ATMO®
CUBE

Indoor air quality monitoring system

Special version for Bluway®

Who we are

ATMOTECH air quality monitoring solutions has been on the market for the last 4 years. Early in 2016 we've launched ATMOtube - world's first portable air quality monitors. Since then we've produced and shipped tens of thousands of units and partnered with major players in air quality industry.

ATMOTECH originated as a spinoff from a well-known hardware design house *NotAnotherOne*, which developed and released more than 30 various IoT products and mobile devices to the market.

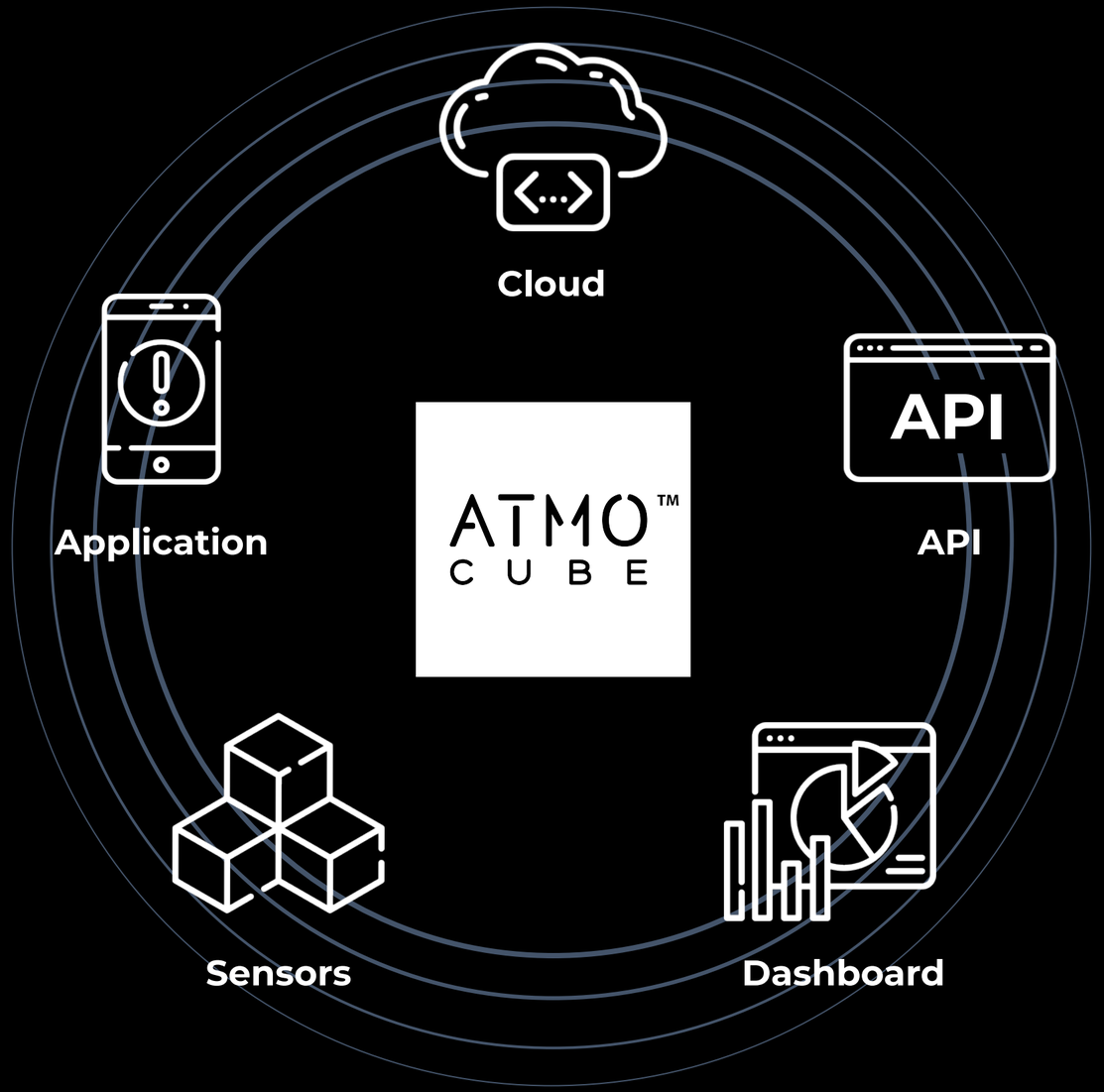
Our product line

Atmotube PRO

Atmotube PLUS

Atmotube MASK

Atmocube (NEW)



