public Health

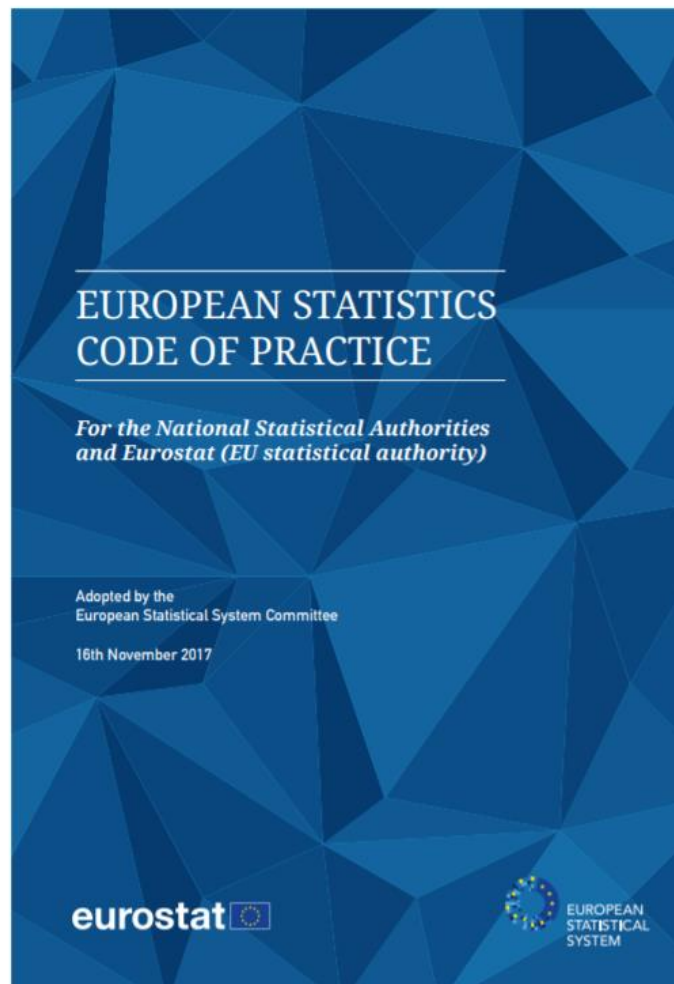


The European Statistical System

- **Partnership** between **Eurostat** – the Statistical Office of the European Union – and **national statistical institutes** and **other national authorities** responsible for the development, production and dissemination of **European statistics**.
- European Statistical System Committee



Data quality and Code of Practice





Data quality and Code of Practice

- SURS was **peer reviewed** in 2007 and in 2014
- **Internal review** of compliance with the Code of Practice in 2020
- Next **peer review** in 2023



Time for a quiz





Time for a quiz

DIMESA Directors' group of Sectoral and Environmental Statistics
and Accounts

DGAS Directors' group of agricultural statistics

BSDG Business statistics directors' group

DSS Directors' group of social statistics

DMES Directors of macroeconomic statistics



Part II



Why do we need data?

- Decisions (personal and professional) - consequences
- Planning – monitoring
- Systems interdependences

- Consequences immediately and in the future - impact on present and future generations



Production of official statistics

Generic Statistical Business Process Model (GSBPM) =
set of business processes required to produce official
statistics



Generic Statistical Business Process Model

1. **Needs** and requirements analysis
2. Planning and preparation of a statistical survey
3. Selection of units
4. **Data collecting**
5. Statistical data processing
6. Data analysis
7. **Dissemination** and storage of statistical data
8. Documentation and evaluation



Before data collecting (GSBPM 1-3)

1. **Needs and requirements** analysis

good and continuous collaboration with data users; role of statistical advisory committees

2. Planning and preparation of a statistical survey

content, variables, and results; target population, data sources and method of data collection; annual programme of statistical surveys

3. Selection of units



Data collecting and ... (GSBPM 4-6)

4. Data **collecting**

- direct (questionnaires, interviews)
- administrative sources
- Big data
- combination

5. & 6. Data processing and data analysis



Data dissemination and... (GSBPM 7-8)

