

RI URBANS

RI-URBANS

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

By

CSIC & UHEL



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Deliverable D54 (D7.5): RI-URBANS project legacy – final video

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Comments	This document presents the aim of the final video titled “RI-URBANS Towards cleaner, healthier urban environments”, which was elaborated to promote the results of RI-URBANS.

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1. About this document

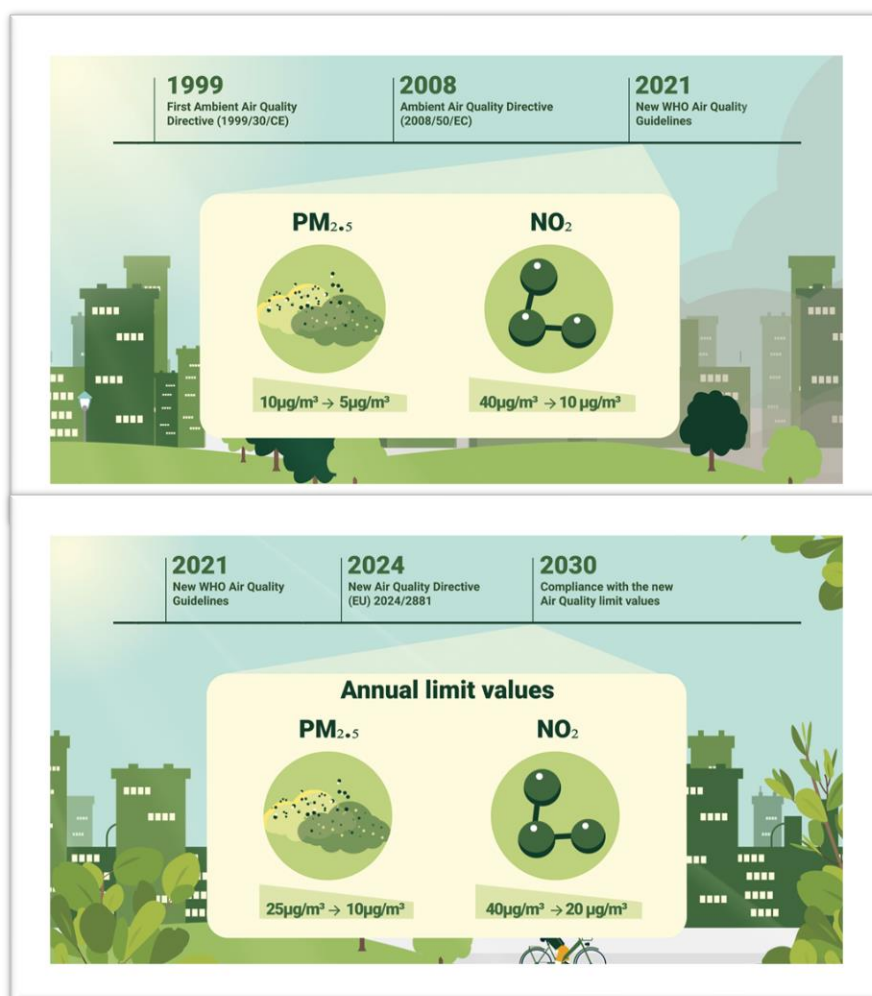
This document describes the developed last video to promote the final results of RI-URBANS. The video presents the RI-URBANS project, highlighting the effort to impact in the revision of the new European Air Quality Directive. The aim of this video is to show what are the 16 Service Tools for advanced air quality assessment that have been produced by RI-URBANS, how these have been co-designed with stakeholders and how these have influenced the elaboration and the implementation of the new Air Quality Directive (EU) 2024/2881, how the results are being used by the European Member States and what is the added value of implementing these.

This is a public document that will be distributed to all the RI-URBANS partners for their use and submitted to the European Commission as RI-URBANS deliverable D54 (D7.5). This document can be downloaded at <https://riurbans.eu/work-package-7/#deliverables-wp7>.