What is Atmocube

Atmocube is a complete and reliable solution for complex air quality monitoring in private, public and commercial buildings.

It accurately measures the most dangerous air pollutants, such as PM1, PM2.5, PM10, VOCs, and tracks vital environmental parameters: relative humidity, temperature, atmospheric pressure, noise and light levels in real-time.

As a core element of the Indoor Air Quality Management System, Atmocube is an energy-efficient IoT-solution which is easy to install and use.

Aside from well-known health issues caused by air pollution, air quality directly affects our cognitive performance, particularly our abilities to focus, strategize, and respond to a crisis (Research materials on this topic are collected in this article)

There are many factors impacting indoor air pollution, but most of them can be changed or significantly improved, if carefully monitored.

Among those factors:

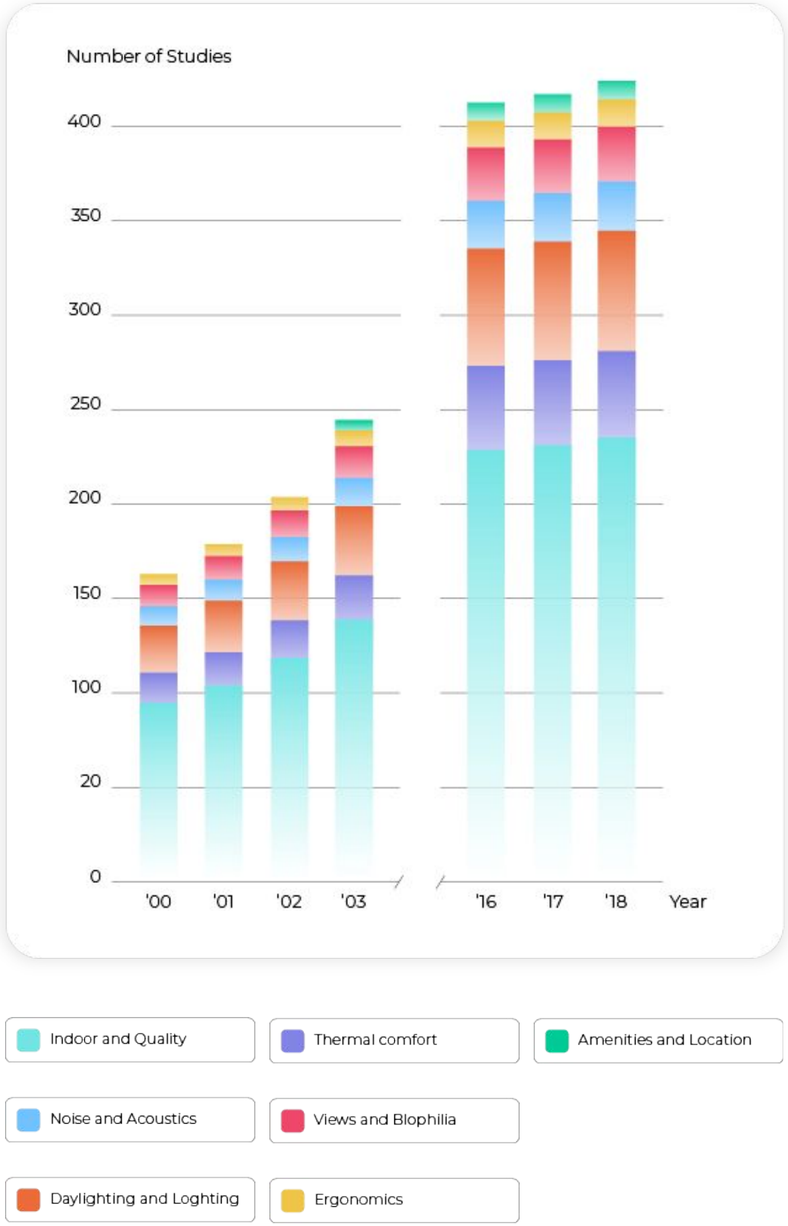
- Poor maintenance of heating, ventilation, and air conditioning systems;
- Emissions from building materials, flooring, paints, and furnishings;
- Excess moisture and mold;
- Dirty floors, dusty surfaces;
- Toxic cleaning supplies;
- Office equipment.

