

# Deliverable D47 (D6.2)

In-situ presentation of the information packages  
and stakeholder workshop



**RI-URBANS**

**Research Infrastructures Services Reinforcing Air  
Quality Monitoring Capacities in European Urban &  
Industrial AreaS (GA n. 101036245)**

**By**

**CNR, CSIC & UHEL**



***17 September 2025***

**Deliverable D47 (D6.2): In situ presentation of the information packages and stakeholder's workshop**

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<b>Comments</b>	This report summarises the numerous activities carried out in RI-URBANS to engage stakeholders in implementing the service tools. It shows the results produced and recommended, and the use of our 16 guidance documents to this end. This includes numerous events organised or participation in events, but most importantly on-site visits to key stakeholders.

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## 1. About this document

This document is delivered in the framework of the RI-URBANS project (Research Infrastructure Services for Strengthening Air Quality (AQ) Monitoring Capacities in European Urban and Industrial AreaS), which aims to expand and adapt atmospheric Research Infrastructure (RI) services to enhance air quality observations in support of advanced policy assessment. The project seeks to build, develop, and foster synergies between Air Quality Monitoring Networks (AQMNs) and atmospheric RIs to improve the capacity of AQMNs to provide the observations needed to assess, forecast, and reduce urban air pollution. Pilot service tools (STs) combining advanced scientific knowledge and innovative technical work have been developed to this end and offered to AQMNs to support AQ observations and better address challenges and social demands associated with air quality in European cities and industrial hotspots.

In RI-URBANS, service tools (STs) are any tools that the project helped to review, in some cases develop, test, and ultimately recommend for advanced AQ assessment in urban areas. Such tools support AQ assessment in accordance with RI-URBANS AQ monitoring and modelling recommendations for novel pollutants. These include protocols for measuring advanced AQ variables (derived from ACTRIS and CEN or, in specific cases, proposed when not available), mapping protocols, emission inventories, modelling tools, and suggested epidemiological approaches to evaluate the health effects of new pollutants.

WP6 aims at maximising engagement of stakeholders to ensure the transfer and implementation of RI-URBANS' STs and the demonstration of the project's societal and environmental benefits, by implementing suitable strategies to engage different groups of air quality (AQ) stakeholders, with a focus on enhancing the AQMNs-RIs links.

The specific objectives:

- Maximise involvement of local, regional and national administrations for selecting novel AQ metrics, implementing and interpreting pilot studies, and being recipients of the deliverables and reports.
- Provide guidance for engaging citizens for measurements and increasing awareness of the novel AQ metrics.
- Involve European administrations and AQ and AQ-Health agencies, such as EMEP-UNECE, EEA, WHO, and Copernicus in the process to communicate progress, participate in the discussions and workshops, and visit them to present the outputs.

Because the review of the new Ambient Air Quality Directive (NAQD) was launched on 26th October 2022 and in its draft proposal it was included creating a network of AQ supersites for the measurement of the advanced parameters included in RI-URBANS, we considered very relevant to enhance an objective for WP6, which is part of iii): Supply technical guidance to Directorate General of Environment (DG-ENV) from the European Commission (EC) and the Network of European AQ National Reference Laboratories (AQUILA) to support implementation of measurements of the advanced AQ parameters included in the NAQD, 2024/2881, from 10<sup>th</sup> December 2024.

Sixteen STs were developed and are now available to support optimised urban air quality management. For each STs, a specific guidance document illustrates the tool in detail and supports the uptake and

suitable implementation of these measurements and modelling by relevant stakeholders, such as air quality authorities, networks, and scientists. The STs documents are reported in the project deliverable [D46 \(D6.1\) - Information packages for local, regional and national AQ administrations](#) and offer actionable recommendations and guidance on measurements, source apportionment, health assessment, mapping, and modelling.

A [booklet](#) has been produced to support the dissemination and the in situ presentation of the STs and the related information package, also highlighting their added value for measuring advanced air quality variables for enhanced air quality assessment. The elaboration of these 17 documents made up [D46 \(D6.1\)](#).

