

2023

ARC⁷

Healthcare Book

FOREWORD

ARC International Design Consultants offers a diverse team of specialists with expertise in healthcare facility planning and design.

Already with a strong portfolio in Europe, Middle East and Africa, our vision is to be at the forefront of healthcare design.

- > Designing projects of increasing scale, with huge social impact
- > Working across multiple regions, markets and sectors
- > Part of the world's most ambitious future projects

Our multi-disciplinary team, based in London and Lisbon, draws from a wealth of experience across all sectors to create healthcare facilities that are well considered, flexible and future oriented.

At the core of our philosophy is the belief that each client and every project requires an exceptional solution in a unique context.

Our experience and knowledge of international best practice, design trends and technology offers strategic insight into complex projects' design and investment. Through strategic planning and design, our team can deliver places that improve the quality of life of those that use them and are better prepared to face future challenges.

Please contact us if we can assist you in an advisory or design role:

arc-idc@arc-idc.com



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01.

OUR APPROACH

OUR APPROACH

*Delivering
exceptional
results through
our integrated
approach*

Our multi-disciplinary design team based in London and Lisbon serves a portfolio of projects spanning Europe, the Middle East, Asia and Africa.

Offering an integrated approach to our clients, at ARC's core is a carefully selected and diverse team of specialists with expertise in a wide range of services and sectors. ARC has a successful track record of designing complex projects across multiple and challenging markets and all project stages.

In its mission, ARC aspires to excellence and to assert itself as an international reference in design. To this end, ARC promotes talent and research and development to achieve the maximum potential in your projects.

We seek to identify our clients' real needs, not just deliver good work. It is our philosophy that each client and every project requires an exceptional solution in a unique context. We work in partnership with our clients to provide personalized solutions that meet and exceed their expectations.

We measure our success by our clients' success. Our specialist knowledge and expertise in best practice offers strategic insight in design, operation and investment. We are committed to adding value for our clients, by delivering competitive advantage, performance results and bottom line impact.



OUR VISION

Our vision is to inform the future evolution of design

- › By striving for excellence;
- › By aspiring to be recognized leaders in our field;
- › By facilitating our clients' utmost success

OUR MISSION

Our mission is to exceed our clients aspirations

- › To create unique, tailor made solutions;
- › To work in partnership with our clients;
- › To provide culturally sensitive solutions;
- › To achieve sustainable, high quality results

>20,000

beds designed

>20,000,000

sqm designed

OUR TEAM

Great things in business are not achieved by one person alone, they are achieved by a team of outstanding people.

Our daily lives and experiences are shaped and influenced by the places in which we live, work and play. Well-designed places improve the quality of life of those who use them and create a sense of local identity and community.

We approach design from a holistic perspective, that ensures that the urban planning, landscape, architecture and interior design blend seamlessly, creating that identity and sense of place.

We take inspiration from the local vernacular to interpret the heritage, culture, form and materiality of the region to establish a concept and aesthetic that respects and compliments the setting.

We strive to be on the leading edge of research, trends, technology and best practice in design across the globe. We are proud to be part of some of the world's most ambitious future projects and aspire to be recognized leaders in our field.

OUR SERVICES

- › *Masterplanning*
- › *Medical Planning*
- › *Architecture*
- › *Interior Design*
- › *Landscape Design*
- › *Signage & Wayfinding*
- › *Graphic Design*
- › *Specialist Lighting Design*
- › *Visualizations*
- › *BIM Consulting*
- › *Technical Advisory*

OUR SECTORS

- › *Masterplans*
- › *Healthcare*
- › *Residential*
- › *Cultural*
- › *Mixed Use*
- › *Entertainment*
- › *Offices*
- › *Hospitality*
- › *Education*
- › *Religious*
- › *Laboratories*
- › *Industrial*

**PATRÍCIA LIMA***Operations Manager*

19 years' experience as Team Leader in charge of fast-track projects. Now focussed on managing ARC Operations.

**JOÃO CRUZ NEVES***Head of Architecture*

Goal-driven leader with 22 years of experience, leading large teams and complex projects.

**AMY PORTEOUS***Director of International Projects*

With 17 years' experience in large scale and complex developments.

**VASCO CARVALHO***Design Director*

Over 20 years' experience with successful track-records in design and technical solutions.

**PEDRO GARGATÉ***Healthcare Design Manager*

With 18 years' focussed on healthcare architecture and medical planning.

**SCOTT DYDE***Head of Landscape*

Over 25 years' experience in landscape design across the globe.

**PABLO ROSSI***Head of Hospitality*

Over 26 years' experience in Europe, the Middle East, Africa, China and South America.

**ANNA ADEBAYO***Head of Interior Design*

Over 25 years' experience, leading international interior design projects.

**CLAIRE HAMILL***Lead Lighting Designer*

Over 14 years of experience in interior and lighting design, 40 Under 40 award winner.

OUR GLOBAL PRESENCE

ARC serves a project portfolio that spans the globe, from our offices in London and Lisbon.

We work with local partners in all regions that we work to deliver world class designs tailored to local requirements, heritage and culture.

Our multi-disciplinary team of specialist designers draws from international experience and expertise across all sectors. We are a growing team, with plans to continue to invest in our team in 2023 and further increase our global portfolio.



Office Location



Project Location





Poland

Malta

Nigeria

Nigeria

Angola

Zambia

Uganda

Egypt

Jordan

Saudi Arabia

Kuwait

Pakistan

Sri Lanka

China

OUR CORE PRINCIPLES

Our core principles guide us in achieving exceptional results in any context.

It is important that the project vision is not lost during the planning, design, build, or operational phases. With this in mind, ARC has developed a series of core principles and commitments that create a framework for achieving the best outcome.

