



DESIGN CONFIDENCE

2026

COMPANY PROFILE

AN IN-DEPTH REVIEW



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MESSAGE FROM FOUNDING PARTNER

TOM SAGRIS

We are an award-winning organisation which stands at the forefront of innovation specializing in Engineering Sciences for Standard and Iconic Projects.

At the heart of every iconic project we deliver, are our people. Their expertise, creativity, and unwavering commitment to excellence are what set us apart. **We believe that true innovation happens when diverse minds collaborate openly**, challenge convention, and trust one another. Teamwork is not just the way we work, it is the foundation of our success. Together, we transform complex challenges into engineering achievements that shape skylines, communities, and the future.

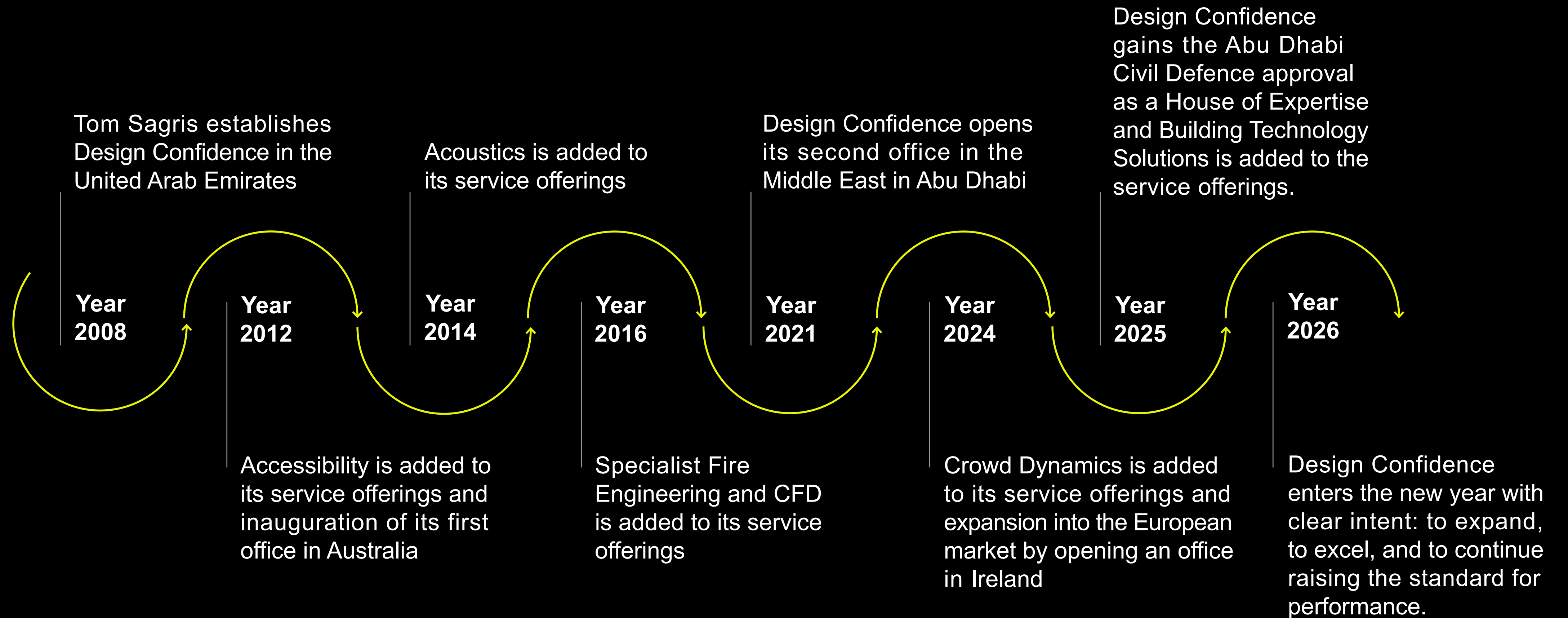


WHO WE ARE

Design Confidence is an **award-winning** organization which stands at the forefront of innovation specialising in **Engineering Sciences for Iconic Projects.**



OUR STORY



OUR SERVICES

At Design Confidence, we offer professional **specialized engineering sciences consultancy services.**



GLOBAL OUTREACH

Design Confidence has offices **internationally** which help support its clients **locally**.

Middle East – UAE & KSA

Europe – Ireland

Australia

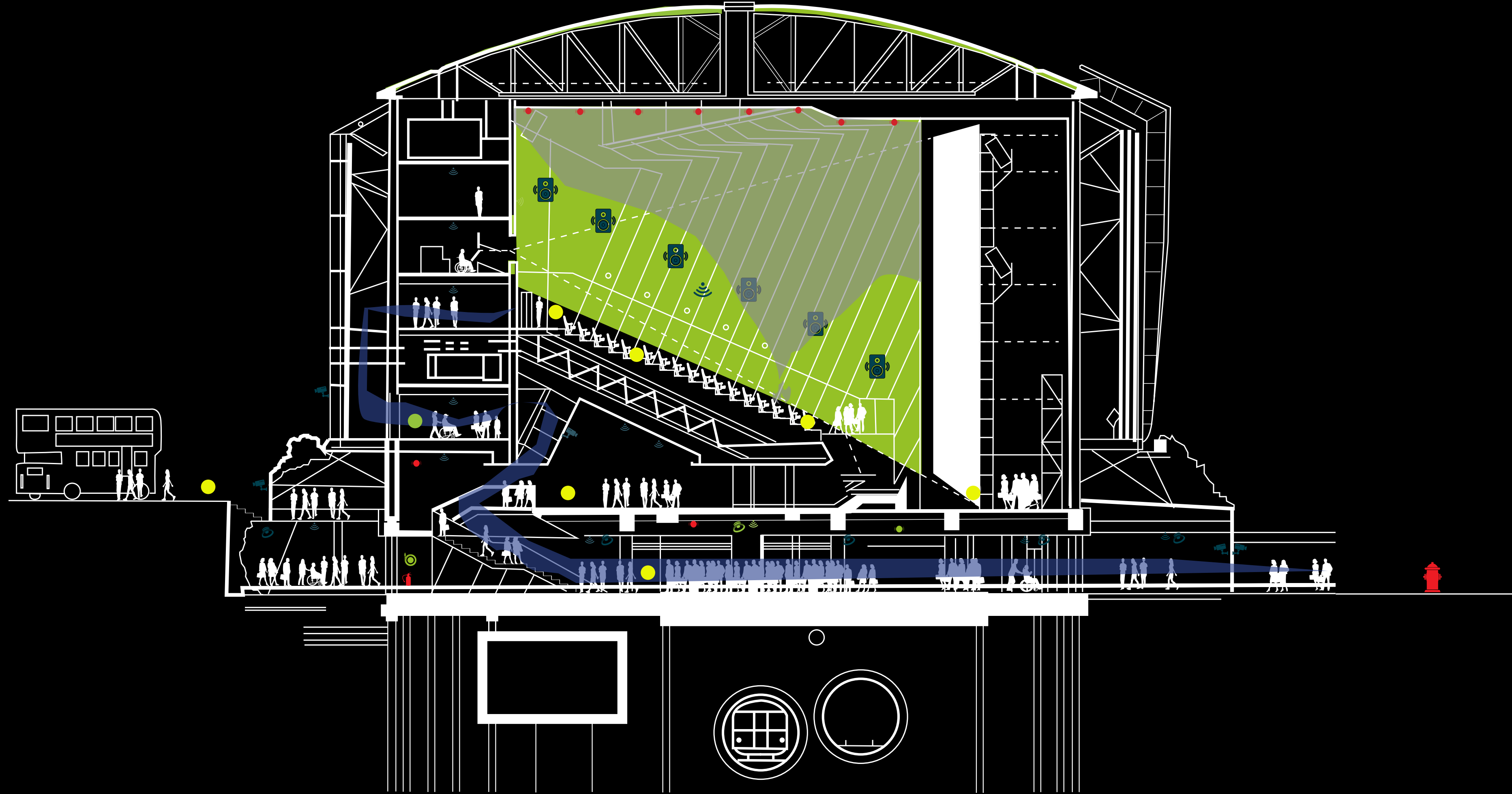
India

GLOBAL REACH ...
LOCAL EXPERIENCE




OUR SERVICES

Our services are **interconnected**, each discipline reinforcing the other. Together, we deliver integrated solutions that shape the bigger picture and create **lasting impact**.




 Accessibility and Inclusivity

 Acoustic Engineering

 Advanced Risk Modelling

 Building Technology Solutions

 Crowd Dynamics Engineering

 Fire and Life Safety

 House of Expertise

OUR REACH

Design Confidence provides expert and comprehensive Building Regulatory and Engineering services to the Construction Industry, within the Middle East, Africa and India, offering specialized services in key areas from concept design through to the completion of construction.

OUR APPROACH

Beyond traditional consultancy, we address critical gaps often overlooked during project delivery. By tailoring cause-and-effect matrices, we go further than generic solutions, ensuring optimal functionality for each asset.

Our strategies go beyond compliance. **We minimise emergency downtime, safeguard reputations on landmark projects, and protect the physical integrity of built assets.**

WE ADDRESS CRITICAL GAPS
OFTEN OVERLOOKED DURING
PROJECT DELIVERY

ORGANIZATIONAL STRUCTURE



Aaron Mc Daid
Managing Partner

Tom Sagris
Founding Partner

Anam Asad
Partner and Head of Fire &
Life Safety



Khubaib Omar
Head of House of Expertise



Ali Aurangzeb
Head of Acoustics Engineering and
Building Technology Solutions



Andrew Long
Head of Security & Resilience



Bachar Kabalan
Head of Crowd Dynamics
Engineering



Dania Al-Adhami
Head of Accessibility
and Inclusivity



Sandra Sykas Taylor
Head of
Giga Projects



Robert (Bob) Rea
Head of
Operations

OUR PROMISE TO THE ENVIRONMENT

At Design Confidence, sustainability is a key component of our design philosophy. Our 2025 sustainability statement continues to reflect our dedication to creating a more sustainable and equitable future. We believe that by taking these proactive steps, we can contribute to a healthier planet, foster community resilience, and inspire others to join us on this journey towards sustainability. Together, we can make a meaningful impact for generations to come.



DEDICATION TO CREATING A MORE SUSTAINABLE
AND EQUITABLE FUTURE

VALUE PROPOSITION

| BEYOND THE TRADITIONAL

At Design Confidence our approach to problem-solving **emphasizes on creativity, flexibility, and innovation by challenging the traditional norms**. This allows us to provide solutions to our clients which are unique and not immediately obvious envisioning multiple possibilities.



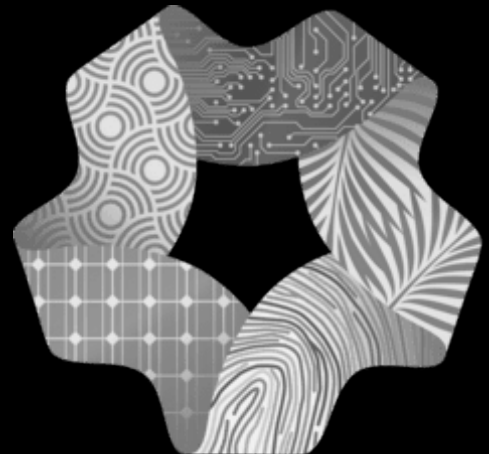





| AGILE

Design Confidence is proactive and responsive, prioritizing its client above all. Our ability to adapt to changing environments makes us resilient. This ensures long-term sustainability to **serve our clients through challenging markets** providing cost effective innovative solutions.

| FUTURE FOCUSED

Our team is committed to exploring **new ideas and technologies** to create ground ourselves on being agile and responsive. Our design solutions are flexible, allowing for adjustments based on emerging trends and client feedback. Our commitment to excellence positions us as a leader in the design landscape.

OUR KEY CLIENTS

 <p>Qiddiya</p>			 <p>The Red Sea Development Company</p>	 <p>AMAALA</p>
<p>ALULA DEVELOPMENT COMPANY شركة العلا للتطوير</p>	<p>POPULOUS®</p>	 <p>killa design</p>	<p>Foster + Partners</p>	<p>chapmanbdsp</p>
<p>Gensler</p>	 <p>AtkinsRéalis</p>		<p>Jacobs</p>	<p>M M MOTT MACDONALD</p>

OUR KEY CLIENTS

OUR FUTURE LEADERS SCHOLARSHIP PROGRAMME

Design Confidence is **committed to sponsoring exceptionally talented** members of the Team for a Master's Degree at Ulster University. These are members who consistently perform well, want to progress and have potential for leadership.



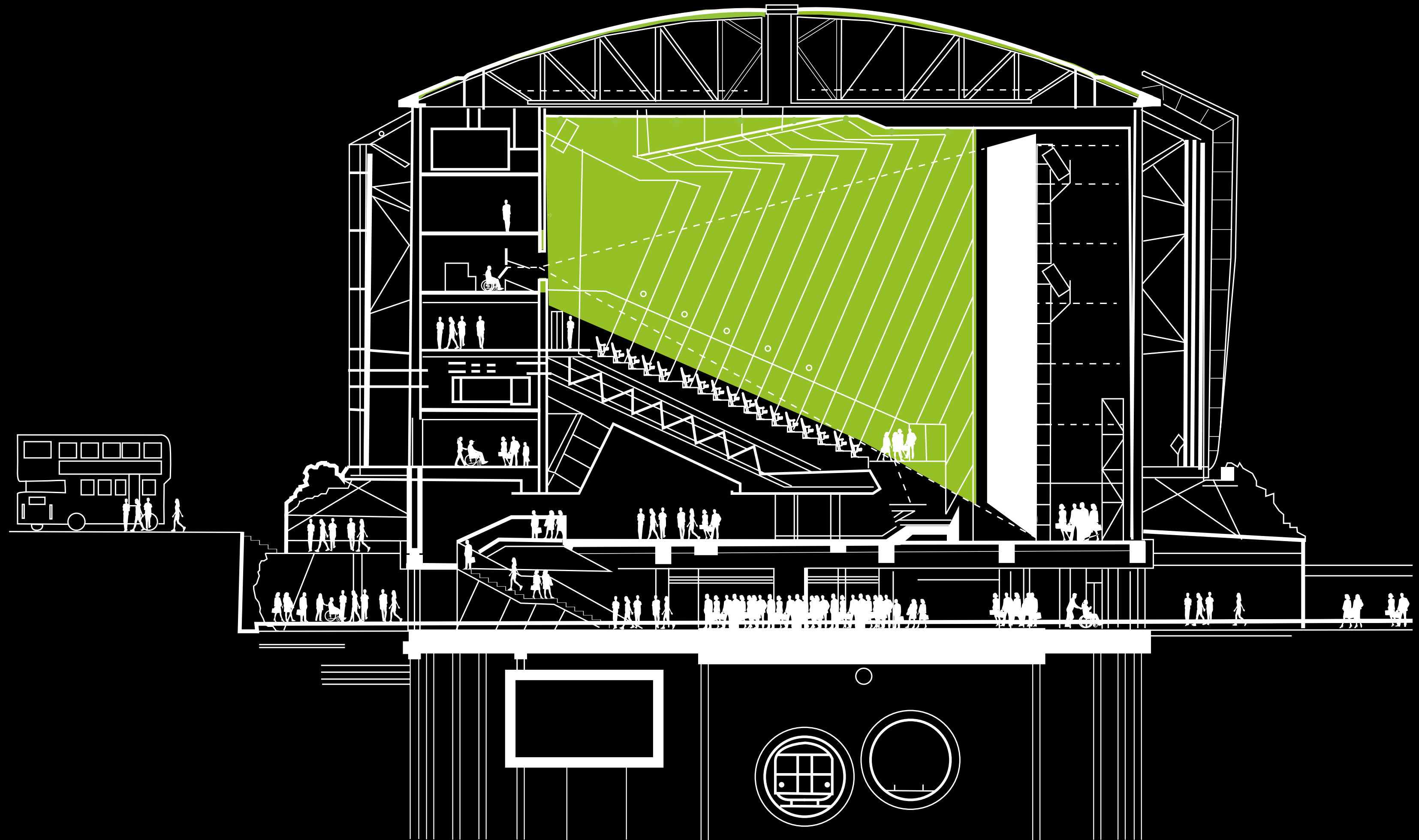
ACOUSTICS ENGINEERING




OUR SERVICES

ACOUSTICS ENGINEERING

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 Building Technology Solutions

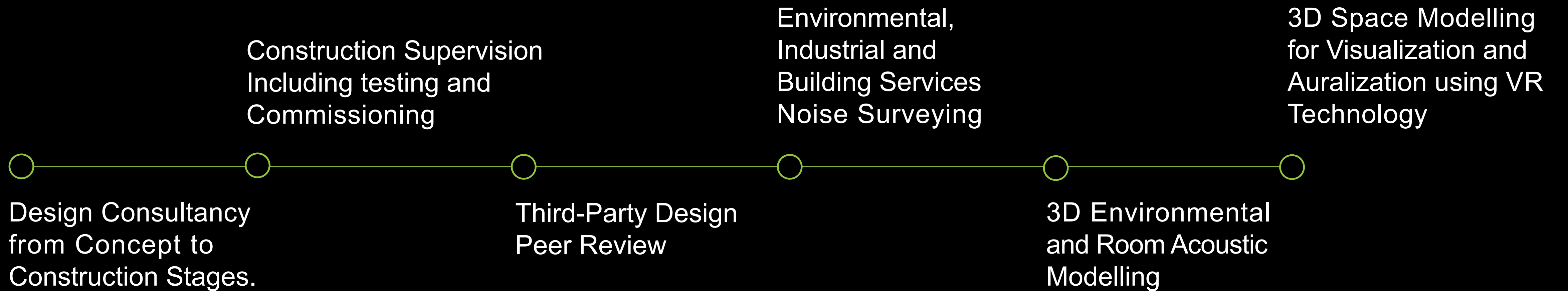
 Crowd Dynamics Engineering

 Fire and Life Safety

 House of Expertise

KEY ACOUSTIC SERVICES

Design Confidence offers professional specialized acoustic services.



