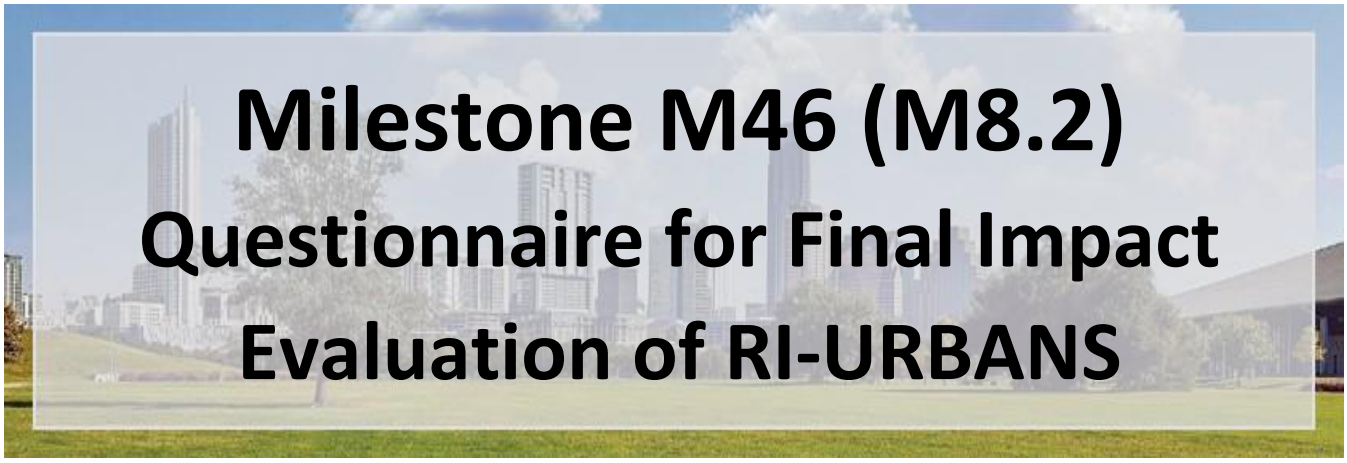

Milestone M46 (M8.2)
Questionnaire for Final Impact Evaluation of RI-URBANS

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

By

UHEL & CSIC

3 July 2025

RI-URBANS (www.RIURBANS.eu) is supported by the European Commission under the Horizon 2020 – Research and Innovation Framework Programme, H2020-GD-2020, Grant Agreement number: 101036245

Milestone M46 (M8.2): Questionnaire for Final Impact Evaluation of RI-URBANS

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Work package (WP)	WP8 Management and coordination
Milestone	M46 (M8.2)
Lead beneficiary	UHEL
Means of verification	Questionnaire completed, results publicly available
Estimated delivery deadline	M46 (31/07/2025)
Actual delivery deadline	03/07/2025
Version	Final
Reviewed by	WP8 leaders and coordinators
Accepted by	RI-URBANS Project Coordination Team
Comments	This report offers outcomes/ results of the RI-URBANS web-based questionnaire for stakeholders with focus on the RI-URBANS Service Tools (STs) developed and demonstrated/ applied protocols/ methodologies/ approaches and their impact on enhancement of observations in European urban areas.

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Table of Contents

1. ABOUT THIS DOCUMENT 1

2. RI-URBANS QUESTIONNAIRE FOR STAKEHOLDERS 1

2.1 List of Basic Questions 1
2.2 List of Questions Related to the RI-URBANS Service Tools 2

3. OUTCOMES/ RESULTS OF THE QUESTIONNAIRE FOR STAKEHOLDERS 3

3.1 General outlook 3
3.2 Impact of RI-URBANS Service Tools 4
3.3 Suggestions for Increasing/ Improving Impact of Service Tools 8

4. CONCLUDING REMARKS 8

5. ANNEXES 10

5.1 Web-based questionnaire 10
5.2 Summary tables for RI-URBANS developed and demonstrated/applied protocols, methodologies, approaches 14

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1. About this document

This report "*Questionnaire for Final Impact Evaluation of RI-URBANS*" (M46, M8.2) provides outcomes/ results of the RI-URBANS web-based questionnaire elaborated for stakeholders with focus on the RI-URBANS Service Tools (STs) developed and demonstrated/ applied protocols/ methodologies/ approaches and their impact on enhancement of observations in European urban areas.

The impact of RI-URBANS is monitored based on Key Performance Indicators (KPIs), including the number of datasets on novel air quality (AQ) metric, number of cities – Air Quality Monitoring Networks (AQMNs) and pilots engaged, number of STs provided, number of EU and national administrators and agencies involved, the data collection/management operating at the end of the project in a Research Infrastructures (RIs)-AQMNs interoperable and sustainable way. Note that results from this report will be also utilised in the RI-URBANS D8.5 "*Final Report on RI-URBANS Impacts*".

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 Milestone M46 (M8.2). This document can be downloaded at https://riurbans.eu/work-package-8/#milestones-wp8.

2. RI-URBANS Questionnaire for Stakeholders

In order to evaluate final impact of the RI-URBANS project developed STs, a questionnaire has been elaborated for stakeholders. RI-URBANS provides 16 advanced STs to meet the demands of new and complex urban AQ scenarios and enhance the analysis of AQ. A Service Tool is any tool that RI-URBANS has reviewed, tested, and recommended for urban areas. These tools can be used to assess AQ in accordance with RI-URBANS' advanced AQ monitoring recommendations. These recommendations include protocols for measuring advanced AQ parameters (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.