Trends

Interest in the air quality monitoring of buildings had been growing slowly up until recently. With the recent mass adoption of green / sustainable building standards, businesses are paying more attention to people's wellbeing and how they are affected by indoor environments.

Both people and businesses are becoming more conscious of the well-being, when applied to the places, where they spend the most of the time - the workplace.

Following this trend, major Healthy/Green/Sustainable Building standards have included air quality and indoor environmental conditions on the list of key metrics.



Global Indoor Air Quality Solutions Market 2020-2024

Market growth will **Accelerate** at a CAGR of over

6%

Incremental growth

$9.54 bn

The year-over-year growth rate for 2020 is estimated at

4.59%

The market is **FRAGMENTED** with several players occupying the market share

33%

of the growth will originate from **APAC**

One of the **KEY DRIVERS** rising demand for smart air quality monitiring equipment

Building health standards

Major green / sustainable building certifications include the following environmental metrics as core standards:

- tVOC
- PMs
- CO2
- Radon
- Temperature
- Humidity

Some are also evaluating noise level and light intensity.

Atmocube in details

Customizable front tiles.

- Switch On/Off

Environment parameters status

Technical characteristics*

Sensors configuration:

- PM1
- PM2.5
- PM10
- VOCs
- CO2
- Temperature
- Humidity
- Atmospheric Pressure
- Noise levels
- Light sensor

Connectivity:

- Wi-Fi (802.11 b/g/n @ 2.4GHz)
- Bluetooth 4.1 (5.* ready)

Power:

- 50/60Hz USB-C, 5V @ 2A
- Direct AC/DC wiring (24V)

Dimensions:

- Width: <128mm (5 inch)
- Height: <128mm (5 inch)
- Depth: <45mm (1.7 inch)

Weight

Below 300g (10.6 oz) **

Indication

Array of RGB LEDs for major pollutants/parameters status

Cloud data storage

Flexible options for cloud storage and services (dashboard, reports, data access control, APIs)

Future roadmap options

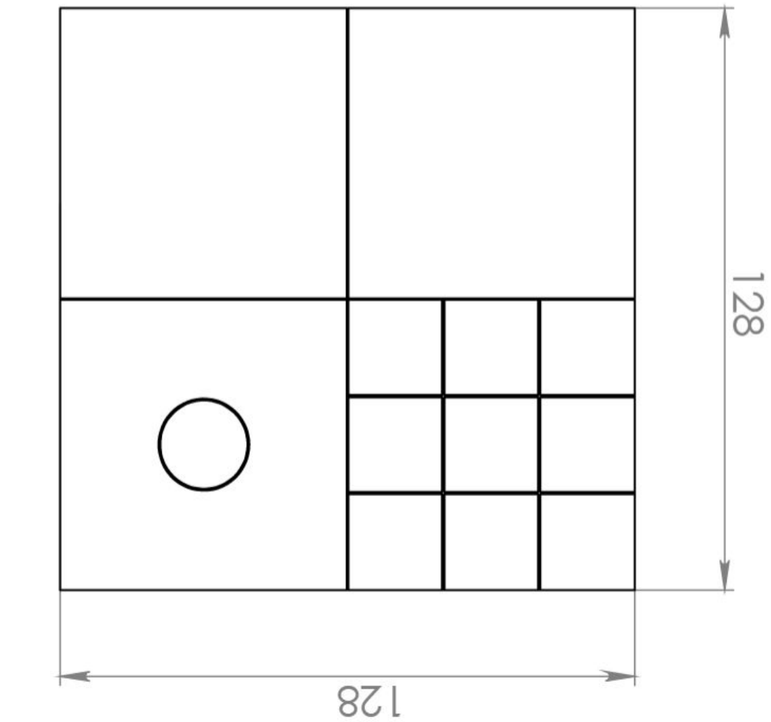
(future plans - additional functions would be developed iteratively, hence, not included into the default SKU)

