



Creating a new sky

A photograph of a calm lake reflecting a clear blue sky and distant mountains. The water is a light blue, and the mountains in the background are a mix of brown and green. A small red buoy is visible in the water.

CORPORATIVE  
PRESENTATION  
ZONAIR3D



# HISTORY



Mr. Xavier Trillo.  
Founder. CEO.

More than 15 years of **research and development**  
allow us to be today in the **best projects**,  
together with the **most prestigious companies**.

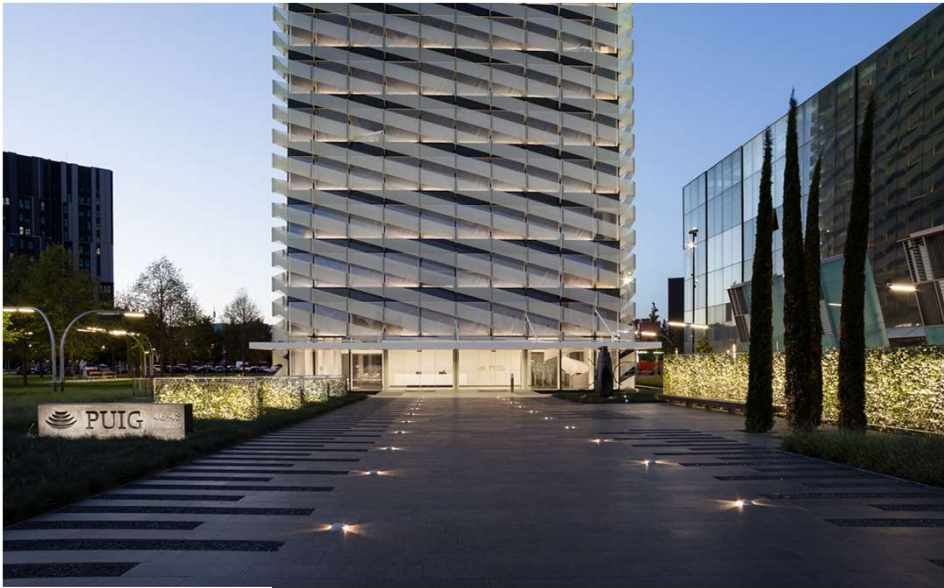
WE ARE PROUD TO BELONG TO  
THE EXCLUSIVE BUSINESS CLUB THAT  
ADD **VALUE** TO THE CONSUMER,  
BASED ON **HEALTH** AND  
THE **FUTURE** OF YOUR TEAMS.

These are some of the many examples  
where they are already breathing pure air  
in the world...