There are 13 questions (Q#) in the elaborated web-based questionnaire for stakeholders, started from the basic ones (see in section 2.1) and complemented with questions related to the RI-URBANS STs (see in Section 2.2). See Annex 5.1 in this report for views/snapshots of the web-based questionnaire.

2.1 List of Basic Questions

Q1: Are you aware of the RI-URBANS project (https://riurbans.eu)?

| options to select are "YES" or "NO"

In case "NO" – a person is leaving the questionnaire

In case "YES" – a person is invited to answer on Q2

Q2: In your opinion, did the RI-URBANS contribute to support the elaboration and implementation of new Air Quality Directive as far as it concerns new air pollutants?

| options to select are "YES" or "NO"

Q3: How you define yourself (please, select option(s))?

□ Directly involved in official air quality monitoring

□ From the international organization (e.g. EC, EEA, WHO, etc.)

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□ Industry

□ Policy- and decision-makers

□ Civil society (e.g. NGOs)

□ Scientific community

□ Others

(please, write in box/ enter your answer)

Q4: What is the country of your residence?

(please, write in box/ enter your answer)

2.2 List of Questions Related to the RI-URBANS Service Tools

Q5: Do you know what are the RI-URBANS Service Tools (STs)?

| options to select are "YES" or "NO"

Q6: RI-URBANS developed and demonstrated/ applied protocols for the measurement of novel air quality pollutants have significant impact on enhancement of air quality observations in European urban areas

Scale: strongly agree | agree | neither agree nor disagree | disagree | strongly disagree | no opinion

ST1: Ultrafine (=nano)-Particle Number Size Distributions (UFP-PNSD)

ST2: Black Carbon (BC)

ST3: Offline and Online particulate matter (PM) speciation

ST4: Oxidative potential (OP) of particulate matter (PM)

ST5: Volatile Organic Compounds (VOCs)

ST6: Ammonia (NH_3)

Q7: RI-URBANS developed and demonstrated/ applied methodologies for vertical profiles of pollutants and meteorology have significant impact

Scale: strongly agree | agree | neither agree nor disagree | disagree | strongly disagree | no opinion

ST7: Measurements of boundary level height

ST8: Measurements of vertical profiles of aerosols

ST9: Measurements of IAGOS vertical profiles by commercial aircrafts

Q8: RI-URBANS developed and demonstrated/ applied methodologies for source apportionment receptor modelling have significant impact

Scale: strongly agree | agree | neither agree nor disagree | disagree | strongly disagree | no opinion

ST10: Source apportionment of PM based on offline and online PM speciation

ST11: Source apportionment of UFP, BC, OP and VOCs using receptor modelling

Q9: RI-URBANS developed and demonstrated/applied methodologies for urban mapping of novel air quality pollutants have significant impact

Scale: strongly agree | agree | neither agree nor disagree | disagree | strongly disagree | no opinion

ST12: Deterministic urban modelling of fine PM and PNC

ST13: Mapping ultrafine particles and citizen science

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Q10: RI-URBANS developed and demonstrated/applied methodologies for evaluating the health effects of novel air quality pollutants have significant impact

Scale: strongly agree | agree | neither agree nor disagree | disagree | strongly disagree | no opinion

ST14: Evaluation of health effects of novel AQ pollutants

Q11: RI-URBANS developed and demonstrated/applied approaches for obtaining emission inventories for novel air quality pollutants have significant impact

Scale: strongly agree | agree | neither agree nor disagree | disagree | strongly disagree | no opinion

ST15: First UFP-PNSD and non-exhaust vehicle PM EU emission

Q12: RI-URBANS developed and demonstrated/applied modelling methodologies for novel air quality pollutants have significant impact

Scale: strongly agree | agree | neither agree nor disagree | disagree | strongly disagree | no opinion

ST16: UFP-PNSD multiscale modelling

Q13: How do you think we can increase/ improve impact of these Service Tools?

(please, write your suggestion in box/ enter your answer)

3. Outcomes/ Results of the Questionnaire for Stakeholders

3.1 General outlook

In total, 100 persons answered on the questionnaire. Among all these participants/persons: (1) 34 (29%) defined themselves as directly involved in official air quality monitoring; (2) 3 (3%) - as from the international organization; 5 (4%) as from industry; (3) 2(2%) - as from policy- and decision-makers; (4) 2 (2%) - as from civil society; (5) 69 (58%) – as from scientific community; and (6) 3 (3%) - as other (in particular from laboratories and public) as seen in Figure 1. From all participants, the majority (19 persons) was from Italy, follow by 16 from Spain, and 14 from Poland. The rest of people rsponded to the questionnaire were from Belguim, Denmark, Finland, France, Germany, Greece, Lithunia, Netherlands, Norway, Portugal, Romania, Slovenia, Sweden, Switzerland, Turkey, United kingdom. The majority 98 (98%) of participants agreed (see Figure 2) that the RI-URBANS project contributed to support the elaboration and implementation of new Air Quality Directive as far as it concerns new air pollutants.

