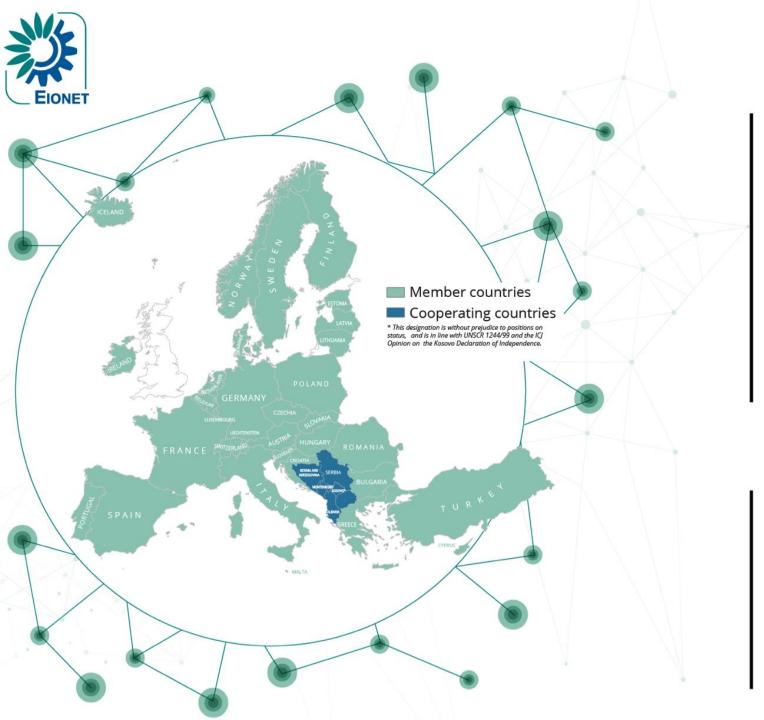
## **European Environment Agency and the Western Balkans**



Luna Kalas and Luca Liberti / Regional Network Meeting on Air Quality Information Management / 26.4.2023



Who we are

More than 500 institutions

38 countries

around 1 500 experts

13 Eionet groups

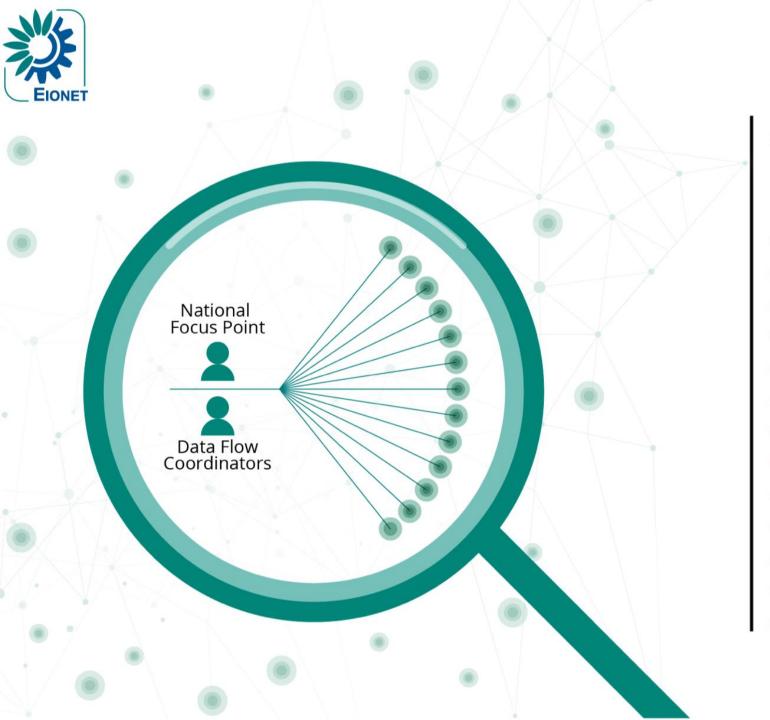
**8 European Topic Centres** 

What we do

over 50 publications a year

Air Quality report + app

**SOER** every 5 years



#### Areas of work

#### 13 groups

- Biodiversity and Ecosystems 1
- Biodiversity and Ecosystems 2
- Circular Economy and Resource Use
- Climate Change Impacts, Vulnerability and Adaptation
- Climate Change Mitigation and Energy Systems
- Communication
- Data, technologies and digitalisation
- Food Systems
- Foresight
- Human Health and Environment
- Land Systems
- Mobility Systems
- State of the Environment







