

HOSPITALS



AN INTEGRATED VISION OF THE DESIGN AND CONSTRUCTION OF THE HOSPITAL

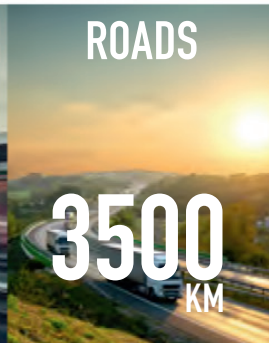








ARCHITECTURE
INFRASTRUCTURE & TRANSPORT





CAPACITY AND EXPERIENCE

EXPERIENCE IN LARGE PROJECTS

OPTIMIZATION OF SOLUTIONS

MULTIDISCIPLINARY TEAMS

COMPETENCE, QUALITY & RELIABILITY

THE EXPERIENCE OF 2.404 PEOPLE

A BILLING OF 417 MILLION €

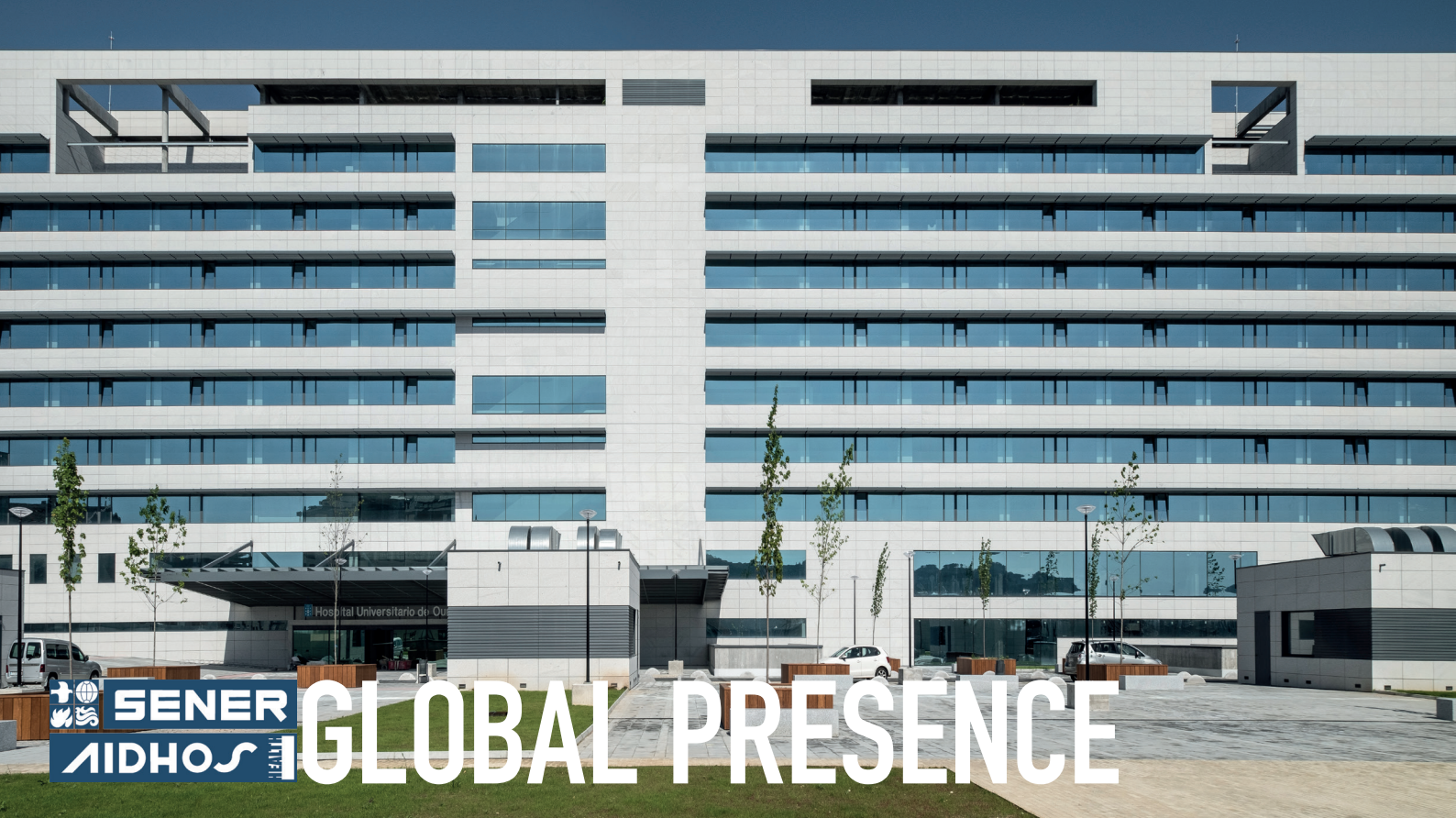


AIRPORTS

PORTS

113