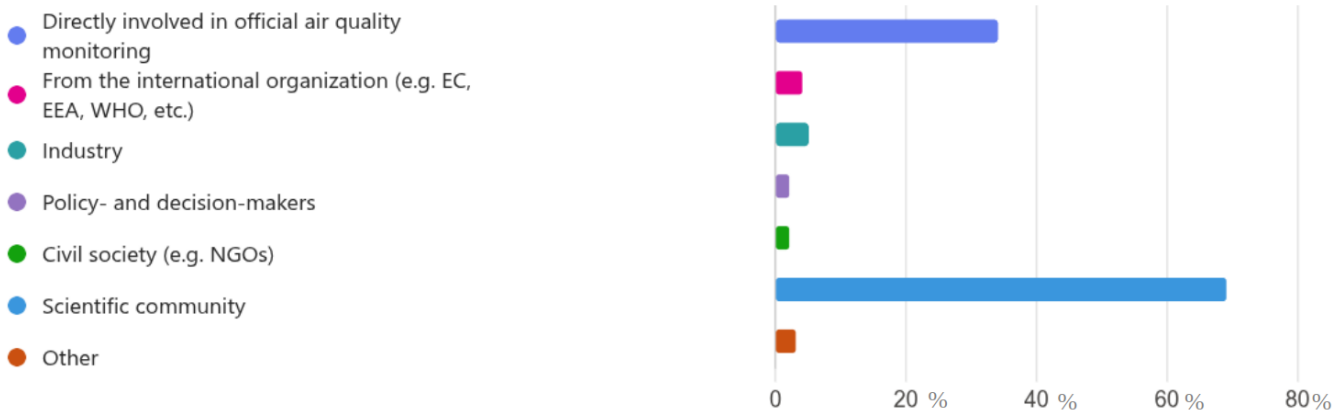

Figure 1: *Self-identified stakeholder affiliations of questionnaire participants, shown as a bar chart showing the percentage distribution across the following categories: (1) Directly involved in official air quality monitoring, (2) International organisations (e.g., EC, EEA, WHO), (3) Industry, (4) Policy- and decision-makers, (5) Civil society (e.g., NGOs), (6) Scientific community, and (7) Others.*

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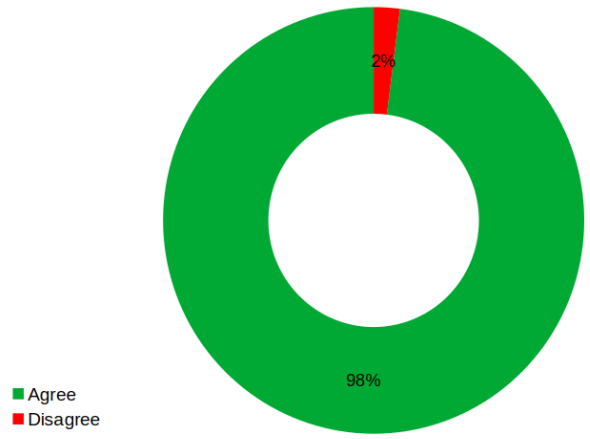

***Figure 2**: Stakeholder agreement/disagreement on the contribution of the RI-URBANS project, presented as a pie chart showing the percentage of participants who agreed or disagreed that the project contributed to the development and implementation of the new EU Air Quality Directive, particularly in relation to new air pollutants.*

3.2 Impact of RI-URBANS Service Tools

The data collected are summarised in two tables in Annex 5.2, showing both absolute numbers and percentages for all sixteen Service Tasks (STs). These tables reflect the RI-URBANS STs' developed and demonstrated/applied protocols, methodologies, approaches, and their overall impact on enhancing air quality observations in European urban areas.

Overall, across all 16 STs, the majority of participants responded very positively: 29% “strongly agree” and 39% “agree” that RI-URBANS has had a significant impact (see Figure 3).

When averaging across all responses to the question on RI-URBANS STs' impact (using the scale: *strongly agree*, *agree*, *neither agree nor disagree*, *disagree*, *strongly disagree*, *no opinion*), the results were as follows: 29% *strongly agree*, 39% *agree*, 9% *neither agree nor disagree*, 1% *disagree*, 1% *strongly disagree*, and 22% *no opinion* (Figure 3).

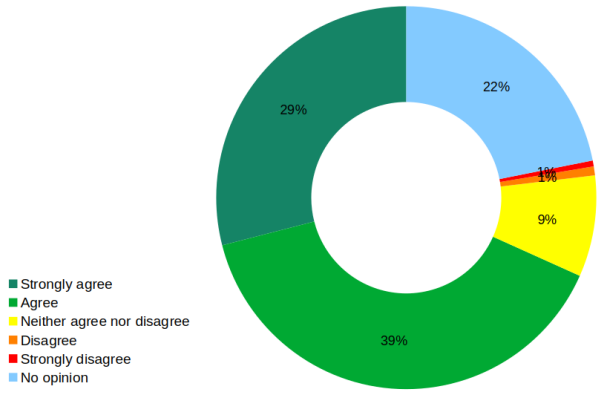

***Figure 3**: Overall averaged perceived impact of RI-URBANS Service Tools (STs), presented as a pie chart. The chart displays the percentage distribution of responses across six categories—“strongly agree”, “agree”, “neither agree nor disagree”, “disagree”, “strongly disagree”, and “no opinion”—averaged over all 16 STs.*

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As seen in Figure 4 and based on the data from Annex 5.2, a detailed breakdown of the perceived impact of each of the 16 Service Tools (STs) developed and demonstrated under RI-URBANS project is presented below. The analysis is based on the percentage of respondents selecting each category on a 6-point scale ranging from *strongly agree* to *no opinion*. The findings reflect the level of agreement with the statement that each ST has had a significant impact on enhancing air quality observations in European urban areas.