ACOUSTIC SERVICES



ENVIRONMENTAL ACOUSTICS

Understanding environmental sound dynamics, professionals can design spaces that minimize harmful noise and promote healthier acoustic environments. This includes strategies for noise mitigation in urban areas, as well as the preservation of natural soundscapes in rural and wilderness areas.



ROOM ACOUSTICS

Room acoustics is particularly important in spaces designed for music performance, recording, and broadcasting, such as concert halls and studios. However, it also plays a vital role in various other environments, including classrooms, offices, and public spaces, where sound quality can impact communication, productivity, and overall well-being.



ARCHITECTURAL ACOUSTICS

The integration of architectural acoustics into building design is essential for creating spaces that not only look good but also sound good.

Poor acoustic design can lead to issues such as excessive noise, poor speech clarity, and uncomfortable environments, which can negatively impact the experience of occupants.



BUILDING SERVICES ACOUSTICS

Building services noise is an important aspect of building design and operation that requires careful consideration. By understanding the sources and impacts of this noise, as well as implementing effective control strategies, we can create more comfortable and health-conscious indoor environments for all occupants.

ENVIRONMENTAL ACOUSTICS

Noise pollution can cause disruption and discomfort for the users of the built environment. Design Confidence can help clients to mitigate noise from the following:

- Roads, Rail and Aircraft Noise
- Construction Noise
- Building Services Equipment Noise
- Industrial Equipment Noise



ENVIRONMENTAL NOISE SURVEYING

Design Confidence provides **surveying solutions to clients** which can include the following:

- 24-hour long term noise monitoring
- Short term noise monitoring
- 3D environmental noise modelling
- using industry standard software Packages such as CadnaA

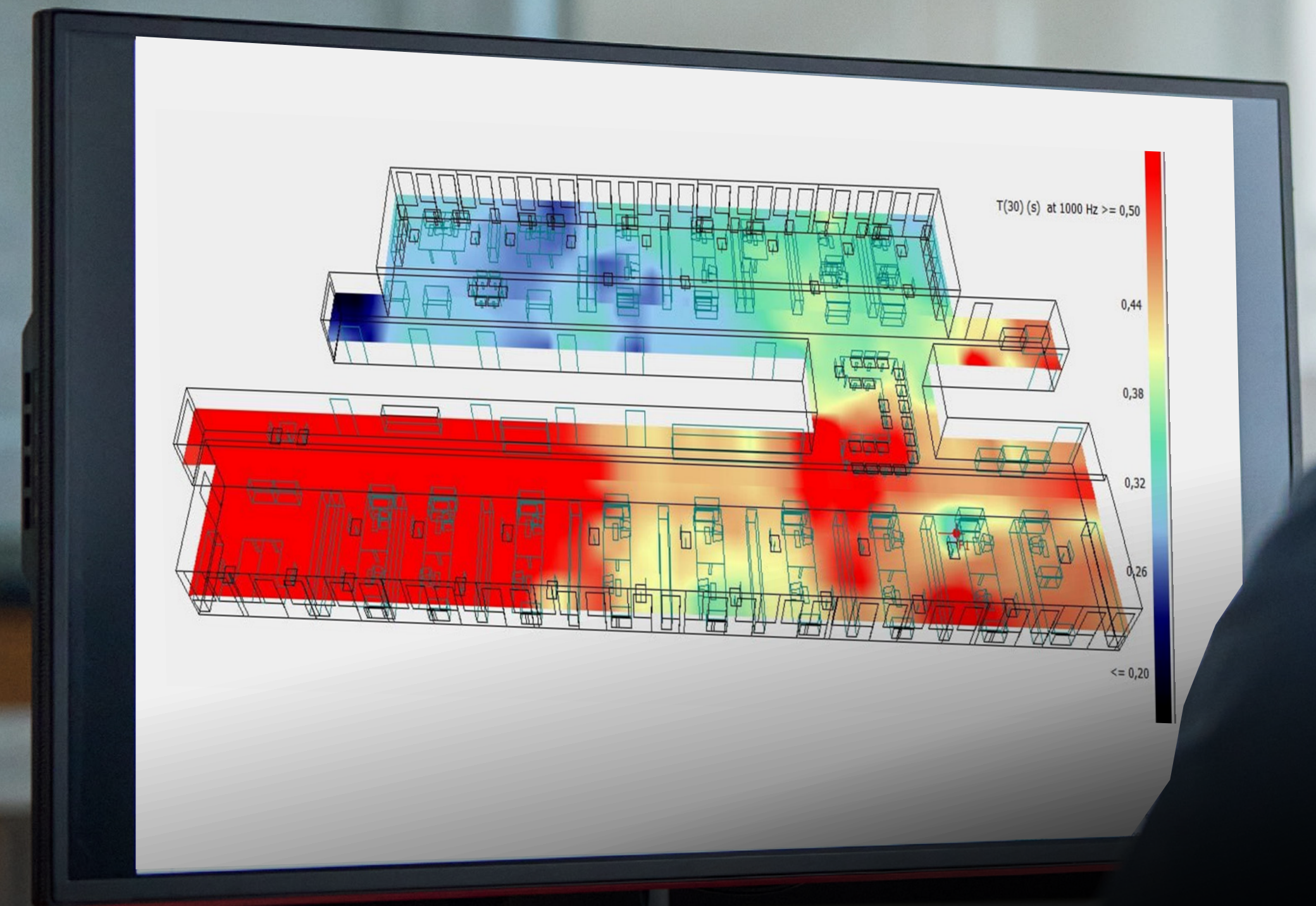


ACOUSTIC EXPERTISE

The key to good room acoustics is to provide the **optimum combination of reverberation**, speech intelligibility and audibility.

We use specialist software such as ODEON to simulate various acoustic parameters in a 3D space for proof of concept. These parameters can include:

- Reverberation Time
- Sound Transmission Index
- Sound Pressure Levels



Finally, auralization can be used to hear the resultant space with acoustic treatment in a 3D environment.

3D ROOM SIMULATION

We believe sound should be heard to experience the difference between an acoustically treated and untreated environment.

Therefore, at Design Confidence, we produce 3D visual and aural models so clients can experience the impact of acoustic treatment and make informed design decisions.

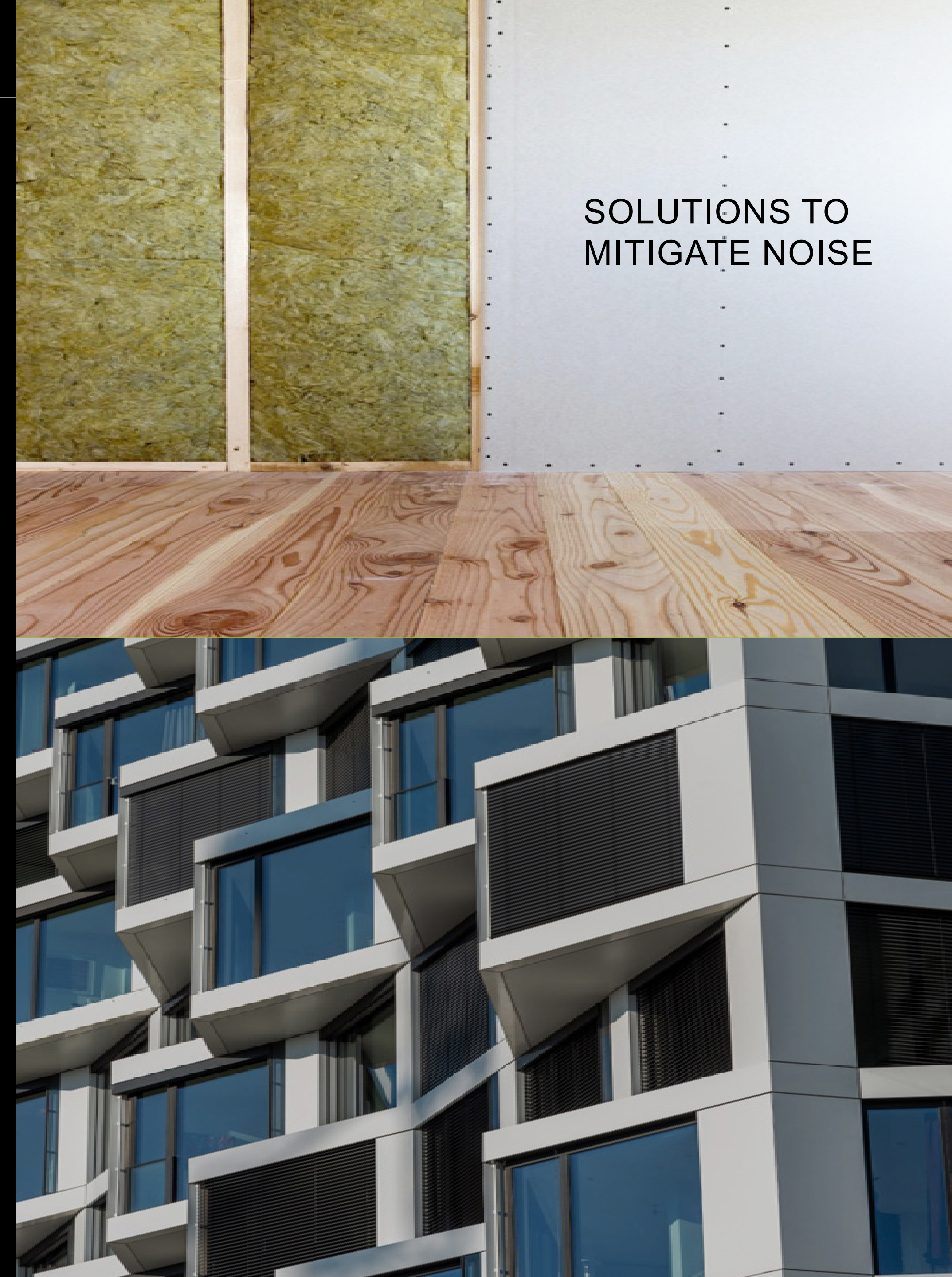


ARCHITECTURAL ACOUSTICS

Design Confidence focuses on providing solutions to mitigate noise transfer between internal spaces as well as from outdoor to indoor spaces.

The key areas of consideration in design can include the following:

- Partition wall and floor acoustic performance Specification
- Facade acoustic performance specification
- Door and window acoustic performance Specification



SOLUTIONS TO
MITIGATE NOISE

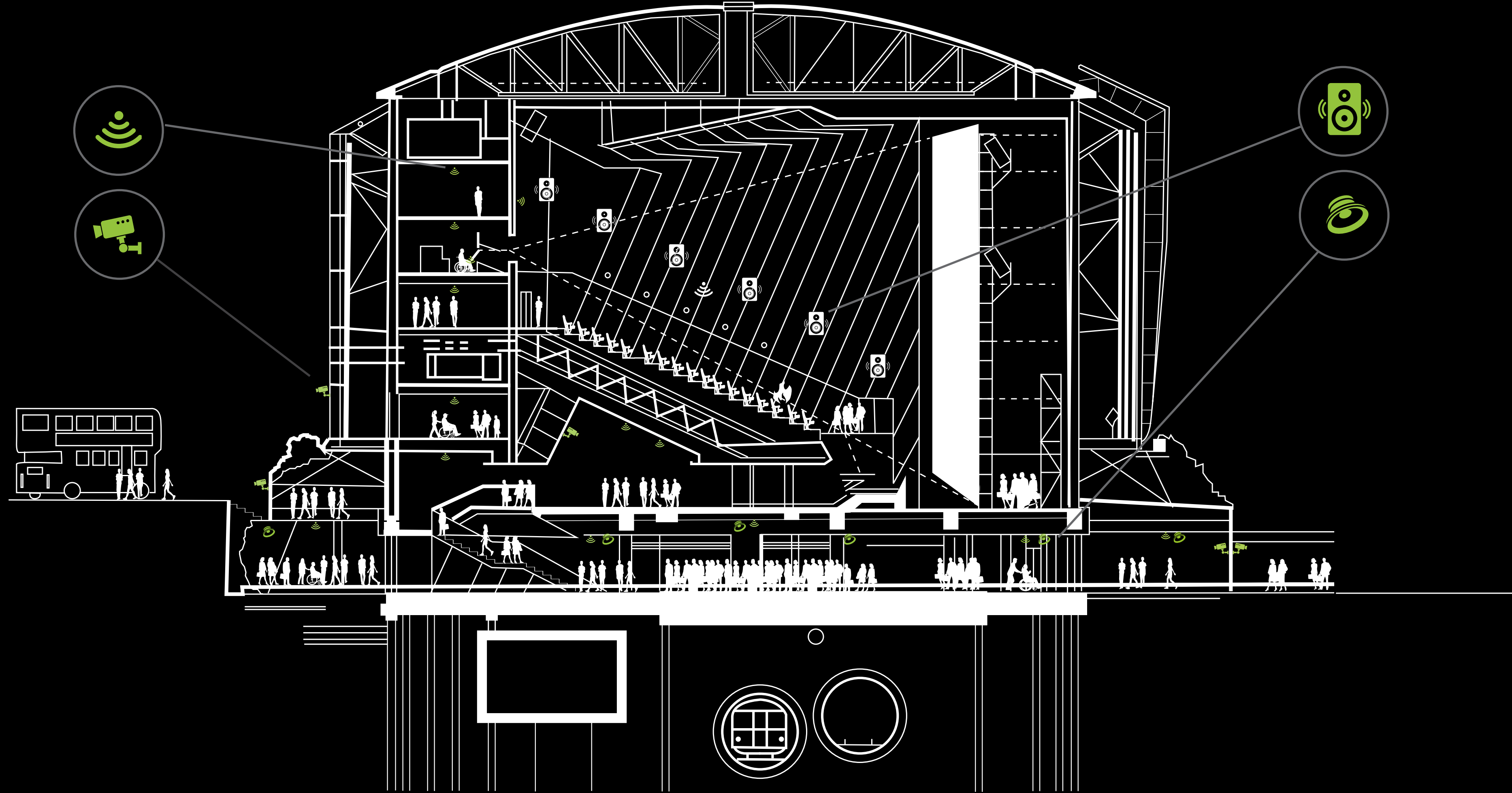
BUILDING TECHNOLOGY SOLUTIONS




OUR SERVICES

BUILDING TECHNOLOGY SOLUTIONS

Our Building Technology Solutions (BTS) integrates **ICT, AV, Security**, and Smart Systems to deliver connected, efficient, and future-ready buildings through coordinated, performance-driven design.