7. **Dissemination** and storage of statistical data

8. Documentation and evaluation



Dissemination

<https://www.stat.si/StatWeb/en>

The screenshot displays the StatWeb website interface. At the top, there is a navigation bar with 'THEMES', 'PRODUCTS', and 'MORE' options, along with a search icon. Below this, five key statistics are presented with icons: Population (2,107,126), Gross Earnings (1,940.69 €), Unemployment (4.3%), GDP Growth (16.3%), and Inflation (2.4%). A row of four blue buttons offers quick access to 'COVID-19', 'SISTAT DATABASE' (Detailed statistics in tables), 'NAMES AND BIRTHDAYS' (Data on names and birthdays), and 'SLOVENIAN PRESIDENCY' (Working Party on Statistics).

The main content area features a featured article titled 'More than half of individuals aged 16–74 years have seen untrue or doubtful information or content on the Internet'. The article text states: 'In the 1st quarter of 2021, 58% of 16–74-year-olds saw information or content on online news sites or social media that they found untrue or doubtful. 39% of them recognized that the information or its source was unreliable and 37% checked its truthfulness.' A 'Read more' button is provided below the text. The background of the article section shows a laptop displaying a website, a hand using a mouse, and various tech accessories like a watch and a USB drive.

Below the article, there are three preview cards. The first card, dated Monday, 11 October 2021, features a blue keyboard and reports that 'The value of industrial production in August 2021 1.1% higher than in July 2021'. The second card, dated Friday, 8 October 2021, shows a cargo ship and reports that 'Exports and imports higher in August 2021 than in August 2020'. The third card is a Twitter post from 'Statistics Slovenia' (@StatSlovenia) dated Friday, 8 October 2021, stating 'The value of industrial production in August 2021 was 1.1% higher than in July 2021. bit.ly/3iqGozy' and includes a link to the article.



Dissemination










THEMES

-  Agriculture, Forestry and Fishery
-  Construction
-  COVID-19
-  Culture
-  Development and Technology
-  Earnings and Labour Cost
-  Education
-  Energy

PRODUCTS

-  Enterprises
-  Environment
-  Foreign Economic Relations
-  GDP and National Accounts
-  Industry
-  Labour Market
-  Population
-  Prices and Inflation

MORE

-  Quality of Life
-  Regional Overview
-  Social Protection
-  Tourism
-  Trade and Services
-  Transport
-  European data





Dissemination

<https://pxweb.stat.si/SiStat/en>

REPUBLIC OF SLOVENIA
STATISTICAL OFFICE **SiStat**

A billion data points in the SiStat Database

? Search

Agriculture, forestry and fishery	Education	Industry	Regional overview
Construction	Energy	Labour market	Social protection
Cross-sectional indicators	Enterprises	Population	Tourism
Culture	Environment	Prices and inflation	Trade and services
Development and technology	Foreign economic relations	Quality of life	Transport
Earnings and labour costs	GDP and national accounts		



Dissemination

- Web applications

 - Names and birthdays

 - <https://www.stat.si/ImenaRojstva/en/#/names/topNames>

 - STAGE geospatial data

 - <https://gis.stat.si/#lang=en>

 - SDG indicators,....

 - <https://www.stat.si/Pages/en/goals>

- Social media



Part III



Green Deal and monitoring framework

- Monitoring framework for GD with **headline indicators** is in preparation (EC)
- WS for stakeholders, 8 October 2021 (3 documents):
 - Draft 8EAP (GD) indicator set
 - Headline indicators
 - Pool indicators



Green Deal and monitoring framework

- 8 objectives
- 46 indicators
 - proposals for headline indicators (16)
- Pool indicators for more complete assessment



GD objectives and headline indicators (proposal)

Climate change mitigation

GHG emissions

Soil organic carbon or net LULUCF

(land use, land-use change and forestry) emissions

Climate change adaptation

Climate related economic losses

Risk to droughts



GD objectives and headline indicators (proposal)

Circular economy

Material footprint (Raw Material Consumption)

Zero pollution

Premature deaths/Years of Life Lost due to PM2.5



GD objectives and headline indicators (proposal)