- **ST1** received strong positive feedback, with 83% of participants agreeing (42% *strongly agree*, 41% *agree*), and minimal disagreement (1% each for *disagree* and *neither agree nor disagree*). Only 15% expressed *no opinion*.
- **ST2** was similarly well received, with 84% agreement (46% *strongly agree*, 38% *agree*) and very low neutral or negative response. *No opinion* was given by 13%.
- **ST3** had 74% positive responses (33% *strongly agree*, 41% *agree*), but a notable 9% responded neutrally. *No opinion* was indicated by 17%.
- **ST4** saw 73% agreement (40% *strongly agree*, 33% *agree*) and a small proportion of disagreement (2% *disagree*, 1% *strongly disagree*), with 20% offering *no opinion*.
- **ST5** had 69% agreement (31% *strongly agree*, 38% *agree*), with 8% neutral and 22% *no opinion*; disagreement was minimal.
- **ST6** showed slightly lower agreement at 65% (30% *strongly agree*, 35% *agree*), with 11% neutral and 1% *strongly disagree*. *No opinion* was at 23%.
- **ST7** received 62% positive responses (21% *strongly agree*, 41% *agree*), but had high *no opinion* (28%) and 9% neutral.
- **ST8** had similar results, with 61% agreement (22% *strongly agree*, 39% *agree*), 11% neutral, and 27% *no opinion*.
- **ST9** received the lowest agreement, with only 47% of participants expressing agreement (17% *strongly agree*, 30% *agree*). A significant 17% were neutral, and 35% selected *no opinion*.
- **ST10** had a notably low *agree* rating at only 4%, though 28% *strongly agreed*. Still, *no opinion* responses were high (19%), and 6% were neutral.
- **ST11** rebounded with 73% positive feedback (29% *strongly agree*, 44% *agree*), and relatively low levels of *no opinion* (19%).
- **ST12** also performed well, with 69% agreement (26% *strongly agree*, 43% *agree*), and modest disagreement and *no opinion* rates (21%).
- **ST13** had similar results to ST12, with 67% agreement (24% *strongly agree*, 43% *agree*) and moderate *no opinion* (21%).
- **ST14** had 66% agreement (25% *strongly agree*, 41% *agree*), though 15% were neutral and 17% gave *no opinion*.
- **ST15** showed 61% agreement (26% *strongly agree*, 35% *agree*), and 27% *no opinion*.
- **ST16** recorded 65% agreement (24% *strongly agree*, 41% *agree*), with 8% neutral and 26% *no opinion*.

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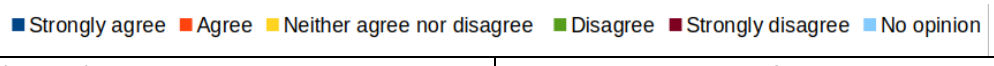
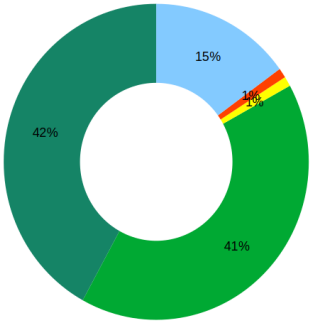
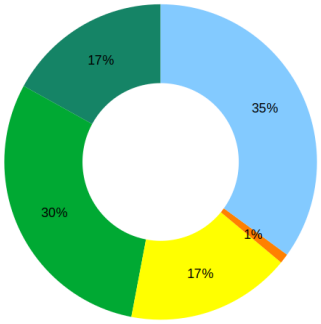


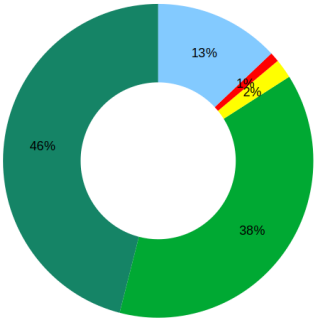
ST1: Ultrafine (=nano)-Particle Number Size Distributions (UFP-PNSD)



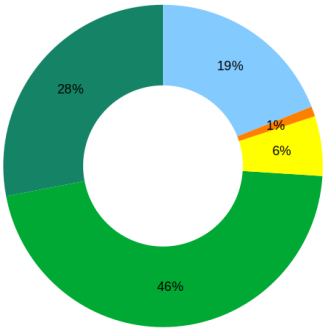
ST9: Measurements of IAGOS vertical profiles by commercial aircrafts



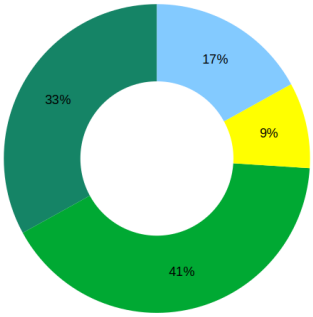
ST2: Black Carbon (BC)