This document, D47 (D6.2), was elaborated to report the activities carried out for the co-design (with stakeholders) and disseminating the STs, with a special focus on in-situ presentations, and in some cases no in situ but remote presentations/seminars given specifically for relevant stakeholders such as the EEA or AQUILA. It includes, as an example, a description of the dedicated workshop held in Italy with stakeholders from administrations at 3 scales (national, regional and local) from 10 Italian regions and cities potentially interested in replicating the services. The workshop also featured online participation from 2 EU cities.

This is a public document that will be distributed to all RI-URBANS partners for their use and submitted to the European Commission as a RI-URBANS deliverable D47 (D4).<sup>2</sup> This document can be downloaded at <https://riurbans.eu/work-package-6/#deliverables-wp6>

## 2. Actions to co-design RI-URBANS STs

From the beginning of the project, we interacted with key stakeholders to favour the co-design of the STs and data management. The results were very relevant in such a way that some of the new AQ parameters suggested by RI-URBANS were included in the NAQD, and the key RI-URBANS' STs guidance documents are cited frequently in the official guidance for AQ measurements produced by DG-ENV. Below we summarise the main actions carried out, with bold characters indicating in situ presentation.

- October 2021, the Grant Agreement was sent to C. Nagl (writing team of base documents for the revision of the NAAQD), because he contacted us requesting info on the new pollutants and supersites we were proposing.
- The 1<sup>st</sup> Stakeholder Meeting (May 2022, 57 attendees) succeeded in involving staff of EC-DG ENV, AQUILA, WHO, EEA, WMO, EMEP (the first 3 giving talks), as well as numerous cities. Also, in the first scientific meeting (held in Barcelona in October 2022).
- October 2022. The draft of the NAAQD, and in the base documents, RI-URBANS was mentioned (inside ACTRIS) as a source of information for new pollutants.
- **A 2<sup>nd</sup> Stakeholder meeting was dedicated to Poland on 23<sup>rd</sup> February 2023. The Polish stakeholders representing 23 institutions attended the meeting, including 16 institutions with representatives in person (20 persons) and 9 institutions online (11 persons). In addition to Polish stakeholders, in this meeting also 6 representatives of the RI-URBANS and the ATMOACCESS projects have participated (online) and 1 in person.**
- On 19<sup>th</sup> June 2023, a 3<sup>rd</sup> stakeholder (online) meeting of RI-URBANS was organised in collaboration with ACTRIS, AQUILA and EMEP to discuss with AQUILA and national AQMNs experts the recommendations sent to DG ENV-EC for the review of the NAQD. We had 152 attendees from 69 institutions. These included DG ENV, WHO, WMO,

ACTRIS, EMEP, AQUILA, RI-URBANS, and AQ national experts from numerous countries, regions and cities, RI-URBANS Associated Collaborators, National Research centres and SMEs.

- Webinar on Instruments and Protocols to Measure Advanced Air Quality Parameters (10<sup>th</sup> January 2024) as online meeting / webinar to discuss instruments and protocols to measure advanced AQ parameters for the urban RI-URBANS/ ACTRIS supersites with the AQUILA community. The event took place online on 10<sup>th</sup> January 2024. The scope of this online meeting - to present and jointly discuss with AQUILA the instrumentation and protocols that RI-URBANS/ACTRIS are proposing for a number of advanced AQ parameters, including UFP, PSD, BC, VOCs and NH<sub>3</sub>. The presentations showed the different degrees of harmonisation potential for the different STs. See more details in the RI-URBANS document "[Report on the Meeting RI-URBANS-ACTRIS-AQUILA](#)".

### 3. Dissemination of the RI-URBANS STs

#### 3.1 Dissemination of the RI-URBANS STs at the national level and during the NAQD discussions

Here we summarise actions carried out to disseminate STs. Below we summarise the main actions carried out, with bold characters indicating in situ presentation.