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ICT SYSTEMS

ICT Technology design including Passive & active networking (Structured cabling & data networking), Wireless networking, FTTX/ ISP design, GSM infrastructure Design, TETRA/ Two Way Radio Infrastructure Design, IP Telephony, IP TV, Guest Room Management System (GRMS), Home Automation Systems etc.



AV SYSTEMS

Audio-Visual (AV) System design primarily includes Background Music Systems (BGM), Music System, Public Address (PA) Systems, Digital Signage System, Video conferencing solutions etc.



SECURITY SYSTEMS

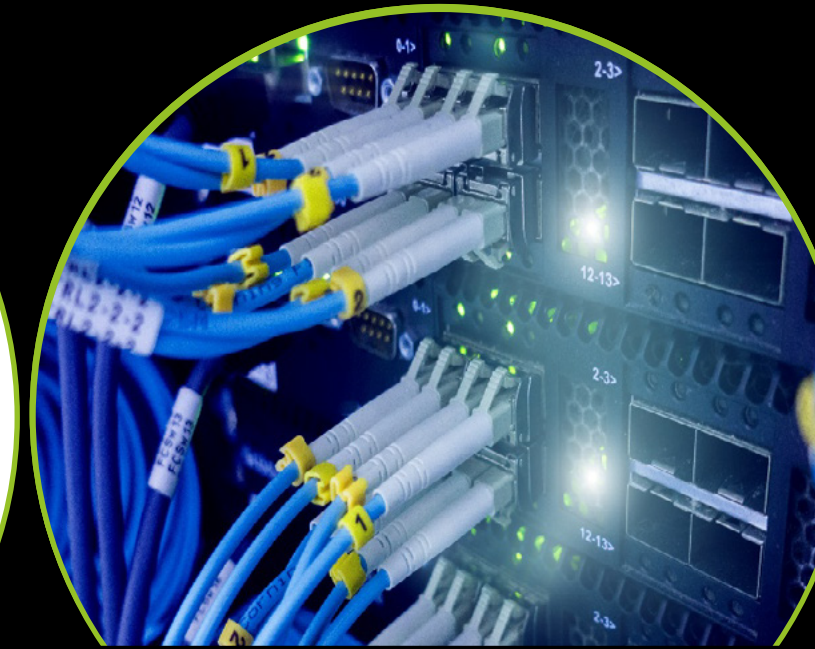
Security Systems shall include Video Surveillance Systems (VSS), Access Control & Alarm Monitoring Systems (ACAMS), Integrated Security management System (ISMS), Hostile Vehicle Mitigation (HVM) measures, Intrusion detections systems, Disabled Alarm Systems, Security Intercom, etc.

INFORMATION AND COMMUNICATION TECHNOLOGY - ICT

We develop end-to-end ICT solutions that ensure smooth digital communication while integrating future readiness, resilience, and innovation. **Our approach** is centered on improving the **experience, functionality, and operational efficiency** of contemporary facilities.



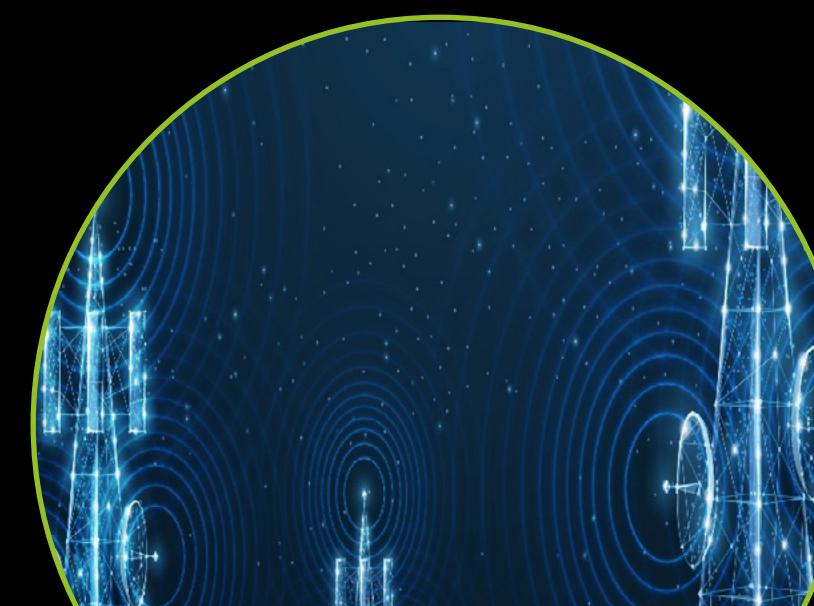
ISP & TELECOM
INFRASTRUCTURE
NETWORKS (FTTX)



PASSIVE & ACTIVE
NETWORKING



WIRELESS
NETWORKING



GSM/ TETRA
NETWORK
INFRASTRUCTURE



IP TELEPHONY



GUEST ROOM
MANAGEMENT
SYSTEM

AUDIO VISUAL (AV) SYSTEMS

We **design intelligent audio-visual systems** that enhance communications, collaboration, and engagement across spaces. Our solutions seamlessly integrate technology to deliver immersive and reliable user experiences.



BACKGROUND
MUSIC SYSTEM



VIDEO
CONFERENCING
SYSTEM



BALLROOM
PROJECTION
SYSTEM



DIGITAL
SIGNAGE SYSTEM

SECURITY SYSTEMS

We develop and implement extensive security strategies using integrated, advanced systems designed to safe-guard individuals and ensure multi-layered protection of people, property, and critical assets.



VIDEO SURVEILLANCE SYSTEM



ACCESS CONTROL SYSTEM



INTRUSION DETECTION SYSTEM



INTEGRATED SECURITY MANAGEMENT SYSTEM (ISMS)



HOSTILE VEHICLE MITIGATION MEASURES (HVM)



DISABLED TOILET ALARM SYSTEMS (DTA)

SECURITY & RESILIENCE



KEY SECURITY & RESILIENCE



WHAT WE DO

Our team provide **comprehensive and tailored solutions for security across the entire lifecycle**. We specialise in designing and implementing physical security strategies, policies, and procedures that align seamlessly with your organisation's culture, goals, and risk appetite.



PROTECT PEOPLE, ASSETS, INFRASTRUCTURE AND REPUTATION



EVALUATE AND MITIGATE SECURITY RISK AND VULNERABILITIES



DESIGN AND IMPLEMENT PHYSICAL SECURITY STRATEGIES, POLICIES AND PROCEDURES



LEVERAGE INNOVATION TO ENHANCE PHYSICAL SECURITY AND RESILIENCE

SECURITY THREAT AND RISK ASSESSMENT

Our comprehensive approach involves identifying, analysing, evaluating, and treating potential threats and vulnerabilities to safeguard your assets, personnel, and operations.

Risk Identification: Assets, Threats and Vulnerabilities.

Risk Analysis: Qualitative and quantitative, scenario analysis, and expert judgment.

Risk Evaluation: Prioritising risks based on likelihood and impact.

Risk Treatment: Physical, Technical and Operational Measures.

RISK					
ALMOST CERTAIN					
LIKELY					
POSSIBLE					
UNLIKELY					
RARE					
	LIMITED	MINOR	MODERATE	MAJOR	SEVERE

Continuous Monitoring: Ongoing risk review and adaptation.

Our team specialise in ISO 31000, HB167, and API780 risk management methodologies.

OPERATIONAL RESILIENCE

Operational Resilience involves **Business Continuity, Emergency and Crisis Management**. Implementing Business Continuity and resilience strategies ensures your organisation remains stable and recovers swiftly from disruptions, safeguarding operational integrity.

We can assist with appraising and providing guidance on the development of your operational resilience plans.

CRIME PREVENTION THROUGH ENVIRONMENTAL DESIGN

Crime Prevention Through Environmental Design (CPTED) is a strategic approach that aims to reduce crime and enhance community safety through thoughtful urban and architectural design. By manipulating the built environment, CPTED seeks to deter criminal behaviour and enhance the way of life.

CURRENT STATE ASSESSMENT AND GAP ANALYSIS

We assess your current physical security measures, including access controls, perimeter protections, surveillance systems, identifying gaps that could compromise safety, operational continuity, and resilience. We will take an iterative approach by conducting a site survey and simulate real world attacks on physical security measures.



TECHNICAL SURVEILLANCE COUNTERMEASURES (TSCM)

Technical Surveillance Countermeasures (TSCM) are a critical component of security risk management, particularly for organisations handling sensitive information.

TSCM or bug sweeping, is a systematic physical and electronic examination of a designated area by trained, qualified, and properly equipped personnel to discover electronic eavesdropping devices, security hazards, or weaknesses.

We have the capability to advise, train, and assist your organisation's sensitive information.



SAFETY IN DESIGN (SID)



SID, Safety in Design

Local Reach. Global Expertise.

Project development is an iterative and inclusive process that must consider the full lifecycle of an asset, from concept and detailed design through construction, operation, maintenance, refurbishment, decommissioning, and demolition. While safety is relevant at every stage, it is during the design phase that decisions have the greatest influence on long-term risk, cost certainty, and operational resilience.

Design Confidence is a trusted specialist in codes, standards, and regulatory compliance, supporting clients and design teams across complex projects in Saudi Arabia and the wider GCC. Through our local presence and deep understanding of authority requirements, combined with

global best practice, Design Confidence ensures safety considerations are embedded early and aligned with both project objectives and regulatory expectations.

The **Safety in Design (SID) process provides a structured, pragmatic framework that supports innovation** while ensuring foreseeable hazards are identified, risks are eliminated or reduced where reasonably practicable, and residual risks are clearly understood. DC facilitates and guides this process, applying proportionate, designed solutions that enhance buildability, operability, and long-term asset performance.

THE HIERARCHY OF RISK CONTROL

Design Confidence applies the Hierarchy of Risk Control during early design stages to address hazards at source, where the greatest level of risk reduction can be achieved.

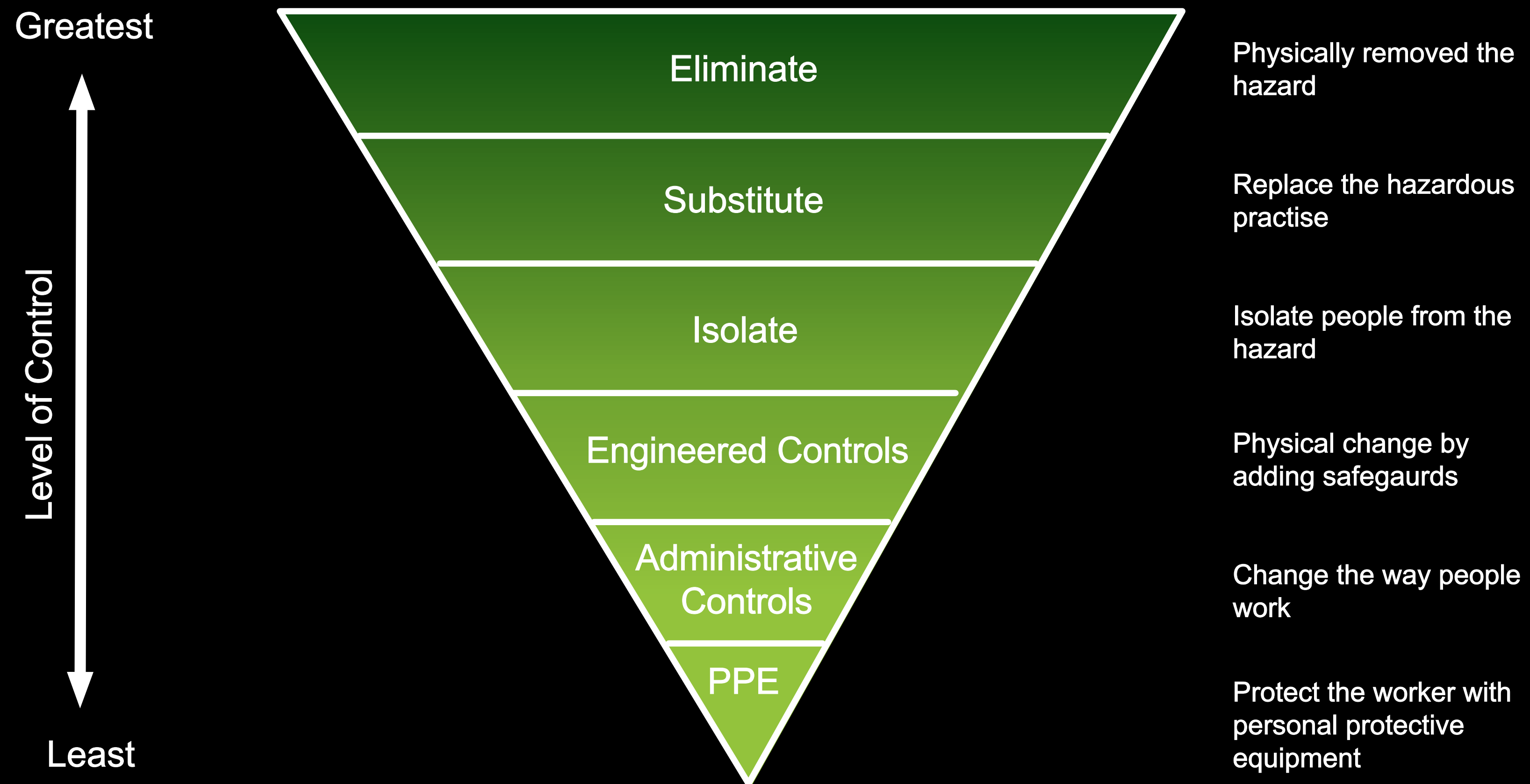
The hierarchy prioritises **elimination and substitution through design decisions, followed by isolation and engineered controls** where elimination is not reasonably practicable. Reliance on administrative controls and personal protective equipment is treated as a measure of last resort.

By operating at the upper tiers of the hierarchy, DC leverages its expertise in international codes and standards, together with local regulatory knowledge, to deliver safer, more resilient and compliant design outcomes, reducing reliance on procedural controls and improving certainty throughout the asset lifecycle.



THE HIERARCHY OF RISK CONTROL

'Prevention is better than protection' It is **better to eliminate risks/hazards** as far as reasonably practicable than to manage and control them.



