

# **WATER STATISTICS in Slovenia**

**EG-ECCS, Panel on water statistics, 16 October 2024**

**Mojca Zitnik, M.Sc.**

**Head of the Environment and Energy Statistics Section**

**Statistical Office of the Republic of Slovenia**



# Water sources in Slovenia

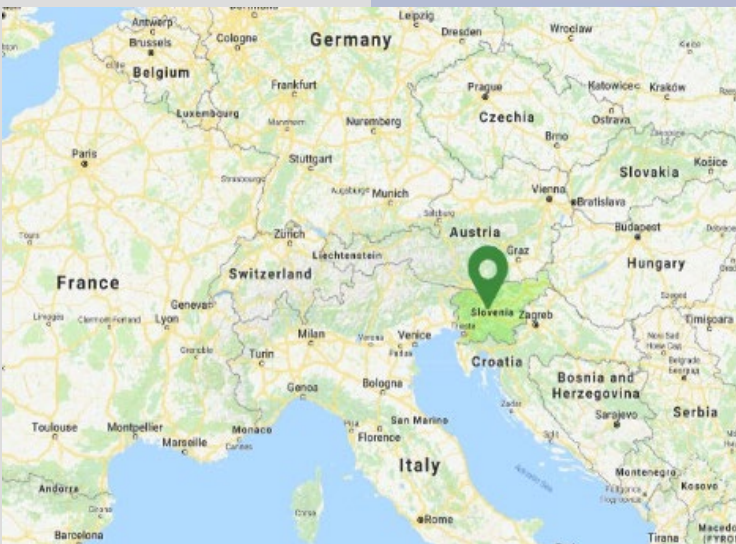


**Groundwater:**  
3,530 mio m<sup>3</sup>

**Rivers:**  
59

**Natural lakes  
and artificial  
reservoirs:**  
3% of the area

**The sea:**  
180 km<sup>2</sup>



## DATA on WATER

### **Statistical Office of the Republic of Slovenia (SURS):**

- 4 statistical surveys
- overview of water statistics

### **Slovenian Environment Agency (ARSO):**

- water monitoring

### **Ministry of Natural Resources and Spatial Planning (MNVP):**

- Database IJSVO

### International reporting:

- **JQ Eurostat/OECD on Inland waters and Regional Water Questionnaire** (SURS, ARSO, MNVP)
- **WISE** (SURS, ARSO)
- **FAO - Aquastat** (SURS, ARSO)
- etc.



### LEGAL BASES:

- National Statistics Act (OJ RS, No.45/95 and 9/01)
- Annual Programme of Statistical Surveys (LPSR)

## WATER STATISTICS SURVEYS in Slovenia

### Public water supply system survey

- Administrative source (IJSVO database)
- Reporting units: BE managing water systems



### Public sewage system survey

- Administrative source (IJSVO database)
- Reporting units: BE – operators of sewage systems



### Exploitation of water in industry survey

- Statistical survey
- Reporting units: BE from sections B, C, D and E by NACE Rev.2



### Irrigation systems survey

- Statistical survey
- Reporting units: BE that operate irrigation system



# PUBLIC WATER SUPPLY (PWS)

- **COLLECTION OF DATA**

- water abstracted for PWS by:
  - water sources,
  - river basins,
  - municipalities
- the volume of water losses in PWS
- water supplied from PWS to final users
- the length of the water supply network
- the number of water connections





## PUBLIC WATER SUPPLY (2)

- from 2012 on data from the **administrative source** (IJSVO Database - Ministry of Natural Resources and Spatial Planning)
- **OBSERVATION UNITS**
  - all business entities (BE) managing water systems, whether they are concessionaries managing water systems or they took over their management
  - Complete coverage



# PUBLIC SEWAGE SYSTEM

- **COLLECTION OF DATA**

- wastewater by source of pollution
- discharged wastewater by place of discharge
- treated wastewater by level of treatment
- the number of sewage connections
- the length of the sewage network

- 2016 data collection = the administrative source: IJSVO Database  
(Ministry of Natural Resources and Spatial Planning)



## PUBLIC SEWAGE SYSTEM (2)

- **OBSERVATION UNITS**

all BE that are operators of sewage systems or concessionaires managing sewage systems or took over the management of sewage systems