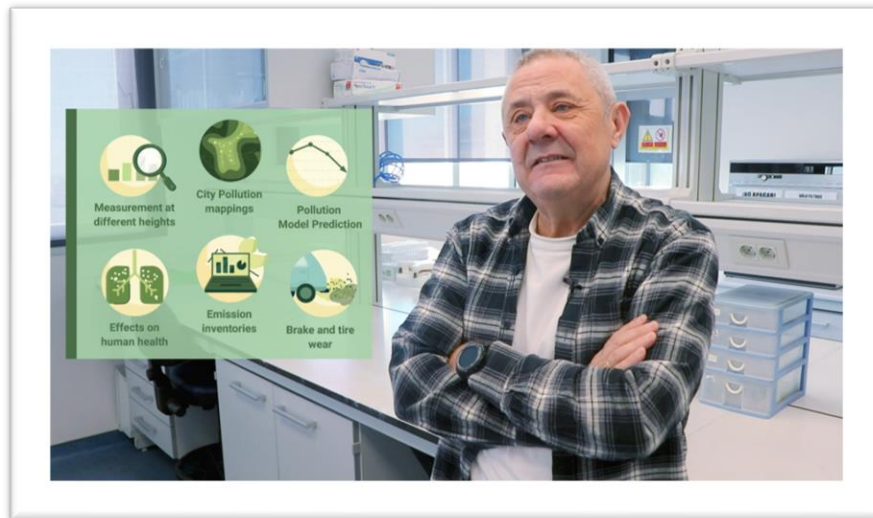
2. Description of the deliverable

2.1 Contents of the video

The final RI-URBANS video starts with an overview on how the European air quality policies have prompted in the abatement of air pollution.



Then it shows how RI-URBANS has been working to provide advanced measurements and assessment tools of air quality across Europe.

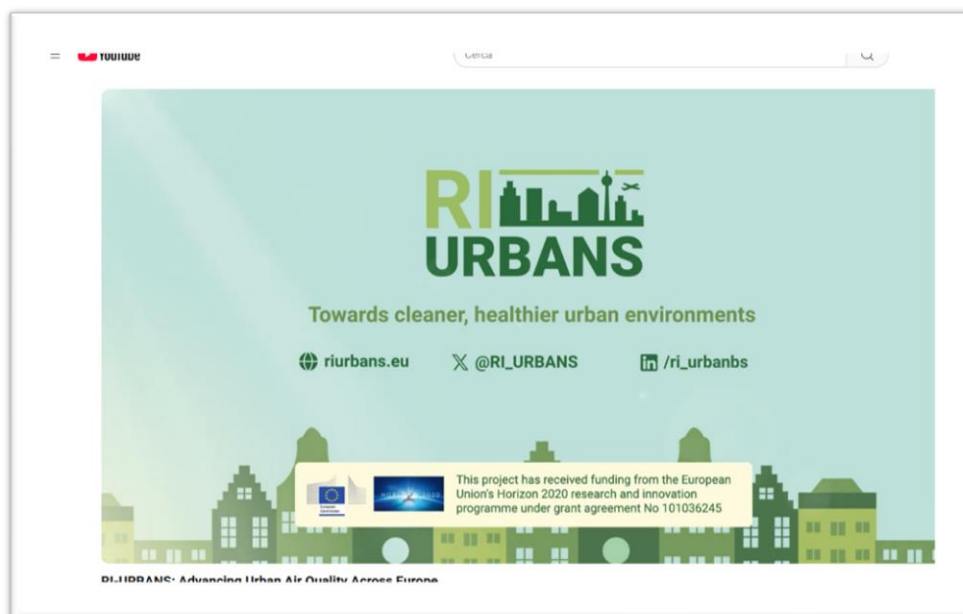


The coordinators of the RI-URBANS project, Professor Xavier Querol (CSIC) and Professor Tuukka Petäjä (UHEL) are taking part in this final video in order to emphasize:

- The 16 Service Tools developed by RI-URBANS to understand how air quality can be better assessed and improved.
- The 9 European pilot cities where these Service Tools have been tested.
- How RI-URBANS influenced in the development and implementation of the new Air Quality Directive (EU) 2024/2881.
- How the results have been disseminated.
- The involvement of multiple stakeholders across Europe, such as the European Network of National Air Quality Reference Laboratories (AQUILA), the Aerosol, Clouds and Trace Gases Research Infrastructure (ACTRIS) and the European Environmental Agency (EEA).



