# WISE SOE WEBINAR

#### VISE - 1 – Emissions 2023

#### AGENDA ITEM 3 - Lessons learned and main changes from 2022 data call

Francesco Mundo/ 5<sup>th</sup> October 2023



#### Table "Emissions"

#### Overall statistics for reference year 2020--2021 and 2021

6188 (7102) records

332 (195) substances

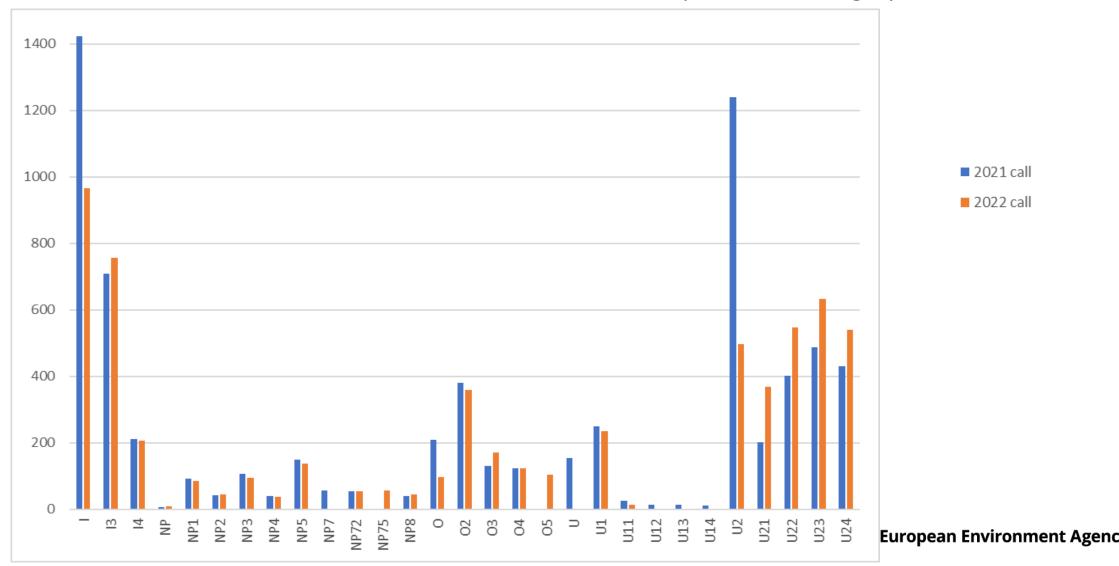
**118** Countries/Districts/Sub-units

18 Countries

In parentheses the numbers from 2021 data call



Table "Emissions" - Number of records per Source category



#### Automatic QC issues in RN3

Some blockers were not detected

- 1. Wrong UoM (E, RI)
- 2. Incorrect monitoring site identifier/monitoring site identifier not in the reference list (RI)
- 3. Incoherence between procedureEmissionsMethod and parameterEmissionsSourceCategory (E)

Problem solved in RN3

Some countries have been requested to resubmit data from 2022 exercise



Table "Emissions"

Main issues detected:

- The hierarchical structure of the sources is not respected

i.e. in a certain spatial unit, for a certain Source category/Sub-category SC<sub>i</sub>

$$\sum_{j=1}^{n} SC_{ij} \neq SC_i$$

 reported value under PRTR > the WISE-1 emission value and "parameterEPRTRfacilities" is reported as "both"



Hierarchical structure of the sources means that, in a specific SU, for a certain Source category/Sub-category SC<sub>i</sub>

$$\sum_{j=1}^{n} SC_{ij} = SC_i$$

**PT** – Point sources (PT = U + I +O)

- U Point Urban waste water treated and untreated (U = U1 + U2)
  - **U1** Point Urban waste water **untreated** (U1 = U11 + U12 + U13 + U14)
    - **U11** less than 2 000 p.e.
    - **U12** between 2 000 and 10 000 p.e.
    - **U13** between 10 000 and 100 000 p.e.
    - **U14** more than 100 000 p.e.
  - **U2** Point Urban waste water **treated** (U2 = U21 + U22 + U23 + U24)
    - U21 less than 2 000 p.e.
    - **U22** between 2 000 and 10 000 p.e.
    - U23 between 10 000 and 100 000 p.e.
    - **U24** more than 100 000 p.e.