- On 4<sup>th</sup> and 22<sup>nd</sup> October 2024 the guidance for STs for advanced AQ parameters (most included in the NAQD) were presented in an AQ stakeholder webinar organised by ATMO-ACCESS-RI-URBANS, where guidance on implementing the STs from RI-URBANS/ACTRIS were presented.
- RI-URBANS participated in the 6<sup>th</sup> Knowledge and Citizens Working Group meetings (13<sup>th</sup> November 2024), organised online by the Green Deal Projects Support Office. RI-URBANS shared ST13 on Mapping ultrafine particles and citizen science. See "[Minutes of the 6th Knowledge & Citizens WG Meeting](#)".
- The RI-URBANS project also co-organized a series of training events (in January-February 2025) addressing harmonized measurements of emerging pollutants of the NAQD with the AQUILA, ACTRIS, and the European Environmental Agency (EEA). The training sessions were organized in a series of on-line sessions concentrating on different aspects of the emerging pollutants and AQ Directive requirements.



- Training #1: 23<sup>th</sup> January 2025 09:30 – 11:30 CET Aerosol particle number concentration
  - Training #2: 27<sup>th</sup> January 2025 09:30 – 11:30 CET Aerosol particle number size distribution
  - Training #3: 11<sup>th</sup> February 2025 09:30 – 11:30 CET Equivalent Black Carbon
  - Training #4: 19<sup>th</sup> September 2025 09:30 – 11:30 CET Urban mapping of pollutants & citizen sci.
  - Training #5: 29<sup>th</sup> September 2025 09:30 – 11:30 CET Source apportionment
- In 7<sup>th</sup>-8<sup>th</sup> April 2025 a large event was organised in Italy: **Italian Stakeholder Meeting on Air Quality: RI-URBANS Workshop, Rome ([link](#))**. **120 participants attended the event, including representatives from 14 ARPAs and ISPRA. Other 60 participants were connected remotely. See example in subsequent sections.**
  - 16<sup>th</sup> April 2025, RI-URBANS webinar to present 16 published guidance documents and the summary report (online) ([link](#)). 237 attendees. The special webinar organised to officially launch the guiding documents for the implementation of the RI-URBANS Service Tools was held on April 16, 2025. This online event was meant to spread information on the tools and provide technical insights to a wide audience, including air quality

- monitoring experts, researchers, and policy stakeholders. 237 participants from research institutes, universities, and various stakeholder organisations followed the presentations, which highlighted the relevance of the STs in the context of the NAQD and the importance of promoting harmonised measurements and modelling approaches for novel air quality pollutants. The event offered the opportunity to start reflecting on measurement protocols, source apportionment, vertical profiling, health impact assessment, and urban mapping, and considering the integration of RI-URBANS tools into supersites as defined by the new directive.
- RI-URBANS participated in the 7<sup>th</sup> Knowledge and Citizens Working Group meetings (22<sup>nd</sup> April 2025), organised online by the [Green Deal Projects Support Office](#). See more details in the RI-URBANS document “*Minutes of the 7<sup>th</sup> Knowledge & Citizens WG Meeting*”.
  - **24<sup>th</sup>-25<sup>th</sup> April 2025, RI-URBANS STs presented to the Ministry for Ecological Transition and the managers of the AQMNs of Spain. Face-to-face.**
  - 30<sup>th</sup> April 2025 RI-URBANS published 1000 printed copies of the [summary report of the 16 STs](#) (booklet of 72 pp) that have been distributed among stakeholders. AXA Research Fund supported the costs.
  - **2024-2025. Presentations to stakeholders in Finland (6 in-person or hybrid meetings reaching AQMNs, authorities, Ministry, scientists, standardisation body).**
  - **2025. Presentations to stakeholders in Romania. Hybrid.**
  - **2025. Presentations to stakeholders in Slovenia. Hybrid.**
  - **The RI-URBANS STs were presented at the Nordic-Baltic National Reference Laboratories Meeting, Reykjavik, Iceland, 20<sup>th</sup> and 21<sup>st</sup> May 2025.**
  - **30<sup>th</sup> May 2025 Jornada “La nueva Directiva Europea de Calidad del Aire” (face-to-face) Ecologistas en Acción (NGO), Madrid ([link to the video](#)).**
  - Along 2025 the Ministry for Ecological Transition of Spain is covering costs of the translation to Spanish of the most relevant guidance STs and they include these in the Website of the Ministry. See ST1 as an example ([link](#)).