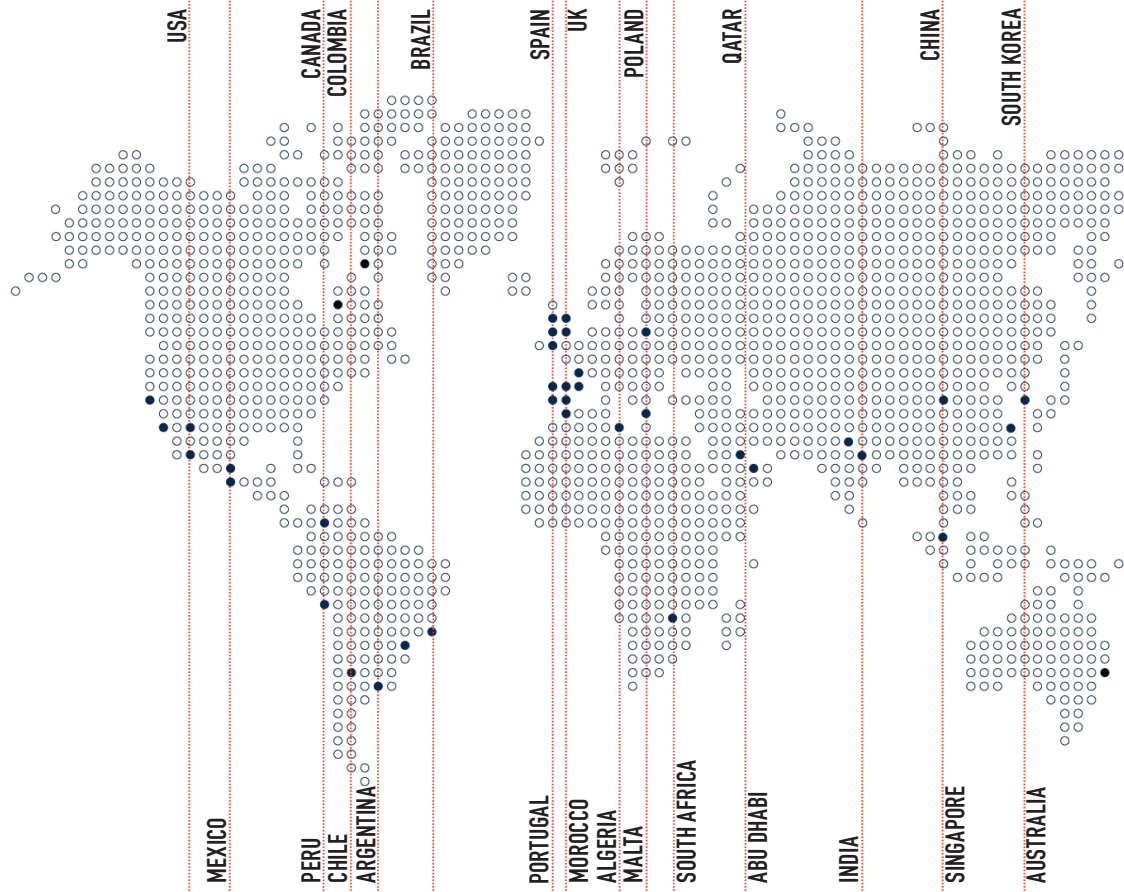
130



SENER

AIDHOS

GLOBAL PRESENCE



SAN FRANCISCO	LEICESTER
LOS ANGELES	YORK
QUERETARO	LONDON
MEXICO CITY	WEST SUSSEX
BOGOTÁ	LINCOLN
LIMA	VARSOVIA
SANTIAGO DE CHILE	BUSAN
BUENOS AIRES	SANGHAI
SÃO PAULO	CHENGDU
RIO DE JANEIRO	SIDNEY
MADRID	HYDERABAT
VIZCAIA	BANGALORE
BARCELONA	SINGAPORE
SEVILLA	ABU DABHI
VALENCIA	DOHA
ALBACETE	JOHANESBURGO
MÉRIDA	MALTA
CADIZ	ALGER
LISBOA	RABAT
MANCHESTER	MONTREAL
RUGBY	TORONTO