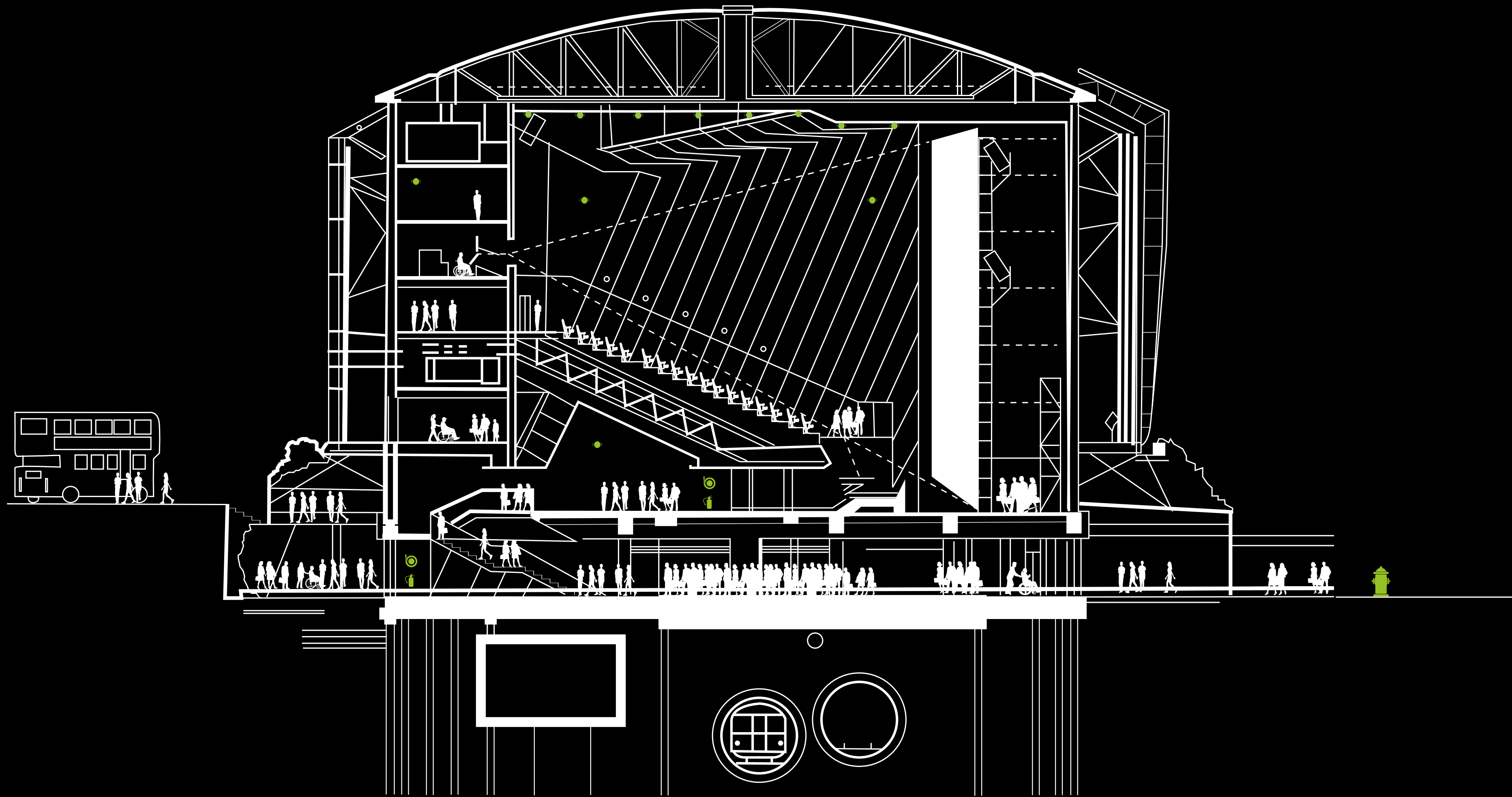
FIRE AND LIFE SAFETY




OUR SERVICES

FIRE AND LIFE SAFETY

Our services are **interconnected**, each discipline reinforcing the other. Together, we deliver integrated solutions that shape the bigger picture and create **lasting impact**.




 Accessibility and Inclusivity

 Acoustic Engineering

 Advanced Risk Modelling

 Building Technology Solutions

 Crowd Dynamics Engineering

 Fire and Life Safety

 House of Expertise



FIRE ENGINEERING

Design Confidence uses scientific principles and international codes (NFPA, Indian, Australian, UAE) to evaluate and develop fire safety strategies for a wide range of building types. We offer **Performance-Based Designs as alternatives to prescriptive code requirements**, Ideal for complex or innovative projects, focusing on actual outcomes. Backed by an in-house Computational Fluid Dynamics (CFD) team and fire behavior expertise, we seamlessly integrate with core design teams to deliver advanced, compliant fire safety solutions.



THIRD PARTY REVIEWS

Design Confidence conducts thorough reviews of shop drawings to ensure alignment with approved design documents and compliance with approved codes and standards. We also assess proposed Fire and Life Safety materials, **verifying their approval by the authority having jurisdiction and relevant certification bodies**. Additionally, we confirm that materials are suitable for their intended use or as part of an assembly.



FIRE & LIFE SAFETY CONSULTING

Leveraging international experience, Design Confidence delivers Fire and Life Safety Consulting services aligned with both global building standards and local regulations. Our involvement spans all project phases, **from concept design to construction**, ensuring seamless code compliance from the outset. We provide expert regulatory advice and detailed safety reports to support certification and approval process.

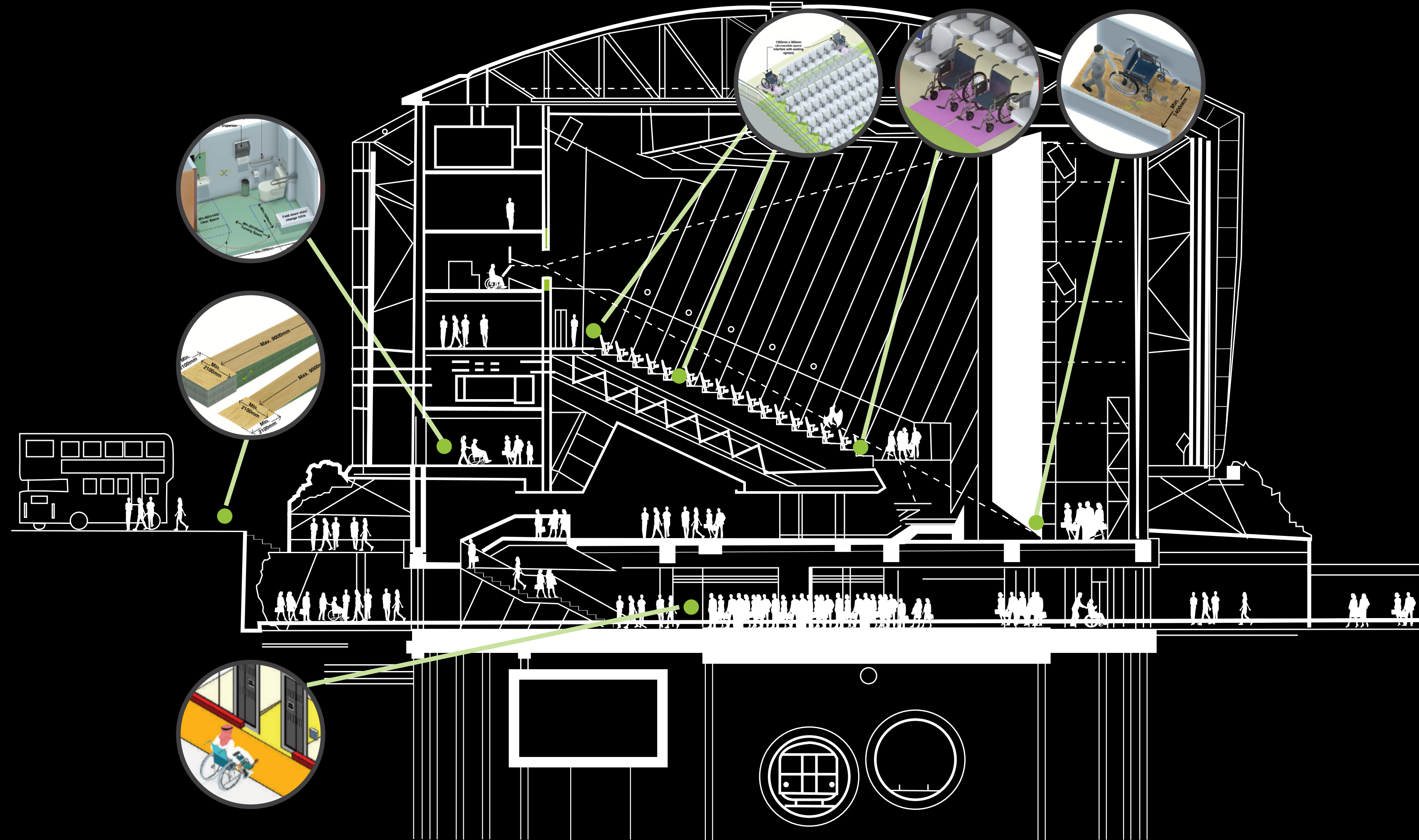
ACCESSIBILITY AND INCLUSIVITY




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OUR SERVICE



ACCESSIBILITY AUDITS

Our audits go beyond minimum compliance, providing actionable **insights that enhance usability, safety, and inclusion for all**. We conduct thorough reviews of building plans, master plans, and fit-outs to ensure alignment with international accessibility standards and local regulations while optimizing user experience. Whether assessing existing buildings or new developments, our expert recommendations ensure that accessibility is not only achieved but seamlessly integrated and future-proofed for long-term success.



UNIVERSAL DESIGN STRATEGY

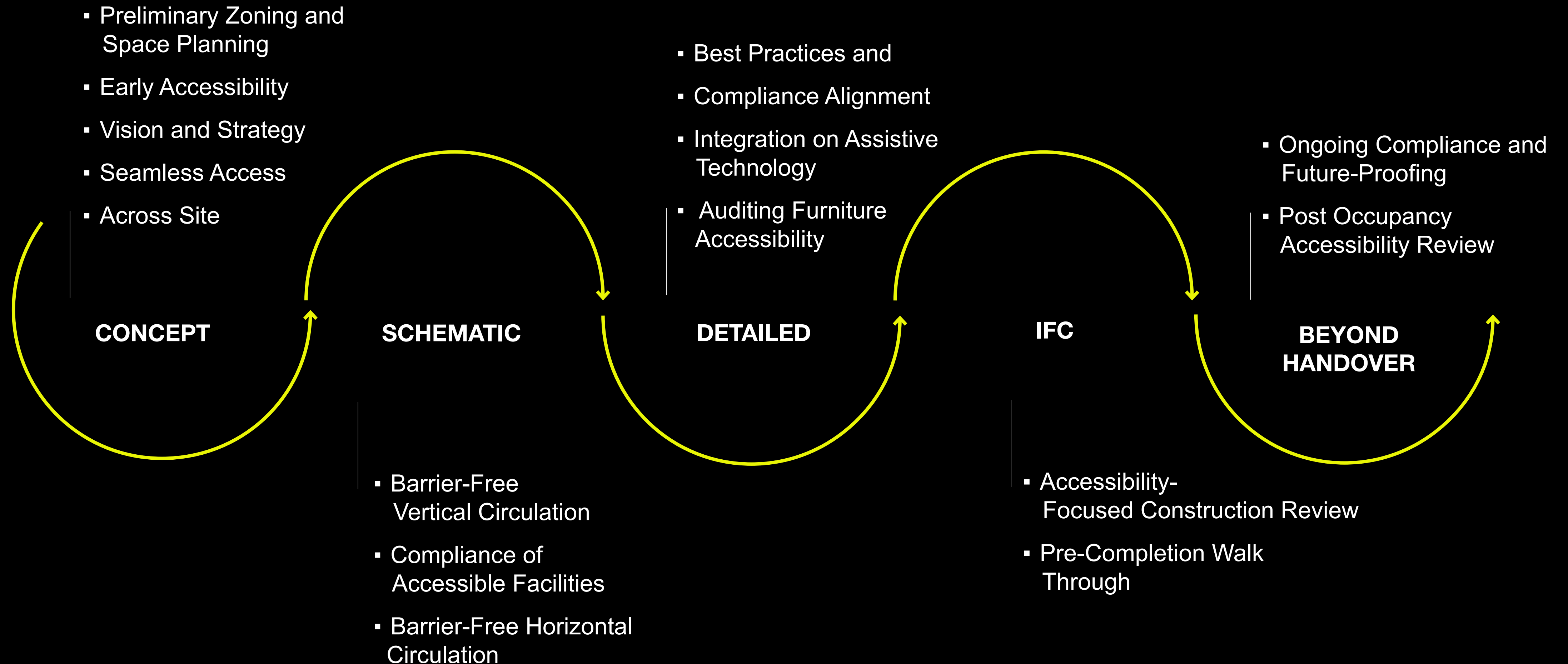
Our approach integrates inclusive design principles from the outset, ensuring environments are intuitive, flexible, and **welcoming for diverse users across a spectrum of abilities, ages, and backgrounds**. Whether working on master plans, new developments, or renovations, we ensure that universal design is seamlessly integrated, balancing functionality, aesthetics and dignity.



FUTURE-PROOFING DESIGNS

We help future-proof projects by anticipating demographic shifts, technological advancements, and evolving accessibility standards. By reviewing designs at every RIBA stage, we ensure that accessibility remains a core focus from concept to completion. **This proactive approach reduces costly retrofits while enhancing long-term value, sustainability, and user satisfaction.**

FROM CRADLE TO GRAVE ACCESSIBILITY AT EVERY STAGE OF THE DESIGN

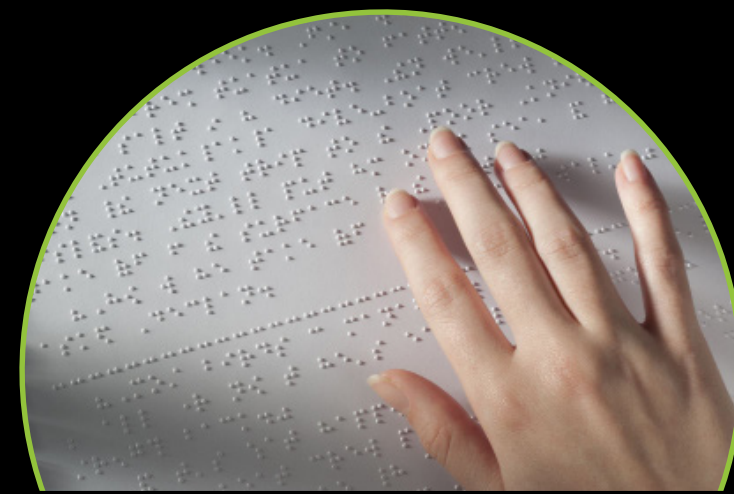


DESIGNING FOR DIFFERENT ABILITIES



MOBILITY IMPAIRMENT

- Step-Free Access
- Circulation and Maneuverability
- Vertical Transportation
- Seating and Rest Areas
- Accessible Facilities



VISUAL IMPAIRMENT

- Wayfinding and Signage
- Lighting Design
- Assistive Technology
- Non-Slip Surfaces
- Contrast
- Tactile Elements



HEARING IMPAIRMENT

- Visual and Vibrational Alerts
- Acoustic Optimization
- Assistive Listening Systems
- Clear Sightlines
- Signage & Text
- Communication




COGNITIVE IMPAIRMENT

- Simple and Predictable Layouts
- Clear Wayfinding and Landmarks
- Minimized Sensory Overload
- Flexible and Quiet Spaces
- Easy-to-Understand Instructions