Advice and coordination



**Data Flow Coordinator** 

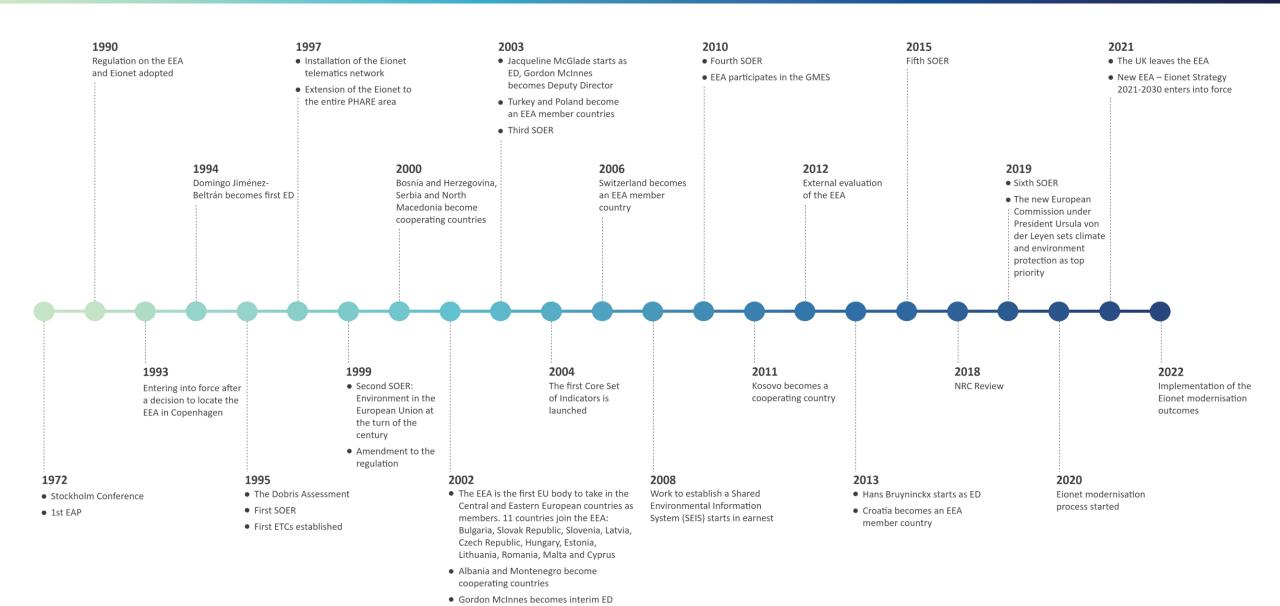
Data flow coordination



European Topic Centres

Contracted centres of thematic expertise in Europe

#### **Timeline – EEA and Eionet History**



#### Project: Integrating Western Balkans in the work of EEA

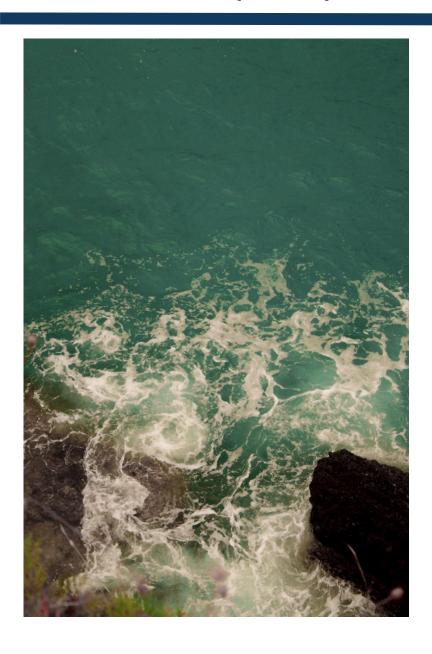


Duration: 01.02.2023 – 31.12.3025

Further integration of the Western Balkans into the work of EEA and Eionet with a focus on:

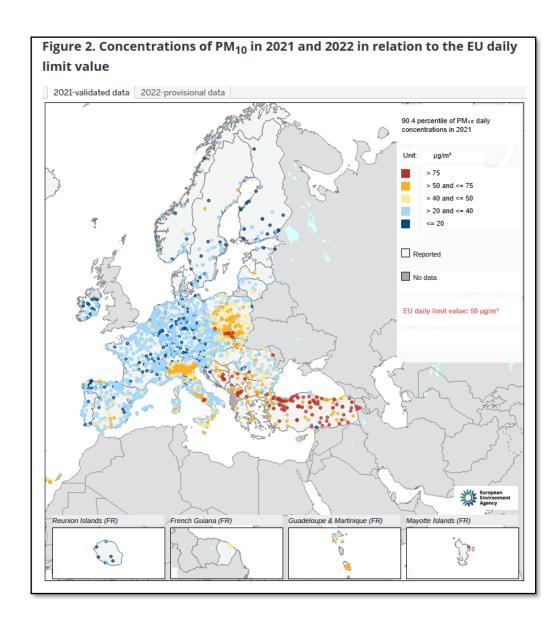
- Legal reporting obligations
- Eionet functioning
- Thematic capacity building (GAWB)