IMAGE FOR THE A CORUÑA UNIVERSITY HOSPITAL COMPETITION, 2021



HOSPITAL REFERENCES



LaFe

HOSPITAL UNIVERSITARI I P

POLITÈCNIC



LA FE UNIVERSITY HOSPITAL

VALENCIA, SPAIN 2011

251.879 SQM

993 BEDS

216 M€

CAMPUS HEALTH

GRANADA, SPAIN 2014

108.000 SQM

660 BEDS

122 M€







IMQ PRIVATE HOSPITAL

BILBAO, SPAIN 2012

43.829 SQM

158 BEDS

42 M€





ALZIRA HOSPITAL

VALENCIA, SPAIN 1999

37.500 SQM

564 BEDS

32 M€



HOSPITAL
DE
LA RIBERA

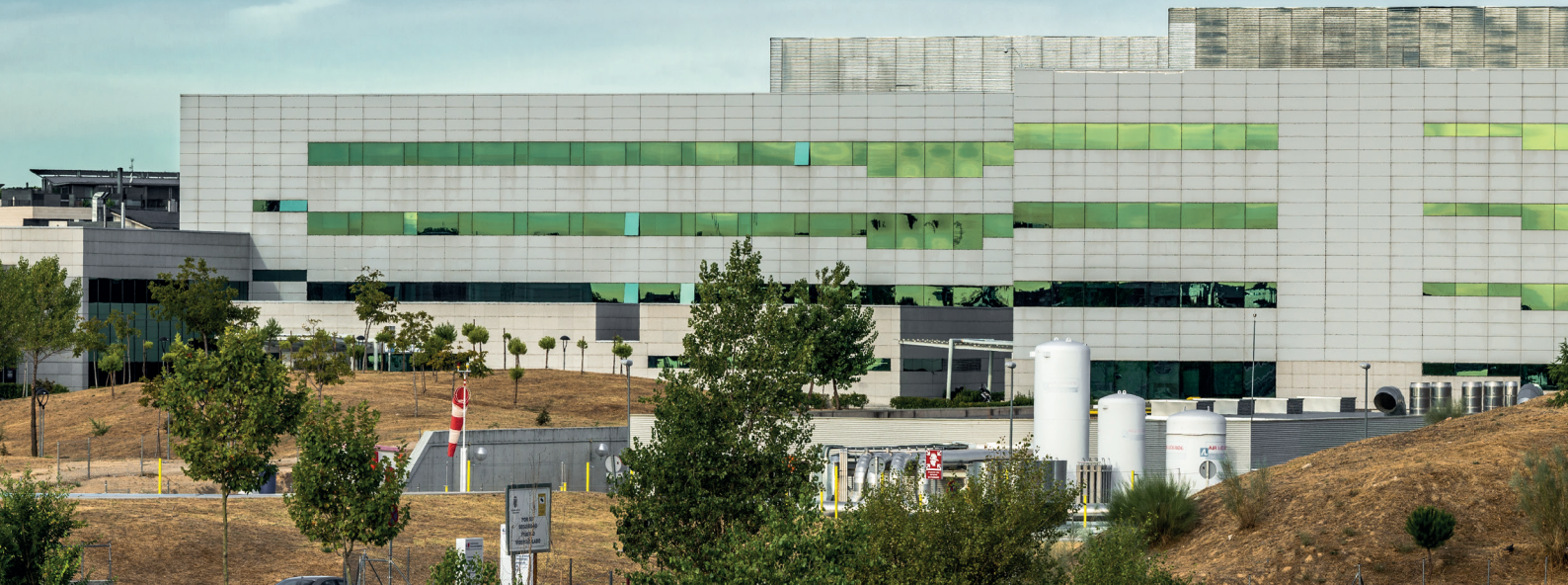
"PUERTA DE HIERRO" UNIVERSITY HOSPITAL

MADRID, SPAIN 2007

222.500 SQM

878 BEDS

200 M€



 Hospital Universitario Puerta de Hierro Majadahonda 



"SAN CARLOS" HOSPITAL

MADRID, SPAIN 2012

140.000 SQM

800 BEDS

90 M€





"SON ESPASES" UNIVERSITY HOSPITAL

PALMA DE MALLORCA, SPAIN 2012

174.000 SQM

1.032 BEDS

180 M€





"SON LLATZER" HOSPITAL

PALMA DE MALLORCA, SPAIN 1993

86.998 SQM

564 BEDS

54 M€





REHABILITATION CENTER

PORTO, PORTUGAL 2014

21.000 SQM

100 BEDS

18.5 M€





Centro de Recuperação
Dr. Ferreira Alves



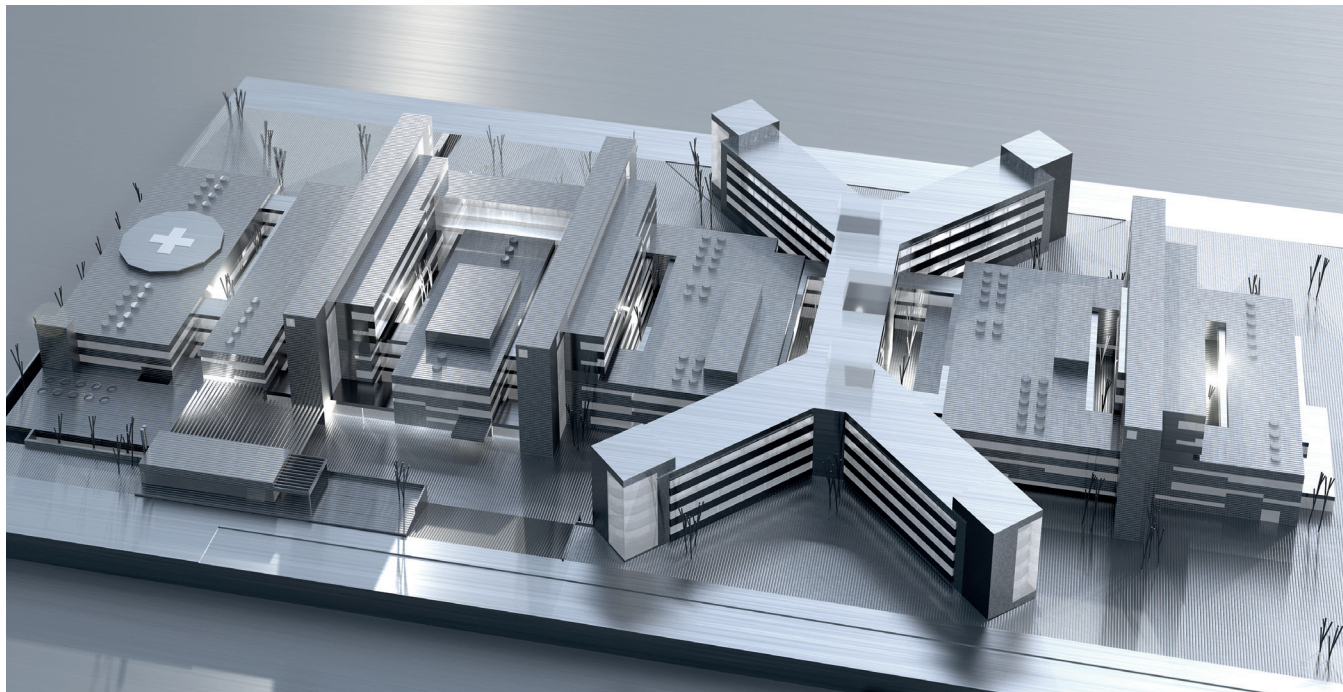
POLICE HOSPITAL

LIMA, PERU 2018

30.000 SQM

120 BEDS

100 M\$





GENERAL HOSPITAL

MEXICO CITY, MEXICO

16.000 SQM

9.4 M\$





EMERGENCY HOSPITAL

