

How air pollution affects us

What is not measured can not be improved

Solar Hub Solution offers air pollution data to improve the quality of life of citizens.

9 out of 10 citizens breathe polluted air

According to the WHO, 9 million people die prematurely each year due to air pollution.

Align with the Sustainable Development Goals (SDG)

Measuring air quality is mandatory in cities and industries in order to aligned with the SDG.

Establishing & analyzing data allows managing them.

Establishing parameters and compiling them in information systems allows us to make decisions and improve.

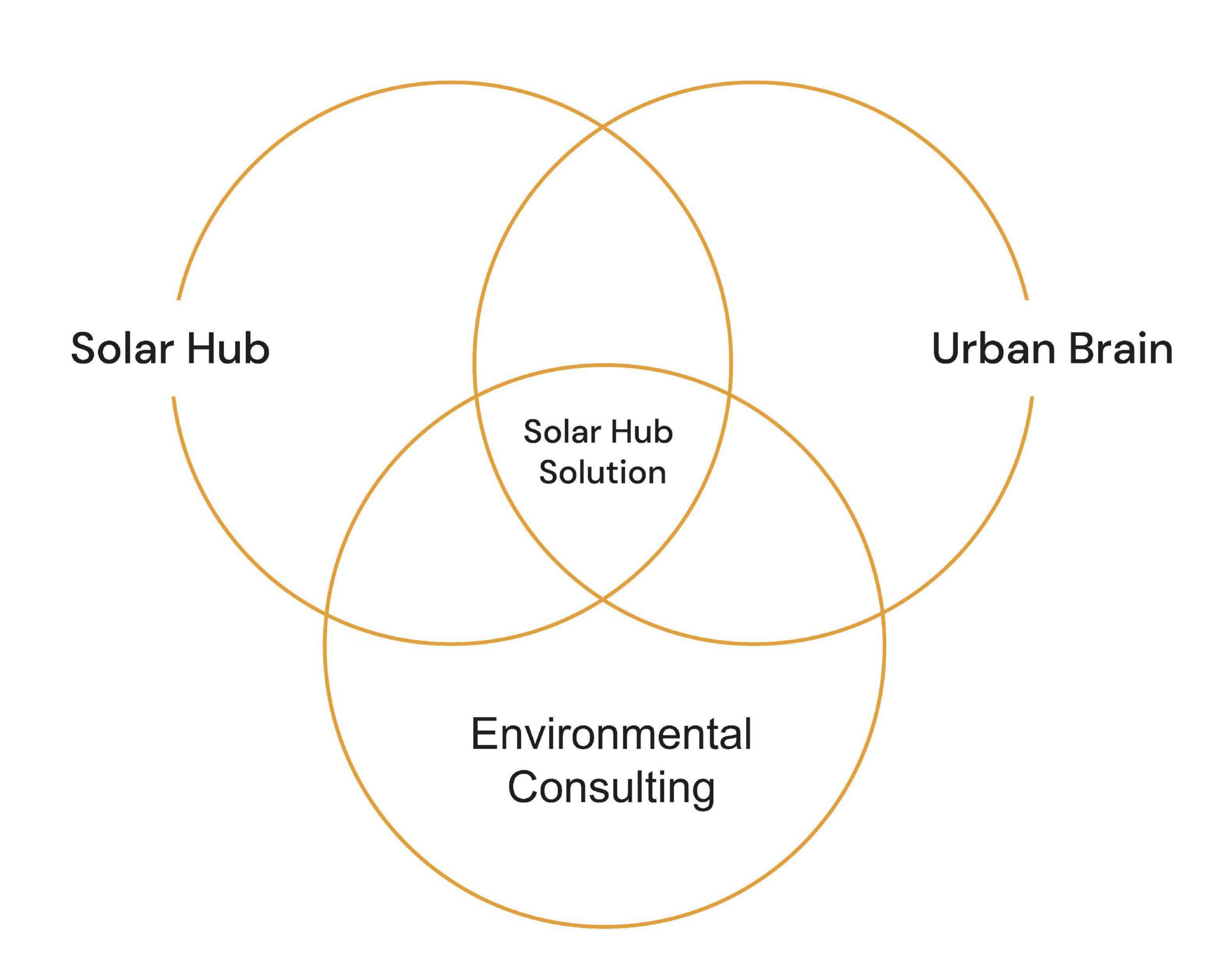
Take control of your city with Solar Hub Solution

Deploy the Solar Hub network and monitor your air quality through our Urban Brain platform.