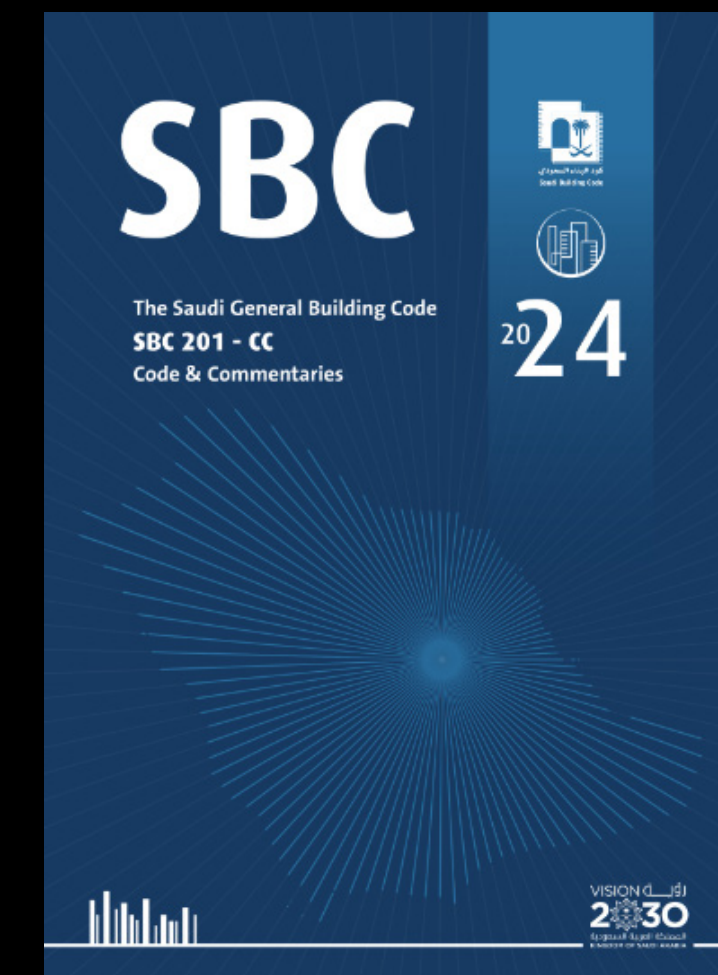
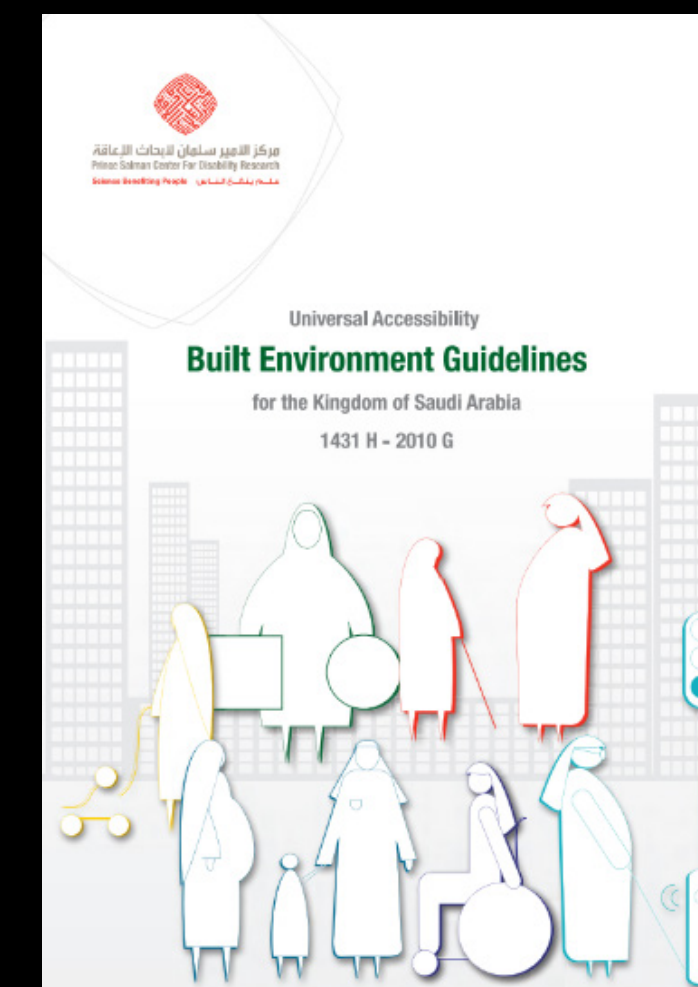
DESIGNING FOR DIFFERENT SECTORS





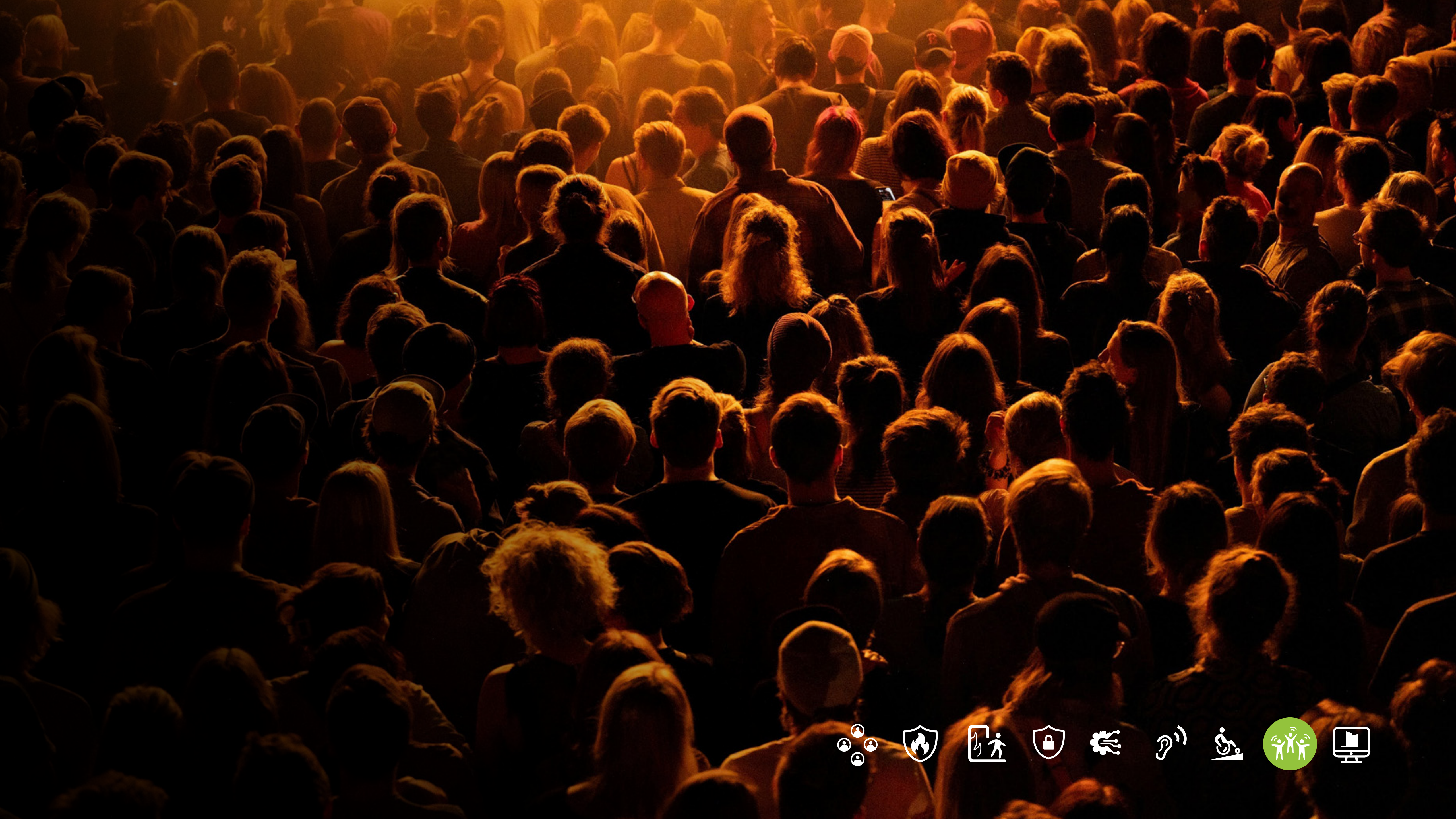
Helping **developers enhance their brand reputation** and achieve their sustainability goals through inclusive and future - proof design.

POSITIONING PROJECTS FOR TOP CERTIFICATIONS AND INDUSTRY AWARDS



POSITIONING PROJECTS FOR TOP CERTIFICATIONS AND INDUSTRY AWARDS

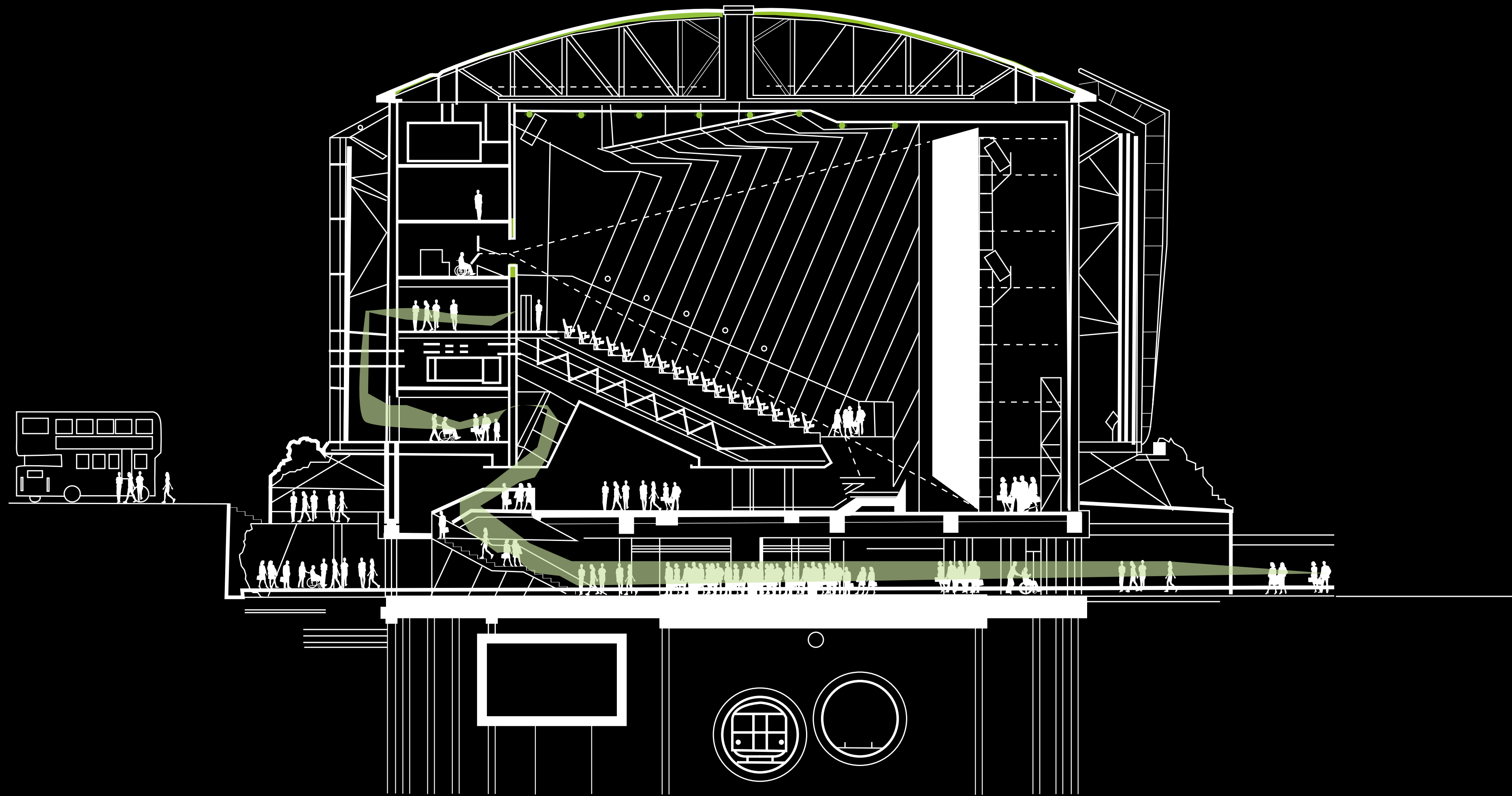





OUR SERVICES

CROWD DYNAMICS ENGINEERING

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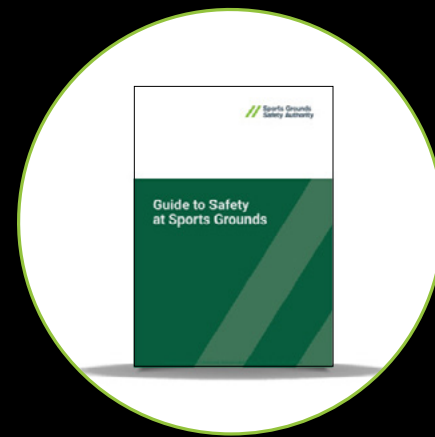
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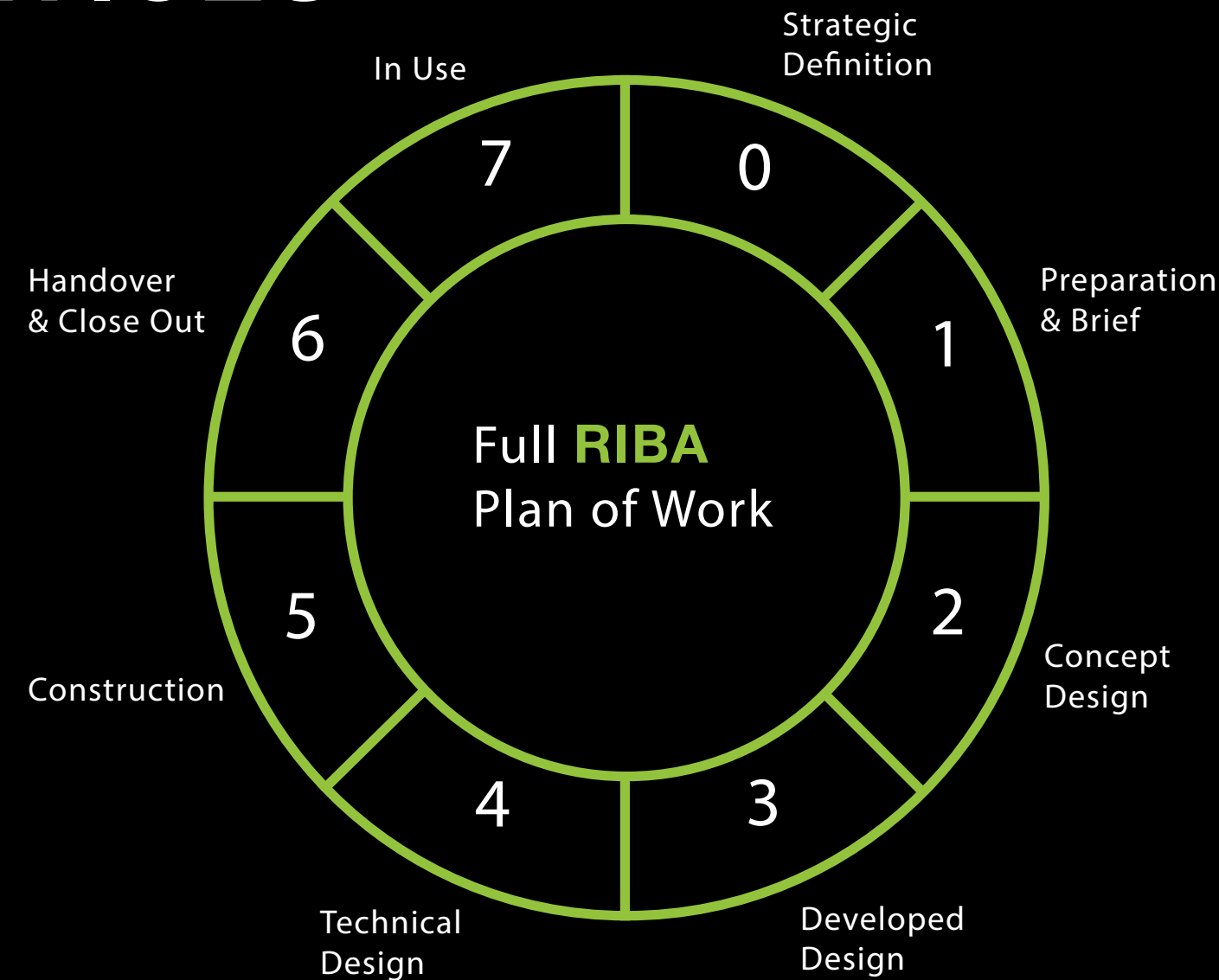
 House of Expertise

CROWD DYNAMICS SERVICES



CODE COMPLIANCE

The Sports Grounds Safety Authority publishes the Guide to Safety at Sports Grounds, providing comprehensive guidance on designing, managing, and operating safe sports venues. Recognized internationally, it serves as a best-practice framework, with many countries adopting or adapting its principles into their own regulations. Our expertise in the Green Guide allows us to conduct capacity calculations, assess crowd movement and flow, and provide guidance on safety management, stadium design, emergency evacuation planning, and security.