CREATE USER CENTERED FACILITIES

- › Design with the user's perspective in mind;
- › Develop and maintain an environment that is inviting, comfortable and sensitive to diversity;
- › Improve the environment by design;
- › Create an atmosphere that embraces healthy lifestyles and consumer needs

BE FORWARD-THINKING

- › Reduce environmental impact through 'green' or sustainable design, construction, operation and maintenance;
- › Incorporate the latest technology;
- › Be proactive and embrace innovation;
- › Embrace new design trends;
- › Be aware of disruptive trends
- › Identify future paths for development;
- › Consider the lifecycle impact on the asset

BE RESOURCE EFFICIENT

- › Promote efficiency;
- › Maximize cost effectiveness and utilise local resources;
- › Use technology to create efficiency;
- › Maximize potential through efficient design and shared usage;
- › Ensure seamless integration of services;
- › Design for operational efficiency and performance
- › Ensure that every decision is objective and adds value to the overall investment;

LEARN FROM EVIDENCE-BASED DESIGN

- › Follow best practice in evidence-based design;
- › Learn from literature and scientific studies;
- › Use the client's accumulated data and evidence

BE AT THE LEADING EDGE OF R&D

- › Share technology, knowledge and services;
- › Aim for continuous learning and development;
- › Develop new processes and tools;
- › Foster talent and support training;
- › Engage in continuous professional development
- › Focus on quality, innovation, and achieving optimum results;

DELIVER AN INTEGRATED SERVICE

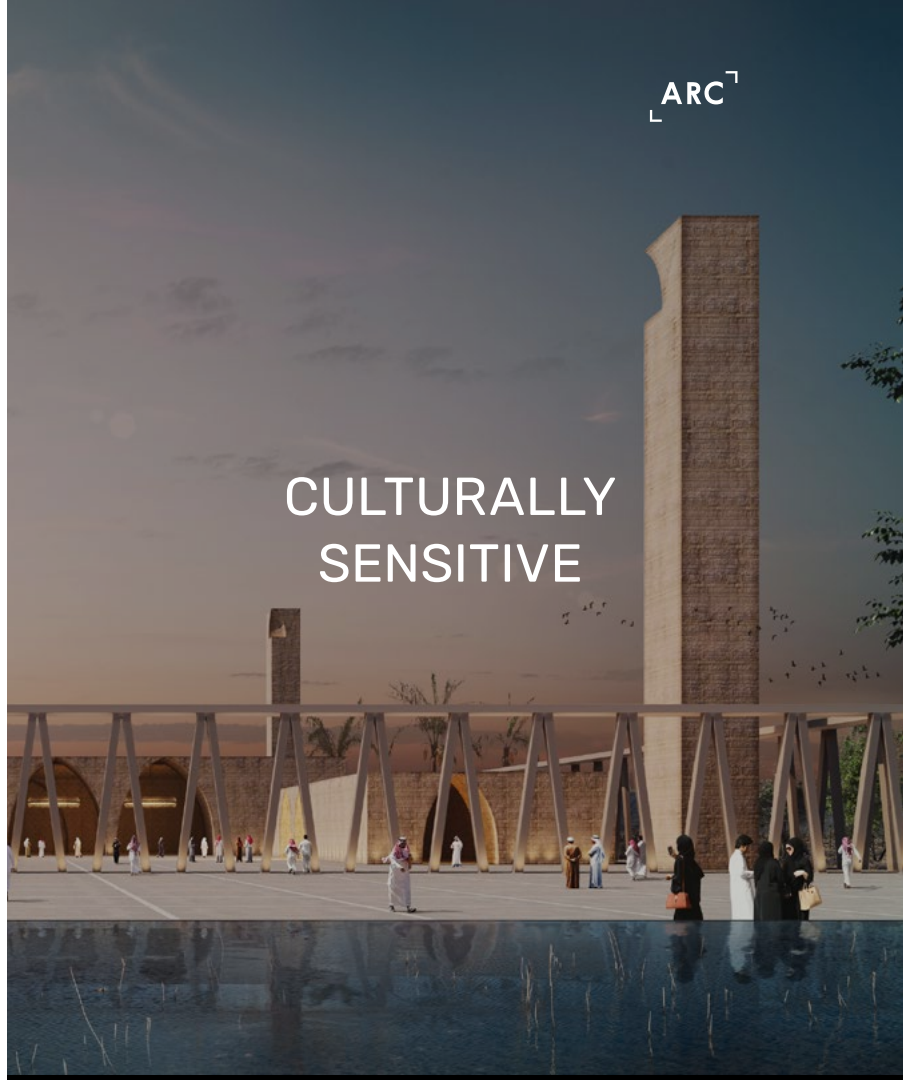
- › Develop and apply integrated resources;
- › Take advantage of our holistic approach to design
- › Ensure the effective exchange of information;
- › Collaborate fully with the client, stakeholders and team throughout the project lifecycle;

STRIVE FOR EXCELLENCE

- › Adopt best practices and aspire to be the best in our field;
- › Be open to new ideas and creative solutions;
- › Have the courage to adapt to achieve the project vision;
- › Maximize the potential of the asset.

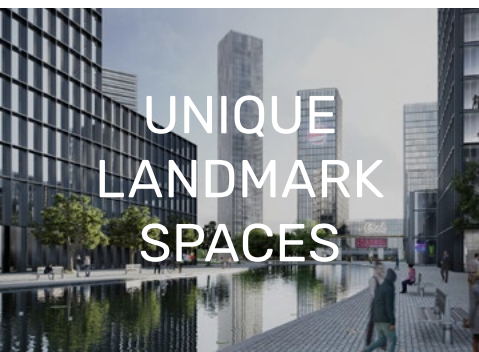


BEST EVIDENCE
BASED DESIGN

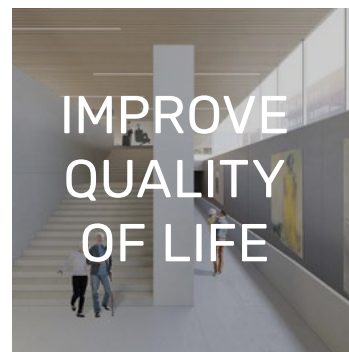


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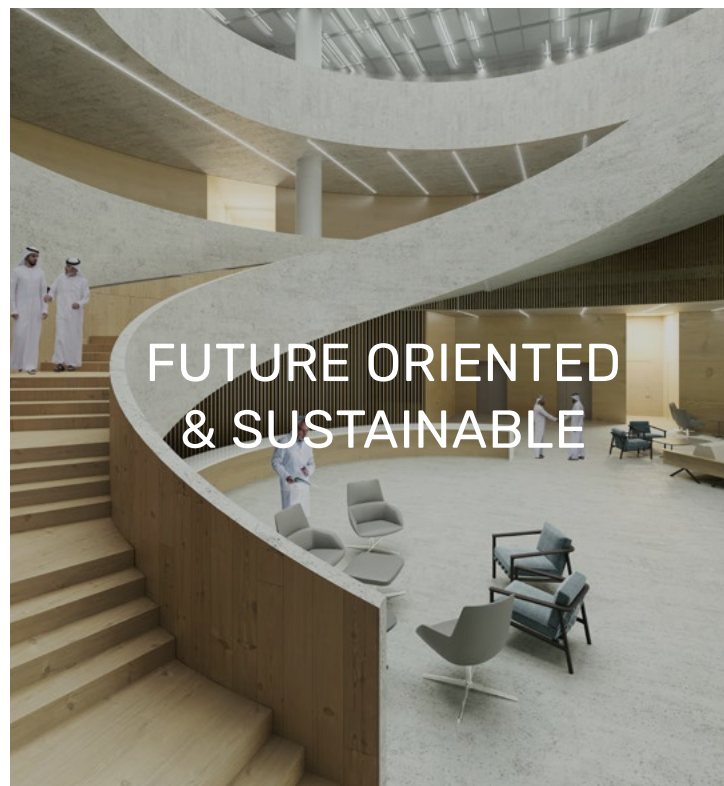
CULTURALLY
SENSITIVE