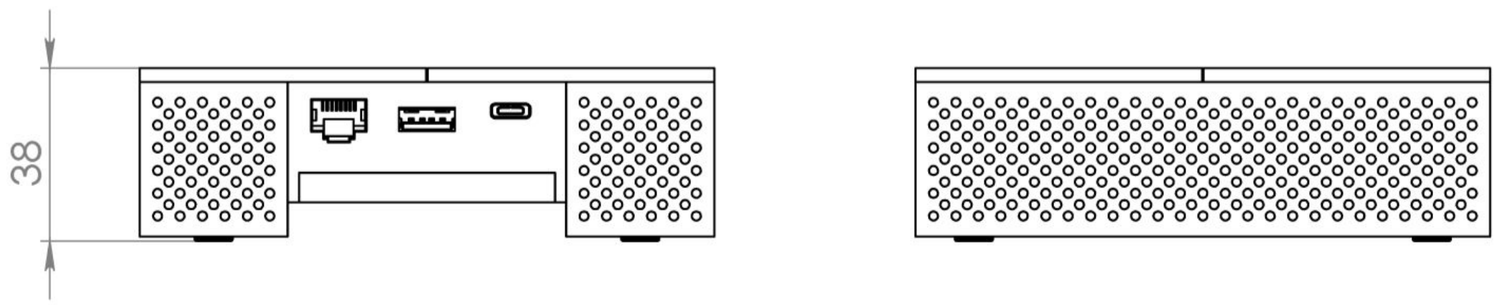
- CO sensor
- O3 sensor
- Formaldehyde sensor
- Backup battery
- Ethernet with PoE
- LTE or NB-IoT module
- Thermostat / HVAC direct control
- Basic and extended occupancy detection

* Refer to the MOU for the detailed configuration / sensor specs.

** Final product weight is a subject to change (due to mechanical design optimisation, mass production plastics, etc.)

Device drawings with dimensions





* Ethernet connector provided for reference purposes; default configuration will contain USB Type A and USB Type C connectors