NEW BUILT DESIGN REVIEW

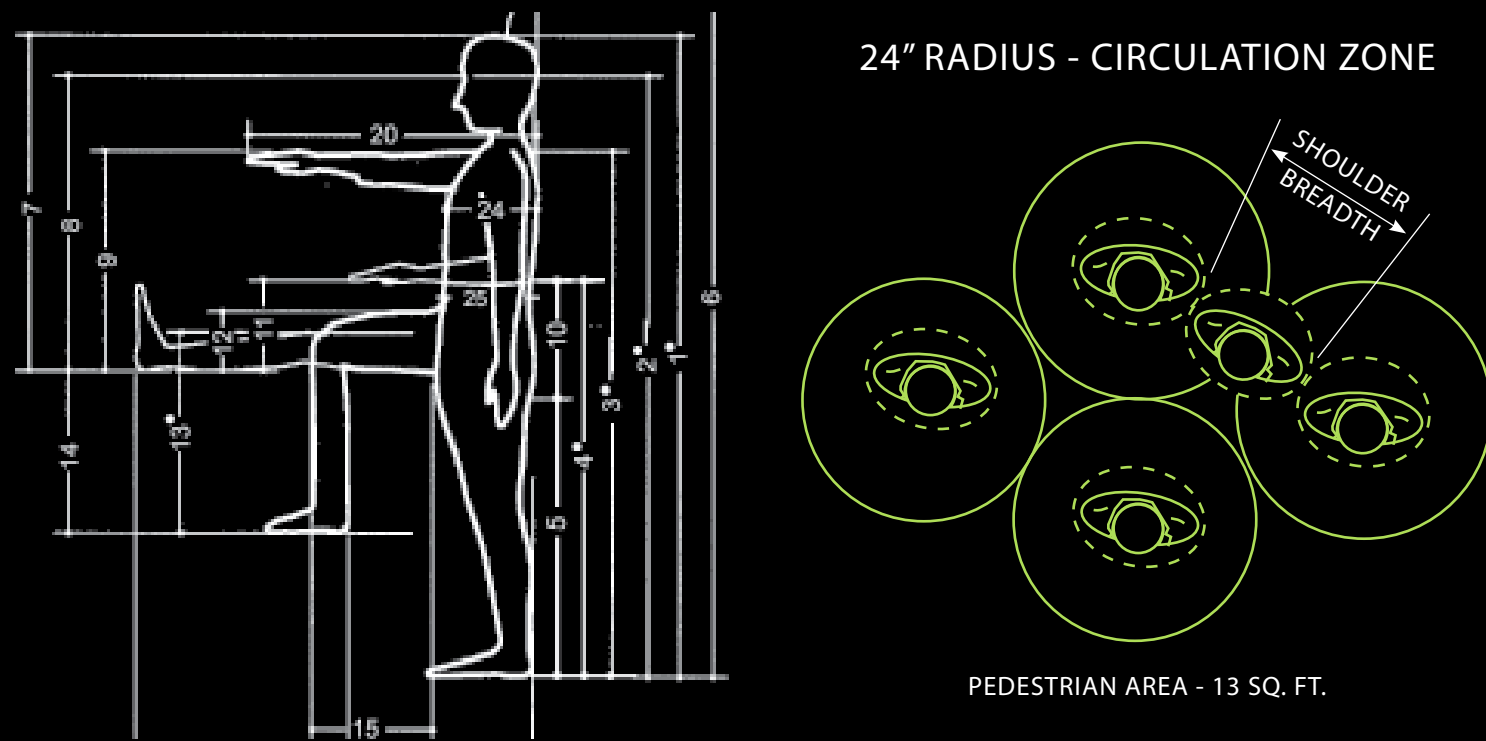
We support designers through every phase, tailoring our scope, tools, and analysis to each stage. From informing optioneering to shaping layouts for seamless crowd flow, we ensure capacity and area estimations align with the desired level of service. Our expertise minimizes staff and barrier interventions while maintaining pedestrian flow during construction by mitigating the impact of hoarding and closures. With experience managing large stakeholder meetings and long design timelines, we ensure smooth collaboration and effective decision-making.



EXISTING SITE ASSESSMENT AND OPERATIONAL REVIEW

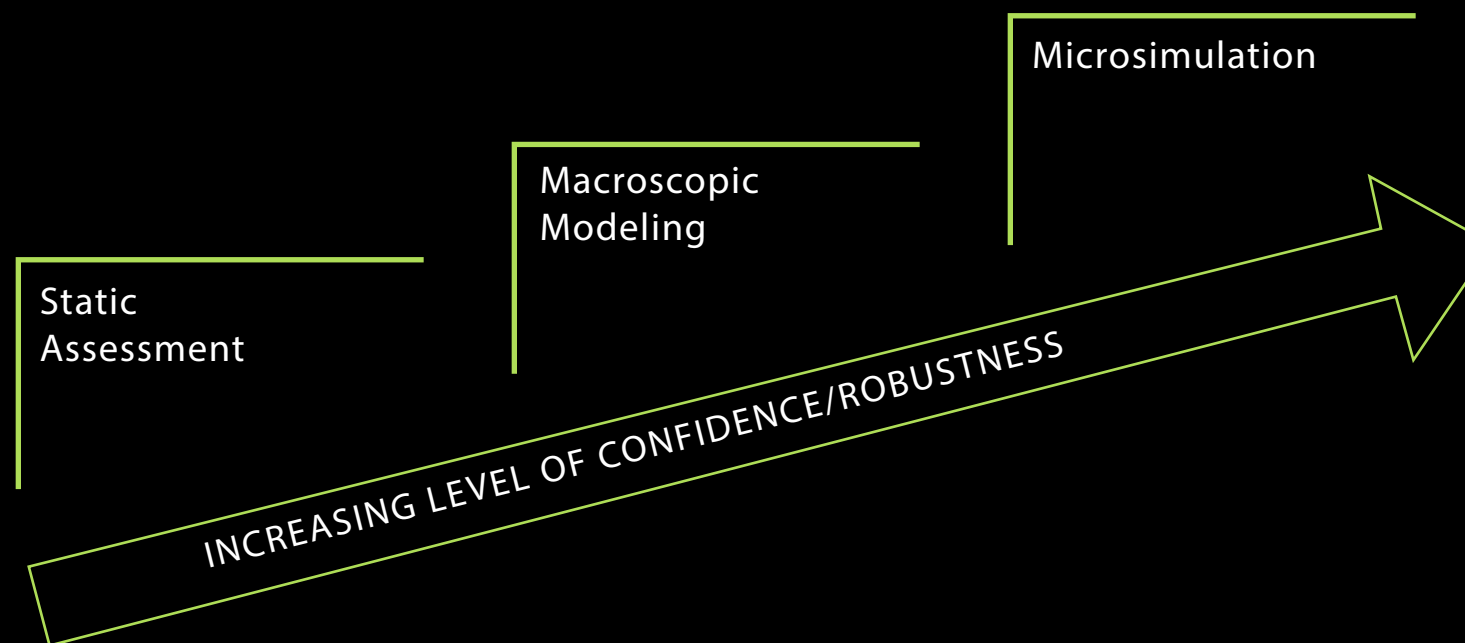
For existing sites, we specialize in conducting surveys to analyze user behavior and leverage site-specific data to inform our assessments. We provide guidance on how expansions or event-specific overlays may impact emergency evacuation and/or normal operations (ingress, egress, circulation), crowd densities, and necessary mitigation strategies. Additionally, we offer insights on operational planning adjustments needed to effectively accommodate these changes.

OUR APPROACH



DESIGN & PERFORMANCE TARGETS

Our expertise in crowd science first principles and experience across diverse sites enable us to provide tailored design and performance targets, helping **venue owners enhance user experience, reputation, and revenue**. We begin each project by engaging stakeholders to ensure design implications and service expectations are understood. Our deep understanding of crowd dynamics allows us to conduct capacity assessments for venues/activities not covered in planning guidance, ensuring a scientific basis for our recommendations.



MULTI LAYERED ASSESSMENT

We use a multi layered assessment approach to refine our understanding of a site’s capabilities, enabling targeted modelling of residual risks at each stage. This ensures a comprehensive evaluation while treating modelling tools to extract insights rather than solutions. Our **modelling is purpose-driven, focused on identifying and deepening our understanding of specific risks**. By progressing from simple crowd quantity calculations to 3D microsimulation of individual movements, we ensure both a robust assessment and stakeholder confidence.

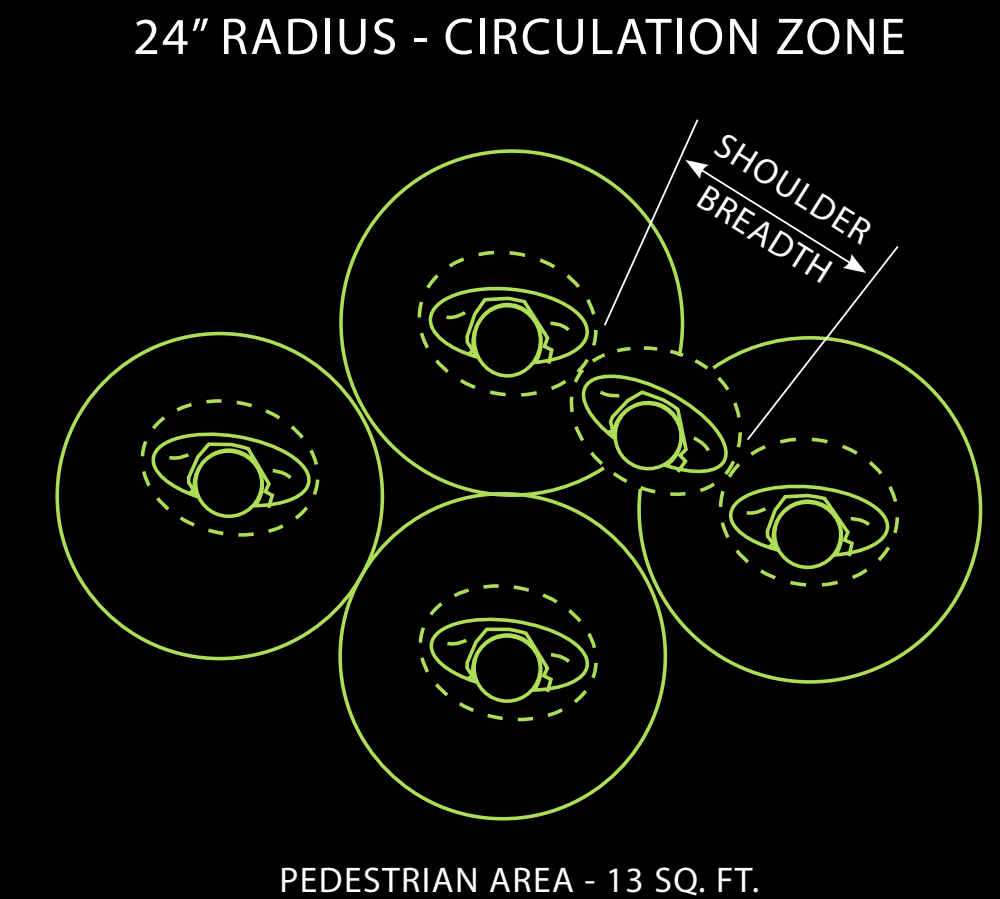
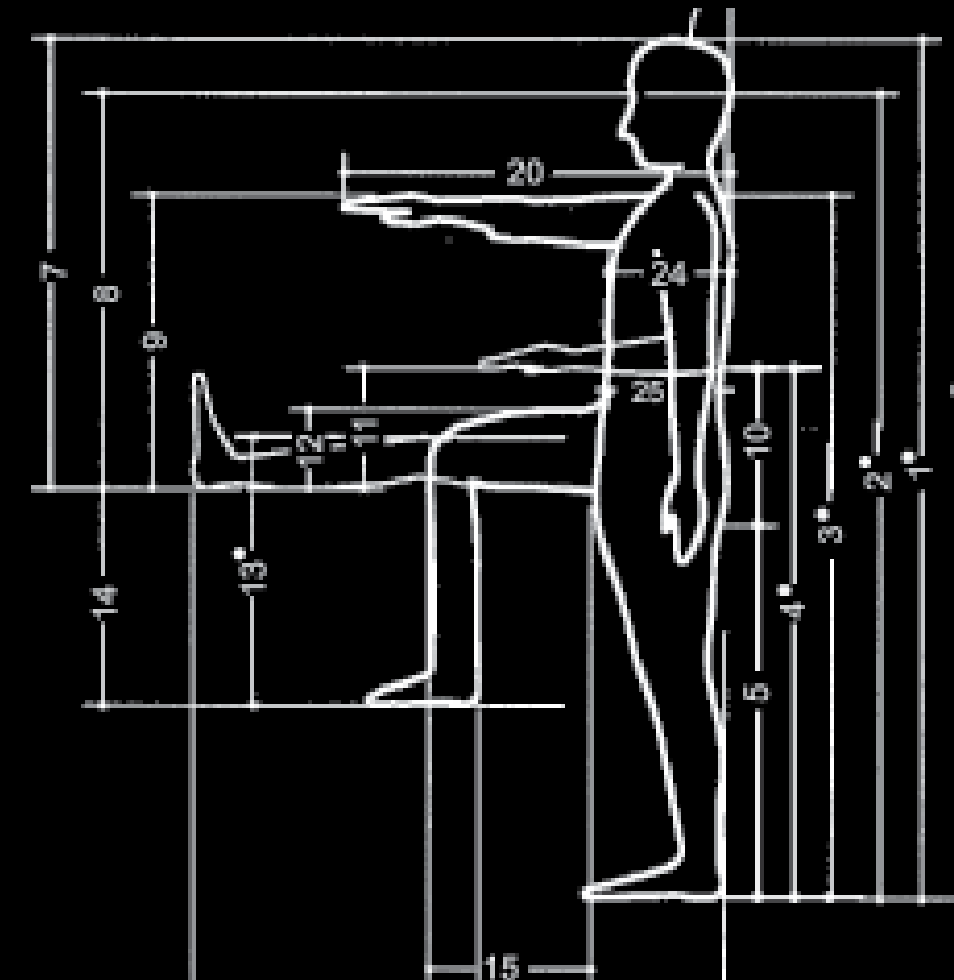


CHALLENGE-SPECIFIC CROWD ANALYSIS

As crowds move through a site, they engage in various activities, from queuing at screening systems to circulating through the venue, accessing concessions and toilets, occupying viewing areas, and dwelling in concourses. Each stage required specific analysis and KPIs - waiting times, densities, and flow rates - to assess capacity and performance. **We tailor tools and performance targets to each activity and area, ensuring stakeholders receive effective insights** to inform decision-making across all phases of crowd movement: ingress, circulation, egress, and emergency evacuation.