UNIQUE
LANDMARK
SPACES



IMPROVE
QUALITY
OF LIFE



FUTURE ORIENTED
& SUSTAINABLE



RESPECT
SETTING
& HERITAGE



HUMAN
CENTRIC
APPROACH

02.

KNOWLEDGE

HEALTHCARE FACILITY EXPERTISE

*We are a multidisciplinary design team,
with specific expertise in healthcare facilities.*

HOLISTIC APPROACH

The planning and implementation in connection with building a new hospital or healthcare facility involves more than a good business plan and building design. It is equally important to have the ability to understand the needs of the patients, their families and the staff, as well as the knowledge of potential specialist solutions available to address any specific healthcare challenges. ARC holds extensive experience in all aspects of Medical Planning and Design.

A hospital or healthcare facility is characterized by its standards of care for the patients. The building should contribute to improving the overall quality and efficiency of healthcare. At the same time, the staff, patients and their families should feel that they are in a welcoming and healing environment which supports their needs for comfort, function and safety.

Our designs at ARC are based on the latest design trends and guidelines, however, it is important to note that we do not limit this to minimum code requirements, instead, we apply internal tools that take into consideration best practice and lessons learned from Evidence Based Design to deliver the best solution for the project.

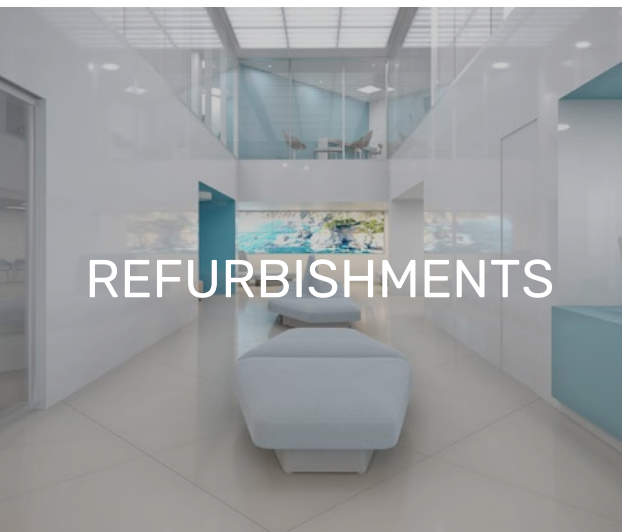
In addition to this, we explore and introduce into all of our projects the latest and best design trends in healing and salutogenic environments, which have a strong focus on patient recovery, user wellbeing and creating unique places that relate to and respect the local culture and context.

All of our projects at ARC are environmentally focussed, considering a careful selection of materials and design techniques including smart technology and energy efficiency strategies to reduce the carbon footprint.

It is our mission to foster a culture of research and training within our team - to develop our expertise, advance our practice and ultimately inform the future evolution of healthcare architecture and design.

With this accumulated knowledge, ARC is capable of creating advanced building solutions for hospitals and healthcare facilities that benefit all users and support the delivery of high quality healthcare across all stages of their lifecycle.

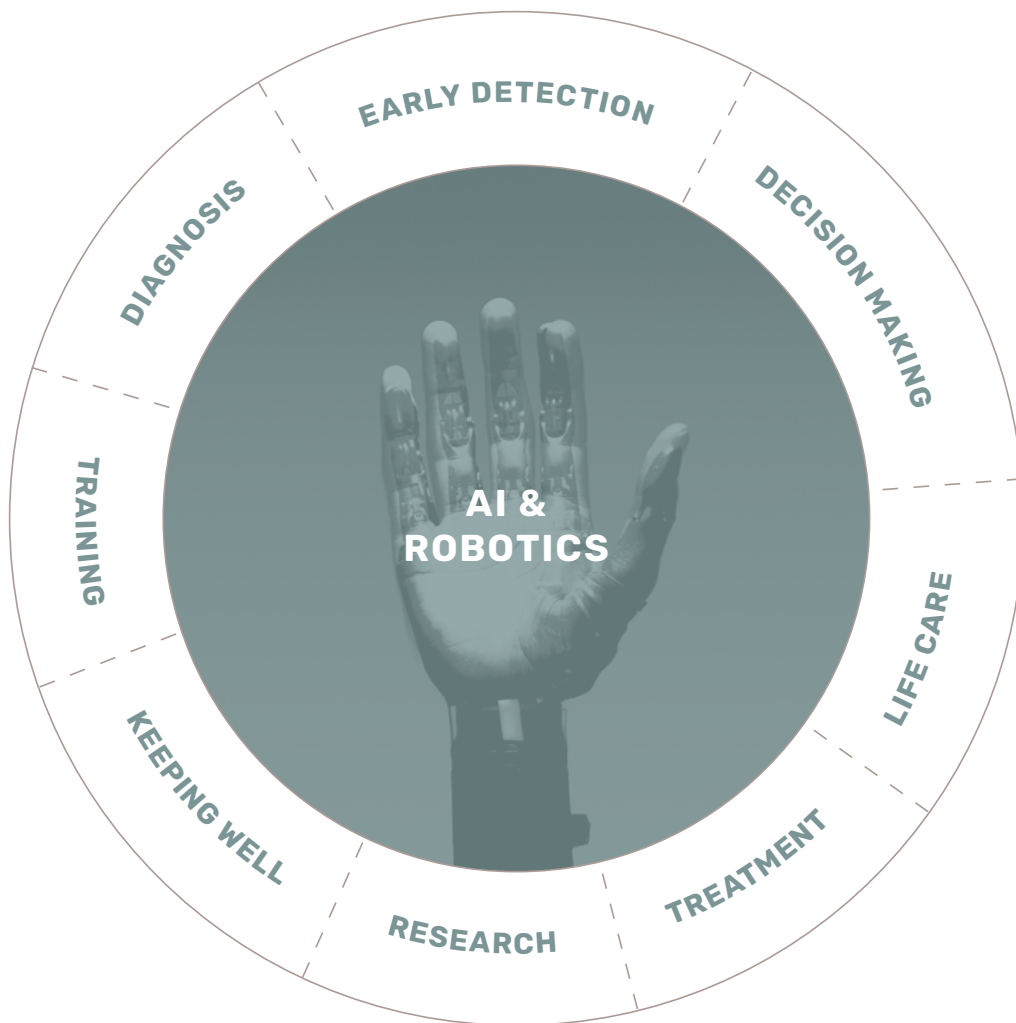
*Providing services for all types
of healthcare facilities:*