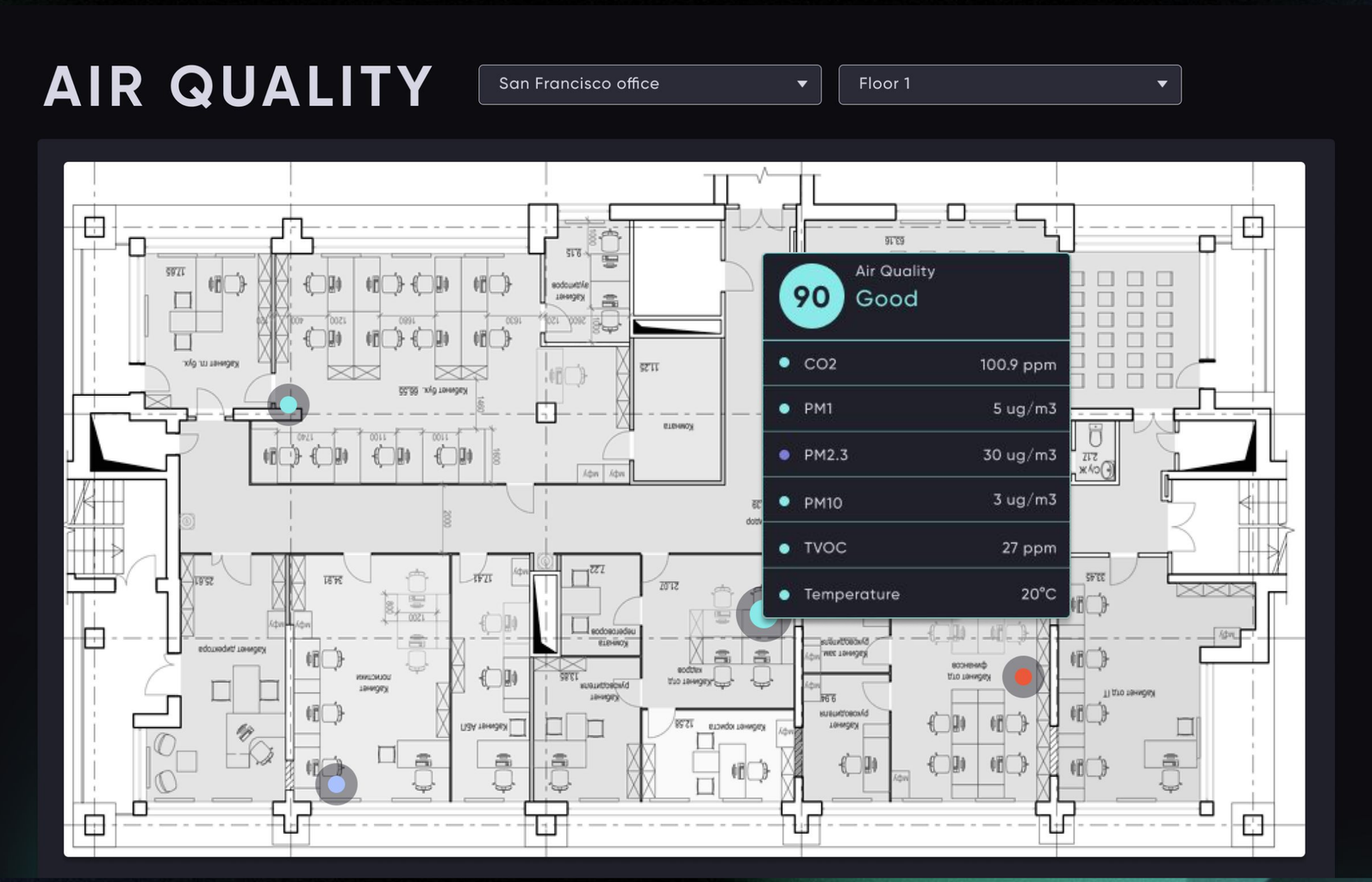
Advantages of Atmocube

- Variety of sensors
- Real time data tracking and Cloud APIs
- Reliability and measurement accuracy
- Simple installation/plug & play approach, ease of management
- Elegant design and several mounting options
- Ease of customization/branding
- Future-proof, customizable and upgradeable (see the roadmap):
  - Extension modules to support additional RF technologies: (3G/4G modem/NB-IoT modem) via extension boards
  - Extension module to support HVAC/AC control
  - Optional backup battery
  - Support of additional Bluetooth modules/beacons

Benefits of Atmocube deployment for companies

- Manage the venue’s environment/ambiance efficiently, resulting in an increase in employee satisfaction
- Continually assess the building in accordance with leading green/healthy building standards, adhere to the sustainable development goals of enterprises/organizations
- Increase the value and attractiveness of the venue
- Discover insights by utilizing historical data / analytical features
- Use insights to reduce operational costs, improve energy efficiency, track correlation between ambiance and people’s wellbeing
- Provide a universal dashboard with a user-friendly interface, allowing you to manage multiple venues and see the average parameters / trends for a multi-monitor environment