EXAMPLE DESIGN TARGETS

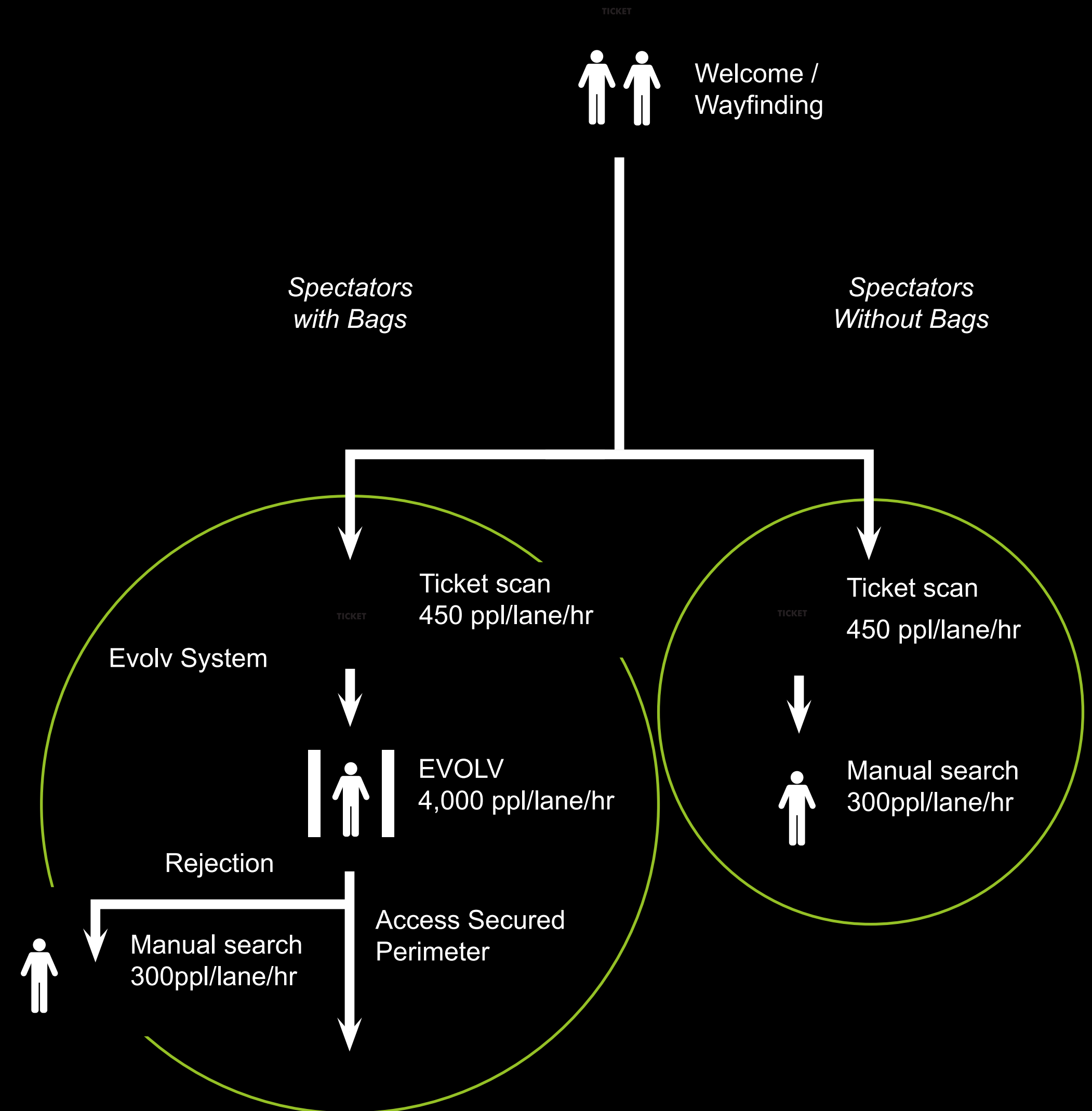
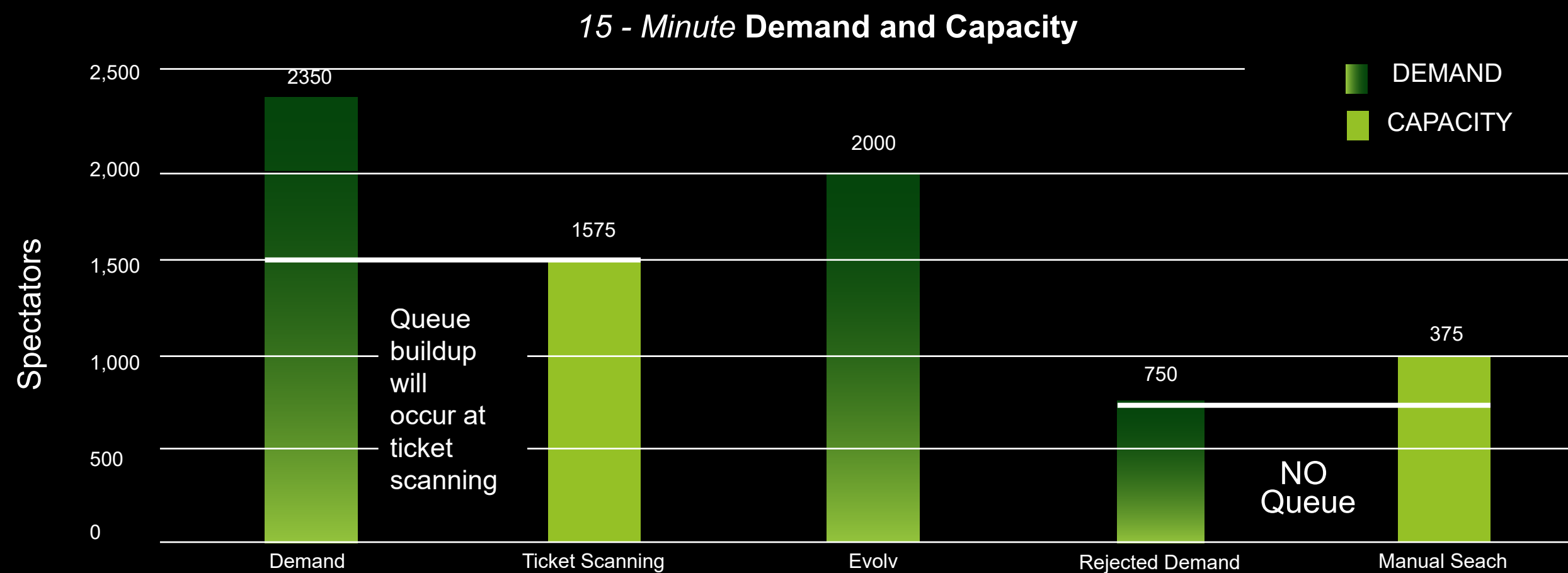
Which **level of service** allows spectators to watch the show whilst conserving the ability to **circulate to/from concession and toilet facilities**?



Activity type	Activity	Space per individual – diameter (cm)				
		LoS A	LoS B	LoS C	LoS D	LoS E/F
Sitting	Sit – bent knees	Yes	Yes	Yes	Yes	No
	Sit – extended leg	Yes	Yes	Restricted	No	No
Circulation	Movement between seated individuals	Free – No disturbance	Restricted – <u>No</u> disturbance	Restricted – <u>with</u> disturbance	No circulation	No circulation

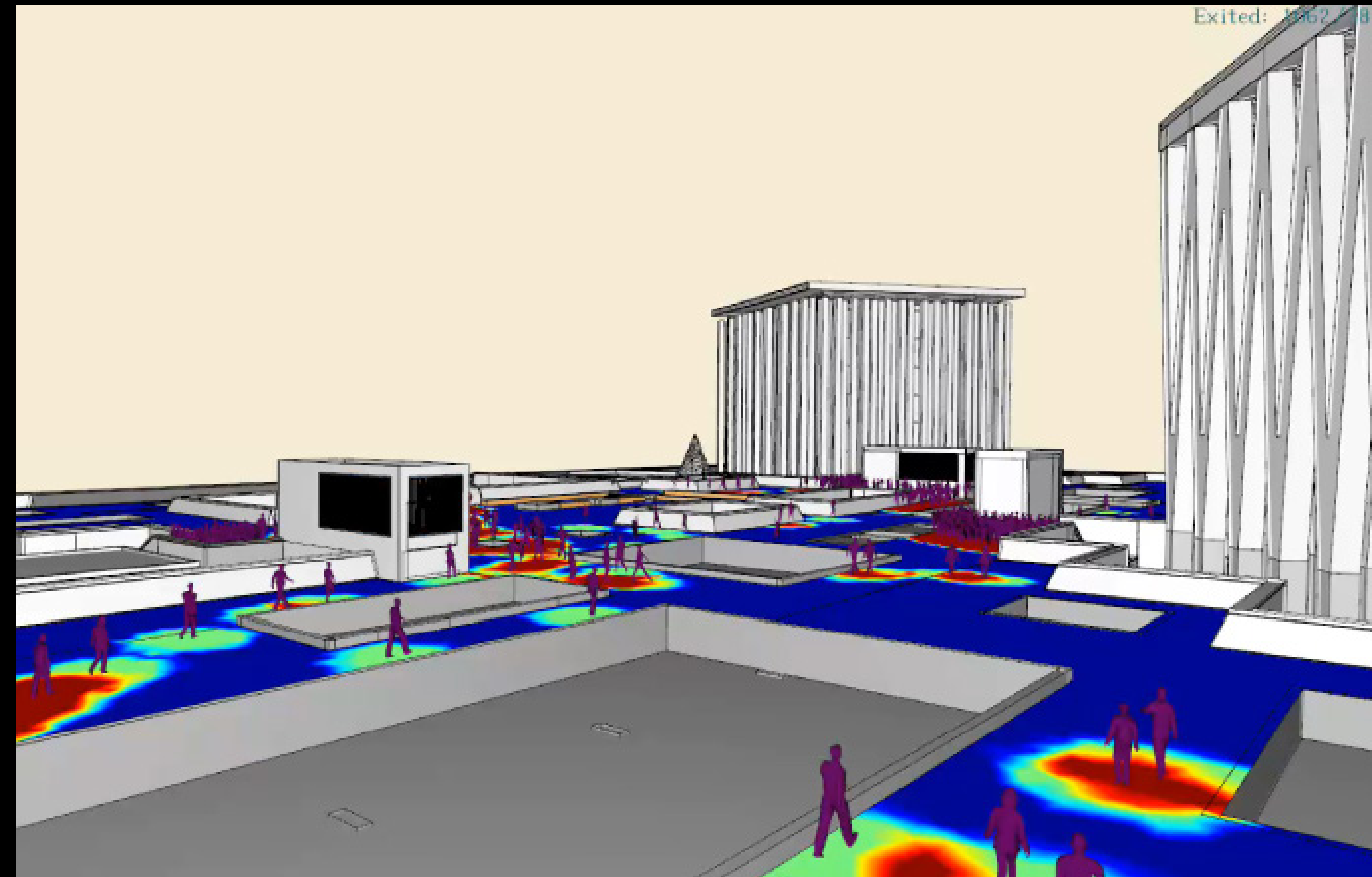
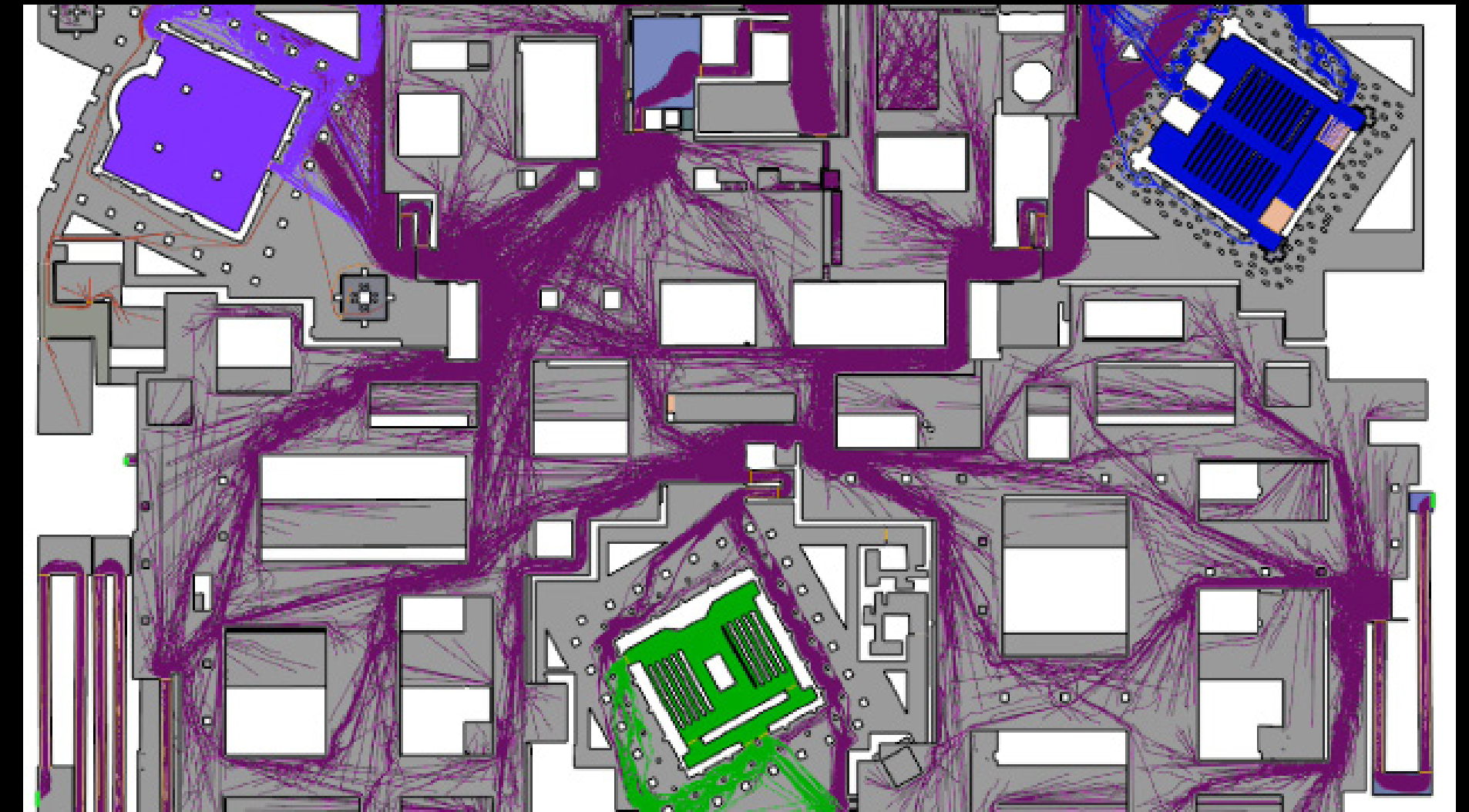
EXAMPLE STATIC ASSESSMENT

- What are the capacities of each individual component of the security screening system?
- At which part of the system is queue build-up expected?