Other presentations on STs:

- **The EGU General Assembly 2025<sup>1</sup> in Vienna (27 April–2 May), where the STs were discussed in 3 scientific sessions, dedicated respectively to Integrated Research Infrastructures, Source Apportionment and Low-Cost Sensors, and the STs were presented in a special session dedicated to EU project on atmospheric and climate topics. Face-to face.**

### **3.2. Example of national dissemination: Stakeholder workshop in Italy**

The presentation of the RI-URBANS’s STs for air quality monitoring, with a focus on their potential integration into regional and local environmental strategies by key air quality research and policy actors, was the central theme of a dedicated stakeholder meeting held in April 2025. The event, entitled “*Towards the new European Air Quality Directive: Dialogue and Synergies between Research Infrastructures, Local Authorities and Environmental Agencies*,” was hosted in Rome by the Italian RI-URBANS team, coordinated by the National Research Council (CNR).

To ensure the widest possible participation and leverage relevant synergies, the workshop was organised in collaboration with the Italian component of ACTRIS and the ITINERIS project, a national initiative establishing the Italian hub of research infrastructures in the environmental science field. The main objectives of the event were:

- To present the RI-URBANS’s STs and their applications in urban AQ monitoring.

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<sup>1</sup> <https://riurbans.eu/ri-urbans-results-presented-at-egu-2025/>

- To facilitate, promote, and deepen dialogue and collaboration between research infrastructures (ACTRIS, ICOS, ITINERIS), regional environmental protection agencies, and public authorities at the national, regional, and local levels.
- To support the implementation of NAQD.

To ensure the achievement of these objectives, the workshop was carefully planned well in advance, with preparation lasting approximately four months. As described in the following section, preparation included preliminary work to identify stakeholders and, in particular, to obtain appropriate contacts within each organisation to invite, followed by an analysis of their interests and needs in relation to the workshop topics. This guided the definition of the event program and the involvement of the key speakers.

### *3.2.1. Preliminary Stakeholder Mapping*

At the beginning of 2025, a structured survey was carried out to ensure the workshop accurately addressed the needs, priorities, and interests of the main relevant stakeholders regarding air quality monitoring and the implementation of the NAQD. The Italian RI-URBANS team developed a questionnaire, which was distributed to the 19 regional agencies (ARPA), the two agencies (APPA) of the autonomous provinces of Trento and Bolzano, and the National Institute for Environmental Protection and Research (ISPRA), which together constitute the National System for Environmental Protection (SNPA).

This mapping exercise was crucial to identifying the topics most relevant to stakeholders and tailoring presentations accordingly. Responses revealed interest in the following areas:

- RI-URBANS service tools, considered very important or extremely important by the majority of respondents.
- Joint measurement campaigns, seen as a valuable opportunity for collaboration and data harmonisation.
- New variables: strong interest was expressed in integrating emerging pollutants such as black carbon, PM<sub>1</sub>, and ultrafine particulate matter.
- Vertical profiling and source contributions: recognised as essential for understanding pollution dynamics in urban environments.
- Measurement methods and data validation: the need for support in implementing and validating new measurement techniques was highlighted, with many requesting collaboration with research infrastructures.

Input and comments collected through the survey were processed, organised, and used to define the workshop agenda and structure, ensuring that sessions addressed the most pressing concerns and technical needs of participating institutions. Similarly, roundtable discussions were designed to foster dialogue on these topics, and presentations showcased relevant tools and case studies.

### 3.2.2. Agenda

The detailed agenda of the workshop is provided in Table 1.