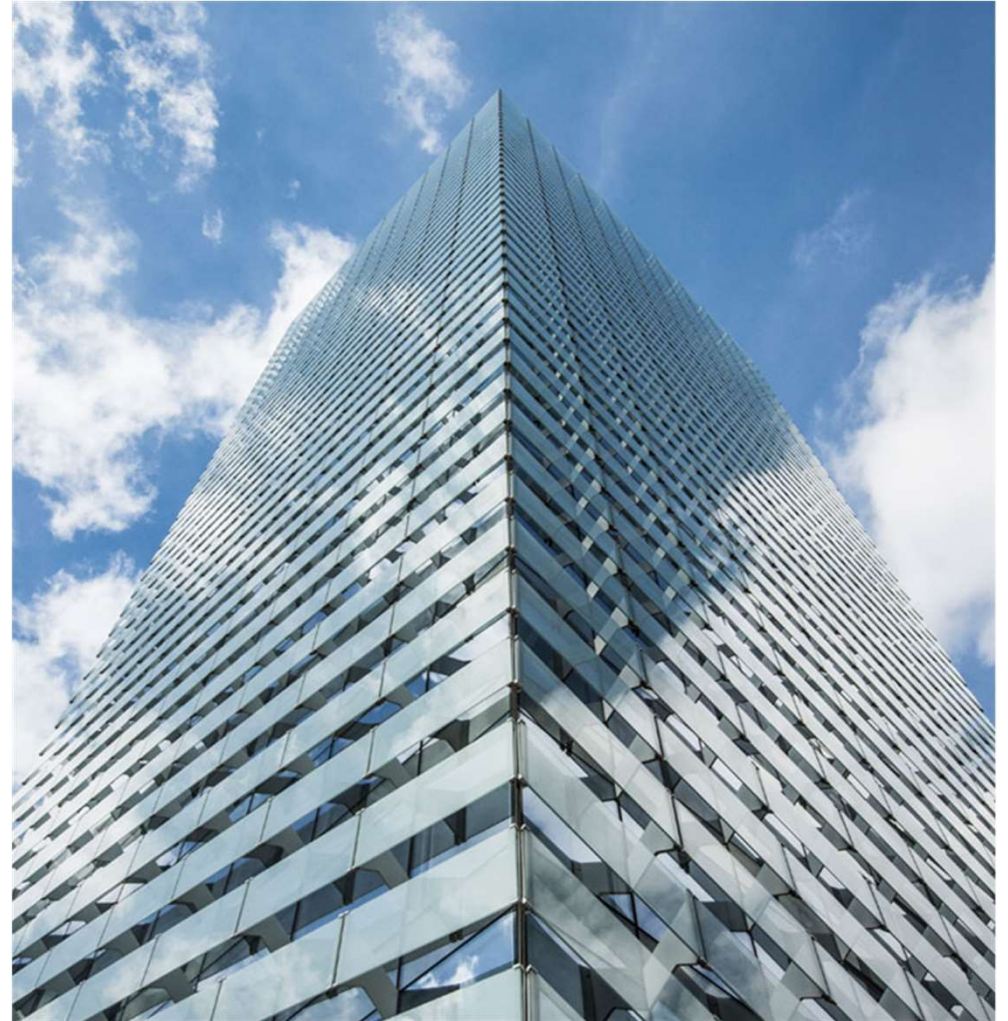
Our **goal** is to create a future in which our only concern is to **improve the lives of people** with respiratory problems because the rest of the planet does not need purifying.

Until that future is here, Zonair3D™ will continue making every effort to **create havens of pure air** in which people can live their lives under the best possible conditions.