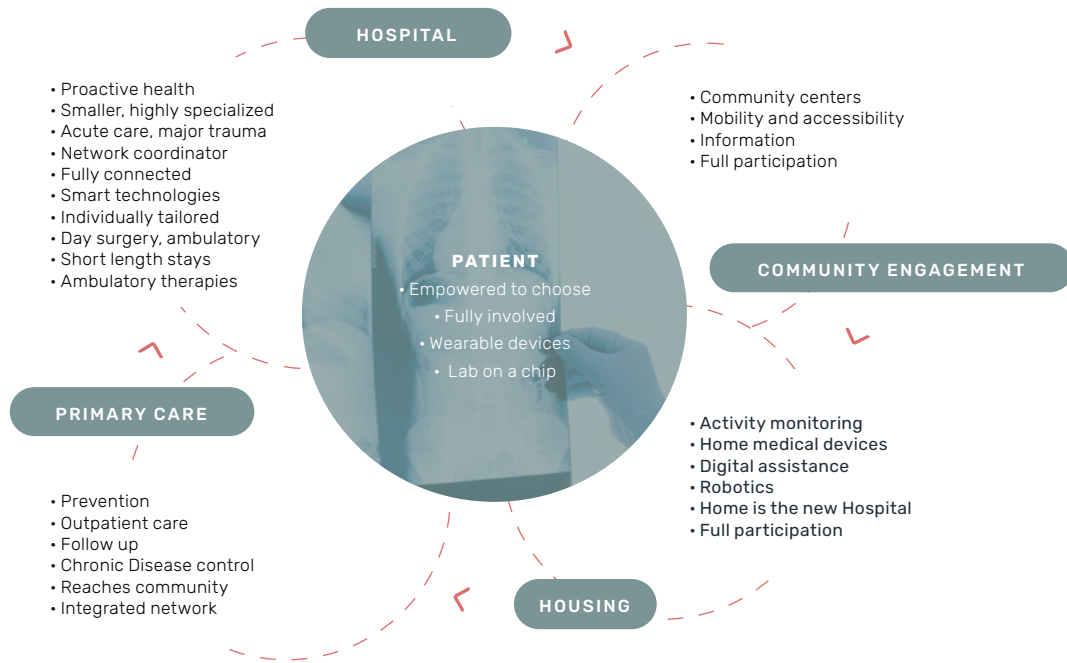


NEW TRENDS IN HEALTHCARE

The evolving healthcare industry inspires new design ideas and values that are transforming the sector.

New projects offer an ideal opportunity to test and design humanized hospitals that incorporate the latest trends and best design practices to support holistic healthcare.





Integrated Care

Current healthcare delivery models build on the concept that prevention plays the most significant role in securing a healthy population and a sustainable and profitable sector. Health strategies and policies are being reorganized with focus on proximity and prevention, shifting from a reactive position towards diseases to a proactive and preventive approach.

FOCUS ON PRIMARY CARE

- > First line of access for most users
- > Primary healthcare centers and ambulatory units
- > Specialized Units to treat Non-Communicable Diseases (NCD)
- > Community proximity and participation
- > Knowledge and health education centers

SPECIALIZED CARE

- > Dedicated to highly complex treatment
- > Focused on acute events, critical care and trauma
- > Multidisciplinary care

BENEFITS

- > Easy reach to people and community
- > Incorporates health as part of people's daily life
- > Early detection
- > Prevention of acute and chronic cases
- > Resource and cost optimization

Decentralized

A well coordinated decentralized healthcare network has the capability to reach patients further and faster, at a lower cost and with better outcomes

PRIMARY CARE

- > Early detection and prevention
- > Proximity care
- > Ambulatory care
- > Chronic NCD monitoring and follow up

SECONDARY CARE HOSPITALS

- > Community hospitals
- > Proximity care
- > Mild case diagnostic and treatment services
- > Ambulatory care

CENTRAL TERTIARY HOSPITALS

- > Network coordinator
- > Defines regional healthcare strategy
- > May take advantage of a Command Center
- > Receives acute and specialized cases
- > Teaching facilities



Community Integration

To reach communities better, hospitals should be designed to integrate with the city and neighbourhood. Ideally hospitals would be open to the whole community and nearby context, rather than being the standalone, self-sufficient and enclosed buildings of the past.

OPEN TO THE COMMUNITY

- > Without boundaries or physical barriers
- > Integrated within the local context
- > Designed for all users
- > Include open public spaces, retail and leisure services
- > Include knowledge and education centers
- > Incorporate public amenities
- > Friendly environments

BENEFITS

- > Community participation
- > Contributes to awareness and diseases prevention
- > Reduces acute cases through early detection
- > Incorporates health as part of daily life
- > Additional income sources
- > Cost effective

A New Patient Journey

Taking cognisance of lessons learned from other sectors, such as hospitality, healthcare facilities now offer a more humanized patient flow from arrival to treatment and discharge, improving overall user experience and satisfaction, as well as clinical outcomes.

ARRIVAL

- > Patient journey starts at home
- > Online booking and schedule monitoring
- > Possible outside check-in
- > Releases patient from the waiting room
- > Reduced waiting periods.
- > Better usage of each user's time.