MADRID, SPAIN 2020

9.950 SQM

18 M€





HOSPITAL ONCOLÓGICO
TERAPIAS AVANZADAS



Hospital General Universitario
Gregorio Marañón



ONCOLOGY HOSPITAL

MADRID, SPAIN 2021

17.500 SQM

76 BEDS

22 M€





HOSPITAL DE MALAGA

MALAGA HOSPITAL

MALAGA, SPAIN 2021

225.600 SQM





HOSPITAL SAN JUAN DE DIOS

"SAN JUAN DE DIOS" HOSPITAL

BOGOTA, COLOMBIA 2020

60.000 SQM

255 BEDS

90 M\$





LABORATORIES AND CLEAN ROOMS

EMERGENCY HOSPITAL, MADRID

MADRID REGIONAL LABORATORY

P3 BIOLOGICAL CONTAINMENT LABORATORY

“GREGORIO MARAÑÓN” HOSPITAL, MADRID

MICROBIOLOGY AND HEMATOLOGY LABORATORY

“CLÍNICO SAN CARLOS” HOSPITAL, MADRID

TISSUE BANK AND TRANSPLANT COORDINATION

SENER AEROSPACE FACILITIES

ISO-5 CLEAN ROOM FOR THE PRODUCTION OF HYBRID MICROWAVE CIRCUITES

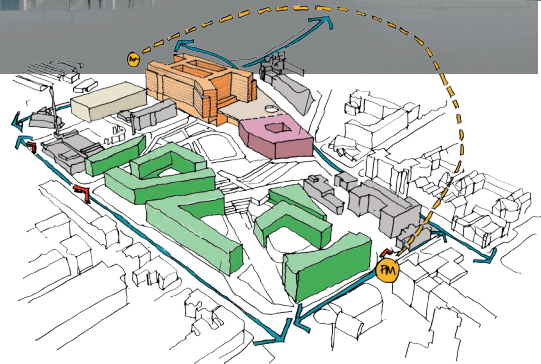
ISO-8 CLEAN ROOM FOR AUTOMATED MANUFACTURING





ROYAL LIVERPOOL UNIVERSITY HOSPITAL

LIVERPOOL, UK 2014 COMPETITIVE DIALOGUE







LA PAZ UNIVERSITY HOSPITAL
GREGORIO MARAÑON HOSPITAL
JUAN RAMON JIMENEZ HOSPITAL
PRINCESS HOSPITAL
CLINIC HOSPITAL OF VALENCIA
CLINIC HOSPITAL OF ZARAGOZA
AVILES HOSPITAL
PALENCIA GENERAL HOSPITAL
MIGUEL SERVET HOSPITAL
PUERTOLLANO HOSPITAL
AVILA GENERAL HOSPITAL
VIRGEN DE ALARCOS HOSPITAL