*Table 1. Towards the new European Air Quality Directive: Dialogue and Synergies between Research Infrastructures, Local Authorities and Environmental Agencies – Workshop Agenda.*

April 7, 2025	
<b>12:00</b>	Welcome addresses <i>Francesco Petracchini – CNR, Director of the Department of Earth System Sciences and Environmental Technologies</i>
<b>12:05</b>	ACTRIS IT: The Role of Research Infrastructures <i>Lucia Mona – CNR-IMAA, ACTRIS National Contact Point</i>
<b>12:20</b>	RI-URBANS: Project Overview <i>Xavier Querol – IDAEA-CSIC, Coordinator of RI-URBANS</i>
<b>12:35</b>	RI-URBANS: The Service Tools <i>Angela Marinoni – CNR-ISAC, Coordinator of RI-URBANS Pilot for the Milan-Bologna Area</i> <i>Lucia Mona – CNR-IMAA, Leader of RI-URBANS Task on Profiling Techniques for Air Quality</i>
<b>13:00</b>	<b>Lunch Break</b>
<b>14:00</b>	ITINERIS: An Integrated System of Environmental Research Infrastructures in Italy <i>Gelsomina Pappalardo – Director of CNR-IMAA, Coordinator of ITINERIS Project</i>
<b>14:15</b>	Collaboration Between ARPA and European Projects: RI-URBANS and the Case of ARPA Lombardia <i>Cristina Colombi, Guido Lanzani – Air Quality Unit at ARPA Lombardia</i>
<b>14:35</b>	Collaboration Between ARPA and Research Infrastructures: The Case of ACTRIS and ARPA Sicilia <i>Anna Abita – Head of Air Quality Unit at ARPA Sicilia</i>
<b>14:55</b>	Collaboration Between ARPA and National Networks: The Case of Alicenet and ARPA Valle d'Aosta <i>Henri Diemoz – Atmosphere and Solar Radiation Area at ARPA VdA</i>
<b>15:15</b>	<b>Coffee Break</b>
<b>15:45</b>	Air Quality Legislation and CNR-IIA: Past, Present, and Future <i>Catia Balducci – CNR-IIA Representative for Emerging Pollutants Research Area</i>
<b>16:05</b>	New Developments Introduced by EU Directive 2024/2881 in Air Quality Assessment and Management: Implications for Monitoring Networks, Reporting, and Planning Activities <i>Giorgio Cattani – ISPRA, Head of Air Quality Monitoring Section</i>
<b>16:20</b>	Directive 2024/2881: Updates on Limit Values, Quality Objectives, Supersites, New Parameters and Measurement Methods, and Technical Activities for Implementation <i>Damiano Centioli – ISPRA, Italian Representative in AQUILA Network and Head of Accredited Air Quality Testing Laboratory No. 01211</i>
<b>16:35</b>	Introduction to Roundtable Topics
<b>17:00</b>	<b>End of Day 1</b>
April 8, 2025	
<b>9:00</b>	<b>Roundtable: New Regulated Variables for Air Quality – Black Carbon and Ultrafine Particles</b> <i>Marco Pandolfi, Francesca Costabile</i>
<b>11:00</b>	<b>Coffee Break</b>
<b>11:30</b>	<b>Roundtable: Source Identification and Vertical Profiles</b> <i>Jean Philippe Putaud - JRC</i> <i>Lucia Mona – CNR-IMAA</i> <i>Francesca Barnaba – CNR-ISAC</i>
<b>13:00</b>	<b>Lunch Break</b>
<b>14:00</b>	<b>Roundtable: Supersites</b> <i>Angela Marinoni – CNR-ISAC</i>
<b>14:30</b>	<b>Conclusions and Next Steps</b>
<b>15:00</b>	<i>Fabio Romeo – Head of Division IV “Air Pollution and Air Quality” at the Directorate General for Programs and Financial Incentives, Ministry of Environment and Energy Security</i>
<b>16:00</b>	<b>End of Day 2</b>

### 3.2.3. List of Participants

The list of registered participants provided in Table 2 includes around 100 representatives from a wide range of institutions:

- **All major Italian environmental protection agencies** from Lombardia, Lazio, Sicilia, Umbria, Emilia-Romagna, Valle d'Aosta, Liguria, Friuli Venezia Giulia, Basilicata, Abruzzo, Trento and Bolzano.
- **National and regional research bodies:** CNR, ENEA, INFN, ISPRA and various universities
- **International partners:** IDAEA-CSIC (Spain), University of Warsaw
- **Government bodies:** Italian Ministry of Environment and Energy Security (MASE), European Commission Joint Research Council

This diverse participation confirms the relevance of the workshop and the strong interest of the invited stakeholders in collaboration for AQ monitoring and policy implementation.

