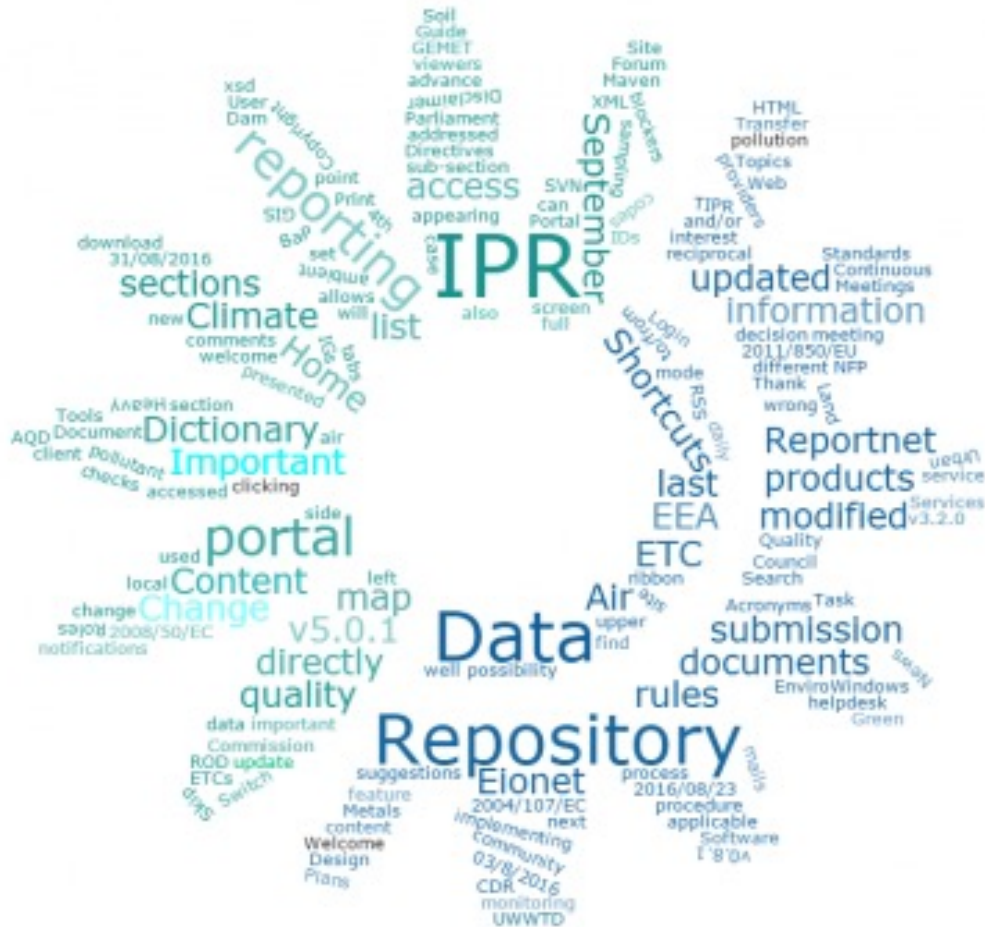


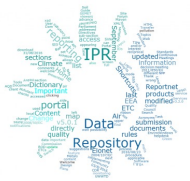
14th September 2022

14th September 2022

**Jaume Targa & Cristina Carnerero – ETC/HE (4sfera)**  
**Luca Liberti (EEA)**

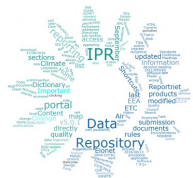
**Jaume Targa & Cristina Carnerero – ETC/HE (4sfera)**  
**Luca Liberti (EEA)**





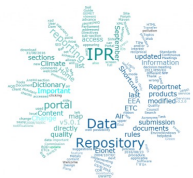
# 1 AEI Reporting

- Why?
- How?
- Important reminder



## 2 Why is this important?

- According to the AQ Directive 2008/50/EC (Annex XIV), countries are required to report in data flow C and G one Assessment Regime and one Attainment respectively for the ERT and ECO Objectives in relation to the PM2.5 AEI metric.



## 2 Why is this important?

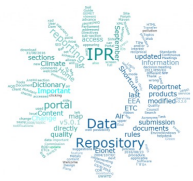
- Since the implementation of e-Reporting, the reporting was focused on ECO as it came into force 2015. However, ERT must be included too as it came into force 2020
- ERT must be included in both C & G



- ### 3 How do we report C?

### 3 How do we report C?





### 3 How do we report C?

- ERT needs to be reported similar to ECO

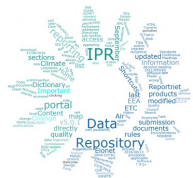
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## 3 How?