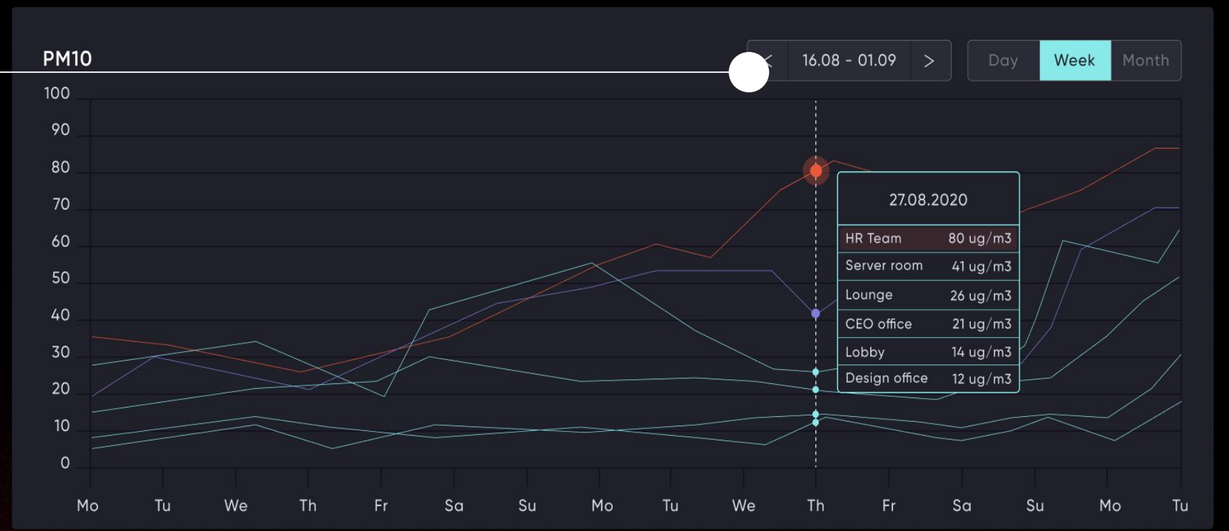
Easy to set up and monitor



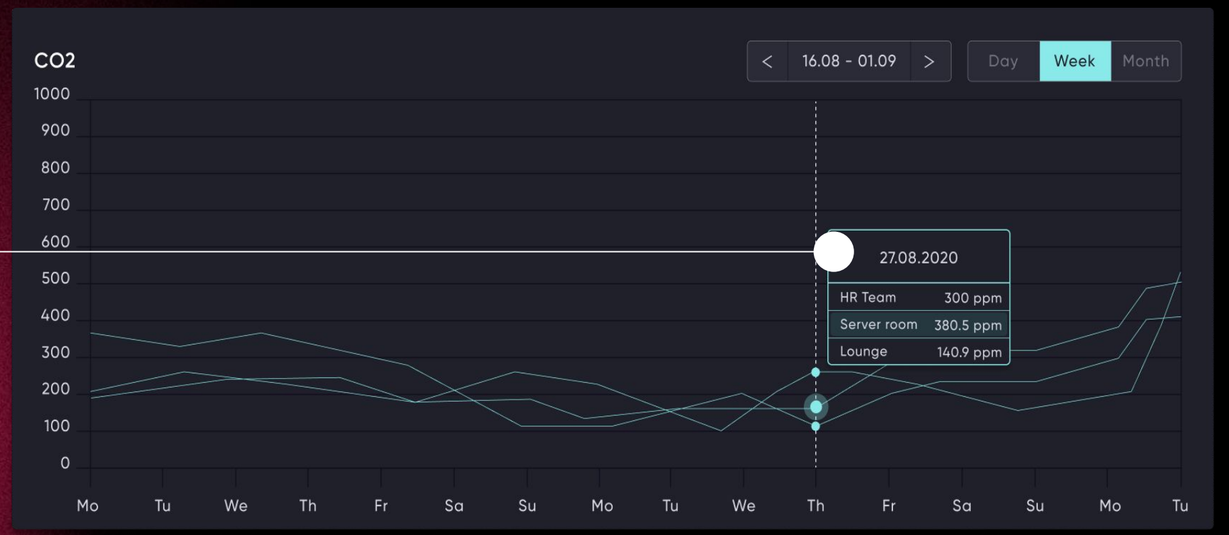
Real-time air quality data management

Metrics and Reports

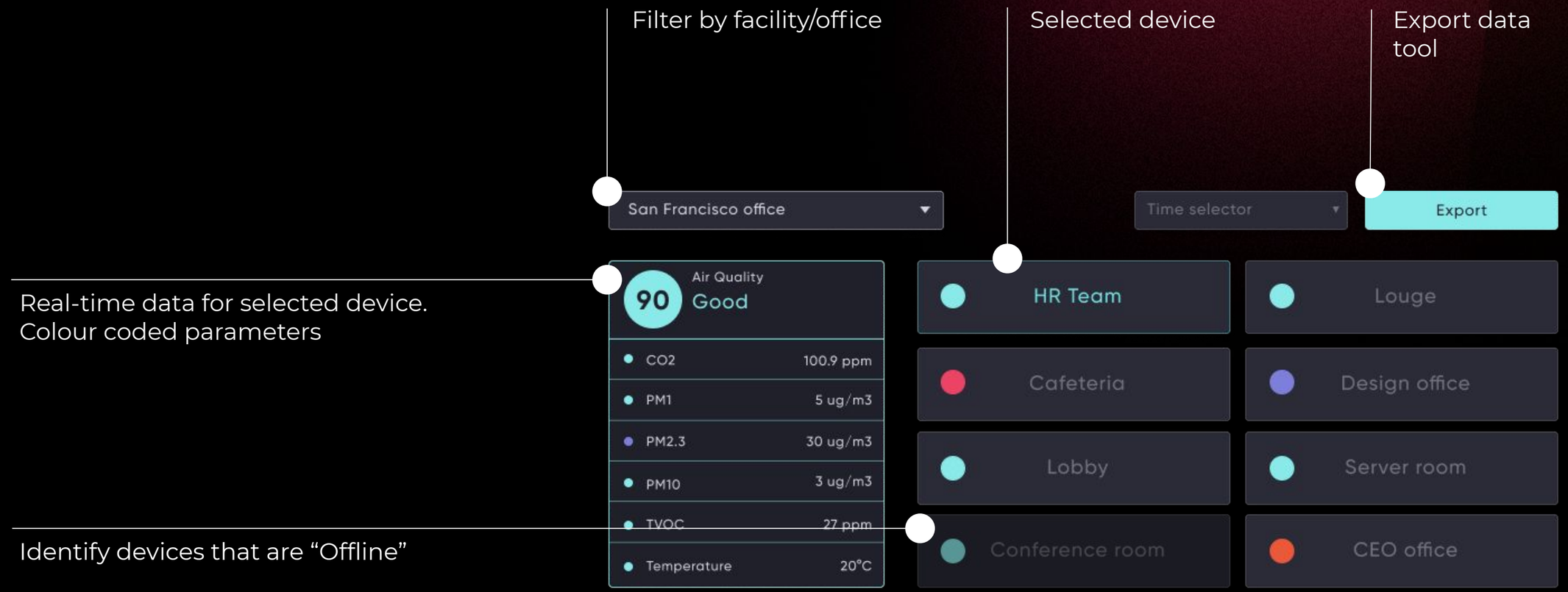
User-defined timescale
for charts



Readings detailed
at selected time-point



Metrics and Reports



Data protection and security

The security of your data is our highest priority.

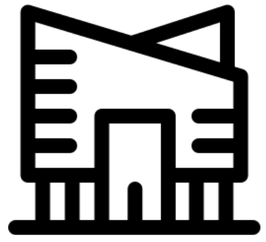
Atmocube infrastructure is hosted within Amazon Web Services (AWS). This is designed to follow international security standards and regulations, while protecting confidentiality, data sovereignty and data privacy regulations.

AWS has a Privacy Shield certification ensuring compliance with GDPR regulations related to transferring data outside of the EU.

Private AWS deployment is possible on request (subject for additional license fees).

Use cases

Green Smart Buildings



Shopping centers

Universities and Schools

Hospitals

Industrial buildings

Offices

ATMO®
CUBE

Thanks!

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