

Deliverable title Activating UIP and UIP handbook

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AQ-WATCH Deliverable

About this document

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1. Abstract /publishable summary

The AQ-WATCH website (https://www.aq-watch.eu) has been created to serve as a portal to all activities related to the project. It will be the main point of information for all partners, and also for a wider community. The roles of the website are the following: It will provide the public image of the project and will serve as the basic online point of reference for the different target groups. It will be the project information source that will present the project's objectives, activities, achievements and the new knowledge related to AQ-WATCH topics of interest. It will also serve as a repository of information on various access layers, making available project resources, documentation, dissemination material, publications and deliverables to the general public, to selected target groups and to project partners. As part of the dissemination and exploitation activities of the project, a **User Interface Platform (UIP)** has been developed to periodically provide information on progress and achievements which can be accessed by all potential users. The UIP can be accessed directly via the web address https://www.aq-watch.eu/uip, and will contain a complete description of the toolkit and its modules that AQ-WATCH is developing, and fact sheets and information for the sectors/market segments that may have interest in the products and services developed. The UIP will be constantly updated and will also be used as a platform for user feedback.

2. Conclusion & Results

The project website is up and running since January 2020 and has been reshaped in October 2020 with a new look and feel and modern design. The UIP pages have been setup in February 2021 and will allow users and stakeholders to investigate further about the products and services being developed by AQ-WATCH.

3. Project objectives

This deliverable contributes directly and indirectly to the achievement of specific objectives indicated in section 1.1 of the Description of the Action:

Specific objectives of the project	Contribution of this deliverable?
[1] To design and produce new global and regional air pollution atlases that include	No
the climatological distribution of chemical pollutants complemented by quantities	
such as the diurnal and seasonal variations, air quality and related health indices,	
premature mortality exceedance frequency, long-term trends, etc.	
[2] To develop software packages with the capability to provide more accurate	No
daily forecasts of air quality at the regional scale including tailored high-resolution	
fire smoke and wind-blown dust forecasts; downscaling of air quality forecasts to	
2 km resolution in urban areas.	
[3] To develop a source apportionment service to mitigate air pollution and hence increase the life expectancy of the population in different regions of the world,	No
with special focus on the role of agricultural sources of air pollution and the	
potentially important effects of fracking operations.	
[4] To develop a new tool-box that will be user-friendly and accessible to decision-	No
makers to evaluate the efficiency of proposed mitigation measures in different	
industrial sectors on the resulting level of air pollutants in three different regions	

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of the world. This will establish the basis for their wider adoption and generalization.	
[5] To co-design, co-produce and co-evaluate for the first time prototype products and services with prime users in three regions of the world chosen for their specific	Yes
level of economic, social end environmental development.	

This deliverable directly contributes to the achievement of specific objectives indicated in the description of the two Work Packages WP7 and WP8.

Objectives of WP7	Relevance in this deliverable?
7.1 Clustering with major EU and international projects and initiatives relevant for the project to guarantee the use of available knowledge (state-of-the-art);	Yes
7.2 Establishing contact with potential international end-users by building a community interested and capable to make the best use of the project results;	Yes
7.3 Providing information and technological briefings to the competent authorities to make them aware of project results;	Yes
7.4 Providing support for standardization activities;	No
7.5 Preparing the AQ-WATCH Plan for Use and Dissemination of Foreground Knowledge;	No
7.6 Develop business cases in the regions of the world of the pilot-cases.	No

Objectives of WP8	Relevance in this deliverable?
8.1 Project management: Facilitating governance and strategic decision-making through project committees, boards, management procedures, and project management tools, performing technical, financial and contract	No
management of the consortium, establishing and maintaining an effective working relationship between AQ-WATCH and the European Commission (EC).	
8.2 Day-to-day scientific and innovation coordination: Carrying out the overall coordination necessary for reaching the scientific and innovation objectives, and elaborating research risk management.	No
8.3 Data management: Establishing data management linked to the Copernicus system (DIAS) at project level, fostering transparency and the promotion of data and meta-data standards, implementing open access data policies.	No
8.4 Implementing the innovation management, support dissemination and communication activities: Coordinating innovation management and monitoring the IPR relevant issues. Supporting WP6 and WP7 to deliver dedicated communication tools and materials, tailored dissemination and communication activities, and promotion of AQ-WATCH Toolkit and marketable products towards stakeholders and customers in several regions of the world outside Europe.	Yes