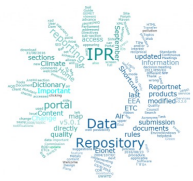
- Same SamplingPoints used in ECO are expected in ERT
- New QA checks (C36 to C39b) were introduced to ensure the consistency of AEI Assessment Regimes.



### 3 How do we report G?

- ERT needs to be reported similar to ECO
- New QA checks(G95, G96, G97) are now in place to verify that these values are correctly reported
- ECO compares AEI value against 20 ug/m3
- ERT compares AEI value against the expected reduction threshold





## 4 Important reminder

A three-calendar year running annual concentration averaged over all SPOs assigned for AEI calculations

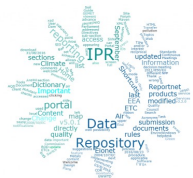
### A. Average exposure indicator

The Average Exposure Indicator expressed in  $\mu\text{g}/\text{m}^3$  (AEI) shall be based upon measurements in urban background locations in zones and agglomerations throughout the territory of a Member State. It should be assessed as a three-calendar year running annual mean concentration averaged over all sampling points established pursuant to Section B of Annex V. The AEI for the reference year 2010 shall be the mean concentration of the years 2008, 2009 and 2010.

However, where data are not available for 2008, Member States may use the mean concentration of the years 2009 and 2010 or the mean concentration of the years 2009, 2010 and 2011. Member States making use of these possibilities shall communicate their decisions to the Commission by 11 September 2008.

The AEI for the year 2020 shall be the three-year running mean concentration averaged over all those sampling points for the years 2018, 2019 and 2020. The AEI is used for the examination whether the national exposure reduction target is met.

The AEI for the year 2015 shall be the three-year running mean concentration averaged over all those sampling points for the years 2013, 2014 and 2015. The AEI is used for the examination whether the exposure concentration obligation is met.



## 4 Important reminder

A three-calendar year running annual concentration averaged over all SPOs assigned for AEI calculations

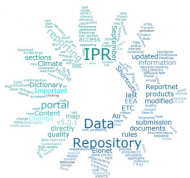
### A. Average exposure indicator

The Average Exposure Indicator expressed in  $\mu\text{g}/\text{m}^3$  (AEI) shall be based upon measurements in urban background locations in zones and agglomerations throughout the territory of a Member State. It should be assessed as a three-calendar year running annual mean concentration averaged over all sampling points established pursuant to Section B of Annex V. The AEI for the reference year 2010 shall be the mean concentration of the years 2008, 2009 and 2010.

However, where data are not available for 2008, Member States may use the mean concentration of the years 2009 and 2010 or the mean concentration of the years 2009, 2010 and 2011. Member States making use of these possibilities shall communicate their decisions to the Commission by 11 September 2008.

- AEI baseline was calculated back in 2010 or 2011 and reported to the Commission in the OLD questionnaires
- These are now stored here:

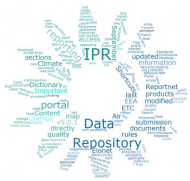
<https://dd.eionet.europa.eu/vocabulary/aq/exposurereductiontarget/view>



## 4 Important reminder

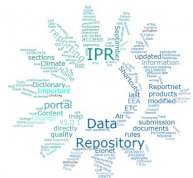
A three-calendar year running annual concentration averaged over all SPOs assigned for AEI calculations

In country	AT (Austria) in common/countries
Related pollutant	6001 (Particulate matter < 2.5 µm (aerosol)) in aq/pollutant
Objective Type	ERT (Exposure reduction target (ERT)) in aq/objectivetype
Reporting metric	AEI (Average Exposure Indicator) in aq/reportingmetric
Exceedance threshold	15.1
Exceedance threshold Extra	15.1
Baseline Value	17.8
Baseline Year Minimum	2009
Baseline Year Maximum	2011
Reduction Target (percentage)	15 %



## 4 Important reminder

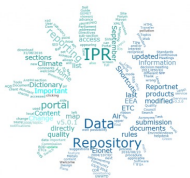
- AEI baseline is used to calculate the 2020 ERT threshold based on table B annex XIV
- G will assess if you are above or below your country specific threshold



## 4 Important reminder

- Sampling points listed as Assessment Methods in the AEI Assessment Regime are not supposed to change over time as this will affect the baseline AEI calculation and the target.
- New QA check in place !!!.



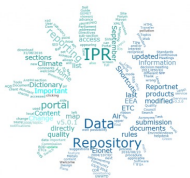


# 4 Important reminder

- Analysis of consistency between 2015 to 2020
- Global analysis shows that:
  - ONLY 8 countries (100%) have used/reported same set of SPO between 2015-2020
  - If not 100%, discrepancies may occur either at the end or beginning of the reporting.