The deliverable D54 (D7.5) RI-URBANS project legacy – final video is available publicly on the [RI-URBANS website](#) and [ACTRIS youtube](#).



2.2 Script of the video

RI-URBANS

Voice-Over:

For the past 20 years, European air quality policies have managed to reduce the levels of pollution in the air we breathe. Based on new scientific evidence, the World Health Organization set stricter guidelines to better protect our health. In response, the European Union's Air Quality Directive has enforced tougher pollution limits for 2030 to align with these guidelines.

At RI-URBANS, we are working to provide advanced measurements and assessments of air quality across Europe. By developing advanced service tools that enhance the way pollution is monitored and reduced, we support stakeholders to meet the new challenging regulatory requirements and contribute to cleaner environments for everyone.

Expert interview:

How does RI-URBANS contribute to offer innovative tools for an advanced air quality assessment to support policy decisions?

We wanted to make sure that several new air pollutants were being tracked and recommended looking at sources of pollution such as traffic, homes, industries, ports and airports. So, we worked alongside policymakers to include these pollutants to the new Air Quality Directive.

We then proposed specific service tools to measure in a harmonized way all the new pollutants, and to help to implement these new measurements.

In addition, we have developed tools to understand how air quality can be better assessed and improved. These included new pollutants such as ultrafine particles, oxidative potential and black carbon, measurements at different

heights, city pollution mappings, models to predict pollution, the evaluation of the effects on human health and the first emission inventory of ultrafine particles and brake and tire wear.

Voice-Over:

The 16 Service Tools developed by RI-URBANS have been co-designed with stakeholders and tested in nine pilot European cities. They have been developed to be flexible, allowing them to quickly adapt to Europe's diverse and dynamic urban spaces.

The results and service tools have been shared across Europe, with key governmental organizations, inter-governmental organizations, national and local stakeholders and, of course, the scientific community. By doing so, we're promoting a collaborative "quadruple helix" approach to drive action and improve air quality.

Expert interview:

RI-URBANS has generated a great number of detailed reports contributing to showcase the added value of implementing the advanced monitoring tools. How has it been also a source of collaboration between partners, industry and academia?

The outcomes resulting from the project have allowed us to collaborate with multiple stakeholders from multiple sectors across Europe.

Numerous stakeholder meetings were organized. Among these, we've co-organized training events for the air quality stakeholders in collaboration with AQUILA (The European Network of National Air Quality Reference Laboratories), ACTRIS (The Aerosol, Clouds and Trace Gases Research Infrastructure) and the European Environmental Agency. The goal being to present our service tools and the links to the guidance documents.

We received support from AXA Research Fund to publish specific and detailed guidance documents and a synthesis document that showcase the added value of implementing these tools.

Voice-Over:

By analyzing harmonized and advanced air quality data, RI-URBANS tools identify cost-effective pollution abatement strategies. Prioritizing the most harmful components, our approach improves air quality, supports targeted emission reductions, and promotes healthier urban environments across Europe.

RI-URBANS: Connecting expertise, transforming cities, and paving the way towards cleaner, healthier urban environments.

Links to STs, and RI-URBANS homepage

2.3 Story board

RI-URBANS Final Video scienseed



For the past 20 years, European air quality policies have managed to reduce the levels of pollution in the air we breathe.

[Scene 1a - Vemos una ciudad con la atmósfera contaminada. Se dibuja una línea de tiempo que recorre las Air Quality Policies (AQP) de los últimos 20 años. A medida que avanza, la ciudad reduce sus niveles de contaminación.]

Based on new scientific evidence, the World Health Organization set stricter guidelines to better protect our health.