Hierarchical structure also for I and O sources



Hierarchical structure of the sources means that, in a specific SU, for a certain Source category/Sub-category SC<sub>i</sub>

 $\sum_{j=1}^{n} SC_{ij} = SC_i$ 

**NP** – Diffuse sources (NP = NP1 + NP2 + ...+ NP8)

**NP1** – Diffuse - Agricultural emissions

NP2 – Diffuse - Atmospheric deposition

**NP3** – Diffuse - Unconnected dwellings emissions

NP4 – Diffuse - Urban run-off

**NP5** – Diffuse - Storm overflow emissions

**NP7** – Diffuse - Other diffuse emissions (NP7 = NP71 + NP72 + ... + NP75)

**NP71** – Diffuse - Forestry emissions

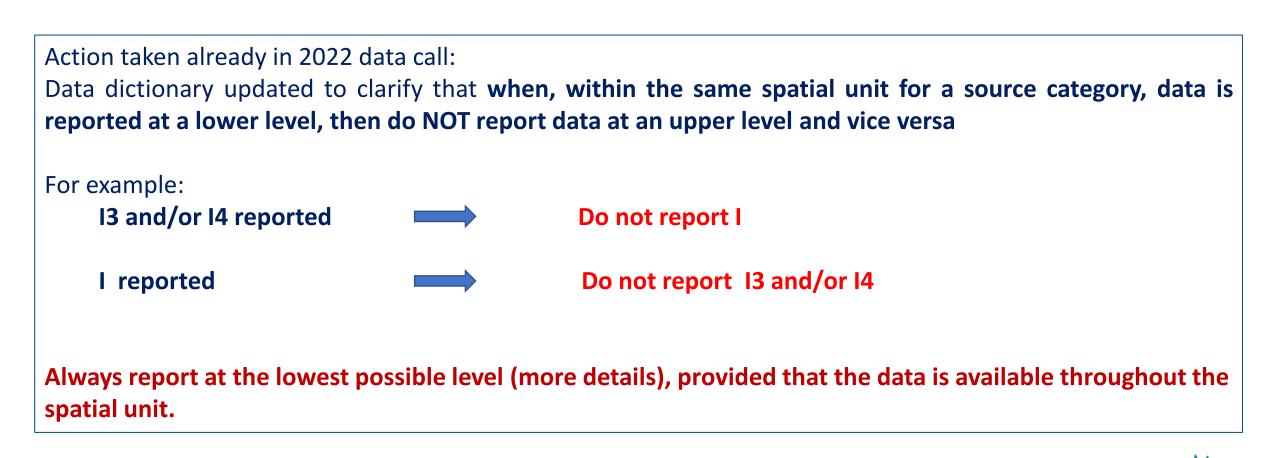
NP72 – Diffuse - Transport emissions

NP73 – Diffuse - Mining emissions

**NP74** – Diffuse - Aquaculture emissions

NP75 – Diffuse - Other

**NP8** – Diffuse - Background emissions





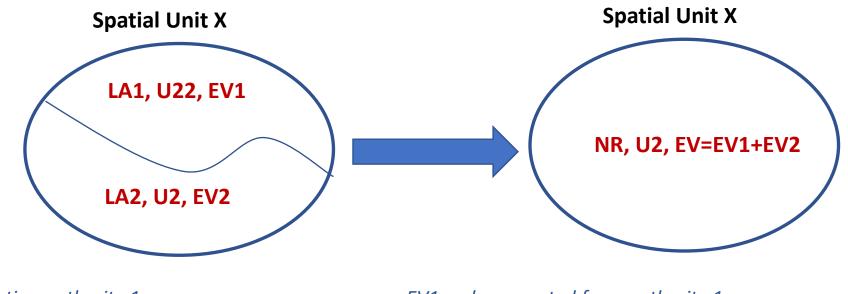
Further action taken for 2023 data call:

Added a new automatic QC returning a WARNING when the hierarchy principle is not respected.

The test detects **all records where the source category is of higher level than the lowest level reported** for the given combination. All lower-level source categories are displayed.



When the information is available at different levels (due to e.g. different local reporting authorities for the same spatial unit) values must be reported at the same (highest) hierarchical level For example:



LA1: Local reporting authority 1 LA2: Local reporting authority 2 U2: Category Urban waste water treated (sum of all sizes) U22: Category Urban waste water treated (plants 2000-1000 p.e.) EV1: value reported from authority 1
EV2: value reported from authority 2
NR: National reporter
EV: value reported from national reporter

**European Environment Agency** 



Reported values under PRTR > the WISE-1 emission value although "parameterEPRTRfacilities" is reported as "both"

For point source categories 'PT', 'U', 'U2', 'U24', 'I', 'I3', 'I4', 'O', 'O1', 'O2', 'O3', 'O4', 'O5', the field "parameterEPRTRfacilities" is mandatory.

