

**... an important step towards the harmonization
of Air Quality monitoring**

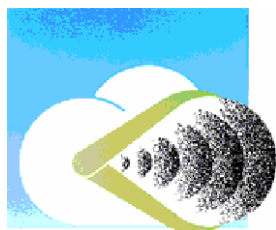
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- Introduction
- DB structure
- DB actors
- DB on the web
- What is next



Organic pollutants

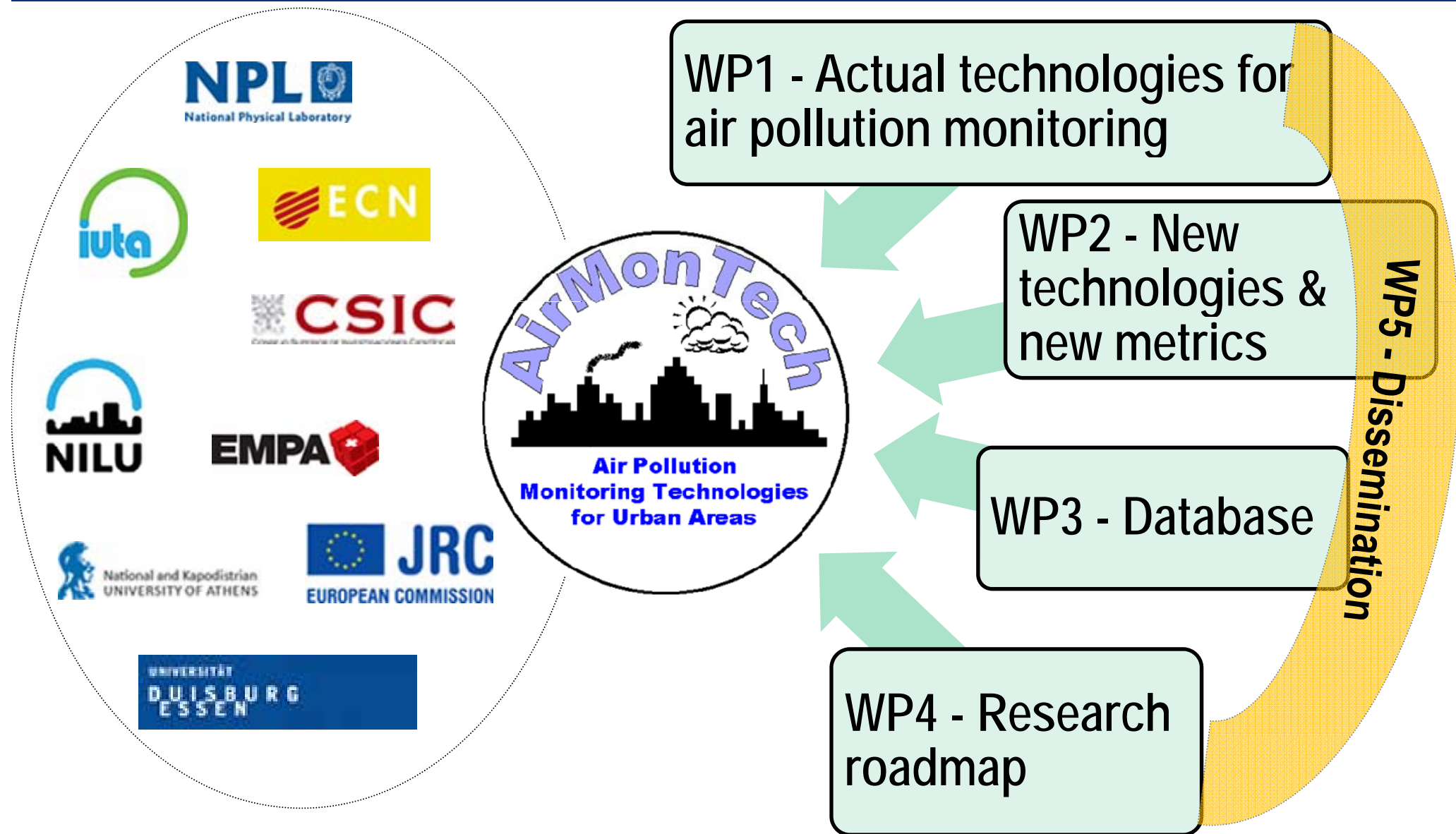
Inorganic gaseous pollutants

Metals & gas sensors

Particulate Matter

- **Scientific and technical support to the implementation and development of European air quality policy**
- **Research activities about new measurement techniques**
- **Harmonization activities - Quality Assurance program, proficiency testing (IE)**