## INTRODUCTION



Olfactive Systems, Barcelona





## INTRODUCTION

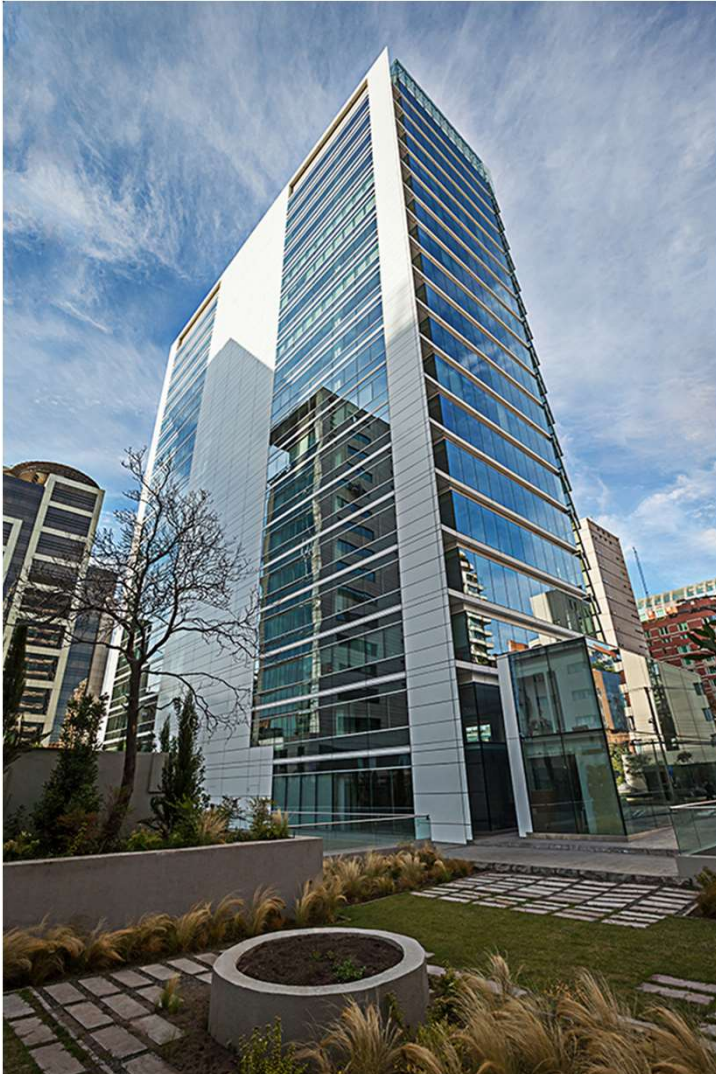


Offices: Beijing, Hong Kong and Shanghai

*Cartier*



## INTRODUCTION



**CBRE**

Offices: Santiago de Chile



**HAWORTH**

Shanghai



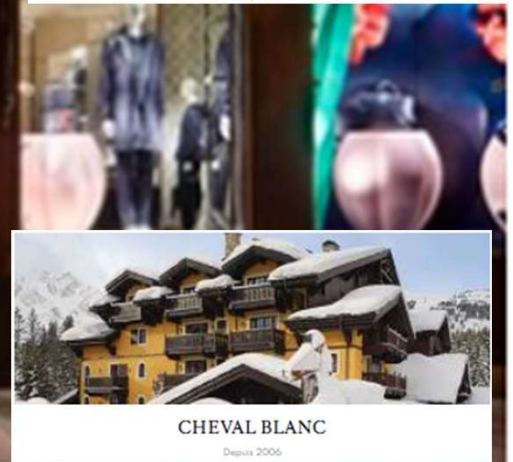
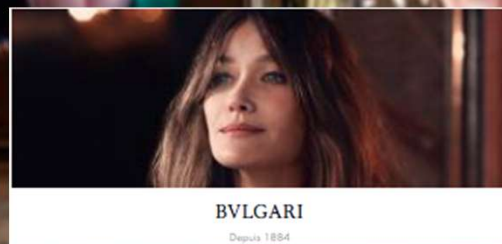
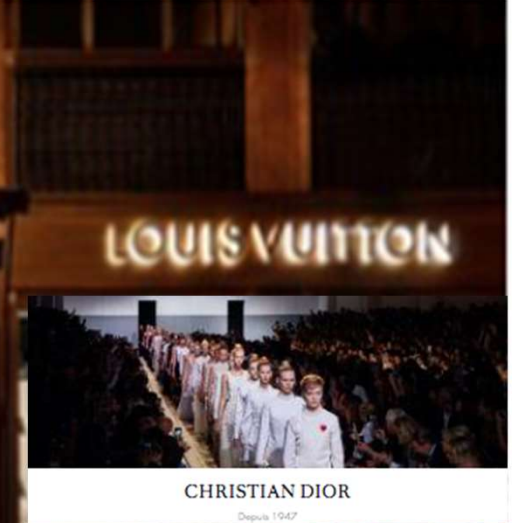
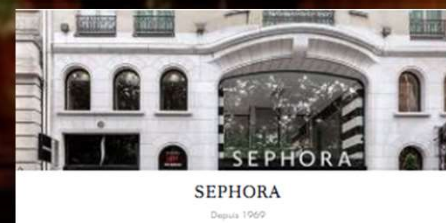
## INTRODUCTION



New York University, Shanghai



## INTRODUCTION



LVMH

Global project:

LIFE /  
LVMH  
/



# OUR COMPANY





## THE COMPANY

**ZONAIR3D, S.L.** is a Spanish company operating on all five continents that is engaged in the research and scientific development of air purification systems.