GUADALAJARA HOSPITAL
GALDACANO HOSPITAL
CABUEÑES HOSPITAL
UBEDA HOSPITAL
CALATAYUD HOSPITAL
DENIA HOSPITAL
FERROL MARINE HOSPITAL
SAN JUAN UNIVERSITY HOSPITAL
MELILLA HOSPITAL
ORIHUELA HOSPITAL
REQUENA HOSPITAL
BIERZO HOSPITAL

DR. NEGRIN GENERAL HOSPITAL
VIRGEN DE LA ARRIXACA HOSPITAL
ALICANTE GENERAL HOSPITAL
CABUEÑES HOSPITAL
CIEZA HOSPITAL
JIMENEZ DIAZ FOUNDATION
MORALES MESEGUER HOSPITAL
ONTENIENTE HOSPITAL
SONORA HOSPITAL
ISLA DE LA PALMA HOSPITAL
CALAHORRA HOSPITAL
SAN VICENTE DEL RASPEIG HOSPITAL
MONTECELO HOSPITAL
OURENSE HOSPITAL
REINA SOFIA HOSPITAL
INSULAR LAS PALMAS HOSPITAL
JUAN CANALEJO HOSPITAL
VILA-REAL HOSPITAL
LEON HOSPITAL
MOTHER'S AND CHILD'S LAS PALMAS
ALMANSA HOSPITAL
TORREVIEJA HOSPITAL
ZARAGOZA HEALTHCARE CENTER
MOTHER'S AND CHILD'S PORTO

ALBACETE UNIVERSITY HOSPITAL
SIDRA MEDICAL CENTER DOHA
ACTUR HEALTHCARE CENTER
CHICHO FABREGAS HOSPITAL PANAMA
FAFE HOSPITAL (PORTUGAL)
PASCO HOSPITAL (PERU)
YURIMAGUAS HOSPITAL(PERU)
INFECTIOUS DISEASES HOSPITAL
FARWANIYA HOSPITAL KUWAIT
AL ADAN HOSPITAL KUWAIT
CORDOBA HIGH RESOLUTION CENTER
MEXICO CENTRAL HOSPITAL
ORAN BURNT CENTER
ORAN CANCER INSTITUTE
WROCLAWIU MILITARY HOSPITAL
EIBAR HOSPITAL
MALAGA HIGH RESOLUTION CENTER
BOGOTA CHILDREN'S HEART FOUNDATION