ADMISSION

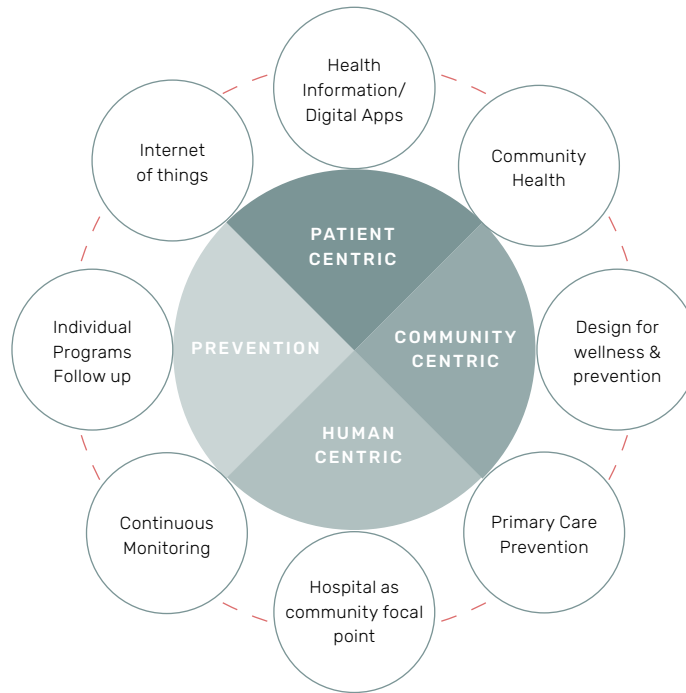
- > Screening and triage
- > Early risk and condition assessment
- > Patient follows the most efficient care path
- > Adjusted response to each user

PATIENT NAVIGATION

- > Dedicated patient paths
- > Reduced contact with other patients and staff
- > Easy wayfinding and navigation tools

DISCHARGE

- > Digital Checkout and contactless payment
- > Quicker discharge
- > At Home Care



Extended Value Chain

New technologies allow hospitals to expand their area of influence and scope of services beyond hospital boundaries. The hospital design should accommodate technological support facilities for each of the stages of treatment.

PREVENTION

- > Through continuous monitoring and consultation
- > Early detection
- > Ambulatory care
- > Tele-health

PRE-TREATMENT

- > Easy booking and contact with hospital through availability of online and call services
- > Self check-in solutions
- > Patient access to knowledge and information

TREATMENT

- > Healing environment setups
- > Availability of support public amenities
- > Shorter waiting times and hospital stays
- > Faster and better outcomes

POST-TREATMENT

- > Home healthcare services
- > Continuous monitoring
- > Hospital at home

Value Added Services

Health Service Planning can identify the population catchment's healthcare needs and how the new facility integrates with the existing healthcare network. This assessment identifies how a service provider can focus their operations on value added services.

VALUE ADDED IN TERTIARY CARE

- > Complement the existing healthcare network
- > Offer new services that are lacking in the network
- > Offer complex / high value treatments
- > Offer multidisciplinary care for different patient groups
- > Offer research and knowledge sharing
- > Patient centric environments

VALUE ADDED IN PRIMARY CARE

- > Community reach to daily health activities
- > Proximity consultation and monitoring
- > Health prevention
- > NCD chronic diseases control
- > Ambulatory treatment

MODEL OF CARE

Hospitals should be designed to enforce processes and multidisciplinary work, focusing on patient groups, clinical flows and a continuum of care.

Process Oriented

Effective hospital layouts, adjacencies and connections must be developed to provide the basis for the delivery of streamlined health services.

MODEL OF CARE

- > Process oriented
- > Grouped by functions and themes
- > Patient centric strategy
- > Continuum of care and patient follow up
- > Resource and work sharing
- > Multidisciplinary adaptive work

FUTUREPROOF

- > Evolutionary model of care
- > Possibility of adding new themes
- > Cross functional teams
- > Integrated workflows
- > Strategies for knowledge sharing
- > Healthcare service delivery adjusts to patient profile

Patient Empowerment

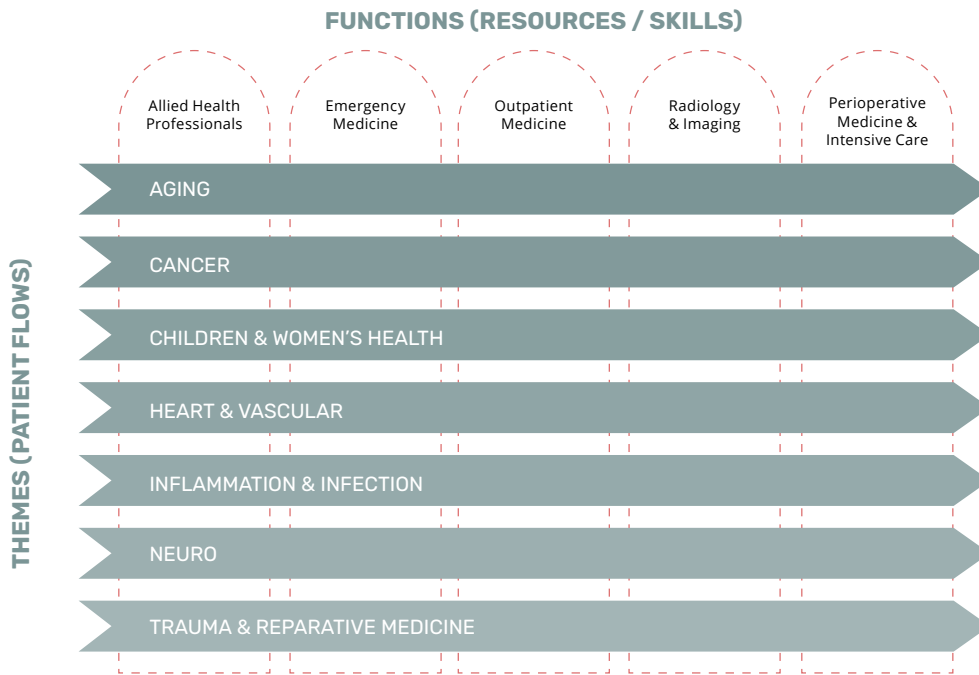
Patients are entitled to access their health records and participate on all clinical decisions. These range from treatment choice to doctor or healthcare provider selection. The architectural and interior design can also empower users in different ways.

CLINICAL AREAS

- > Face to face interaction
- > Elimination of physical barriers
- > Feeling of dignity
- > Flexible for multipurpose use
- > Incorporates advance technology

PATIENT AREAS

- > Patient rooms adjusted to daily activities
- > Homely feeling
- > Facilitates user movement and activities
- > Offers comfort and entertainment
- > Encourages faster recovery



Conventional Health Services

Traditionally, patient-practitioner interactions are based on a one-to-one consultation.

