airLog

INTEGRATED PLATFORM FOR INTELLIGENT IAQ AUDIT MANAGEMENT

Healthy Indoor Life

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CRIC Research For Innovation · Ar Diagnostic indoor air quality · AmbiSalud · Sisäilmakeskus · GreenAir Monitoring · VTT · idmec · ISIAQ.nl

AIRLOG CORPORATE PRESENTATION

Paulo Pedro – Exploitation Manager

Faro, 23 September 2014

For a Healthy Indoor Life

While AIRLOG does not aim to solve current gaps in the scientific evidence of IAQ health risks, it aims at:

- Helping auditors **improve** their audits
- Helping clients **better** understand the IAQ control and maintenance processes
- Improving IAQ **control** in EU buildings

AIRLOG is designed to provide comprehensive state-of-the-art guidance for managing and diagnosing IAQ in buildings, and ultimately becoming a Good Practices Digital Guide in EU IAQ.

The Indoor Air Quality

Indoor exposure to air pollutants occurs in all indoor environments. Due to the complexity of indoor air pollution and its variability over time, a precise estimation of associated risks is a challenging task.

A European Problem

Poor indoor air quality (IAQ) is the main cause for the problem known as **Sick Building Syndrome** (SBS). The **World Health Organisation** (WHO) considers SBS as a modern plague that undermines the health and productivity of building occupants.

The Indoor Air Quality

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- 30% of EU buildings suffer from SBS

The **Scientific Committee on Health and Environmental Risks** stated in 2007 that a comprehensive review of the existing data on the indoor air pollutants, as well as the set up of a pan European database, is required. Currently there is no existing solution to assist field engineers in IAQ audits in buildings at EU level, and no standard EU technical management platform devoted to IAQ audits.

The Challenge

A **virtual management platform** that will create an objective, measurement-based framework for indoor air quality audits in buildings.

The **database** will be a repository of important value, as it will combine exposure data bases, standardization requirements, harmonization and cooperation across Europe, examples on multidisciplinary approaches, and concrete data on specific measures, among other data.

A **web-based IAQ audit support** and decision support system will offer up-to-date support, training and knowledge on IAQ audits and management systems.

The Challenge

Integrated Platform for Intelligent Indoor Air Quality Audit Management

Without AIRLOG

- An IAQ audit collects all information by filling technical forms on-site.
- From this preliminary study, a sampling plan is prepared to conduct the thorough IAQ audit.
- After collecting the samples, their analysis lead the auditor to suspect the existence of an airborne contaminant originating from an specific area.
- The auditor has the need to go back to the building and study the extension of the contamination and its source.
- A new sampling plan is drawn, where a more focused study will be done from the microbiological point of view.
- The auditor discovers the source of the contaminant.
- A detailed paper report is prepared and sent to the building owner. The information is complex and the auditor must assist the client in its interpretation and consequent implementation of preventive or corrective actions.

With airLog

- The auditor performs a study and creates a sampling plan for the IAQ audit, assisted by the expert data-base and the modelling software of AIRLOG.
- The data collected by the auditor and inputted into AIRLOG, already suggests the possibility of a contaminant source in a specific area.
- The auditor discovers the source of the contaminant.
- A detailed digital report is automatically prepared by the AIRLOG system with the data collected in the audit.
- The building owner can access the reports on his building directly through AIRLOG. The system itself provides the client with simple and straightforward interpretation of the information on the state of his building. The same system can aid in preventive or corrective actions and support the implementation of an IAQ Management Programme.

The Team

FP7-SME-2011-1-286462

SEVENTH FRAMEWORK PROGRAMME

CRIC Research For Innovation

Ar Diagnostic indoor air quality

AmbiSalud ambiente seguro

Pap Légtechnika Kft.

Sisäilmakeskus

GreenAir MONITORING INDOOR AIR QUALITY

VTT

idmec F-EUP engenharia mecânica

ISIAQ.nl

airLog

The Targets


European Society
European and Member State Public Institutions
Decision-Making Bodies
Scientist
Scientific Community
ICT Engineers
Professors, Lecturers, PhD
Public Opinion
Potential End-Users
Healthcare Professionals
IAQ Auditors and Consultants
Building Maintenance Managers
Companies and Stakeholders
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