^{**}Sustanible Development Goals

Solar HUB Solution, Light&Data as a Service



Solar Hub

A multi sensor hub system powered by the Sun, working for multiple case studies. A data measurement station, allowing the control of atmospheric pollutants emissions and other relevant environmental parameters such as CO2 emissions, Noise levels and UV radiation.

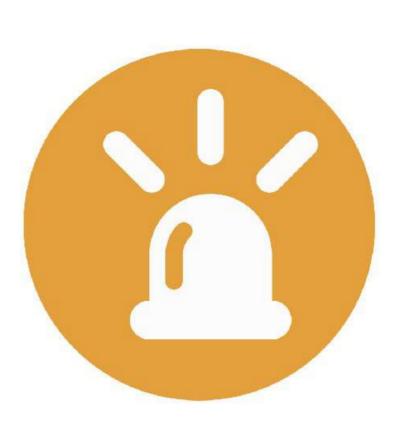
Urban Brain

Interoperable platform for real-time data, connected to the Solar Hub unit. Allows to download customizable environmental reports, scheduled alarms, warnings and check the progress indicators.

Data analysis

The real-time reports can be used for actions related with sustainable mobility such as monitoring the Low Emissions Urban Areas. It may also be used as environmental education tool or to give evidence of political

Solar Hub Solution Benefits



Efficient Lighting System

Easily substitute existing lighting fixture with a Multisensor Hub with LED system integrated.

Analyze reports

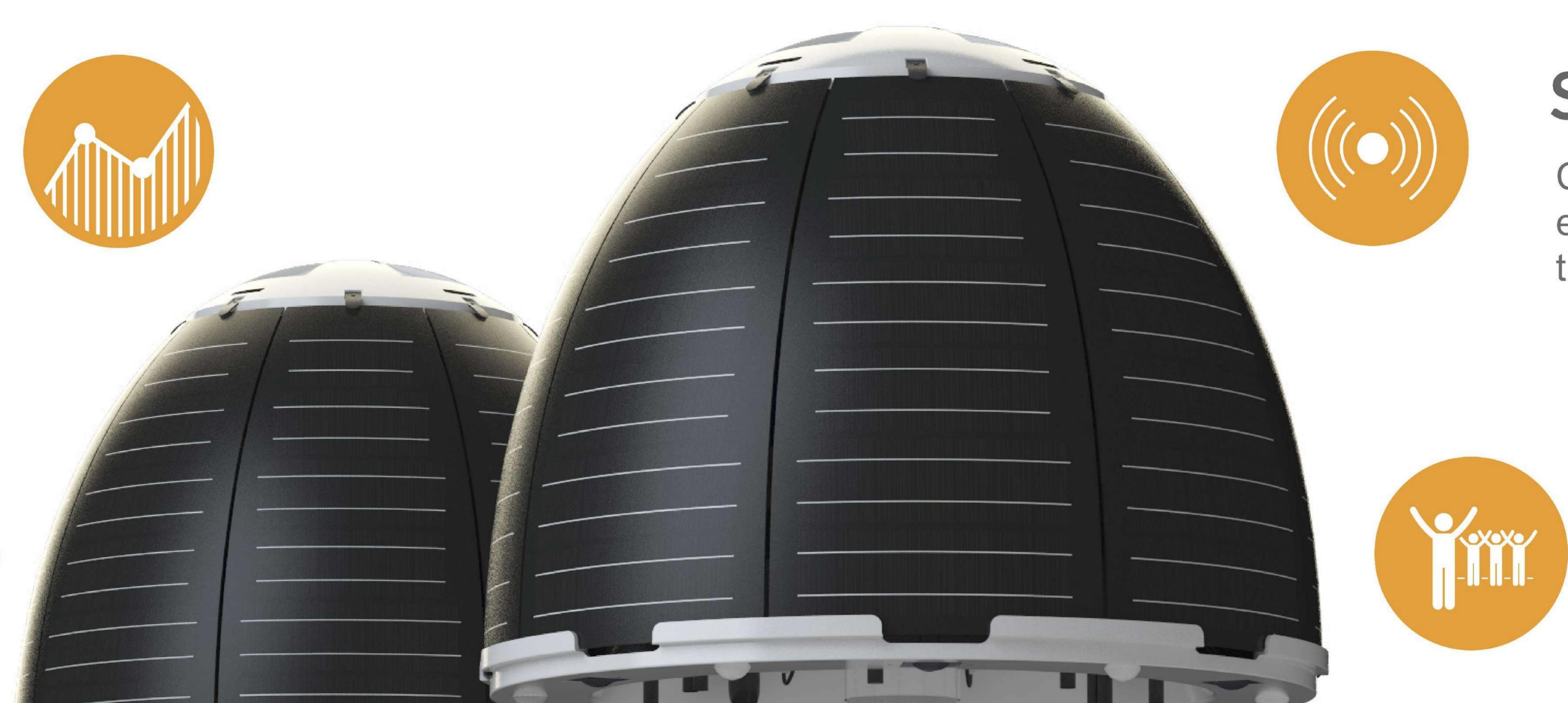
View capillary reports of atmospheric pollutants.