In collaboration with a number of scientific institutions and research centres, **ZONAIR3D, S.L.** works on the development of solutions offering answers to unresolved needs in such areas as health, wellbeing or buildings, among others.

**ZONAIR3D**, was founded by the initial Spanish company Bubble Space, S.L.

## THE COMPANY

Thanks to the synergies generated by the business of both partners, today at ZONAIR3D™, we offer a pure air solution of the highest quality for indoor spaces with the latest generation communication technology for big data control and monitoring.

## WE INCORPORATE THE ENTIRE **NETWORK OF PRODUCT AND SERVICE VALUE**



## THE COMPANY

**ZONAIR3D, S.L.** has 4 production centres, all of them located in Spain, where it undertakes the manufacture of both, the purification units, and the inflatables for pure air Bubbles and rapid response operating rooms field.

Works under the corporate brand of your property:



The main product families division:





We are committed to the environment, business ethics, anti-corruption policies, the protection of labour rights and the protection of our employees.

The overall proof is the recognition on an International evaluation level with a ranking of a **ecovadis** SILVER medal.



The degree of air quality generated by our equipment has been internationally classified under ISO 5 standards, and is a working tool in the most extreme circumstances and emergency situations of rapid response.

Our Bubble is the first and unique portable operating room in the world.

## The bubble operating theatre

In Kabala hospital, Sierra Leone, MSF has been trialling an innovative mobile surgical space that could revolutionise the way our medical teams conduct surgery in conflict zones and in the aftermath of emergencies.

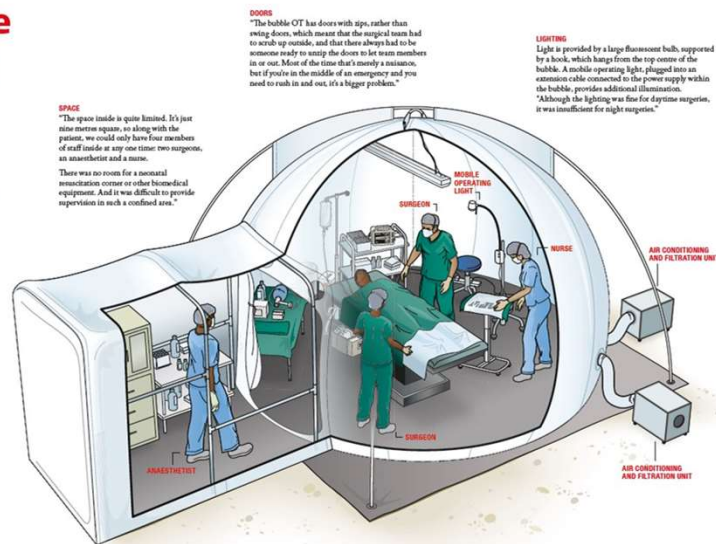
The bubble operating theatre is a portable surgical unit equipped with an air filter that provides sterile conditions for surgery. Quick to assemble, the bubble OT is easily deployed and is designed for repeated use.

Dr Soala Guimbert, MSF obstetrics and gynaecology adviser, explains the advantages – and the challenges – of using this structure.

"MSF began working in Kabala district hospital in 2016, with a particular focus on the health of mothers and children. Sierra Leone has the highest infant mortality rate in the world, and with the country still struggling to rebuild its health system after the west Africa Ebola epidemic, MSF needed to assist.

At the time we started working in Kabala, the operating theatre was undergoing renovation. It was vital that we could carry on conducting surgery, so we decided to use the bubble operating theatre.

MSF had already deployed it in Syria and in the Philippines, so it wasn't a complete unknown. Between April and November 2016, we performed a total of 90 surgeries inside the bubble OT – an average of one every three days. Seventy-three of these were caesarean sections, but we also did more complex surgeries, including uterine ruptures, hysterectomies etc..."



**TEMPERATURE**  
"The temperature inside the bubble OT was quite extreme. Despite having two air conditioning machines, the teams still found the heat difficult to deal with, especially when surgeries were longer or more complicated than expected."