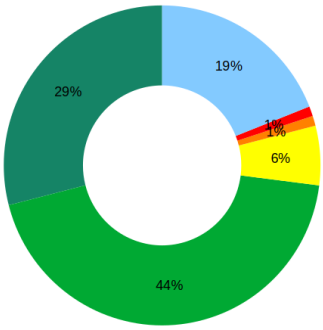
ST10: Source apportionment of PM based on offline and online PM speciation



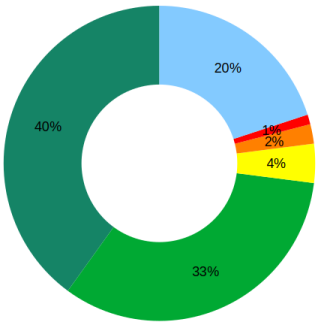
ST3: Offline and Online particulate matter (PM) speciation



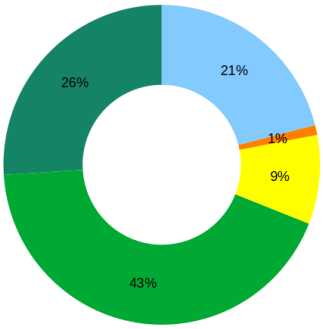
ST11: Source apportionment of UFP, BC, OP and VOCs using receptor modelling



ST4: Oxidative potential (OP) of particulate matter (PM)



ST12: Deterministic urban modelling of fine PM and PNC



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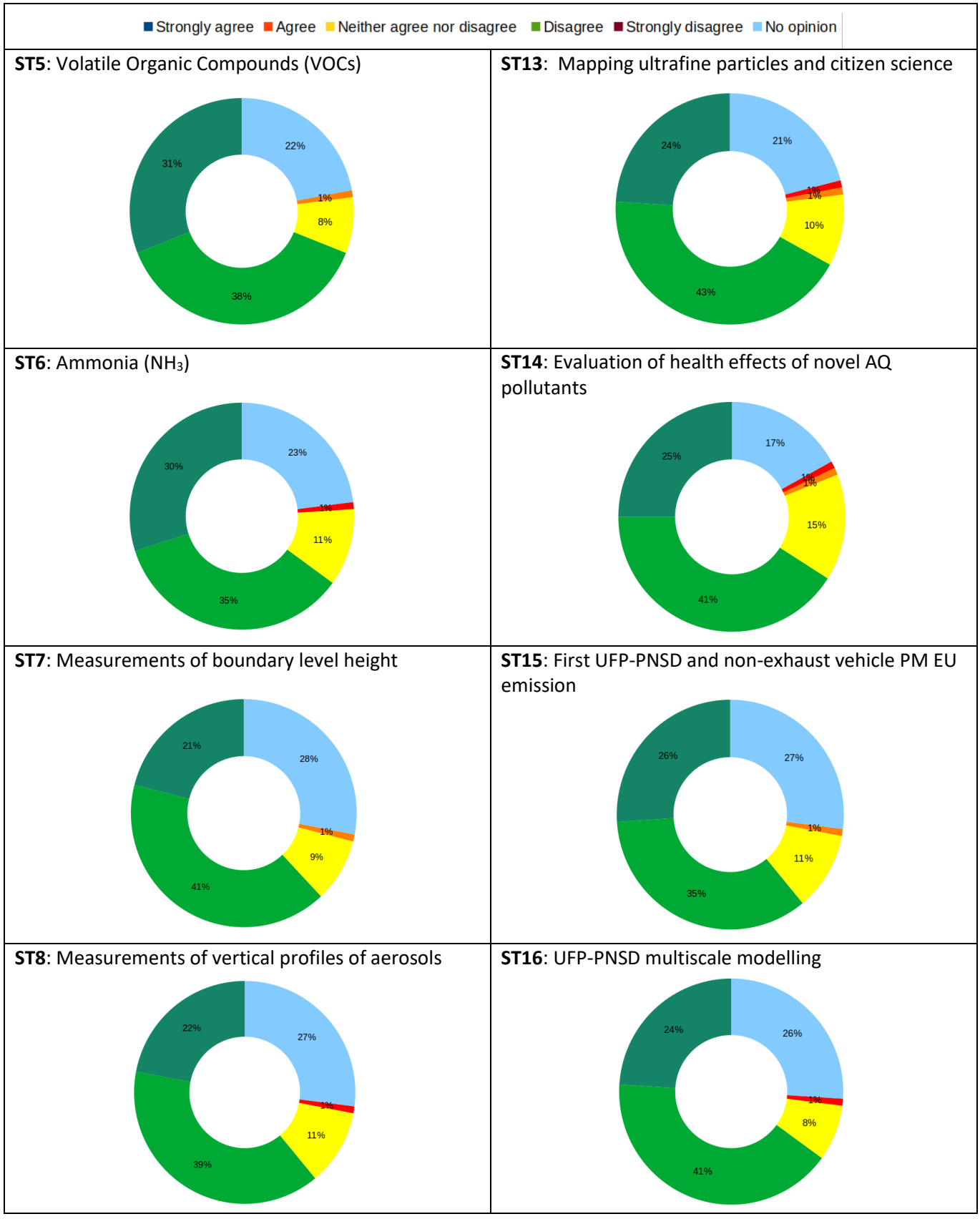