4. Detailed report on the deliverable

4.1. Objective, scope and functions of the UIP

4.1.1. Objective

The AQ-WATCH UIP (User Interface Platform) is an important step towards the project objective [5], namely, "to co-design, co-produce and co-evaluate for the first time prototype products and services with prime users in three regions of the world chosen for their specific level of economic, social and environmental development." The UIP was created in a way to highlight the products and services developed by the project. The UIP's main objective is defined as a structured means to periodically provide specific information on progress and development which can be accessed by all potential users.

4.1.2. Scope

The long term aim of AQ-WATCH is that the products developed will be used by policymakers, local municipalities, researchers, non-governmental organizations, solar energy providers and many others. The modules have received first feedbacks by the project prime users and have been improved and adapted according to their evaluation. Further dialog and evaluation will improve the conceptual design and usability of the products and services in the future. As the project further develops a range of prototype products/services to help mitigate air pollution and their effects on health and infrastructure, the UIP will enable partners to open dialogue with a wider range of potential users, to better identify their specific needs and to establish if the proposed products/services address their needs. Through the UIP, the capabilities of different modules will be shown, as well as the observational and model data used.

4.1.3. Functions

The UIP will enable interactions that help refine user needs and product capabilities, particularly to stakeholders other than the project prime users. These new stakeholders can be from different market segments or from different regions of the world. To achieve its objective, the UIP is aiming for four outcomes:

- (i) Visibility: Showing the specific features of each module, as well as description of what those modules can offer to specific market segments, the UIP will increase the visibility of the products;
- (ii) Dialogue: Serving as a platform for stakeholders to learn about the products and be in contact with partners and providers of the services;
- (iii) Outreach: Improving knowledge of impacts of air pollution on health and infrastructure by the user community;
- (iv) Feedback: Making easier to provide feedback of products and open to a wider community

4.2. Structure

The UIP pages have been developed under the main AQ-WATCH website, using the same functionalities but with a different menu configuration. The configuration and information available in the UIP will evolve with the development of the products, as well as identification of other users' needs and new market segments that may be interested in AQ-WATCH products.



Figure 1: User Interface Platform landing page

In its initial configuration, the UIP contains four sections: Modules, Sectors, data and Feedback.

4.2.1. Modules

In the "Modules" section (https://www.aq-watch.eu/modules), a full description of each module is available, their functionalities, and geographical coverage. It will also show the value chain in the development of the products as well as the progress and next steps of such development.

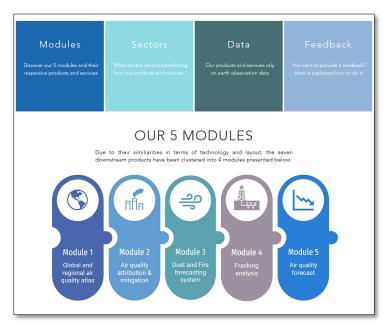


Figure 2: UIP - Modules page

The visitors then access to the detailed presentation of each module providing the following structured information:

- What does this module do? (see Figure 3)
 In this part, the visitor is made aware of the final outputs provided by the module and of its core purpose.
 - Who is this module designed for? (see Figure 4)
 The second part provides information about who the module is made for.
 - Geographical coverage (see Figure 5)
 The geographical coverage of the 5 modules can differ. In this part, the user is informed about the current available geographical coverage of the module.
- <u>Value-Chain (see Figure 6)</u>
 The value-chain shows out the outputs are generated and what are the various steps from the input data to the final results.
- <u>Current progress of the module (see Figure 7)</u>
 The last part provides detailed explanation on how to operate the online interface of the module and presents its layout.