**EMERGENCIES**  
"The bubble OT is easy and fast to set up and use. It's a fantastic tool and ideal as a temporary measure in emergencies when other surgical spaces are not available. However, it provides plenty of extra challenges, and some adjustments need to be made to make it more user-friendly."



ZONAIR 3D

Unidad: ZONAIR 3D  
Código: E\_19.236\_Inf

Sistema: HVAC



### 3.2.2 Contaje de partículas

#### • Procedimiento:

Se utilizará la Norma UNE EN ISO 14644-1 como norma técnica y para definir los resultados obtenidos en cuanto a Criterios de aceptación. Los puntos de muestreo vienen definidos en la Tabla A.1 de dicha norma.

Se efectuará 1 lectura por punto (el volumen de muestreo de 1m<sup>3</sup> por punto). Los resultados se darán en partículas/ m<sup>3</sup>.

Tablas de límites:

Internacional: Norma UNE EN ISO 14644-1:2015 - Clasificación ambiental según el número de partículas en el aire			
CLASE "N" de ISO	Valor máximo de la concentración de partículas (partículas/m <sup>3</sup> de aire) igual o mayor a: [Nota: Se tienen en cuenta únicamente los dos tamaños de partículas especificados en las GMP]		
	de 0,5 µm de Ø	de 1,0 µm de Ø	de 5 µm de Ø
ISO 1	---	---	---
ISO 2	4	---	---
ISO 3	35	---	---
ISO 4	352	83	---
ISO 5	3.520	832	Factor ( ISO M (20; ≥5 µm ))
ISO 6	35.200	8.320	293
ISO 7	352.000	83.200	2.930
ISO 8	3.520.000	832.000	29.300
ISO 9	35.200.000	8.320.000	293.000

#### • Criterio de aceptación:

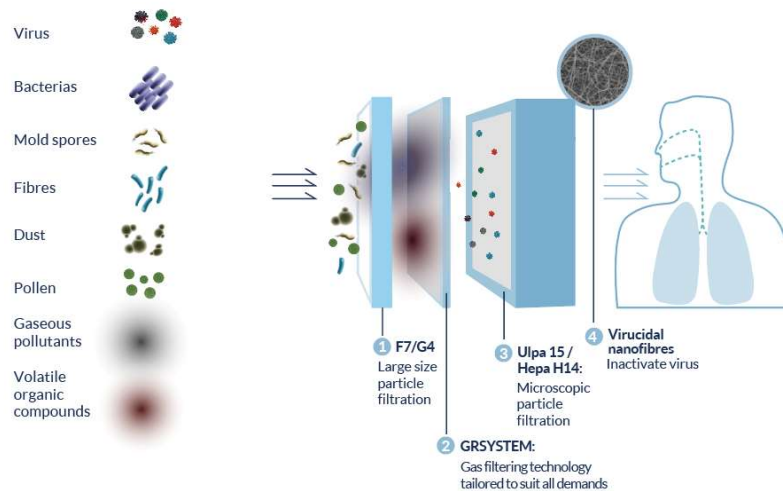
La concentración de partículas es la correspondiente a la clasificación especificada (ISO 5).

Tabla 2. - Sistema HVAC – ZONAIR 3D Contaje de partículas (Cumplimiento de especificaciones)					
Anexo	Referencia	Teórico	C.A. Concentración máxima de partículas/m <sup>3</sup> por punto		Veredicto
1	ZONAIR 3D	ISO 5	0,5 µm	3.520	ISO 5 CONFORME
			5,0 µm	20	

C.A.: Criterio de aceptación

Excellence is the result of the use of quality non-deformable materials, handmade equipment, absolutely stalled and tight air with the best filters on the market, tested and approved one by one.

No equipment enters the market if it does not pass a test of 0.0 on 0.3 micron particles (PM 0.3).