80 NEW HOSPITALS
120 LARGE HOSPITAL REFURBISHMENT
3.500.000 SQM BUILT HOSPITALS





COMPLEX BUILDINGS

ARENA FONTE NOVA SAN SALVADOR DE BAHIA





BBVA

BBVA

BBVA HEADQUARTERS

EUSKALDUNA CONCERT HALL

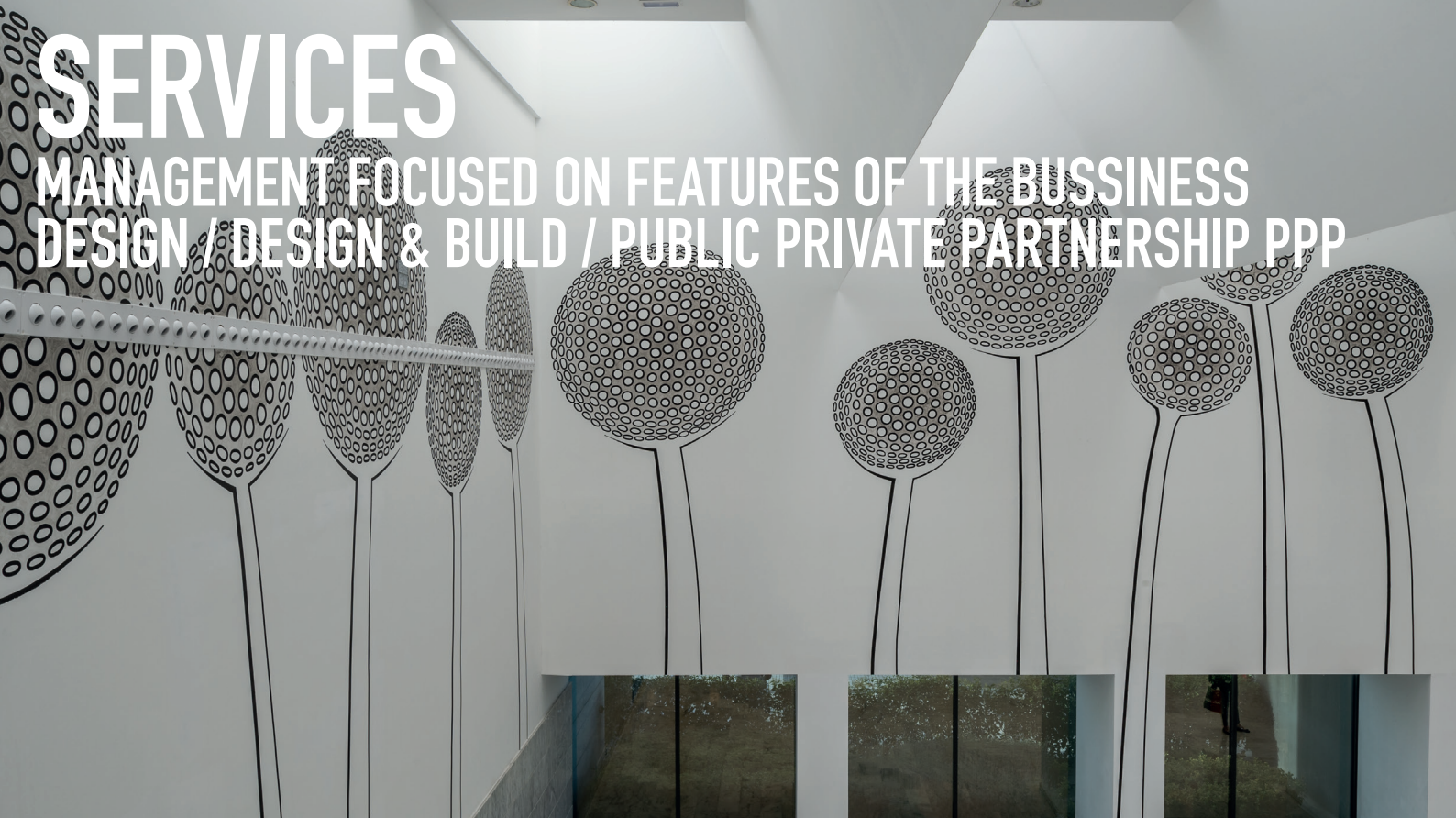


EUROSTAR PALACE CORDOBA HOTEL





ZARAGOZA AIRPORT



SERVICES

MANAGEMENT FOCUSED ON FEATURES OF THE BUSINESS
DESIGN / DESIGN & BUILD / PUBLIC PRIVATE PARTNERSHIP PPP

PLANNING

PROJECT MANAGEMENT
PRE-FEASIBILITY STUDY
STRATEGIC & FOUNDATION PLAN
CONCEPT DESIGN

DESIGN

SCHEMATIC DESIGN
VALUE ENGINEERING
DESIGN DEVELOPMENT & SYSTEM INTEGRATION
TIMEFRAMES & COST ESTIMATION

CONSTRUCTION

CONSTRUCTION MANAGEMENT
BUILDING WORKS SUPERVISION & CONTROL
TECHNICAL ASSISTANCE ON-SITE
COMMISSIONING

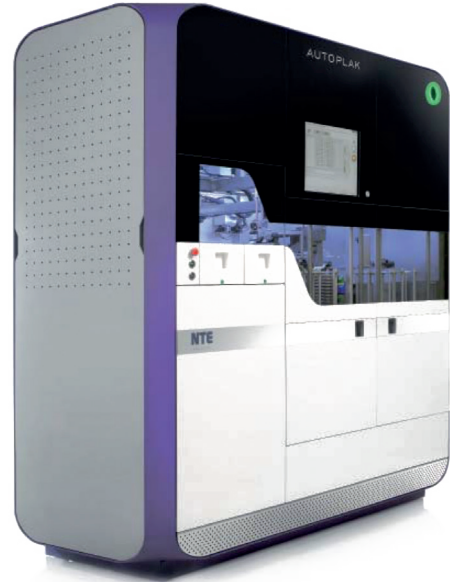
OPERATION & MAINTENANCE

OPERATIONAL PLAN & MAINTENANCE
COST OPTIMIZATION
FACILITY MANAGEMENT
ASSISTANCE DURING START-UP

TECHNOLOGY & INNOVATION

SENER IS A COMPANY RECOGNIZED FOR ITS CAPACITY TO LEAD MULTIDISCIPLINARY INNOVATION PROJECTS.

IN THE HEALTH SECTOR, SEVERAL PATENTS HAVE BEEN DEVELOPED IN THE FIELD OF AUTOMATION OF LABORATORY PROCESSES SUCH AS THE AUTOPLAK SYSTEM FOR INOCULATION AND SEEDING OF LIQUID SAMPLES FOR PLATE CULTURE IN THE MICROBIOLOGY LABORATORY.