***Figure 4**: Estimated impact of RI-URBANS across each of the 16 individual Service Tools (STs), based on participant responses. The results are displayed as pie charts, representing the percentage distribution across six response categories: "strongly agree", "agree", "neither agree nor disagree", "disagree", "strongly disagree", and "no opinion".*

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3.3 Suggestions for Increasing/ Improving Impact of Service Tools

For the final Q13 "*How do you think we can increase/ improve impact of these Service Tools?*" the following grouped and summarized suggestions were proposed:

(1) "*continue dissemination and promotion of Service Tools widely & may be? make video for each ST as it was done for the RI-URBANS project overall video*"

(2) "*RI-URBANS expert groups should support, with ACTRIS and EMEP, to the AQMNs in buiding the EU network of AQ supersites*"

(3) "*specific trainings / recorded contents to explains the tools would be nice*"

(4) "*communicate it in different scientific events and through EU organisations like AQUILA, FAIRMODE,…*"

(5) "*Wider engagement with the scientific community outside the RI-URBANS consortium.*"

(6) "*Having them referenced in the COM guidance, will greatly contribute to having impact, and thus remain relevant after project ends. For them to remain relevant also in later years, they should be updated/revised when methods develop further. Or modified to become part of ACTRIS or other formal body guidance, for e.g. PM OP and NH3. For now, they are a great help for networks and scientists implementing the new AQD.*"

(7) "*webinars, executive summury, summury flowchart for each ST, etc*"

(8) "*Disseminating these services tools and making them available to the entire scientific community.*"

(9) "*Circulate information at national and international conferences and through technical news media.*"

(10)"*Dedicate specific sessions for each WP/ST PI to present their main results. They would allow for more in-depth presentations and encourage focused feedbacks and discussions.*"

(11) "*Link scientific groups with AQMNs to implement supersites*"

(12) "*Most important is that with the end of the project people still get access to the tools via RI-Urbans website! New directive is in implementations and STs are highly useful for monitoring agencies. The methodologies are also very interesting for the scientists and make possible harmonization on a global scale, so the RI-Urbans related talks should be presented on conferences even though project ends*."

(13) "*It is crucial to think how STs are findable and accessible after the end of RI-Urbans (via ACTRIS?).*"

(14) "*The project should involve more partners from other European countries, then the models could be even better adapted*."

4. Concluding Remarks

The sakeholder quesnionnaire conducted as part of the RI_URBANS final impact evaluation. In total the quesnionnaire completed by 100 participants from across Europe, provides strong evidence of the perceived impact and relevance of the 16 developed Service Tools (STs) for enhancing urban air quality observations. The respondent group was diverse, with 58% from the scientific community, 29% directly involved in official air quality monitoring, and the remainder representing international organisations, industry, policy and decision-making bodies, civil society, and other sectors such as laboratories and the public. Geographically, the largest number of responses came from Italy, Spain, and Poland, with wide representation across 19 countries.

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The results show a high level of support for the RI-URBANS initiative. A remarkable 98% of respondents agreed that the project contributed significantly to the development and implementation of the new EU Air Quality Directive, particularly regarding new pollutants. Individual STs were also positively evaluated: the majority of tools received over 65% combined positive responses (*strongly agree* and *agree*), with ST1 and ST2 receiving over 80%.

Overall, the questionnaire confirms that RI-URBANS has successfully addressed key air quality monitoring needs through robust scientific and operational tools. These findings will support Key Performance Indicators (KPIs) related to stakeholder engagement, tool uptake, and sustainable data integration, and will inform the broader impact assessment in Deliverable D8.5.

Finally, participants provided constructive suggestions for further increasing and improving the impact of the STs, which will serve as a valuable resource for future development and uptake efforts.