*Table 2. List of participants in the Italian Stakeholders Meeting.*

ID	Name	Surname	Institution
1	Nora	Zannoni	CNR-ISAC
2	Claudia Roberta	Calidonna	CNR-ISAC
3	Alcide	di Sarra	ENEA
4	Ilaria	D'Elia	ENEA
5	Marcella	De Martino	CNR-IMAA
6	Daniela	Meloni	ENEA
7	Giandomenico	Pace	ENEA
8	Virginia	Ciardini	ENEA
9	Federico	Mazzei	Dipartimento di Fisica Università di Genova e INFN
10	Lucia	Mona	CNR IMAA
11	Francesca	Costabile	CNR
12	Gianluca	Di Fiore	CNR IMAA
13	Carmela	Cornacchia	CNR IMAA
14	Ermann	Ripepi	CNR-IMAA
15	Maria Chiara	Bove	ARPA Liguria
16	Francesca	Castiglioni	ARPA Liguria
17	Rosa	Sinisi	CNR-IMAA
18	Franco	Lucarelli	Università di Firenze
19	Angela	Marinoni	CNR-ISAC
20	Gelsomina	Pappalardo	CNR-IMAA
21	Fabio	Giardi	INFN
22	Jgor	Arduini	Università degli studi di Urbino
23	Umberto	Giostra	Università degli studi di Urbino
24	Rosa Maria	Petracca Altieri	CNR IMAA
25	Antonella	Boselli	IMAA-CNR
26	Alessia	Sannino	Dipartimento di Fisica "E.Pancini" - UNINA
27	Francesca	Barnaba	CNR-ISAC
28	Eleonora	Zucca	Consiglio Nazionale Delle Ricerche (CNR)
29	Guido	Lanzani	ARPA LOMBARDIA
30	Cristina	Colombi	ARPA Lombardia
31	Anna	Abita	ARPA Sicilia
32	Fabio	Cadoni	ISPRA
33	Henri	Diémoz	ARPA Valle d'Aosta
34	Donato	Summa	CNR-IMAA
35	Alessandro Domenico	DI GIOSA	ARPA LAZIO
36	Arianna	Marinelli	ARPA Lazio
37	Canio	Colangelo	CNR-IMAA