#### Thematic Capacity Building Activities



- Air Quality
- Soil
- Water
- Circular Economy
- Biodiversity
- State of Environment Report 2025

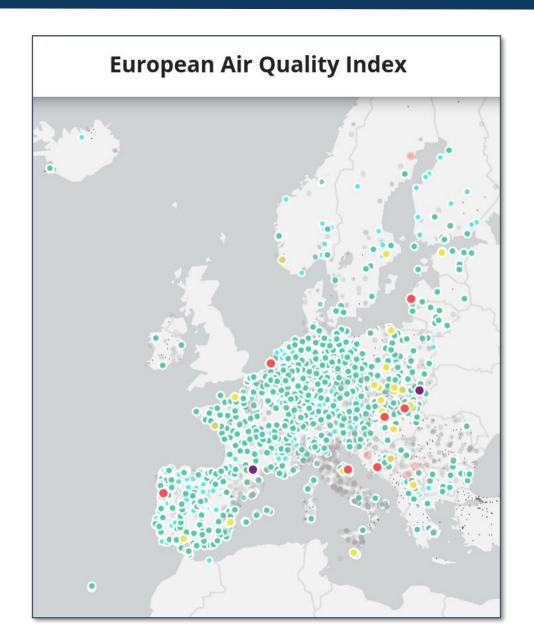
#### Air Quality – EEA Role



- Collect data reported by countries
- Support policy development

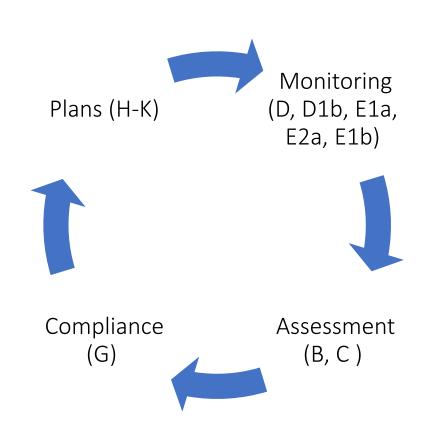
Inform the public

### Air Quality – EEA Role



- Collect data reported by countries
- Support policy development
- Inform the public

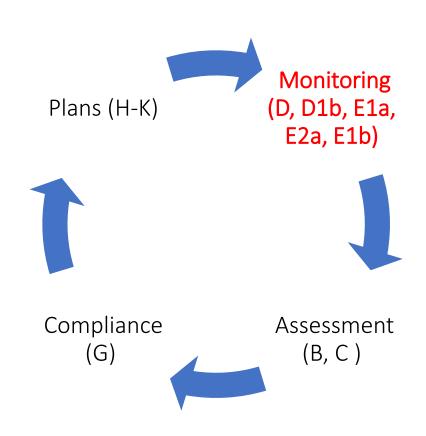
#### Air Quality – Data Reporting Components



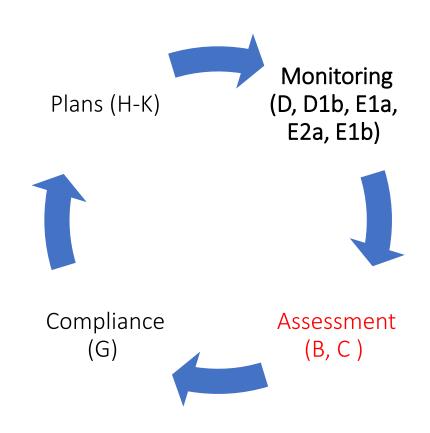
 Reporting established by Directives 2008/50/EC and 2004/107/EC

 Implementing Decision 2011/850/EU (IPR)

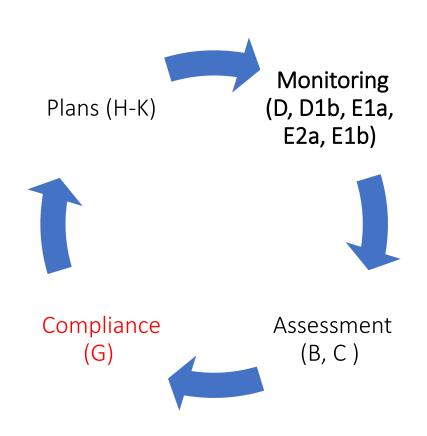
Started in 2014 for 2013 data



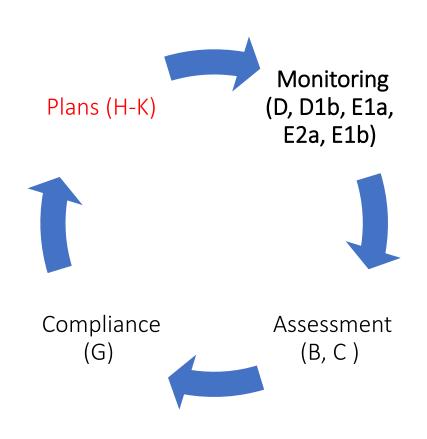
- Monitoring networks (D)
- Models (D1b)
- Measurements (E1a, E2a)
- Model results (E1b)