If reported emission value ("resultEmissionsValue") includes E-PRTR facilities, the field must be filled in using the **code 'both'**, otherwise the **code "no"** must be used.

For all other diffuse and point source categories the "parameterEPRTRfacilities", please do **not fill** "parameterEPRTRfacilities" in.

Please pay attention and cross-check with national PRTR data and/or reporters



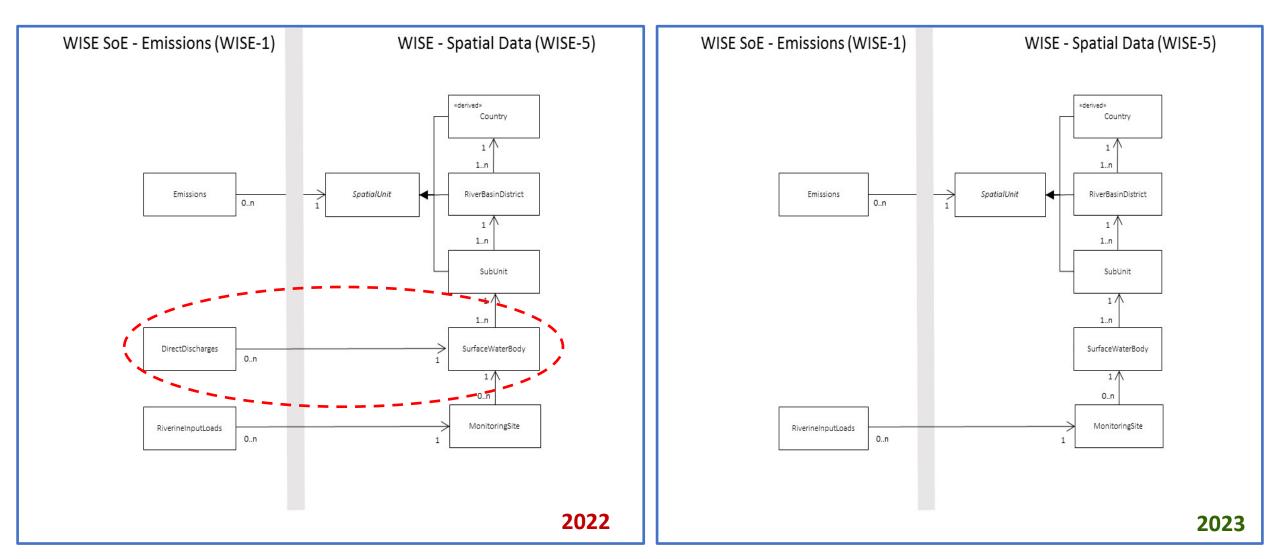
Main changes from 2022 data call

- Adjustments in the data dictionary and related documents <u>https://dd.eionet.europa.eu/datasets/latest/Emissions</u>
   <u>https://dd.eionet.europa.eu/datasets/latest/Emissions/tables/Emissions</u>
- Same structure and templates as previous exercise (e.g. no fields added)
- Data model updated with deletion of DirectDischarges



#### Main changes from 2022 data call

#### Data model updated with deletion of DirectDischarges



#### Main changes from 2022 data call

Additional automatic QCs

- **WARNING** when the hierarchy principle is not respected.
- WARNING when "parameterEPRTRfacilities" is not null for source categories which are not relevant for E-PRTR reporting.



Table "RiverineInputLoads"Overall statistics

4833 (2254) records

277 (108) substances

214 (172) monitoring sites

6 (5) Countries (EE, ES, IT, LT, NL, SE)

NL and ES also reported for years 2014, 2015, 2019, 2020

In parentheses the numbers from 2021 data call



Main changes from 2022 data call

Automatic QC changed

The field "resultObservationStatus" defines the status of the riverine input load value in terms of its availability, relevance and correctness.

Allowed values:

- 'O' if the value is missing and no further information is available as to the reason why.
- 'L' if the value is missing because the data was not collected.
- 'N' if the value is missing because it isn't relevant or significant.
- 'Z' to identify previously reported records that should be deleted. Explanation for the reason why it should be deleted can be provided in the Remarks field.

No other "resultObservationStatus" code is valid **BLOCKER** 



# Thanks to WISE-1 reporters and data team

Eionet WISE-1 reporters

ETC BE – Antje

EEA – Caroline, Jørgen, Marek, Néry

francesco.mundo@eea.europa.eu