CountryCode		Score	2015	2016	2017	2018	2019	2020
1	AT	100	100	100	100	100	100	100
2	BE	100	100	100	100	100	100	100
3	BG	42.9	14.3	14.3	14.3	14.3	100	100
4	CY	80	80	80	80	80	80	80
5	CZ	54.2	83.1	67.5	24.1	67.5	41	42.2
6	DE	97.3	97.3	97.3	97.3	97.3	97.3	97.3
7	DK	75	75	75	75	75	75	75
8	EE	33.3	75	25	25	25	25	25
9	ES	90.3	90.3	90.3	90.3	90.3	90.3	90.3
10	FI	100	100	100	100	100	100	100
11	FR	89.9	91.1	91.1	91.1	87.5	91.1	87.5
12	GB	64.9	78.6	78.6	78.6	76.8	76.8	0
13	GR	50	50	50	50	50	50	50
14	HR	41.7	50	0	50	50	50	50
15	HU	100	100	100	100	100	100	100
16	IE	64.8	44.4	33.3	44.4	77.8	88.9	100
17	IS	29.5	0	84.6	15.4	15.4	30.8	30.8
18	IT	75	70	73.3	76.7	76.7	76.7	76.7
19	LT	100	100	100	100	100	100	100
20	LU	100	100	100	100	100	100	100
21	LV	100	100	100	100	100	100	100
22	MT	100	100	100	100	100	100	100
23	NL	76.5	64.7	88.2	94.1	70.6	70.6	70.6
24	NO	87.5	75	75	75	100	100	100
25	PL	82.1	78	78	85.4	97.6	78	75.6
26	PT	31.2	100	20.8	12.5	16.7	20.8	16.7
27	RO	69	85.7	47.6	85.7	85.7	52.4	57.1
28	SE	83.3	75	75	75	75	100	100
29	SI	53.3	40	40	40	60	60	80
30	SK	81	21.4	92.9	92.9	92.9	92.9	92.9





# 4 Important reminder

- Where can you access your data?
  - Individual CDR envelopes OR
  - USER's CORNER → <https://aqportal.discomap.eea.europa.eu/index.php/users-corner/>

EEA - European Air Quality Portal

HomeContentNewsReporters' cornerUsers' cornerLinks

### Assessment regimes – methods (C – table)

[Home](#) > [Users' corner](#) > [Assessment regimes – methods \(C – table\)](#)

#### Air Quality Assessment Regimes Methods (data flows C and C preliminary)

This viewer shows information on Assessment Methods used for Air Quality Assessment Regimes reported within AQ e-Reporting

Linked tablesShareDownload CSV

Country	B-G Namespace	Year	Preliminary	AQ Assessment Regime Id	AQ Assessment Method Id	AQ Zone Id	Air Pollutant	Protection Target	Objective Type	Reporting Metric	Assessment Type	Description Of Assessment Type	Assessment Method	Source
Austria	AT.0008.20.AQ	2015	No	ARE-AT_00_00020_LV_aMean_2015	SPO.02.KA21.4062.20.1	ZON-AT_00	C6H6	Health	Limit Value (LV)	Annual mean / average	Fixed measurement	fixed measurement	Sampling Point	<a href="http://">http://</a>
Austria	AT.0008.20.AQ	2015	No	ARE-	SPO.04.S156.55273.20.1	ZON-	C6H6	Health	Limit	Annual	Fixed	fixed	Sampling	<a href="http://">http://</a>

#### Filters

Country  
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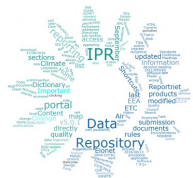
Year  
[ all ]

Preliminary  
☒ [ all ]



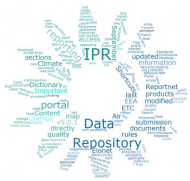
## 4 Important reminder

- It might be necessary to update 2020 reports to include ERT in C & G
- Maybe do this after September 2021 deadline, to avoid busy period. A Justification letter will be necessary!!!



## 4 Important reminder

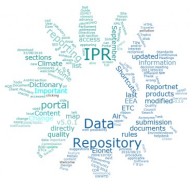
- Example from Germany (G)
  - AEI baseline was 16  $\mu\text{g m}^{-3}$  (years 2008-2010)
  - Reduction target  $\rightarrow$  15%
  - AEI threshold limit in 2020 is 13.6  $\mu\text{g m}^{-3}$ 
    - Reduction of 15% to 16  $\mu\text{g m}^{-3}$



## 4 Important reminder

- Example from Germany

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# AEI Reporting

Any questions/comments?

Thank you for your attention!