Quality certified by  
exhaustive tests in  
the most popular  
International Air  
Quality laboratory:



REFERENCIA:

## INFORME DE ENSAYO

## 1.- IDENTIFICACIÓN DEL ENSAYO

OFERTA	JVL 02.11.2020	FECHA:	03/11/2020
REFERENCIA:			
MOTIVO OFERTA:	ENSAYOS DE EFICACIA EQUIPOS PAB HOME		
CLIENTE:	ZONAIR3D, S.L.	CIF:	B01924420
SOLICITADO POR:	D. XAVIER TRILLO		
POR:	C/ Cerdanya, 7 - 08140 - Caldes de Montbui		
Correo electrónico:	Zonair3d@zonair3d.com	Telno:	93 55103
		Fax:	



## 6. ANEXO RESULTADOS ENSAYO DE EFICACIA DEL EQUIPO PAB 500 HOME 5 REALIZADO POR EL LABORATORIO INDEPENDIENTE EUROFINS/IPROMA

## DESCRIPCIÓN DEL ENSAYO:

Se han realizado los muestreos de aire de inmisión (RESPIRABLE) analizando parámetros físico-químicos y microbiológicos, de forma previa (contaminación de fondo en situación normal de aire interior respirable de atmósfera laboral) y posterior a la puesta en funcionamiento del equipo, para cuantificar la eficacia de la reducción de dichos contaminantes, en unas salas. Las salas no dispusieron de ventilación forzada para evitar diluir los contaminantes presentes en el aire. El equipo dispone de 3 ETAPAS de FILTRACIÓN; Pre filtro G4, filtración de gases GRSystem™ GRS2 HEALTHCARE y filtración absoluta ULPA 15.

RESUMEN resultados de la eficacia del equipo PAB 500 HOME 5 obtenidos:

Condiciones ambientales del entorno:

CONDICIONES AMBIENTALES	MÍNIMA	MEDIA	MÁXIMA
TEMPERATURA	20,7°C	21,2°C	22,2°C
HUMEDAD RELATIVA	43,90%	44,80%	47,20%
CO2	400ppm	492ppm	635ppm

Eficacia en tanto % reducción de MATERIAL PARTICULADO y GASES CONTAMINANTES en el ambiente:

TIPO DE CONTAMINANTE	PARÁMETRO	% REDUCCIÓN	TIEMPO
MATERIAL PARTICULADO	PM2.5	100%	1 hora
	PM1	100%	1 hora
	PM0.5	99,40%	1 hora
	PM0.3	100%	1 hora
GASES CONTAMINANTES	HCHO	67,40%	1 hora
		100,00%	2 horas
	O3	92,95%	1 hora
	SO2	60%	1 hora
	NO2	60,83%	1 hora

The spectrum of ZONAIR3D's™ family of products is the most extensive and varied on the market.

We have technical equipment such as the Bubble Pure Air, portable equipment with different flow rates and a wide range of fixed installation equipment for architectural integration into the wall or false ceiling and automotive.