Biodiversity

Common birds

Land take

Reducing environmental and climate change pressures

Energy consumption per capita

Circular material use

Share of buses and trains in total passenger transport

Organic farming



GD objectives and headline indicators (proposal)

Enabling framework

Share of green taxes

Eco-innovation index

Living well within planetary boundaries – Regenerative economy

Consumption footprint

Green economy (Employment and Gross Added Value)



GD headline indicators - available within ESS

8 objectives

46 indicators

proposals for headline indicators (16)

7 available within ESS



GD headline indicators - available within ESS

7 available headline indicators within ESS:

Material footprint (Raw Material Consumption)

Energy consumption per capita

Circular material use

Share of buses and trains in total passenger transport

Organic farming

Share of green taxes

Green economy



Climate Change Indicators

Case of good cooperation btw:

Statistical Office of the Republic of Slovenia (SURS)

Statistical data producer

Slovene Environmental Agency (SEA)

GHG inventory producer



SURS - statistical data producer

- Annual and monthly statistical surveys
- Administrative data:
 - energy: Ministry of Infrastructure, Energy Directorate,
 - agriculture: Ministry of Agriculture, Forestry and Food, Agency for Agriculture Market and Rural Development, The Administration for Food Safety, Veterinary and Plant Protection,...
 - waste: Ministry of the Environment
- Data modelling (energy consumption in households by end use)



SEA – GHG inventory producer

- Primary source of data for GHG inventory: statistical data (energy, agriculture, waste, transport, industry).
- Other data sources:
 - Slovenian Infrastructure Agency: density of transport,
 - ETS data,
 - Slovenian Forestry Institute: forestry data,
 - various sources: land use data,
 - SEA's environmental database.



Co-operation loop

- Data flow in both ways.
- In the process of emission calculation SEA estimates data on fuel use in agriculture and forestry.
- Estimations provided to SURS - data included in the energy balance.
- SURS involved in inventory reviews - data consistency and improvements.



Climate Change Statistics

SURS	SURS in cooperation with SEA	SEA
Total energy intensity of production activities	Total primary energy supply	Occurrence of extreme weather events
Energy consumption by households / capita	Share of fossil fuels in total primary energy supply	
Proportion of population living in dwellings with air conditioners or air conditioning	Renewable energy share in the total final energy consumption	
Proportion of agricultural area under productive and sustainable agriculture		



Climate Change Statistics

SURS	SEA in cooperation with SURS	SEA
	Emission intensity of agricultural commodities	
	Total GHG emissions	
	CO ₂ emissions from fuel combustion	
	GHG emissions from land use	
	Total GHG emissions of production activities	
	GHG emission intensity of production activities	
	Direct GHG emissions from households	
	Level of water stress	
	CO ₂ intensity of energy for the economy	



Recommendations

- Be in touch with your national statistical office
- Use official statistics
- Express new data needs early enough
- When creating new policy think about monitoring of its implementation
- Look for solutions that will allow you to use data for multiple purposes – administrative and statistical



Statistični urad RS @StatSlovenija · 31 Oct

Statistika za noč čarovnic. 🎃 🧙‍♀️

Ocenjujemo, da ena od treh slovenskih čarovnic leti na uvoženi metli. 🧹 😊

[#PodatkiSoZakon](#) [#Halloween](#)

We estimate that one in three Slovenian witches flies on an imported broom.



7

35

170





Useful links

- <https://www.stat.si/statweb>
- <https://ec.europa.eu/eurostat>
- https://ec.europa.eu/environment/news/stakeholder-workshop-8th-eap-monitoring-framework-2021-09-21_en
- https://ec.europa.eu/environment/pdf/8EAP/2021/Draft_8EAP_headline_indicator_fiches.pdf
- https://ec.europa.eu/environment/pdf/8EAP/2021/Draft_8EAP_pool_indicator_fiches.pdf
- <https://ec.europa.eu/eurostat/documents/4031688/8971242/KS-02-18-142-EN-N.pdf/e7f85f07-91db-4312-8118-f729c75878c7?t=1528447068000>