



**RESPIRA®** is artificial intelligence that enables efficient control of the ventilation system for improved comfort, quality of air and energy efficiency in underground transport networks and large scale infrastructures.

Based on dynamic algorithms, **RESPIRA®** finds equilibrium by employing complex variables like the temperature, humidity and quality of air in order to predict the environmental conditions and offer more comfort to the users.

## Artificial intelligence to control and improve ventilation systems



## The advantages



**Efficient energy consumption management** and improved environmental condition thanks to automatic ventilation control.



**Efficient investment management** thanks to detection of hot spots and/or problems within the facility.



**Real time queries on the environmental conditions** (temperature, humidity and air quality) and the predictions for the next 72 hours.



**Real time queries on the comfort index**, thermal sensation and air quality.



**Real time queries on equipment operation**, fast tracking maintenance works.



**Different control modes.** Efficient, comfort and saving modes.



**Automatic Retraining.**



**Flexible, scalable** and fast deployment system.



# Product 4.0

Intelligent ventilation that constantly learns and adapts:



## Deployments

**RESPIRA®** offers the best performance in large scale infrastructures and connected spaces in order to continue enjoying our cities.

### SUBURBAN TRANSPORT

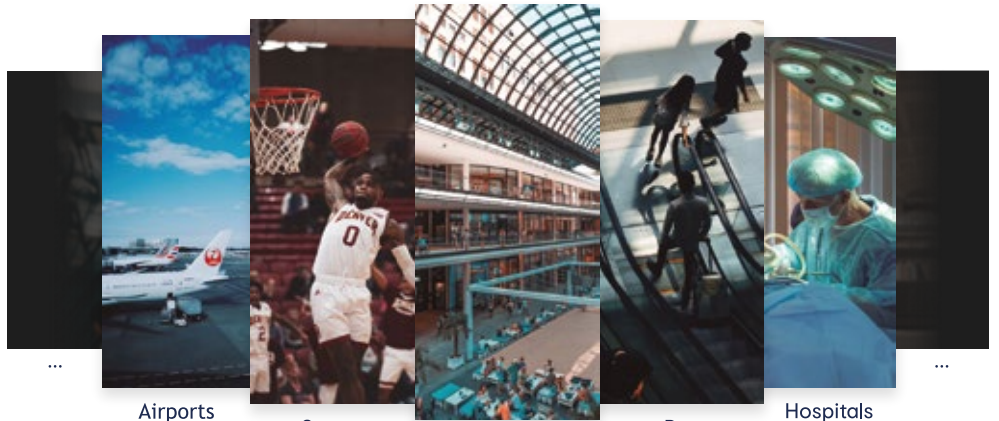
Ventilation system



Subway transport network

### LARGE - SCALE INFRASTRUCTURES AND CONNECTED SPACES

HVAC



Airports

Sports complexes

Shopping malls

Bus stations

Hospitals

## The capabilities of **respira**

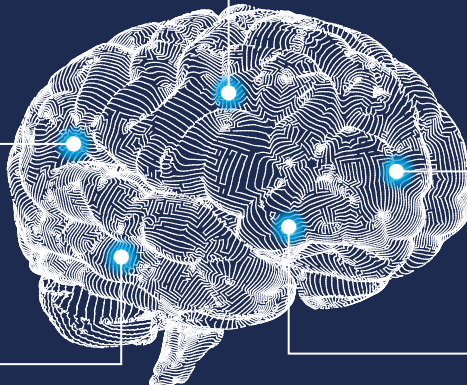
Intelligent and advanced technology with positive impact in our health and quality of life.

### AIR QUALITY

Establish minimum levels of air quality

### PATHOGENIC MICROORGANISMS

Detect the presence of bioaerosols in the atmosphere



### ENVIRONMENTAL CONDITIONS

Determine the degree of comfort of users inside the facilities

### OPERATING PARAMETERS

Link the facility's operating variables

### MECHANICAL PARAMETERS

Enable predictive maintenance of the facility's assets