### SCALABLE TECHNOLOGY IN ALL ZONAIR3D™ PRODUCT RANGE:



**BUBBLE PURE AIR**  
High performance and  
operating room



**AIR+ RANGE**  
AIR PURIFIERS PLUG & PLAY

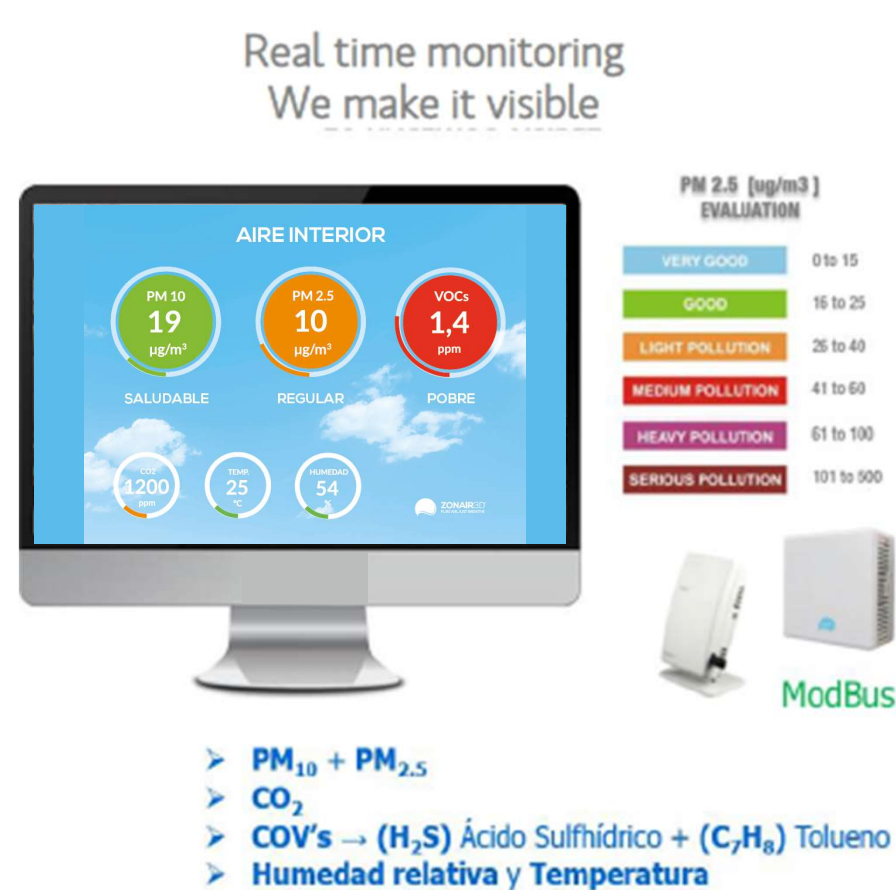


**AIR PRO RANGE**  
AIR PURIFIERS  
INTEGRATIVE CONSTRUCTION



**AIR MOVE RANGE**  
AIR PURIFIERS FOR  
MOBILITY

ZONAIR3D™ provides different platforms for connectivity and monitoring of indoor air quality at SMART CITY level, through its ModBus probes, which allow to have either a local platform or API's that interrelate the technologies BIG DATA, IA, MACHINE LEARNING, BLOCKCHAIN and CYBERSECURITY, those adapted to the customer's needs, with connectivity to any Business Management System (BMS) platform.





## REFERENCES

### OFFICES



Carrier (New Bund World Trade Center) Shanghai, China



HW Spaces, Shanghai, China  
HW Spaces, Beijing, China



Haworth Showroom, Shanghai, China



Patio Foster Office Building, Las Condes, Santiago, Chile  
Grupo Patio Headquarters, Las Condes, Santiago, Chile



Ingeclean Headquarters, Dorsal, Santiago, Chile



Zonair3d Headquarters Offices, Barcelona, Spain



Puig Headquarters - Olfactory System for perfumes, Barcelona, Spain  
Puig Paris - Olfactory System for perfumes, Paris, France



Vertigo Architects Offices, Dubai, United Arab Emirates



Verse Design, Shanghai, China



Cartier Office, Hong Kong  
Cartier Office, Beijing  
Cartier Office, Shanghai



Eurofred Headquarters, Barcelona, Spain

## REFERENCES

### SCHOOLS



New York University, Shanghai Campus. NYU building, 1555 Century Ave, Pudong, Shanghai, China



Montessori School of Shanghai. Donghu Rd, Xuhui, Shanghai, China



Colegio Alemán, Valencia, SPAIN



Universidad de Córdoba, SPAIN  
Colegis públicos, Castril, Granada, SPAIN



Universidad de Sevilla, Sevilla, Spain



Conselleria d'Educació, Investigació, Cultura i Esport, Valencia, Spain



American School of Milan, Milan, Italy



Vila Olímpica School. Barcelona, Spain



Pau Villa de Montjuïc School. Barcelona, Spain

## REFERENCES

### BEAUTY & WELLNESS



Clinica Planas – Centre devoted to plastic and reconstructive surgery.  
Barcelona, Spain



Son De Mar – Hair Saloon & Beauty Treatments. Barcelona, Spain



IMPALA VITAL - Castellón, Spain



Lostao. Zaragoza, Spain.