- Air Quality management
  Zones definition (B)
- Zones classification and link to monitoring Assessment Regimes (C)

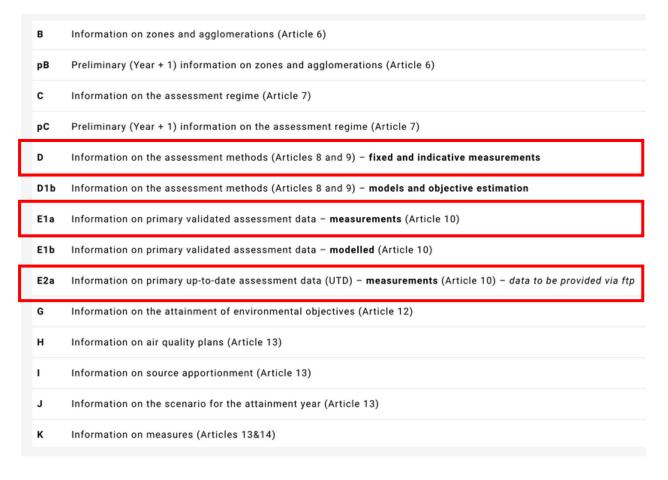


Compliance to Air Quality Standards



 Describe Air Quality Plans to improve air quality and to target noncompliances

#### Air Quality – Data Reporting Challenges



 Data reported in 14 interconnected dataflows

Real time data (UTD)

Complex XML file structure

WB reporting D, E1a, E2a

#### Air Quality – Data Reporting Challenges

В	Information on zones and agglomerations (Article 6)
рВ	Preliminary (Year + 1) information on zones and agglomerations (Article 6)
С	Information on the assessment regime (Article 7)
рС	Preliminary (Year + 1) information on the assessment regime (Article 7)
D	Information on the assessment methods (Articles 8 and 9) – fixed and indicative measurements
D1b	Information on the assessment methods (Articles 8 and 9) – models and objective estimation
E1a	Information on primary validated assessment data – measurements (Article 10)
E1b	Information on primary validated assessment data – modelled (Article 10)
E2a	Information on primary up-to-date assessment data (UTD) – measurements (Article 10) – data to be provided via ftp
G	Information on the attainment of environmental objectives (Article 12)
Н	Information on air quality plans (Article 13)
ı	Information on source apportionment (Article 13)
J	Information on the scenario for the attainment year (Article 13)
к	Information on measures (Articles 13&14)

Plans for B-G reporting

#### Air Quality – Support to the Western Balkans

 Capacity building for data collection, management and reporting

 Development of Raven open-source data reporting and management tool

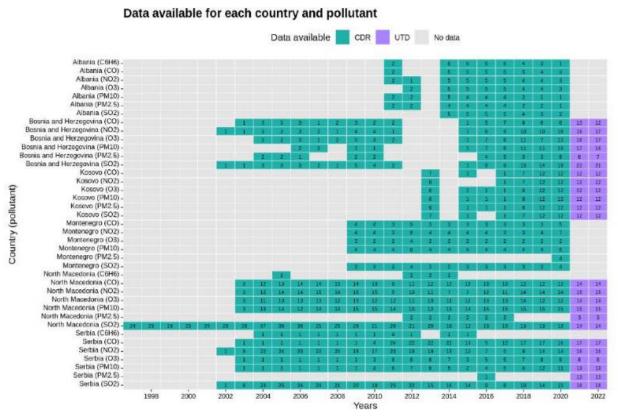


Figure 2: Data available from discodata on 23/05/2022.

#### Air Quality – Software tools development timeline

- 2013 2015 Support for reporting using RIVM AQUI
- 2016 2018 Raven 0 for Dataflows D, E1a, E2a
- 2018 2020 Raven 1 user interface and E2a web service
- 2020 2021 Raven 2 include Dataflows B, C, G and improved data management
- 2022 Raven 3 improved interface and installation
- Raven adopted by all WB countries, Malta, Romania in phase study

#### Air Quality – Future Plans

- Continue support to Reporting
- Maintenance and improvement of Raven
- Automatic upgrades
- Simplified modelling framework
- Timeseries validation
- Integration with R (OpenAir)



# Thank you