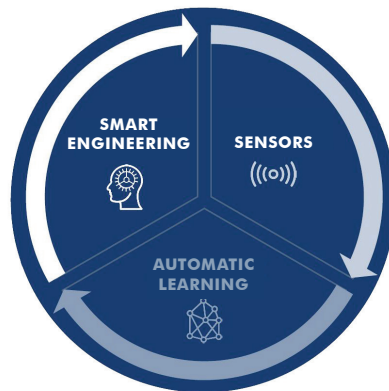


“RESPIRA” PROGRAM

“RESPIRA” IS AN INTELLIGENT VENTILATION CONTROL SYSTEM THAT IMPROVES COMFORT, AIR QUALITY AND ENERGY EFFICIENCY IN LARGE INFRASTRUCTURES.

BASED ON DYNAMIC ALGORITHMS, IT SEEK BALANCE IN COMPLEX VARIABLES SUCH AS TEMPERATURE, HUMINITY AND AIR QUALITY TO PREDICT ENVIRONMENTAL CONDITIONS AND OFFER GREATER COMFORT TO USERS.

“RESPIRA” IS A 4.0 PRODUCT, AN INTELLIGENT VENTILATION THAT IS CONSTANTLY LEARNING AND ADAPTING.



$$\text{respira} = \text{ARTIFICIAL INTELLIGENCE} \times (\text{THERMAL COMFORT} + \text{AIR QUALITY} + \text{ENERGY EFFICIENCY})$$

The equation is represented by icons: a blue head icon for Artificial Intelligence, a red thermometer icon for Thermal Comfort, a blue gear icon for Air Quality, and a green lightbulb icon for Energy Efficiency. The Thermal Comfort, Air Quality, and Energy Efficiency icons are grouped within large parentheses.



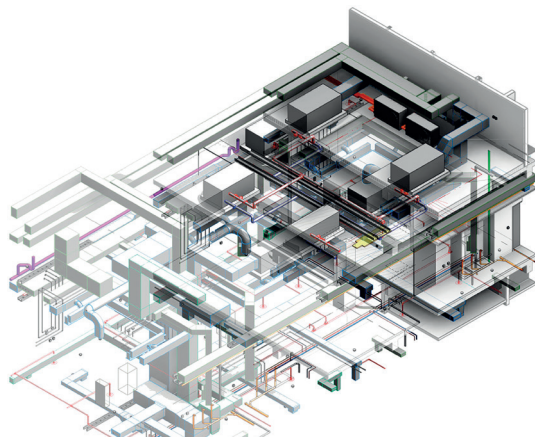
BIM

METHODOLOGY

BIM REPRESENTS A DEFINITIVE STEP TOWARDS DIGITALIZATION IN THE FIELD OF HOSPITALS.