ADVANTAGES

- > Human factor
- > Empathy and proximity of care
- > Direct visual and touch observation

CHALLENGES

- > Lack of available specialists in remote locations
- > Travel distances and long waiting times
- > Exposure to disease
- > Late diagnosis and treatment

Telehealth & Virtual Hospital

TELEPHONE

- > First point of contact
- > Remote triage
- > Guide patients to the most appropriate healthcare provider
- > Emergency numbers
- > 24 hour health advice solutions

LIVE VIDEO

- > Two-way interaction between patient-practitioner
- > Alternative to in-person consultation
- > Life-saving in remote locations

STORE AND FORWARD

- > Transmission of recorded health history and exams
- > Off-line diagnosis by a specialist
- > Worldwide access to specialist care

REMOTE PATIENT MONITORING

- > Remote health and data collection
- > Continuous patient tracking
- > Can avoid hospital admission for chronic cases
- > Patients can continue with daily life

DESIGN APPROACH

Inclusive and flexible approaches provide answers to modern challenges in healthcare.

Healthcare facilities are some of the most complex and demanding buildings to design. Not only do they need to respond to several different functions and user groups, but they must also be able to adjust to temporary or permanent needs in future, either planned, or unplanned.

Different approaches, not necessarily exclusive of each other, should be considered when planning and designing healthcare facilities, each contributing to a better solution capable of withstanding the passage of time while maintaining the capacity to provide an effective response.

Operational Efficiency

Design assumptions and decisions are critical in achieving goals for operational efficiency.

EVALUATION

- > Feasibility studies
- > Life-cycle cost analysis studies
- > Medical planning and detail design optimization
- > Operational process implementation

BUILDING OUTCOMES

- > Streamlined medical planning layouts
- > Optimized grossing factors and built up area
- > Smaller facilities
- > Reduced traveling
- > Safer environments and HAI's reduction
- > Durable easy to maintain materials
- > Efficient building management system
- > Cost effective construction and operations

SERVICE OUTCOMES

- > Streamlined service
- > Faster response times
- > Improved patient turnover
- > Hospital centered model
- > Staff centered model
- > Patient flows follow the hospital organization

Flexible & Futureproof

Through strategic planning and design, a healthcare facility can adapt and adjust to planned and unplanned future events.

FLEXIBILITY

- > Universal grids, design modules
- > Multi-functional spaces, modular layouts
- > Rational vertical cores and MEP risers
- > Plug n' play solutions
- > Sacrificial areas

ADAPTABILITY

- > Design for daily usage, dimension for peak usage
- > Catastrophe area allowance for emergencies
- > Flexible to incorporate new uses
- > Flexible to resize departments
- > Swing beds
- > Simplified maintenance
- > Minimize space induced clinical error

FUTUREPROOF

- > Long Term expansion strategy
- > Process Oriented organization
- > Sharing of clinical and support services
- > Easy to incorporate new technology
- > Cost effective long term



User Centric

Good healthcare design focuses not just on the patient but on all user experience and wellbeing.

HUMANIZED ENVIRONMENTS

- > Inclusive environments
- > Designed around patient flows
- > Integration of family spaces
- > Stress free working environments
- > Natural environments and outdoor spaces

HUMANIZED PATIENT FOLLOW UP

- > Personal health journals
- > Fall risk assessment
- > Patient experience
- > Wellness team
- > Individually tailored treatments
- > Align decisions with patient's needs

USER BENEFITS

- > Reduced patient and family stress
- > Reduced medical errors
- > Fast healing/return daily life
- > Reduced HAI and patient falls

OPERATIONAL BENEFITS

- > Competitive advantage and quality of care
- > Improved outcomes
- > Cost Effective / reduced overall expenses

Healing Environments

Recognising the environment as a significant contributor to patient and user wellbeing, can reduce anxiety and result in quicker recovery outcomes.

HUMANIZED ARCHITECTURE

- > Homely feeling through careful selection of materials and space design
- > Natural light and ventilation
- > Acoustic design
- > Privacy in all patient activities and movements
- > Open spaces and wide lobbies
- > Easy wayfinding
- > Adjusted to different patient profiles and ages
- > Individual control of the room environment
- > Positive distraction, public amenities, cafes, shops etc.
- > Spiritual and peaceful places

NATURAL ENVIRONMENTS

- > Views to green areas
- > Access to patios and rehabilitation gardens
- > Safe outdoor areas for patient use

NEW TECHNOLOGY

- > *Health Apps*
- > *Augmented Reality*
- > *Big Data*
- > *Social Media*
- > *Cloud*
- > *Internet of Things*

Outsourcing

Outsourcing some support services can add value and result in more effective and efficient solutions.

OUTSOURCING

- > Consider utilising or locating support functions outside the hospital premises, such as:
 - > Laundry
 - > Food Services
 - > Sterilization
 - > Stock Management
 - > Pharmacy

ADVANTAGES

- > Reduced building area and construction cost
- > Reduced staff requirements
- > On time logistics
- > Reduced waste
- > Stock control
- > Quality control
- > Economies of scale

SMART Buildings

Integrating new technologies, digital systems, big data, AI, Building Management Systems and robotics, can support sustainability and efficiency, lean clinical operations and better stock management.

DIGITAL HOSPITAL

- > Health Information Systems and Digital records
- > Mobile communication devices
- > Command Center for efficient use of network or facility resources
- > Big data monitoring of all hospital operations
- > Real-time decision making
- > Distance access and monitoring
- > Reaches outside community

HUMANIZED ENVIRONMENTS

- > Visually concealed medical equipment
- > Integrated construction systems
- > Circadian lighting
- > Boundary free and reception-less spaces, digitally interconnected



Automation

Utilising automated systems to improve the quality of the healthcare service delivery.

VIDEO SURGERY AND TELEMENTORING

- > Video-conferencing technology
- > Augmented reality illustrative techniques
- > Remote surgery mentoring

TELESURGERY AND ROBOTICS

- > Long distance surgery, performed by a surgeon operating a console
- > Makes use of robotics as extensions of the surgeon's arms (DAVINCI)

DRONE MEDICAL SUPPLIES DELIVERY

- > Fast access and delivery to remote locations
- > Cost effective medical supplies distribution
- > Fast delivery of critical products (laboratory samples, organs)

AUTOMATED GUIDED VEHICLES (AVG)

- > Routine supplies distribution, error reduction, faster distribution
- > Allows staff to focus on patient-care activities
- > Real-time tracking and location reports

JUST IN TIME LOGISTICS

- > Efficient stock management
- > Smaller stocks, available just in time

Digital & Internet of Things

Utilising digital monitoring resources and big data to exchange information, streamline services and improve user experience and healthcare outcomes.