Circular system

Clean and sustainable energy solution, functional and estethic. Powered by a 360° patented paraboloid solar module.

Activate alarms

Analyze future situations, program alarms and warnings.



Security and guard

Check the progress of environmental indicators at all time.

Opportunities

Generates new synergies for citizens and Telecom companies.



Improve the citizens quality of life by caring the air we breathe.

EAQI and implications for citizen health

Environmental sensors

The environmental sensors integrated in SOLAR HUB measure the percentage of NO2, SO2, O3, PM2,5 and PM10 present in the air with the objective to be compliant with international standards about air quality in cities.

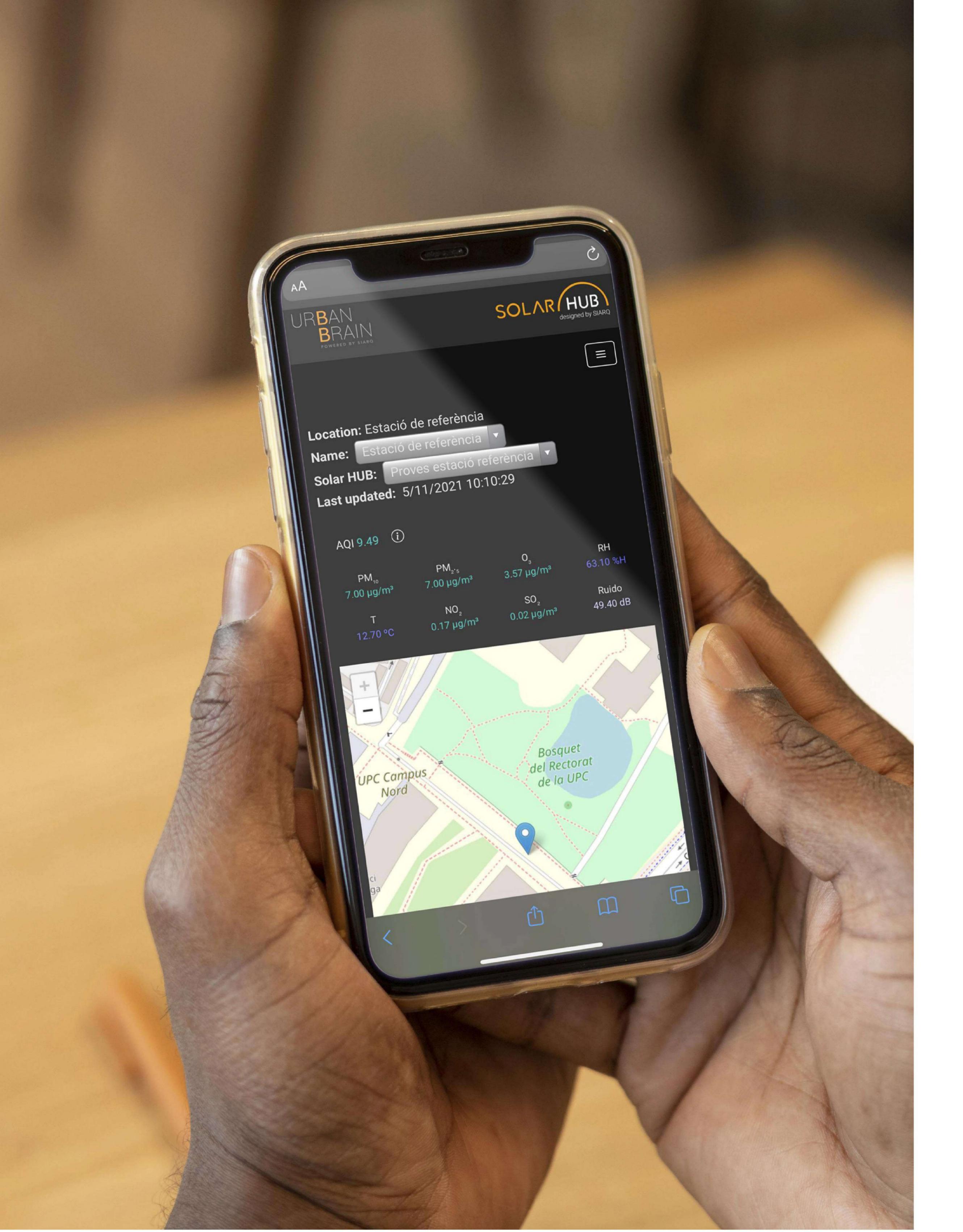
Citizen health & EAQI

The indicators are based on the European Air Qality Index or EAQI scale, developed by the European Environmental Agency. Each colour of the scale indicates the quality of the air and, at the same time, it gives medical recommendation for the more sensitive people.

AQI	DESCRIPTION	MEDICAL RECOMMENDATION
From 0 to 19	Good	Enjoy the activities.
From 20 to 39	Correct	Enjoy the activities.
From 40 to 59	Moderate	Sensitive people: plan activities outside when conditions are best.
From 60 to 79	Poor	Sensitive people: Reduce or reschedule outdoor activities.
From 80 to 99	Very poor	Sensitive people: Avoid outdoor activities. Generic population: Reduce or reschedule outdoor activities.
From 100 to 200	Extreme poverty	Sensitive people: Avoid all outdoor activities. Generic population: Keep outdoor activities to a minimum.
		FONT: AIR QUALITY INDEX FOR FAQ

^{*} European Air Quality Index.

^{**} European Environment Agency, EU environment agency.



How to start Solar Hub Solution

Deploy your Solar Hub network

Smart Solar infrastructure working as a environmental measurement station for environmental parameters. Customizable.

Activate your Urban Brain account