- AQ measurements HARMONIZATION
(data quality, measurements comparability)
- DISTRIBUTION
(database, current and new measurement technologies, SOPs, equivalence tests)



- **Provides a platform for the collection and management of data related to air quality monitoring.**
- **Allows users to download and search through a multitude of information linked to each other in multiple directions.**

TOP LAYER

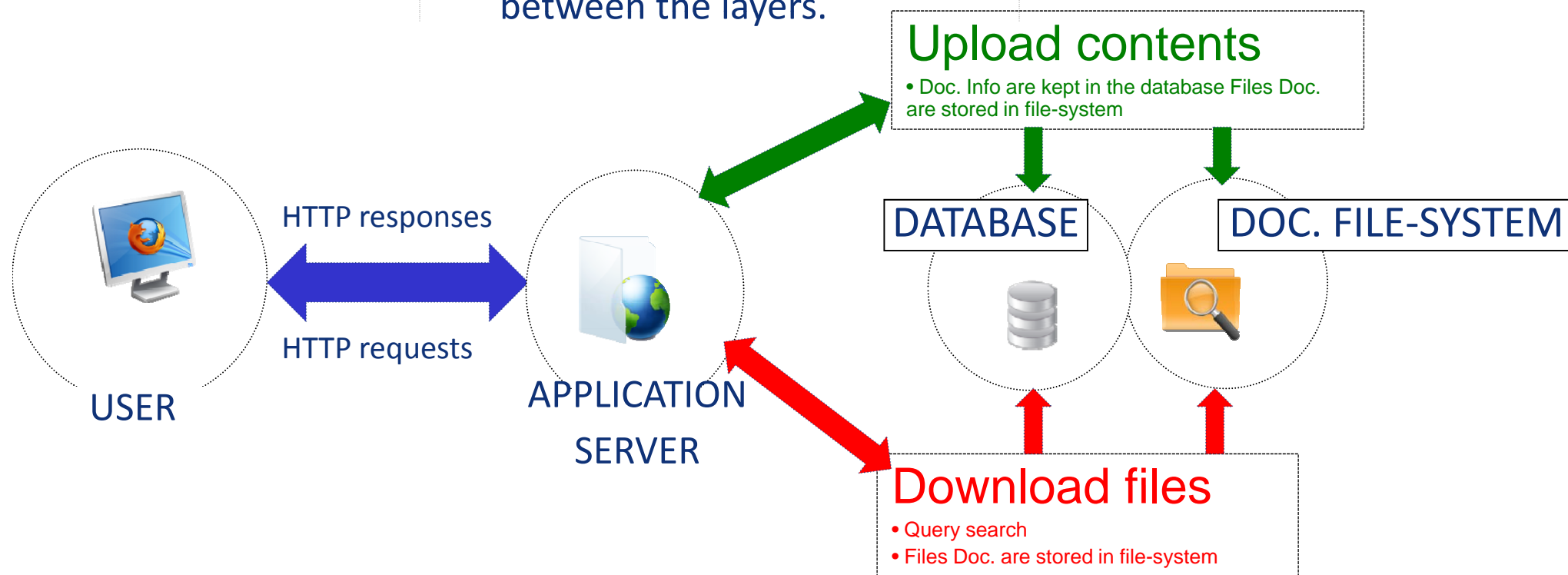
is the graphical user interface – web application