38	Maria Chiara	Bove	ARPA Liguria
39	Salvatore	Amoruso	Università di Napoli Federico II
40	Francesca	Castiglioni	ARPAL
41	Laura	Bennati	Arpa Lazio
42	Maria Agostina	Frezzini	ARPA Lazio
43	Alessandro	Di Menno di	Istituto Superiore per la Protezione e la Ricerca
44	patrizia	Leone	ISPRA
45	Cristiano	Ravaioli	ISPRA
46	Diego	Capobianco	Istituto Superiore per la Protezione e la Ricerca
47	TOMMASO	AURELI	ARPA Lazio
48	Silvia	Brini	ISPRA
49	Raffaella	Gaddi	ISPRA - Istituto Superiore per la Protezione e la Ricerca
50	Damiano	Centioli	ISPRA - Istituto Superiore per la Protezione e Ricerca
51	Giada	Marchegiani	ISPRA Istituto Superiore per la Protezione e la Ricerca
52	Donatella	Occhiuto	ARPA Lazio
53	Giorgio	Cattani	Istituto superiore per la protezione e la ricerca
54	Gabriele	Tonidandel	APPA PA Trento
55	Vanes	Poluzzi	Arpae Emilia-Romagna
56	Rosa	Caggiano	CNR-IMAA
57	Elisa	Malloci	APPA Trento
58	Patrizia	Leone	ISPRA
59	Alessandro	De Fini	ARPA LAZIO
60	Teresa	Laurita	CNR-IMAA
61	Marco	Vecchiocattivi	Arpa Umbria
62	Antonella	Boselli	CNR-IMAA
63	Caterina	Mapelli	CNR-IMAA
64	Andrea	Bolignano	ENEA
65	Ilaria	D'Elia	ENEA
66	Antonio	Amoroso	ISPRA
67	Franco	Lucarelli	Università di Firenze
68	Fabio	Romeo	Ministero dell'ambiente
69	Aldo	Amodeo	CNR-IMAA
70	Jean Philippe	Putaud	EC-JRC
71	Antonio	Piersanti	ENEA
72	Guido	LANZANI	ARPA Lombardia
73	Francesco	Cardellicchio	CNR-IMAA
74	Laura	Bruno	ARPAB
75	Valentina	Sarli	ARPAB
76	Giuseppe	Gargano	CNR-IMAA
77	Francesca	Battistelli	CNR
78	Viola	Pavoncello	CNR-IIA
79	Adriana	Pietrodangelo	Consiglio Nazionale delle Ricerche - Istituto
80	Luca	Tofful	CNR-IIA
81	Paola	Romagnoli	CNR
82	Tommaso	Rossi	CNR-IIA
83	Cristiana	Bassani	CNR-IIA
84	Pamela	Trisolino	ENEA
85	Catia	Balducci	CNR-IIA
86	FRANCESCA	VICHI	CNR
87	Cristina	Leonardi	CNR IIA
88	Francesca	Marcovecchio	CNR - Istituto sull'Inquinamento Atmosferico
89	Edi	Baiutti	ARPA FVG
90	Michele	Volini	CNR-IMAA
91	Claudia Roberta	Calidonna	CNR-ISAC
92	Silvia	Barberini	Laurea ingegneria ambiente e territorio
93	Ester	Paolacci	MASE-CNR
94	Patrizia	Leone	ISPRA
95	Bianca	Verbeni	MASE
96	Marco	Pandolfi	IDAEA-CSIC

97	Marjan	Savadkoohi	IDAEA-CSIC, Spain
98	Iwona S. K. A.	Stachlewska	University of Warsaw
99	Germana	Gugliotta	CNR-IIA
100	Xavier	Querol	IDAEA-CSIC

### 3.2.4. Conclusions and Next Steps

The workshop successfully enabled dialogue between research and policy actors. Major stakeholders engaged in discussions with researchers and experts on the latest developments in air quality standards and strategies, and reflected on how to enhance monitoring activities to ensure improved management of air quality and related risks and issues by integrating advanced measurement techniques and modelling approaches.

Interest and commitment to continue dialogue and share efforts to contribute to improving air quality monitoring and implementing the new EU Directive 2024/2881 were evident from the discussions, particularly in the roundtables. The presence of both scientific and technical experts and policy stakeholders enabled a rich exchange of perspectives and fostered actionable collaborations.

Follow-up actions can include:

- Establishing working groups with ARPAs for tool integration
- Planning joint measurement campaigns
- Enhancing data sharing and harmonisation across regions.

### 3.3. Dissemination for international bodies

As stated in sections 2 and 3.1 above interaction with the team in charge of producing the base documents for the draft of the NAQD since October 2021, and Art 10 of this directive contained the idea of the supersites and the measurements of most advanced AQ pollutants suggested by RI-URBANS, Furthermore, we interacted with the team writing the draft of the DG ENV official document supporting measurements in the NAQD and at the end this contained 29 references to our STs. See prior sections 2 and 3.1 for details and below for the additional presentations of dissemination at the international level (WHO, EC, EEA, EMEP,.....), with bold characters indicating in situ presentations.