Natura Bissé. Treatment and sale points, Worldwide.



PARIS BEAUTE Paris, France



BLAUCELDONA - Barcelona, Spain



ALURA BEAUTY - Barcelona, Spain

## REFERENCES

### MALLS



Capitaland, Tampines Mall



NEIMAN MARCUS, New York, USA



Bergdorf Goodman, Newy York, USA



67 supermarkets, Barcelona, Spain



LVMH LIFE Paris, France

### SANITARIAN



Hospital Sant Joan de Déu, Barcelona, SPAIN



Oscar Surós, Barcelona, SPAIN



Sanitas Iradier, Barcelona, SPAIN



Hospital Quirón, Barcelona, SPAIN



Centro Médico Sitges, Barcelona, SPAIN



Hospitales IMED, Valencia, SPAIN



## REFERENCES

### RESTAURANTS



Carlot Akaneya Restaurant, Barcelona-Madrid, Spain



Moncho's Group Restaurants, Barcelona, Spain



Chichu's Tapas Bar, Barcelona, Spain



Ipar-Txoko, Barcelona, Spain



El Celler de Can Roca, Girona, Spain. "Best of the best" and "The World's Best Restaurant in the World" 2013 - 2015



Botafumeiro, Barcelona, Spain



Tinars, Girona, Spain



Bell-lloc, Girona, Spain



Mestís Restaurante, Palma de Mallorca, Spain



Aspic Restaurante, Barcelona, Spain

## REFERENCES

### HOTELS



LVMH  
MOËT HENNESSY • LOUIS VUITTON

Spa Guerlain LVMH Cheval Blanc Hotels, St tropez, St. Barth. Maldives



Sheraton  
Salobre  
GOLF RESORT & SPA  
GRAN CANARIA

Sheraton Salobre, Gran Canaria, Spain



LA FLORIDA  
HOTEL

Hotel La Florida – Spa Barcelonan, Spain.



HOTEL  
ALMA  
BARCELONA

Hotel Alma, Barcelona, Spain.

### MUSEUMS



mnhnac

National Museum of Natural History and Science Lisboa, Portugal

## REFERENCES

### TRANSPORTS



BERGADANA ADVANCED CAR SOLUTIONS Barcelona, Spain



RENFE, Barcelona, Spain



Railgrup, Barcelona, Spain



TMB Headquarters, Centros control y Centros de operaciones. , Barcelona, Spain



TRAM, Barcelona, Spain



FERROCARRILS DE LA GENERALITAT, Barcelona, Spain



METRO MADRID Madrid, Spain



EMPRESA MUNICIPAL TRANSPORTES MADRID Madrid, Spain



Àrea Metropolitana de Barcelona, Barcelona, Spain

### RESIDENTIAL

Ezdam Twin Villa - Four floors Luxury Villa, Doha, Qatar

Qatar Palace - Sports area (Gym), Doha, Qatar

Al Jilaya Complex 1 - Two floors Luxury Villa, Doha, Qatar

Luxury Sport Woman Villa, Barcelona, Spain

One Oasis Luxury Residences, Macau, China

22@, Barcelona, Spain

Barcelonesa de inmuebles, Barcelona, Spain

## REFERENCES

### OTHERS



CSIC, Barcelona, Spain  
Museo Casa de la Ciencia - Delegación CSIC Andalucía-Sevilla, Spain

GRUPO **etra**

GRUPO ETRA Madrid, Spain



CIRCUIT DE BARCELONA, Barcelona, Spain



ISP GRUP Barcelona, Spain

Canal  
de Isabel II

CANAL DE ISABEL II Madrid, Spain



LA CAIXA Barcelona, Spain

**Bankia**

Bankia. Spain



Grupo Antolin. Spain



Thyssenkrupp. Germany