

# Air Quality & Containment

We spend more than 80% of our time indoors, and the air we breathe is not always of good quality. Improve air quality in your buildings with SMATI.

## The solution

- + Autonomous sensor for CO2 measurement.
- + ICONE containment indicator created by the CSTB.
- + Automatic alerts and notifications.
- + Trusted solution referenced **UGAP**.

## The Benefits

- + Regulatory compliance and occupant information.
- + Implementation of a program of preventive actions.
- + Limitation of asthmatic and allergic reactions.
- + Limitation of the decrease in cognitive or psychomotor performance.
- + Decrease in absenteeism.

## What the regulations say

- The environmental code recognizes the right of everyone to breathe air that is not harmful to his or her health (C. envir., art. L. 220-1). For example, relative humidity must be between 40% and 60% at 20°C and CO2 less than 1000ppm.
- The law (articles L. 221-8 and R. 221-30 et seq. of the Environment Code) on national commitment to the environment has made it mandatory to monitor indoor air quality in day care centers, day care centers, leisure centers and schools.

*Did you know that?*

*Poor indoor air quality can lead to symptoms such as headaches, fatigue, eye, nose, throat or skin irritation, dizziness, allergies or asthma.*

## Smati application

- Collection, processing and restitution of input and output temperature data.
- Immediate visualization of the installation situation.
- Display of the evolution of the temperatures in real time.
- Pre-configured and easily configurable notification alerts.
- Possibility to define different access and use rights.



## Sensor: NKE Vaqa'O

- > 3 years of autonomy.
- Measuring ranges / accuracies :
  - o Temperature: +0°C to +55°C /  $\pm 0.2^\circ\text{C}$
  - o Hygrometry 0% to 100%rH /  $\pm 2\%$ .
  - o CO2: 0-5000ppm/  $\pm 100\text{ppm}$
  - o VOC index: 0 to 500 /  $\pm 5$



## Connectivity: Objenius by Bouygues Telecom

- 1<sup>st</sup> national network dedicated to connected objects.
- 95% of the population and more than 30,000 municipalities covered.
- 100% integrated into the SMATI environment.

\* depending on transmission frequency and coverage