[Scene 1b - Una luz de aumento destaca en detalle la disminución de los indicadores de emisiones contaminantes registrados por las AQP (PM1 y NO2).]



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RI-URBANS Final Video scienseed

In response, the European Union's Air Quality Directive has enforced tougher pollution limits for 2020 to align with these guidelines.

[Scene 1c - La línea de tiempo avanza hasta 2021, y una nueva lupa de aumento muestra los límites establecidos para ese año.]

At RI-URBANS, we are working to provide advanced measurements and assessment of air quality across Europe.

[Scene 2a - La cámara se desliza hacia la derecha haciendo un ligero zoom, mostrando el skyline de la ciudad y sobre ella el logo de RI-URBANS, mientras a cada lado aparecen dos científicos sosteniendo un medidor de CO2 y una tablet con gráficos de resultados.]



3

RI-URBANS Final Video scienseed

By developing advanced service tools that enhance the way pollution is monitored and reduced, we support stakeholders to meet the new challenging regulatory requirements and contribute to cleaner environments for everyone.

[Scene 2b - Sobre el Fondo, se van dibujando progresivamente, de manera sincronizada con la locución, gráficos de monitorización de la contaminación, stakeholders y un paisaje urbano libre de contaminación.]

We wanted to make sure that several new air pollutants were being tracked and recommended looking at sources of pollution such as traffic, homes, industries, ports and airports. So, we worked alongside policymakers to include these pollutants to the new Air Quality Directive.

[Scene 3a - Corte a entrevista. En gráficos: título con nombre y cargo.]



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RI-URBANS Final Video scienseed

We then proposed specific service tools to measure in a harmonized way all the new pollutants, and to help to implement these new measurements.

[Scene 3b -]

In addition, we have developed tools to understand how air quality can be better assessed and improved. These included new pollutants such as ultrafine particles, oxidative potential and black carbon, measurements at different heights, city pollution mappings, models to predict pollution, the evaluation of the effects on human health and the first emission inventory of ultrafine particles and brake and tire wear.

[Scene 3c - En gráficos: iconos de apoyo a la enumeración de herramientas.]



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RI-URBANS Final Video scienseed

[Scene 3c - En gráficos: iconos de apoyo a la enumeración de herramientas.]

[Scene 3d - En gráficos: iconos de apoyo a la enumeración de herramientas.]



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RI-URBANS Final Video scienseed

The 16 Service Tools developed by RI-URBANS have been co-designed with stakeholders and tested in nine pilot European cities.

[Scene 4 - Aparece un mapa de Europa sobre el que se colocan animados los 9 pilot sites.]

They have been developed to be flexible, allowing them to quickly adapt to Europe's diverse and dynamic urban spaces.

[Scene 5 - Tres paneles se deslizan sobre el mapa, mostrando tres ciudades europeas con contaminación de coches, puertos, ...]



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RI-URBANS Final Video scienseed

The results and service tools have been shared across Europe, with key governmental organizations, inter-governmental organizations, national and local stakeholders and, of course, the scientific community.












[Scene 6a - Los paneles se recogen y regresamos al mapa de Europa, donde, en sincronía con la locución, aparecen burbujas con personajes que representan a los grupos mencionados.]

By doing so, we're promoting a collaborative "quadruple helix" approach to drive action and improve air quality.

[Scene 6b - Los personajes desaparecen mientras las burbujas se unen en el centro, formando la "quadruple helix" de colaboración. Flechas emergen del centro de la intersección con los textos: "drive action" y "improve air quality".]