Interoperable digital platform where you may consult customizable environmental reports, activate alarms and obtain statistics.

Take action, improve your municipality!

Analyze urban air patterns, assess what changes to apply and proceed to improve the quality of life in the municipality. Committed to your citizens and the environment!

A study of your municipality to offer you the most appropriate deployment of your city control.

With a network of Solar HUBs, an Internet connection, and the Urban Brain platform, you have it all. Replace your existing streetlight network and transform them into a Smart data infrastructure: secure, connected and versatile.

We propose three type of deployment in order to adapt our environmental service to the specific needs of your city: Small Pilot, Medium Pilot and Smart City Network.



Sustainable Development Goals (SDG)

Solar Hub Solution helps municipalities, people and planet

The Sustanible Development Goals promoted by the United Nations Organization in 2015 requires the joint involvement of governments, society and companies, all responsible and committed to the well-being of people and planet.

Solar Hub Solution directly address at the SDG 3, 7, 9, 11 and 13.













Raül Gonzalez

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Solar Hub Solution complies with the neutrality of access to infrastructure, energy sustainability and its integration into the urban landscape to help create Smart Cities.



Zeliko Kuliç Zelrbiç

Head of Municipal Public Facilities Services of Sant Boi de Llobregat (Barcelona)



SIARQ provides an ecological and smart solution, applicable in a simple, economical and aesthetic way. The data obtained will be essential to make Sant Boi a better city.



Solar Hub Solution by

SIARQ Technologies

Co-creating Solar Solutions for smart & better Cities

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Sellos oficiales







Con el apoyo de