MONITORING DATA INTEGRATION

- > Remote monitoring
- > Smart sensors

MOBILE HEALTH

- > Mobile communication devices
- > Education and health advice
- > Prevention and promotion of healthy behaviors
- > Alert systems (disease outbreaks, catastrophes)
- > Prevention and healthy habits
- > Mobile healthcare applications
- > Remote monitoring, smart sensors and medical devices integration
- > Potential to keep patients healthy and to improve
- > Boost patient satisfaction

03.

SELECTED PROJECTS

KING FAISAL MEDICAL CITY (KFMC)

ABHA, SAUDI ARABIA
2016 (UNDER CONSTRUCTION)



* Hospital design / render by HDR.

Development of the masterplan to encompass all the housing, public amenities and buildings that compose the Medical City. The arrangement seeks to address the necessary zoning, proximities and circulation segregation, while guaranteeing a healthy environment where public spaces and private residential areas co-exist; social integration is promoted and a sustainable ecosystem can thrive.

PROJECT**DESCRIPTION**

Masterplan, Housing and Non-Medical Buildings

AREA

1,073,400 sqm Site
459,150 sqm BUA

DESIGN**ASSIGNMENT**

Concept to Tender Design

CLIENT

Ministry of Health,
Saudi Arabia

PROFESSIONAL SERVICES

Masterplanning, Architecture, Interior Design, Landscape Design



PRINCE MOHAMMED MEDICAL CITY (PMMC)

AL JOUF, SAUDI ARABIA
2016 (UNDER CONSTRUCTION)



* Hospital design / render by HDR.

Development of the masterplan to encompass all the housing, public amenities and buildings that compose the Medical City. The arrangement seeks to address the necessary zoning, proximities and circulation segregation, while guaranteeing a healthy environment where public spaces and private residential areas co-exist; social integration is promoted and a sustainable ecosystem can thrive.

PROJECT**DESCRIPTION**

Masterplan, Housing and Non-Medical Buildings

AREA

890,071 sqm Site
374,566 sqm BUA

DESIGN**ASSIGNMENT**

Concept to Tender Design

CLIENT

Ministry of Health,
Saudi Arabia

PROFESSIONAL SERVICES

Masterplanning, Architecture,
Interior Design, Landscape Design



DIALYSIS CENTRE & OUTPATIENT CLINICS

RIYADH, SAUDI ARABIA
2022

The architectural and interior design drew inspiration from the courtyard landscape, bringing the natural elements, colours and textures inside to create a calming atmosphere for patients and staff. Our goal is not only to fulfil the center's functional needs, but also to enhance the well-being of those that use it.



PROJECT

DESCRIPTION

Dialysis Centre & Outpatient Clinics with 30 dialysis rooms and 30 clinics

AREA

4,400 sqm BUA

DESIGN

ASSIGNMENT

Pre-Concept to Schematic Design

CLIENT

Confidential

PROFESSIONAL SERVICES

Masterplanning, Medical Planning, Architecture, Interior Design, Landscape Design, BIM, Visualizations



KING SALMAN BIN ABDULAZIZ UNIVERSITY HOSPITAL

KAIROUAN, TUNISIA
2021

The Tunisian government aims to make a medical landmark that shall contribute to improving the health services of the Tunisian people. The 500 beds university hospital follows the latest international standards in the field of medical education and using the latest technology and technical specifications for equipment and medical devices used worldwide. The hospital shall include all medical specialties, labs, diagnostic departments and support services.



PROJECT DESCRIPTION
University Hospital

CLIENT
Ministry of Health of Tunisia

PROFESSIONAL SERVICES
Masterplanning, Medical Planning, Architecture, Interior Design, Landscape Design, BIM, Visualizations, Signage & Wayfinding

BEDS
500

DESIGN ASSIGNMENT
Pre-Concept to Schematic Design

AREA
57,483 sqm



A CORUÑA UNIVERSITY HOSPITAL COMPLEX

CORUÑA, SPAIN
2021



As a result of multiple extensions throughout the years, the University Hospital Complex of A Coruña is today a built complex that reveals various functional and spatial failures. The proposal for renovation and expansion seeks to resolve all functional aspects and care strategies, without losing sight of the importance of the 1500 bed hospital as a landmark public building. The design creates a modern, flexible hospital, integrated in the city, generating spaces for the public and promoting a healing environment in line with the latest patient care trends in health promotion and wellness.

*Shortlisted
for World
Architecture
Festival
Award*

PROJECT

DESCRIPTION

Central Hospital,
Renovation and
Expansion

AREA

250,000 sqm BUA

BEDS

1,500

DESIGN ASSIGNMENT

Concept Design Competition

CLIENT

Xunta de Galicia, Consellería de
Sanidade / Servizo Galego de Saúde

PROFESSIONAL SERVICES

Masterplanning, Medical Planning,
Architecture, Interior Design,
Landscape Design, Visualizations



DR. SOLIMAN FAKEEH HOSPITAL

AL MADINAH, SAUDI ARABIA
2019 (UNDER CONSTRUCTION)



The fully patient-centric policy of this client's institution focused our design on providing the best possible patient experience for this 200 bed facility. Double height lobbies, natural light, green roofs and balconies integrated in the design create a 'healing garden' experience and soften the hospital look and feel. The hospital planning follows the latest trends in healthcare, considering personalization and a fully digital setup.

PROJECT**DESCRIPTION**

General hospital

AREA

65,743 sqm BUA

BEDS

200

DESIGN**ASSIGNMENT**

Pre-Concept to
Schematic Design

CLIENT

Fakeeh Care Group

PROFESSIONAL SERVICES

Masterplanning, Medical Planning,
Architecture, Interior Design, Landscape
Design, Structural Engineering, BIM,
Visualizations, Signage & Wayfinding



ARANDA DEL DUERO HOSPITAL

ARANDA DEL DUERO, SPAIN
2019

A regional hospital located in the town of Aranda del Duero to serve the region of Castilla y León with a population of around 32,523 inhabitants. In urban terms, the hospital is expected to have a profound impact in the region. The aspiration of the project was to integrate an efficient, flexible and logical hospital with strategies for prevention and community support. The ambition to be a "hospital of reference" encouraged sophisticated design solutions targeting real benefits in the community and user experience.