- Complete coverage





# DATA PROCESSING

## DATA COLLECTION AT THE ADMINISTRATIVE SOURCE

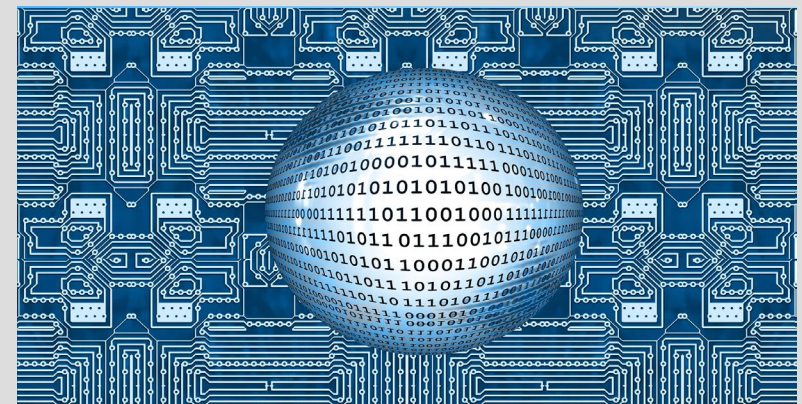
**December – mid-February:** preparation of the IJSVO Database

**mid-February – 31<sup>st</sup> March:** data fill-in by reporting units; constant data monitoring; communication between the database administrator and reporting units

**April – May:** deadline for final corrections

## DATA PROCESSING AT SURS

**1<sup>st</sup> June:** data transmitted to SURS, controls of data and reporting units, preparation of final microdata



# EXPLOITATION OF WATER IN INDUSTRY

- **COLLECTION OF DATA**

- abstracted and supplied water by water resource
- use of water by purpose
- discharge of wastewater by type of water and place of discharge

- **SOURCE FOR REPORTING UNITS**

Statistical Register of Business Entities

- **REPORTING UNITS**

BE and parts of BE classified according to NACE Rev. 2 in sections B, C, D and E and:

- 1.) have at least 20 employees + 1,000 m<sup>3</sup>/year
- 2.) all key units with fewer than 20 employees



## EXPLOITATION OF WATER IN INDUSTRY (2)

- Preparation of the list of reporting units
- Paper questionnaire, postal survey  
(e-questionnaire from 2025)



# IRRIGATION SYSTEMS (IS)

- **COLLECTION OF DATA**

- water abstracted for irrigation
- area of irrigated land
- area prepared for irrigation



- **SOURCES FOR REPORTING UNITS:**

- Farmland and Forest Fund (large IS)
- Ministry of Natural Resources and Spatial Planning (small IS)
- Slovenian Environment Agency (valid water permits)

## IRRIGATION SYSTEMS (2)

- **REPORTING UNITS**

all business entities that operate irrigation systems, have a valid water license and use water for irrigation of agricultural and other areas

- Complete coverage,
- List of reporting units
- Paper questionnaire, postal survey  
(from 2025 e-questionnaire)





## DATA PROCESSING – statistical surveys

- a controller in the Data Control Section and the survey manager implement visual control of the questionnaire; any doubts are checked with the reporting units
- data entered in excel (Irrigation) or in Blaise (Exploitation of water in industry) where logical and computer controls are made
- final microdata are prepared



# DATA VALIDATION

- Tabulation and final analysis of calculated data:
  - ✓ control of data and reporting units with the previous year
  - ✓ control of data by activity sections with the previous year
  - ✓ control of data by municipality with the previous year
  - ✓ control of data by NUTS2 and NUTS3 with the previous year
  - ✓ control of data by RBD with the previous year
- Publishing ([First Release](#) & [SI-STAT Database](#))

# CHALLENGES

- **Cooperation** with other institutions
- **Refusal to report** due to overload and lack of staff / time / ...
- **Incorrectly reported data**
- Establishing more user-friendly data collection (**e-questionnaires**)
- Requests for **more detailed information**



**THANK YOU**  
**FOR**  
**YOUR**  
**ATTENTION**

**Mojca Zitnik, M.Sc.**  
[mojca.zitnik@gov.si](mailto:mojca.zitnik@gov.si)