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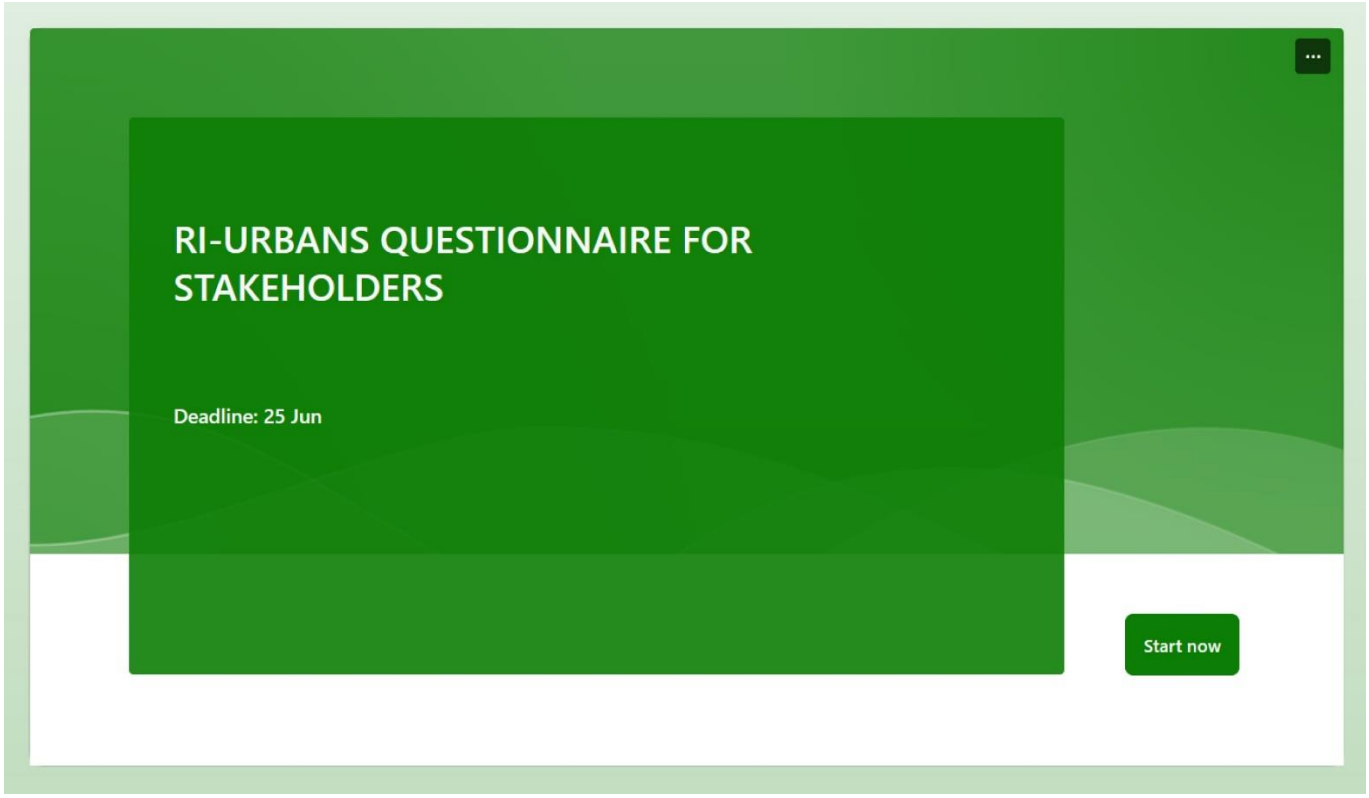
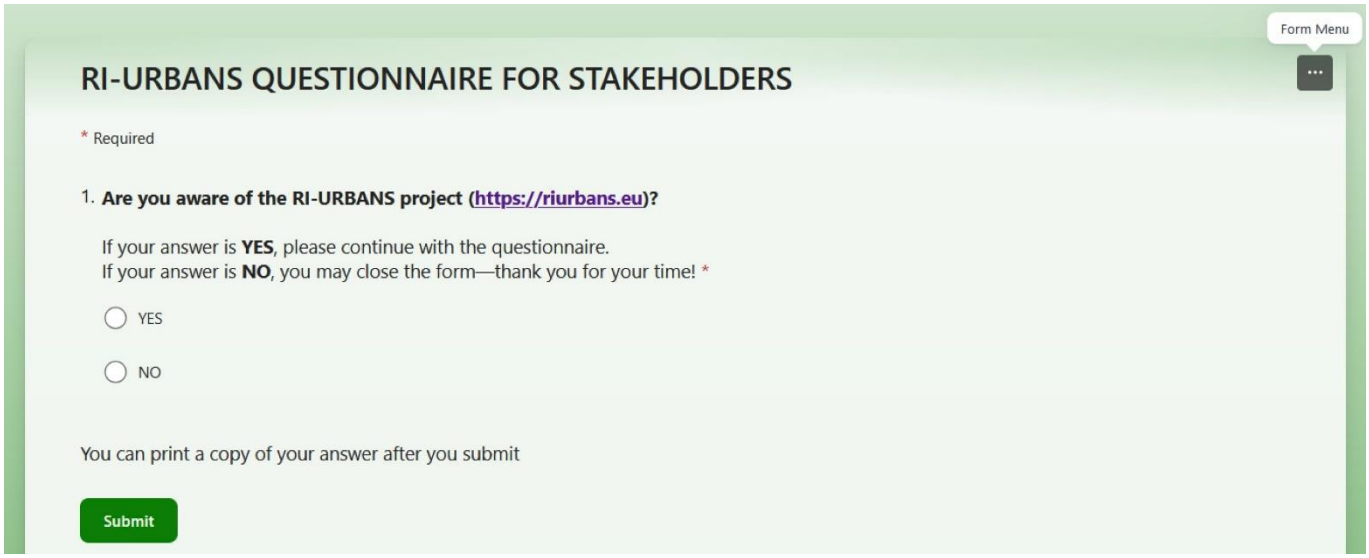
5. Annexes

5.1 Web-based questionnaire





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2. **In your opinion, did the RI-URBANS contribute to support the elaboration and implementation of new Air Quality Directive as far as it concerns new air pollutants?** *

- ◯ YES
- ◯ NO

3. **How you define yourself (please, select option(s))?** *

- ☐ Directly involved in official air quality monitoring
- ☐ From the international organization (e.g. EC, EEA, WHO, etc.)
- ☐ Industry
- ☐ Policy- and decision-makers
- ☐ Civil society (e.g. NGOs)
- ☐ Scientific community
- ☐ Other