MIDDLE LAYER

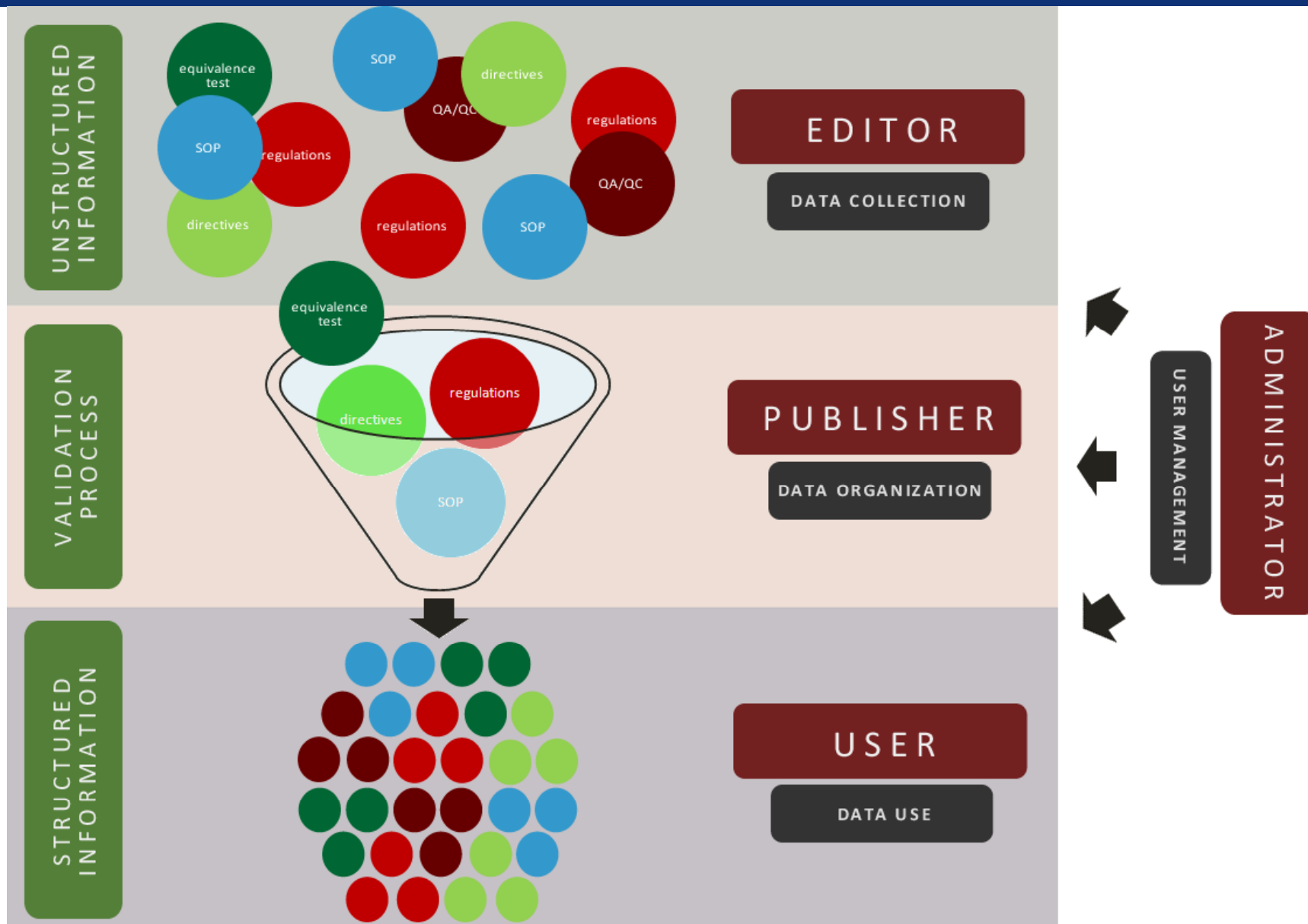
Coordinates the application, processes commands, makes logical evaluations, performs calculations. It also moves and processes data between the layers.

BOTTOM LAYER

The information is stored and retrieved from the database or file system.



- **Different roles** are authorized to perform different activities and to access different areas of the website.
- Authorization is managed by the **system administrator** who is able to assign different roles to different users.
- A member can be associated to **more roles**.
- Roles: **Administrator, Editor, Publisher, User**.



- only members of the consortium can request to be editors.
- are able to upload new documents and to create new web pages.



Upload files

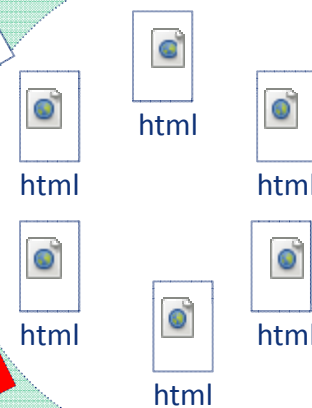
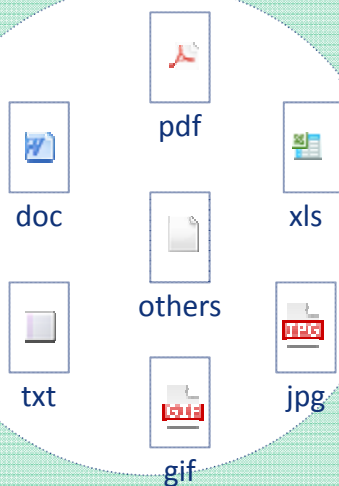
Create contents

Organize

Read all doc

Search/download

Search/read abstract



Document description

Document category:

Title:

** Title associated to the current document*

Abstract:

** Brief description of the document contents*

Language:

Supplied By:

Pollutant:

Selected pollutants:

Editor fills these fields before the upload

Editor document upload

Meta tags

| | | |
|-------------------------------|----------------------------------|-----------------------|
| Measurement Principle: | <None> | ▼ |
| Member State: | Finland (FI) | ▼ |
| Station Type: | Urban background | ▼ |
| Instrument Type: | <None> | ▼ |
| Author: | Finnish Meteorological Institute | ▼ New |

Editor fills these fields before the upload

File Associated

| | |
|----------------------|-------------------------------|
| File name: | equivalence_PM-report-FMI.pdf |
| File size: | 1898 KB |
| Content-type: | application/pdf |

Cancel

Update



Editor/Publisher

Forgotten password



AirMonTech Database

1. Editor requests a new password
 - Fill in “**Forgotten password**” form
 - Passwords are **encrypted** in the database (hashed) and not recoverable for security reason

Request new password

Send password



2. New password is generated by the system and sent via e-mail

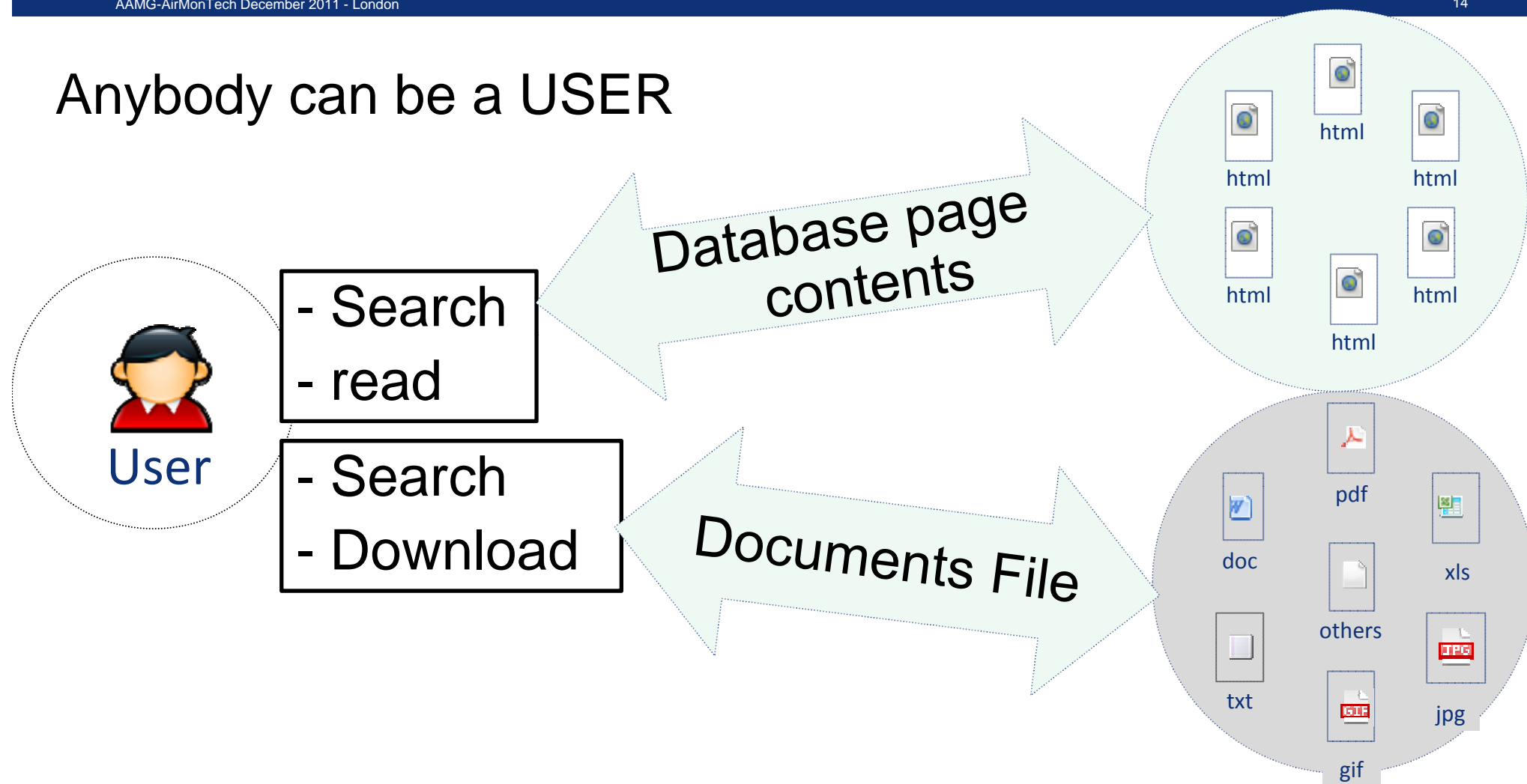
3. Editor logs into Airmontech with the newly generated password