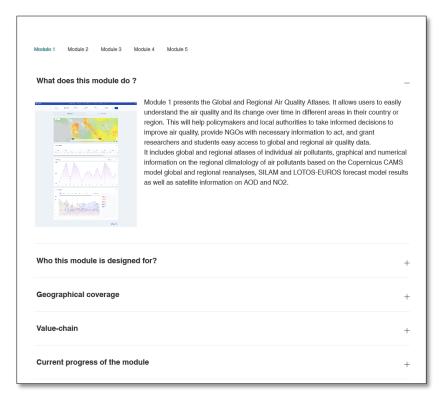


Figure 3: UIP – Modules page "What does this module do?"

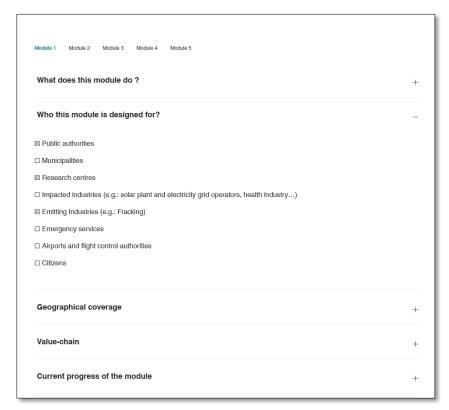


Figure 4: UIP – Modules page "Who this module is designed for?"

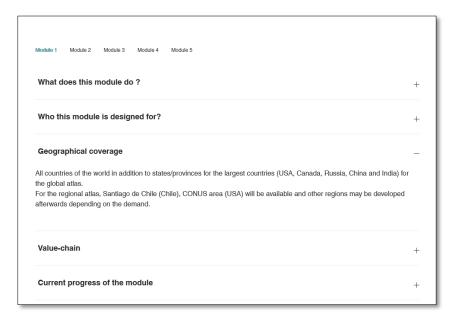


Figure 5: UIP – Modules page "Geographical coverage"

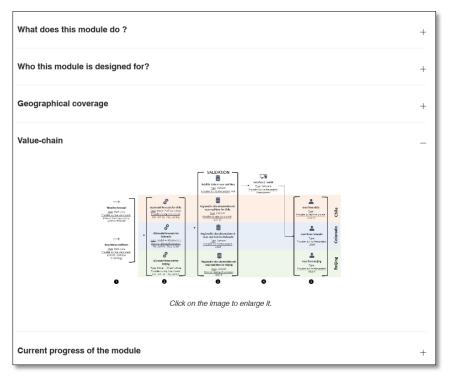


Figure 6: UIP – Modules page "Value-chain"

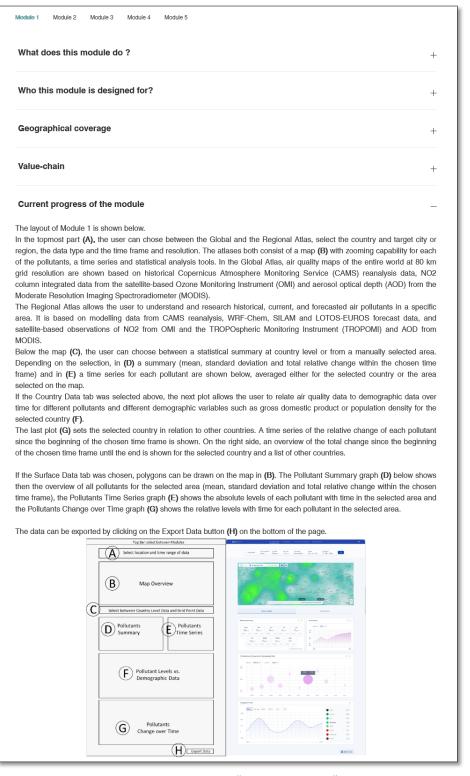


Figure 7: UIP - Modules page "Current progress"

4.2.2. **Sectors**

In the "Sectors" section (https://www.aq-watch.eu/sectors), there is specific explanation for specific market segments on how the products can help and support their activities.