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<p>RI-URBANS Final Video scienseed</p> <p>The outcomes resulting from the project have allowed us to collaborate with multiple stakeholders from multiple sectors across Europe.</p> <p>[Scene 7a - Corte a entrevista. En gráfico: nombre y cargo]</p>  <p>7a</p> <p>Numerous stakeholder meetings were organized. Among these, we've co-organized training events for the air quality stakeholders in collaboration with AQUILA (The European Network of National Air Quality Reference Laboratories), ACTRIS (The Aerosol, Clouds and Trace Gases Research Infrastructure) and the European Environmental Agency. The goal being to present our service tools and the links to the guidance documents.</p> <p>[Scene 7b - En gráfico: logos de las entidades colaboradoras.]</p>  <p>7b</p> <p style="text-align: right;">9</p>	<p>RI-URBANS Final Video scienseed</p> <p>We received support from AXA Research Fund to publish specific and detailed guidance documents and a synthesis document, that showcase the added value of implementing these tools.</p> <p>[Scene 7c - En gráfico: un scroll de las Service Tools y logo de AXA Research Fund]</p>  <p>7c</p> <p>By analyzing harmonized and advanced air quality data, RI-URBANS tools identify cost-effective pollution abatement strategies.</p> <p>[Scene 8a - Un científico examina un panel de control con datos de calidad del aire.]</p>  <p>8a</p> <p style="text-align: right;">10</p>
<p>RI-URBANS Final Video scienseed</p> <p>Prioritizing the most harmful components, our approach improves air quality, supports targeted emission reductions, and promotes healthier urban environments across Europe.</p> <p>[Scene 9a - La cámara se desliza hacia la derecha, donde un personaje analiza un panel con los componentes más dañinos. En sincronía con la locución, aparecen iconos que representan "Improved Air Quality", "Emissions Reductions" y una burbuja con una ciudad para "Healthier Urban Environments".]</p>  <p>9a</p> <p>RI-URBANS: Connecting expertise, transforming cities, and paving the way towards cleaner, healthier urban environments.</p> <p>[Scene 9b - La burbuja se amplía, revelando una ciudad luminosa, libre de coches y contaminación, donde un personaje se desliza en bicicleta, simbolizando un entorno urbano más limpio y saludable.]</p>  <p>9b</p> <p style="text-align: right;">11</p>	<p>RI-URBANS Final Video scienseed</p> <p>[Scene 9b - La cámara se desliza hacia arriba, aparece el logo de RI-URBANS y los links a web y APPS.]</p>  <p>9b</p> <p style="text-align: right;">12</p>
<p>RI-URBANS Final Video scienseed</p> <p>Prioritizing the most harmful components, our approach improves air quality, supports targeted emission reductions, and promotes healthier urban environments across Europe.</p> <p>[Scene 9a - La cámara se desliza hacia la derecha, donde un personaje analiza un panel con los componentes más dañinos. En sincronía con la locución, aparecen iconos que representan "Improved Air Quality", "Emissions Reductions" y una burbuja con una ciudad para "Healthier Urban Environments".]</p>  <p>9a</p> <p>RI-URBANS: Connecting expertise, transforming cities, and paving the way towards cleaner, healthier urban environments.</p> <p>[Scene 9b - La burbuja se amplía, revelando una ciudad luminosa, libre de coches y contaminación, donde un personaje se desliza en bicicleta, simbolizando un entorno urbano más limpio y saludable.]</p>  <p>9b</p> <p style="text-align: right;">11</p>	<p>RI-URBANS Final Video scienseed</p> <p>[Scene 9b - La cámara se desliza hacia arriba, aparece el logo de RI-URBANS y los links a web y APPS.]</p>  <p>9b</p> <p style="text-align: right;">12</p>
<p>RI-URBANS Final Video scienseed</p>  <p style="text-align: right;">13</p>	

3. Extending Impact: Promoting RI-URBANS through Strategic Video Communication

The release of the video will be promoted through RI-URBANS communication channels and amplified by the ACTRIS and IAGOS communications teams. The strength of creating a video lies in its enduring accessibility, ensuring that valuable information remains available well beyond the project's lifetime. By producing this video, we describe the legacy of RI-URBANS and how the project results have, are and will help improving air quality in Europe. Special attention is paid in the co-design of the Service Tools with stakeholders and the use they will do during years.

4. Acknowledgements

The European Commission is acknowledged with the EU logo and the Grant Agreement statement, both in the video and in the video description.

AXA foundation is also acknowledged for its support to publish specific and detailed guidance documents and a synthesis document that showcase the added value of implementing the 16 Service Tools.