Log into AirMonTech

4. Editor changes his password through his personal section of the website

Change password

Anybody can be a USER



Search options:

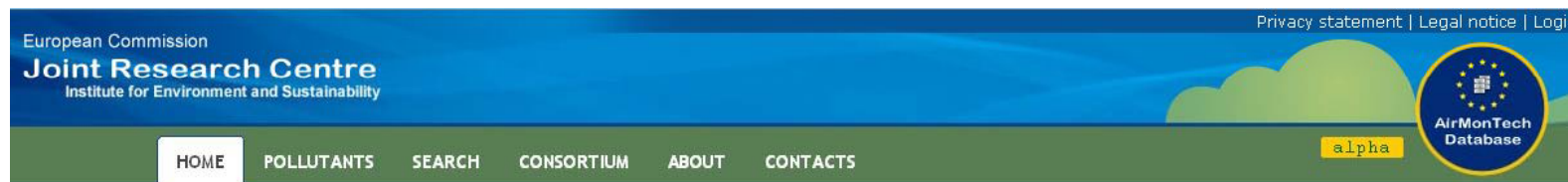
- **Full text search** is available for documents and page contents
- **Advanced searching options** may consist of:
 - Retrieving documents uploaded in a certain date.
 - Retrieving documents with a particular extension (e.g.: only .pdf)
 - Retrieving documents uploaded by a particular editor (e.g. all documents uploaded by a specific editor)

Doc and Tags used

| Document type | uploader name | uploader's Institute | upload date | Pollutant class (PM, Gas) | Pollutants/ Metrics | Description/ Abstract | Publisher/ producer | Instrument types compared | station type | Member State |
|------------------------------|---------------|----------------------|-------------|---------------------------|---------------------|-----------------------|---------------------|---------------------------|--------------|--------------|
| Full equivalency test report | x | x | x | x | x | x | x | | x | x |
| SOPs | x | x | x | x | x | x | x | | | x |
| Type approvals test | x | x | x | x | x | x | x | | | x |
| Round-robin-test reports | x | x | x | x | x | x | x | x | x | |
| Instrument IE reports | x | x | x | x | x | x | x | x | x | |
| Instrument IE raw data | x | x | x | x | x | x | x | x | x | |
| Specification sheets | x | x | x | x | x | x | x | | | |
| Instrument manuals | x | x | x | x | x | x | x | | | |

Uploaded documents format

- PDF and XPS files
- Text files
- MS Word documents
- MS Excel documents
- Image files (jpg, gif, png)
- Open office documents



AirMonTech database

Air pollution monitoring technologies for urban areas

Welcome to the AirMonTech database

AirMonTech is an EU FP7 project compiling information to harmonize current air pollution monitoring techniques and to advise on future monitoring technologies and strategy. It collects existing information on current and future AQ monitors.

The **AirMonTech Consortium** comprises 9 partners from many of the leading research organisations in Europe. The consortium brings together unique and complementary skills and expertise in the areas of measurements and in instrument developers. The Consortium comprises of air quality monitoring experts, measurement technique developers and health effect researchers from renowned research institutions.

We like to receive existing information on current measurement technologies and procedures for measurements of regulated air pollutants in Europe. See for more details the [letter of request](#) we sent out to operators of air pollution monitoring networks and air quality reference laboratories. We are also looking for information on established and new measurement technologies for air quality monitoring. More details concerning this request can be found in the [letter](#) we sent to developers and manufacturers.

Latest News

The project



AirMonTech is an EU FP7 project compiling information to harmonize current air pollution monitoring techniques and to advise on future monitoring technologies and strategy.
[read more...](#)

• TEST

- Software verification and validation + stress tests
- Prepare and verify the production environment

• CODE OPTIMISATION

- GUI: improve users experience and performance (AJAX)
- Database: improve performance by caching data

• FULL TEXT SEARCH

- examine all of the words in every stored file/document and match search criteria (words supplied by a user)

Thank you!

QUESTIONS ?

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