- **STs were presented in the 24th, 25th, and 26th Annual Meeting of the Task Force on Measurements and Modelling (TFMM) in May 2023, 2024 and 2025, organised under the framework of the UNECE Convention on Long-range Transboundary Air Pollution (CLRTAP). Hybrid. ([link to the last](#)).**
- 20<sup>th</sup> May 2025, Results from health outcomes of the exposure to the novel RI-URBANS pollutants were presented at WHO in the 28<sup>th</sup> meeting of the Joint Convention/WHO Task Force on the Health Aspects of Long-range Transboundary Air Pollution ([link](#)).
- **18<sup>th</sup> June 2025 RI-URBANS results were presented in DG ENV Headquarters (face-to-face), with the participation of EEA. AQUILA, JRC staff, Brussels. Below is presented the agenda of the meeting that has been replicated with other bodies.**

**DG ENV Headquarters, Brussels (12 attendees from DG ENV, Tuukka Petäjä and Xavier Querol from RI-URBANS)**

<b>09:00 to 10:30</b>	<p><b>Presentation of RI-URBANS findings at Clean Air Seminar</b></p> <ul style="list-style-type: none"> <li>- Overview of the RI-URBANS project</li> <li>- Key service tools of relevance to the policy-science interface</li> <li>- Updates on measurements of pollutants (UFP-PNSD, BC, NH<sub>3</sub>, VOCs, OP, PM speciation,.....) of emerging concerns and health effects</li> <li>- Additional RI-URBANS' STs not included in the directive</li> <li>- Updates on monitoring and assessment (focus on spatial representativeness assessments)</li> </ul>
<b>10:30 to 11:30</b>	<p><b>Follow-up discussion on RI-URBANS findings with the Air Quality team at DG ENV (6 DG ENV colleagues for a more detailed exchange on policy-relevant findings)</b></p> <ul style="list-style-type: none"> <li>- Discussion about possible implications for monitoring and modelling</li> <li>- Discussion about how to inform spatial representativeness assessments</li> </ul>

- **16<sup>th</sup> September 2025** RI-URBANS results were presented in the General EMEP-UNECE meeting at UN-Geneva (face-to-face)
- **17<sup>th</sup> September** RI-URBANS results were presented in the WHO Headquarters at Geneva (face-to-face).
- 19<sup>th</sup> September RI-URBANS results were presented for EEA Headquarters (webinar specific for EEA).
- In 2025, every 3 months, meeting ACTRIS-EEA-AQUILA-RI-URBANS for data management, remote.

#### **4. Summary of dissemination activities and actions**

Over the course of RI-URBANS project, extensive activities were carried out to co-design, present, and disseminate the RI-URBANS work and particularly the Service Tools (STs) to a wide range of stakeholders. These actions ensured their technical robustness, policy relevance, and practical uptake.

##### **Key activities included:**

**Stakeholder co-design:** Early and continuous dialogue with local, regional, national, and European administrations, as well as research infrastructures and AQ networks, leading to the integration of RI-URBANS' proposals into the revised Ambient Air Quality Directive (NAQD 2024/2881).

**Workshops and meetings:** Four major stakeholder meetings (2022–2025) plus targeted national workshops (e.g. Poland, Italy, Spain, Finland, Slovenia, Romania) and thematic webinars on instruments, protocols, and training.

**Italian national workshop (Rome, April 2025):** Gathered 180 participants (in-person and online) from ARPAs, ISPRA, ministries, universities, and international partners, confirming strong interest in adopting the STs.

**Training sessions (2024–2025):** Delivered in collaboration with AQUILA, ACTRIS and EEA, focusing on advanced pollutants (UFPs, BC, VOCs, NH<sub>3</sub>) and harmonised measurement methods.

**International dissemination:** Direct presentations to DG-ENV, WHO, EEA, UNECE-EMEP, AQUILA and JRC, with RI-URBANS STs explicitly cited in DG-ENV guidance documents.

**Main outcomes:**

**16 Service Tools** with detailed guidance documents were finalised and disseminated (D6.1), supported by a summary booklet (1,000 printed copies).

RI-URBANS' work directly informed EU-level policy: 29 references to its STs in official DG-ENV documents.

Broad stakeholder buy-in: national agencies and networks expressed commitment to adopt advanced AQ parameters, participate in joint measurement campaigns, and harmonise data practices.

Strengthened collaboration across research infrastructures, national AQ authorities, and policy bodies, paving the way for implementation of supersites under the new Directive.

Overall as summarized above, RI-URBANS successfully established the scientific, technical, and institutional groundwork for the widespread adoption of advanced AQ monitoring tools across Europe, bridging research and policy to improve urban air quality management.