SECTORS

The markets for the AQ-WATCH products are: public authorities, municipalities, research centres, infrastructure operators, industries, emergency services, airports and flight control authorities and the citizens.



Public authorities

Public authorities are traditionally the organizations dealing with air quality issues and they pay more and more attention to air quality products in order to implement the right policies on pollutant emission controls, as well as to provide information and advice to citizens through applications and services freely available to inhabitants of a city or tourists.

Free EO data can be seen as a source of data but even if air quality is an issue to be dealt with at global level, the products and services must address local areas. It implies that high resolution data is needed and this data is most of the time fee-based or it requires

dedicated infrastructure such as modelling or measurement efforts by local authorities themselves.

Public authorities need AQ-WATCH services to:

- Support policy-making related to air quality
- Estimation of policy efficiency and target achievement
- Identification of air pollution peaks and of best measures to adopt or mitigate such situations
 Ability to inform citizens on current, historical and forecasted air quality
- Survey pollutants dispersion over large areas
- Municipalities Research centres Impacted industries **Emitting Industries Emergency services** Airports and flight control authorities Citizens

Figure 8: UIP - Sectors page

4.2.3. Data

In the "Data" section (https://www.aq-watch.eu/dataandtools), there is a full description of the satellite, in situ and model datasets used in the products.

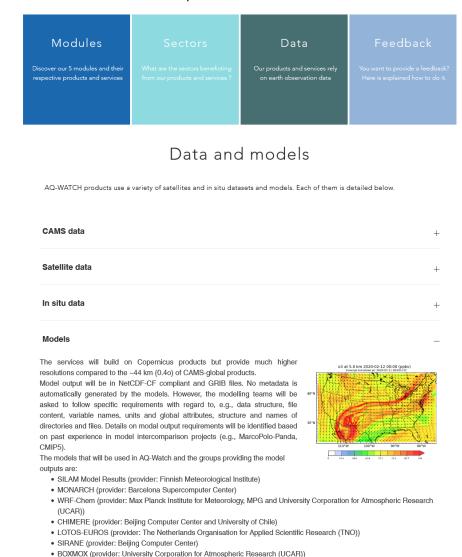


Figure 9: UIP – Data page

4.2.4. Feedback

In the "Feedback" section (https://www.aq-watch.eu/feedback), different ways of providing feedback will be made available. This feedback will be passed onto the product developers and discussed by all AQ-WATCH partners.

4.3. UIP Handbook

For the current version of the UIP, it is not necessary for a handbook to be produced given that at this stage the main objective of the UIP is to highlight the products developed by AQ-WATCH. Once the modules are operational and a "live" version can be tested by users, a handbook will be created. It will

guide users through the modules and instruct how they can be used. It is also envisaged that a handbook in Chinese will also be produced in order to help prime users in China to navigate the English version of the toolkit.

5. Dissemination and uptake

5.1. Uptake by the targeted audience

As indicated in the Description of the Action, the audience for this deliverable is:

Ī	X	The general public (PU)
		The project partners, including the Commission services (PP)
		A group specified by the consortium, including the Commission services (RE)
		This report is confidential, only for members of the consortium, including the Commission services
		(CO)

5.2. This is how we are going to ensure the uptake of the deliverables by the targeted audience

As mentioned, the UIP, together with the project's website would be the main portal for information about the project, with the use of social media channels to drive traffic to the website.

6. Deliverable timeliness

Is the deliverable delayed	ls	the	del	liver	able	del	laye	ed1
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Justification: although the UIP was up and running on the 28th February 2021, this document was submitted on the EC portal three weeks later so that the internal review was done in an appropriate way.

7. Sustainability

Links built with other deliverables, WPs, and synergies created with other projects

The implementation of the UIP is responsibility of WP8. However, dissemination and communication activities are specific tasks in WP7. Constant communication between those two WPs will continue and enhance the development of the platform.

D8.5 will be developed on an ongoing basis.

8. Full track of dissemination activities

Not relevant

9. Full track of publications and IP

Not relevant