PROJECT

DESCRIPTION

General Hospital

AREA

42,594 sqm BUA

BEDS

144

DESIGN ASSIGNMENT

Concept Design
Competition

CLIENT

Junta de Castilla y León /
Sacyl – Gerencia Regional
de Salud

PROFESSIONAL SERVICES

Masterplanning, Medical Planning,
Architecture, Interior Design,
Landscape Design, Visualizations





KING SALMAN BIN ABDULAZIZ SPECIALIST HOSPITAL

LUSAKA, ZAMBIA
2018 (UNDER CONSTRUCTION)

This new tertiary specialist hospital for Women & Children in Zambia will be a state of the art facility following international standards. The hospital will provide all levels of care to Women and Children, from family planning, IVF and pregnancy follow up to birth and pediatric care. The facility will also provide Emergency and Programmed consultation services, including consultation, treatment minor and major surgical interventions, inpatient and outpatient follow up services, including rehabilitation and chronic diseases treatments.



PROJECT DESCRIPTION

Specialized Women and Children's Tertiary Care Hospital

AREA
64,831 sqm

BEDS
800 beds

DESIGN ASSIGNMENT

Pre-concept to Schematic

CLIENT

Ministry of Health, Zambia

PROFESSIONAL SERVICES

Medical Planning, Masterplan Design, Architectural Design, Interior Design, Landscape Design, Structural Engineering Design, Signage and Wayfinding, Visualizations, BIM



REHABILITATION & LONG TERM CARE HOSPITAL

AL-HASA, SAUDI ARABIA
2018 (UNDER CONSTRUCTION)

PROJECT

DESCRIPTION

Rehabilitation and
Long Term Care
Hospital

AREA

67,000 sqm BUA

BEDS

288

DESIGN

ASSIGNMENT

Detailed Design
to Tender

CLIENT

Al Moosa, Saudi Arabia

PROFESSIONAL SERVICES

Interior Design



* Architecture / render by HDR



MEDICAL COMPLEX ERNEST LLUCH

VALENCIA, SPAIN
2018

The Public Health Park has an important role to play in educating and promoting healthy lifestyle habits, in what can be seen as a mindset shift from illness to wellness. Open to the community and integrated in the urban fabric, the complex includes a long term rehabilitation hospital, outpatient, day care and educational facilities. The external gardens and roofs offer an invitation to the community, to be involved in a variety of healthy activities that promote health, integration and a change in habits.

PROJECT

DESCRIPTION

Medical Complex

AREA

48,484 sqm BUA

BEDS

150

DESIGN

ASSIGNMENT

Concept Design
competition

CLIENT

La Conselleria de
Sanitat Universal
y Salut Pública

PROFESSIONAL SERVICES

Masterplanning, Medical Planning,
Architecture, Interior Design,
Landscape Design





HESSAH AL MUBARAK HEALTHCARE CLINICS

HESSAH AL MUBARAK DISTRICT, KUWAIT
2019 (UNDER CONSTRUCTION)

The clinics will offer first class, tailor-made healthcare facilities - in keeping with the premium Hessah Al Mubarak development. Each clinic was designed to the latest healthcare design standards considering international benchmarks. The district adopts a holistic approach to design. The contemporary architectural style of the clinics includes large apertures, formed by slender stone pillars to maximize natural light and views. The statement scale of the clinic buildings creates a landmark for visibility from the highway.

PROJECT

DESCRIPTION

Polyclinic

AREA

16,400 sqm

CLIENT

United Real Estate
Company (URC),
Kuwait

SERVICES

Medical Planning,
Feasibility Study,
Business Case



* Architecture / renders by Nikken Sekkei.



YUMBE HOSPITAL

YUMBE, UGANDA
2016 (CONSTRUCTION COMPLETE)

Yumbe is a province at the North-East Part of Uganda. Yumbe Hospital also involves the rehabilitation of existing buildings for hospital support departments and construction of new buildings that will integrate the main hospital facilities - OPD, Emergency, Blood Collection and Laboratory, Radiology, Operating Theater, Labor and Wards. An exercise of budget contention without sacrificing international standards in healthcare, this project makes extensive use of renewable energies, passive solar solutions, natural ventilation and light, in order to achieve the most comfortable and safe environment in a country where access to electricity is rare and expensive.



PROJECT

DESCRIPTION

General Hospital

AREA

20,000 sqm

BEDS

208 beds

DESIGN

ASSIGNMENT

Concept to Tender
Design

CLIENT

Ministry of Health,
Uganda

PROFESSIONAL SERVICES

Masterplanning, Medical Planning,
Architecture, Interior Design, Landscape
Design, BIM, Visualizations, Signage &
Wayfinding, Structural Engineering



KAYUNGA HOSPITAL

KAYUNGA, UGANDA
2016 (CONSTRUCTION COMPLETE)

Kayunga is a province at the South West part of Uganda. This project involves the rehabilitation of existing buildings for hospital support departments and construction of new buildings that will integrate the main hospital facilities - OPD, Emergency, Blood Collection, Laboratory, Radiology, Operating Theater, Labor & Wards. The Operating Theater and Labor suite will allow for complex interventions, that could only be performed before in central Hospitals of the country. The strong emphasis in local construction techniques and materials offer a contemporary, sustainable solution in tribute to the local architectural style.



PROJECT DESCRIPTION

Hospital and Staff Housing

AREA

20,000 sqm

BEDS

190 beds

DESIGN ASSIGNMENT

Concept to Tender Design

CLIENT

Ministry of Health, Uganda

PROFESSIONAL SERVICES

Masterplanning, Medical Planning, Architecture, Interior Design, Landscape Design, BIM, Visualizations, Signage & Wayfinding, Structural Engineering



PUNJAB AGRICULTURE, FOOD & DRUG AUTHORITY LABORATORIES

LAHORE, PAKISTAN
2017 (UNDER CONSTRUCTION)

The new PAFDA laboratories integrate the most advanced techniques to provide state of the art services to the entire region. Distributed across six floors, the labs are open plan and designed with flexibility and future upgrade in mind. Serving as a center for scientific research and collaboration, it houses a large 200 seat auditorium and conference rooms for the scientific community. Aside from technical areas, all spaces benefit from natural light filtered by a second shading facade.

PROJECT

DESCRIPTION

Laboratories

AREA

25,865 sqm

DESIGN

ASSIGNMENT

Concept to
Tender Design

CLIENT

Infrastructure
Development
Authority of Punjab
(IDAP), Pakistan

PROFESSIONAL SERVICES

Masterplanning, Architecture, Interior
Design, Landscape Design, BIM,
Visualizations, Structural Engineering







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