4. **What is the country of your residence? (Please, enter your answer)** *

Enter your answer

5. **Do you know what are the RI-URBANS Service Tools (STs)?** *

- ◯ YES
- ◯ NO

6. **RI-URBANS developed and demonstrated/ applied protocols for the measurement of novel air quality pollutants have significant impact on enhancement of air quality observations in European urban areas** *

	Strongly agree	Agree	Neither agree nor disagree	Disagree	Strongly disagree	No opinion
ST1: Ultrafine (=nano)-Particle Number Size Distributions (UFP-PNSD)	◯	◯	◯	◯	◯	◯
ST2: Black Carbon (BC)	◯	◯	◯	◯	◯	◯
ST3: Offline and Online particulate matter (PM) speciation	◯	◯	◯	◯	◯	◯
ST4: Oxidative potential (OP) of particulate matter (PM)	◯	◯	◯	◯	◯	◯
ST5: Volatile Organic Compounds (VOCs)	◯	◯	◯	◯	◯	◯
ST6: Ammonia (NH3)	◯	◯	◯	◯	◯	◯

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7. **RI-URBANS developed and demonstrated/ applied methodologies for vertical profiles of pollutants and meteorology have significant impact** *

	Strongly agree	Agree	Neither agree nor disagree	Disagree	Strongly disagree	No opinion
ST7: Measurements of boundary level height	○	○	○	○	○	○
ST8: Measurements of vertical profiles of aerosols	○	○	○	○	○	○
ST9: Measurements of IAGOS vertical profiles by commercial aircrafts	○	○	○	○	○	○

8. **RI-URBANS developed and demonstrated/ applied methodologies for source apportionment receptor modelling have significant impact** *

	Strongly agree	Agree	Neither agree nor disagree	Disagree	Strongly disagree	No opinion
ST10: Source apportionment of PM based on offline and online PM speciation	○	○	○	○	○	○
ST11: Source apportionment of UFP, BC, OP and VOCs using receptor modelling	○	○	○	○	○	○

9. **RI-URBANS developed and demonstrated/applied methodologies for urban mapping of novel air quality pollutants have significant impact** *

	Strongly agree	Agree	Neither agree nor disagree	Disagree	Strongly disagree	No opinion
ST12: Deterministic urban modelling of fine PM and PNC	○	○	○	○	○	○
ST13: Mapping ultrafine particles and citizen science	○	○	○	○	○	○

10. **RI-URBANS developed and demonstrated/applied methodologies for evaluating the health effects of novel air quality pollutants have significant impact** *

	Strongly agree	Agree	Neither agree nor disagree	Disagree	Strongly disagree	No opinion
ST14: Evaluation of health effects of novel AQ pollutants	○	○	○	○	○	○

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11. **RI-URBANS developed and demonstrated/applied approaches for obtaining emission inventories for novel air quality pollutants have significant impact** *

	Strongly agree	Agree	Neither agree nor disagree	Disagree	Strongly disagree	No opinion
ST15: First UFP-PNSD and non-exhaust vehicle PM EU emission	○	○	○	○	○	○

12. **RI-URBANS developed and demonstrated/applied modelling methodologies for novel air quality pollutants have significant impact** *

	Strongly agree	Agree	Neither agree nor disagree	Disagree	Strongly disagree	No opinion
ST16: UFP-PNSD multiscale modelling	○	○	○	○	○	○

13. **How do you think we can increase/ improve impact of these Service Tools? (write your suggestions in the box below)**

Enter your answer

You can print a copy of your answer after you submit

Submit

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5.2 Summary tables for RI-URBANS developed and demonstrated/applied protocols, methodologies, approaches

	Scale (values are given in numbers, # of persons)					
Service Tool (ST)	**strongly agree**	**agree**	**neither agree nor disagree**	**disagree**	**strongly disagree**	**no opinion**
ST1	42	41	1	1	0	15
ST2	46	38	2	0	1	13
ST3	33	41	9	0	0	17
ST4	40	33	4	2	1	20
ST5	31	38	8	1	0	22
ST6	30	35	11	0	1	23
ST7	21	41	9	1	0	28
ST8	22	39	11	0	1	27
ST9	17	30	17	1	0	35
ST10	28	4	6	1	0	19
ST11	29	44	6	1	1	19
ST12	26	43	9	1	0	21
ST13	24	43	10	1	1	21
ST14	25	41	15	1	1	17
ST15	26	35	11	1	0	27
ST16	24	41	8	0	1	26

	Scale (values are given in percentage, % of persons)					
Service Tool (ST)	**strongly agree**	**agree**	**neither agree nor disagree**	**disagree**	**strongly disagree**	**no opinion**
ST1	42	41	1	1	0	15
ST2	46	38	2	0	1	13
ST3	33	41	9	0	0	17
ST4	40	33	4	2	1	20
ST5	31	38	8	1	0	22
ST6	30	35	11	0	1	23
ST7	21	41	9	1	0	28
ST8	22	39	11	0	1	27
ST9	17	30	17	1	0	35
ST10	28	4	6	1	0	19
ST11	29	44	6	1	1	19
ST12	26	43	9	1	0	21
ST13	24	43	10	1	1	21
ST14	25	41	15	1	1	17
ST15	26	35	11	1	0	27
ST16	24	41	8	0	1	26

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