SENER-AIDHOS HAS A WIDE AND RECOGNIZED EXPERIENCE IN THE REALIZATION AND MANEGEMENT OF BIM MODELS APPLIED TO INFRASTRUCTURES, WITH THE SENER BIM ON-SITE TOOLS AND DIGITAL BIM BOOK FOR OPERATION AND MAINTENANCE.

**KRAKOW STADIUM
AUTODESK BIM EXPERIENCE AWARD**



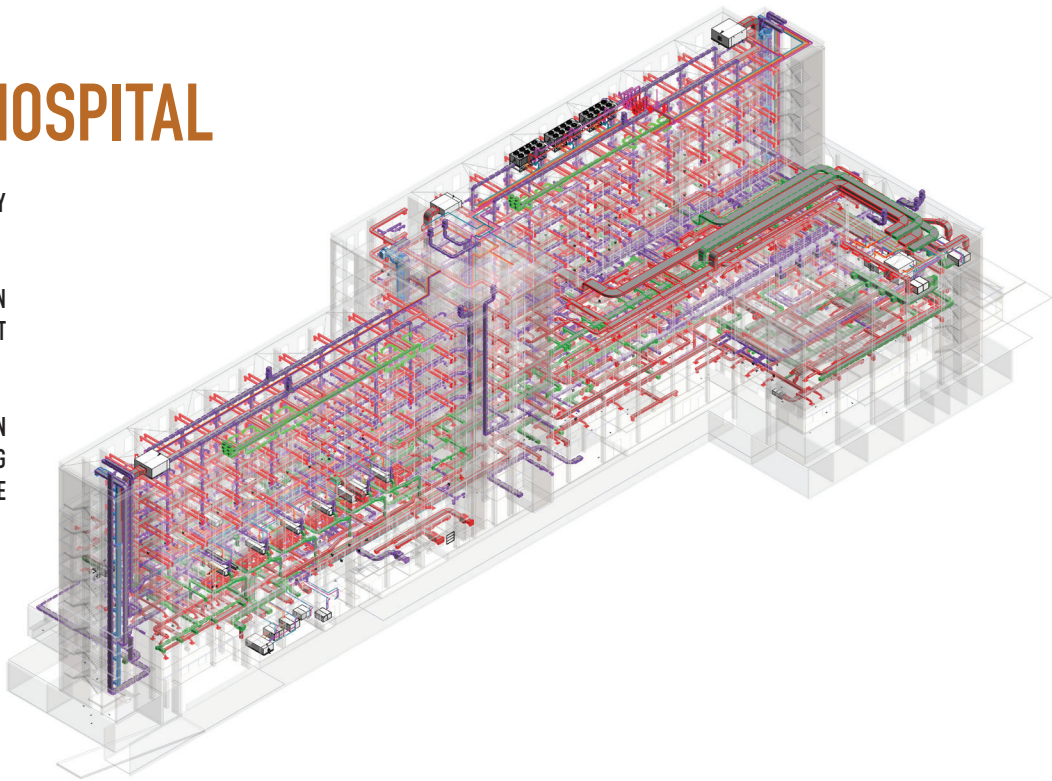
BIM PROJECT

SAN JUAN DE DIOS HOSPITAL

“SAN JUAN DE DIOS” HOSPITAL HAS BEEN DESIGN COMPLETELY WITH BIM METHODOLOGY.

THE SPECIALTIES ARE CORRDIATED WITH A 3D MODEL HOSTED IN THE CLOUD, THIS FACILITATES THE WORK BETWEEN THE DIFFERENT TEAMS AN ALLOWS RELIABLE EXTRACTION OF PROJECT DATA.

BIM METHODOLOGY HAS PERMITTED A PERFECT DESIGN BETWEEN ARCHITECTURE, ENGINEERING AND CONSTRUCTION, OBTAINING GREATS RESULTS AND EFFICIENCY IMPROVEMENTS IN THE DIFFERENT DESIGN CONSTRUCTION PROCESSES.





VALENCIA PRIVATE HOSPITAL COMPETITION, 2020

MAH ONLINE

MASTER DEGREE IN ORGANIZATION & MANAGEMENT OF HEALTHCARE INFRASTRUCTURE

INTERDISCIPLINARY UNIVERSITY TEACHING

MORE THAN 300 STUDENTS IN 11 DEVELOPED EDITIONS

PROFESSIONALS OF RECOGNIZED PRESTIGE

DESIGN SCOPE, CONSTRUCTION AND MANAGEMENT OF HOSPITALS

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