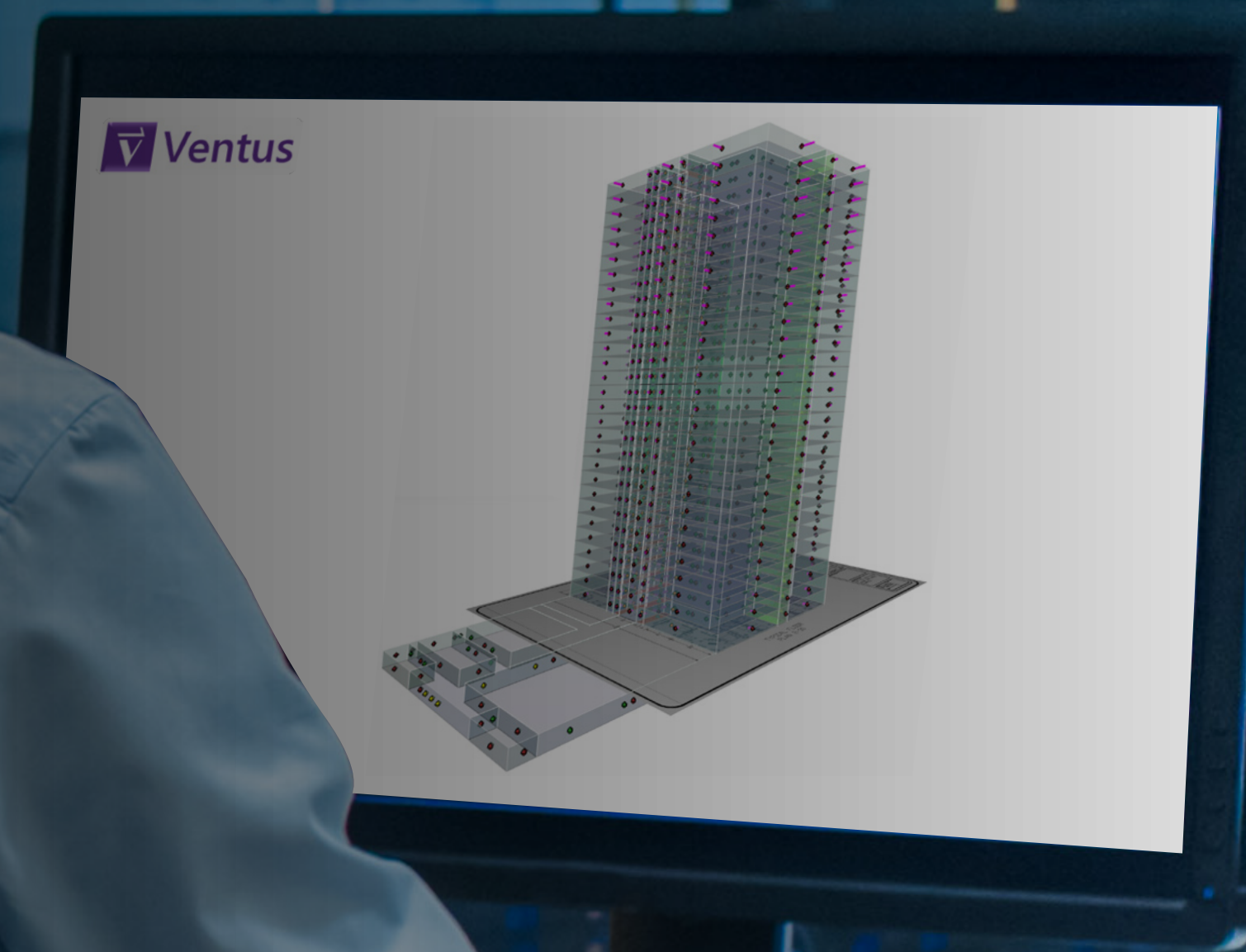


EXAMPLE MICROSIMULATION

- What is the impact of barrier design on crowd flow?
- Visual tool that allow crowd managers to envisage managing the queue and crowd flow.



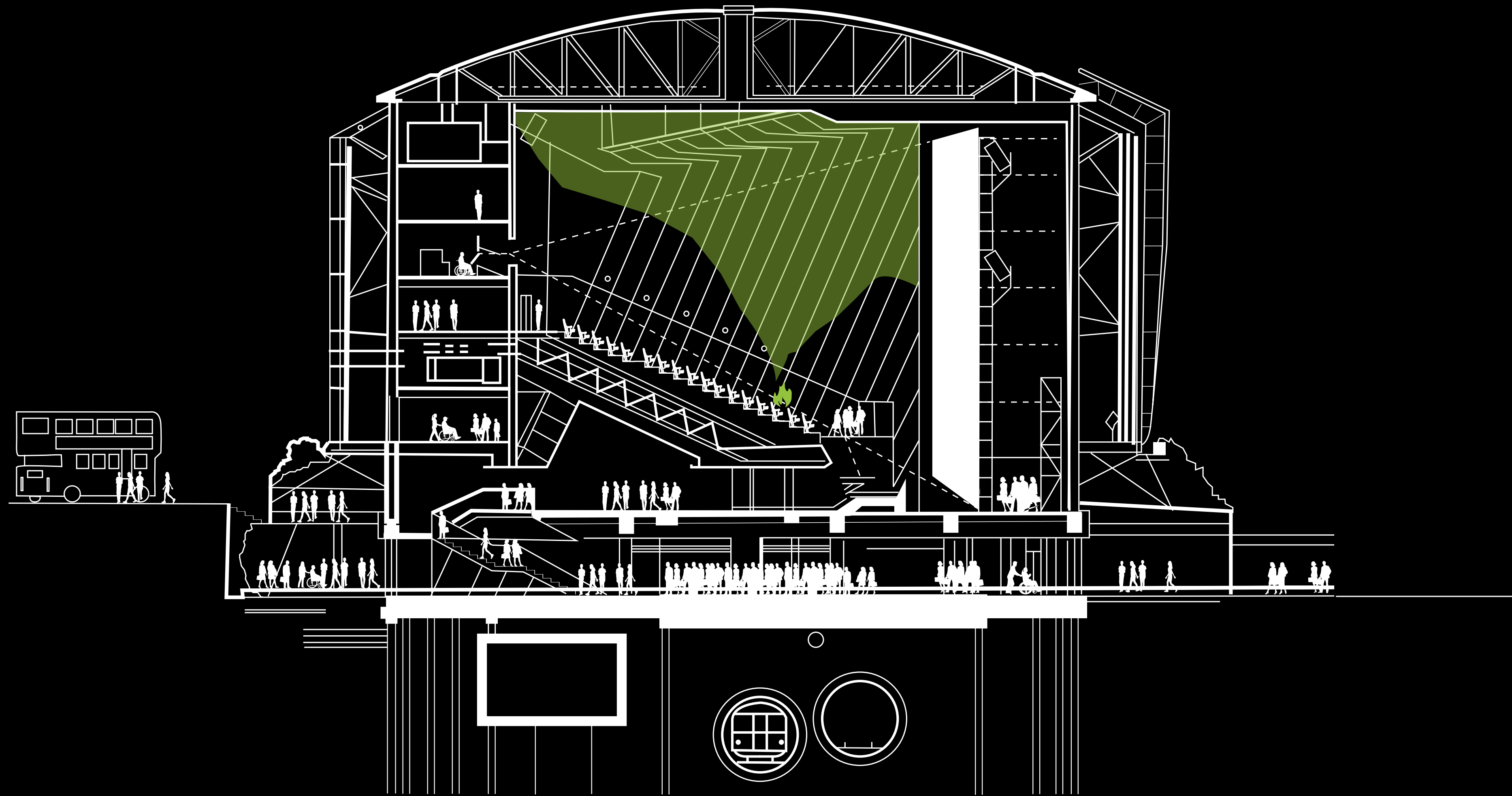
ADVANCED RISK MODELLING




OUR SERVICES

ADVANCED RISK MODELLING

Our services are **interconnected**, each discipline reinforcing the other. Together, we deliver integrated solutions that shape the bigger picture and create **lasting impact**.




 Accessibility and Inclusivity

 Acoustic Engineering

 Advanced Risk Modelling

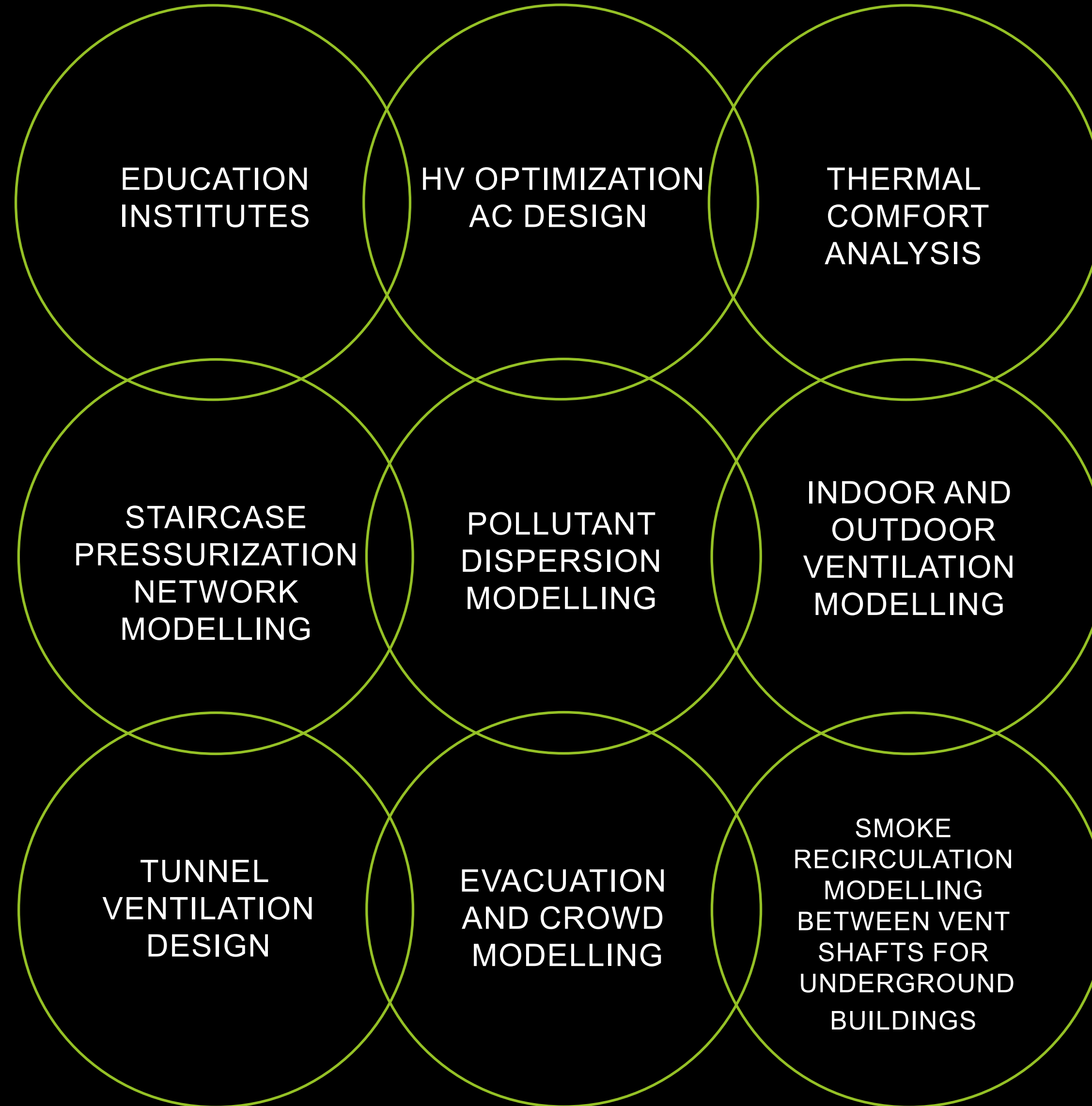
 Building Technology Solutions

 Crowd Dynamics Engineering

 Fire and Life Safety

 House of Expertise

BUILDING PHYSICS EXPERTISE



PYROSIM

Our team uses computational tools and simulations to predict and analyze the behavior of fire and the movement of smoke in various environments.

Fire and smoke modelling is crucial for understanding fire dynamics, assessing risks, and improving safety measures in both wildland and urban settings.

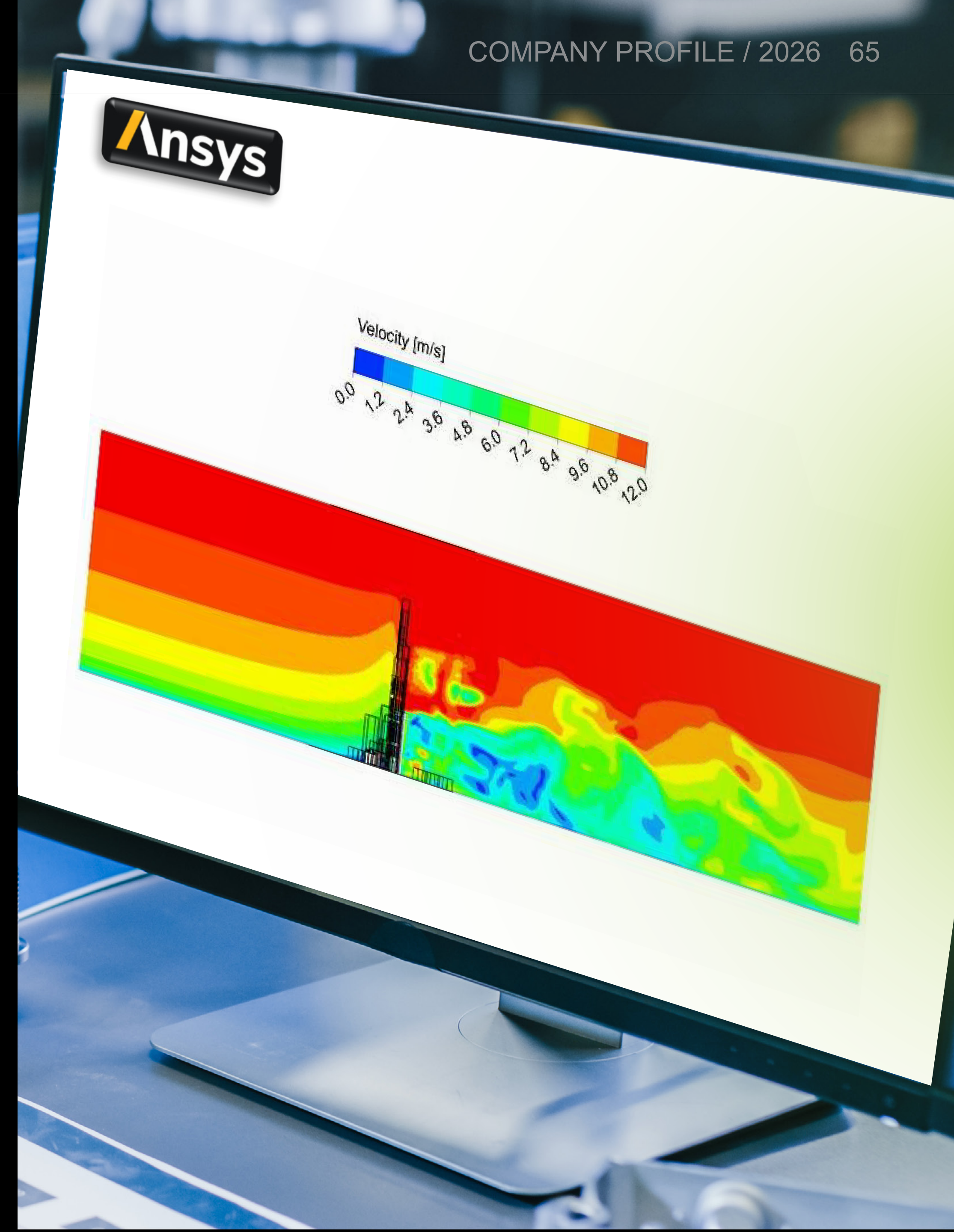
Our experts utilize Fire dynamics simulator and Pyrosim for fire and smoke modelling exercises.



ANSYS FLUENT

Ansys Fluent is a versatile tool that enables detailed simulations to inform design decisions and improve the performance of building systems.

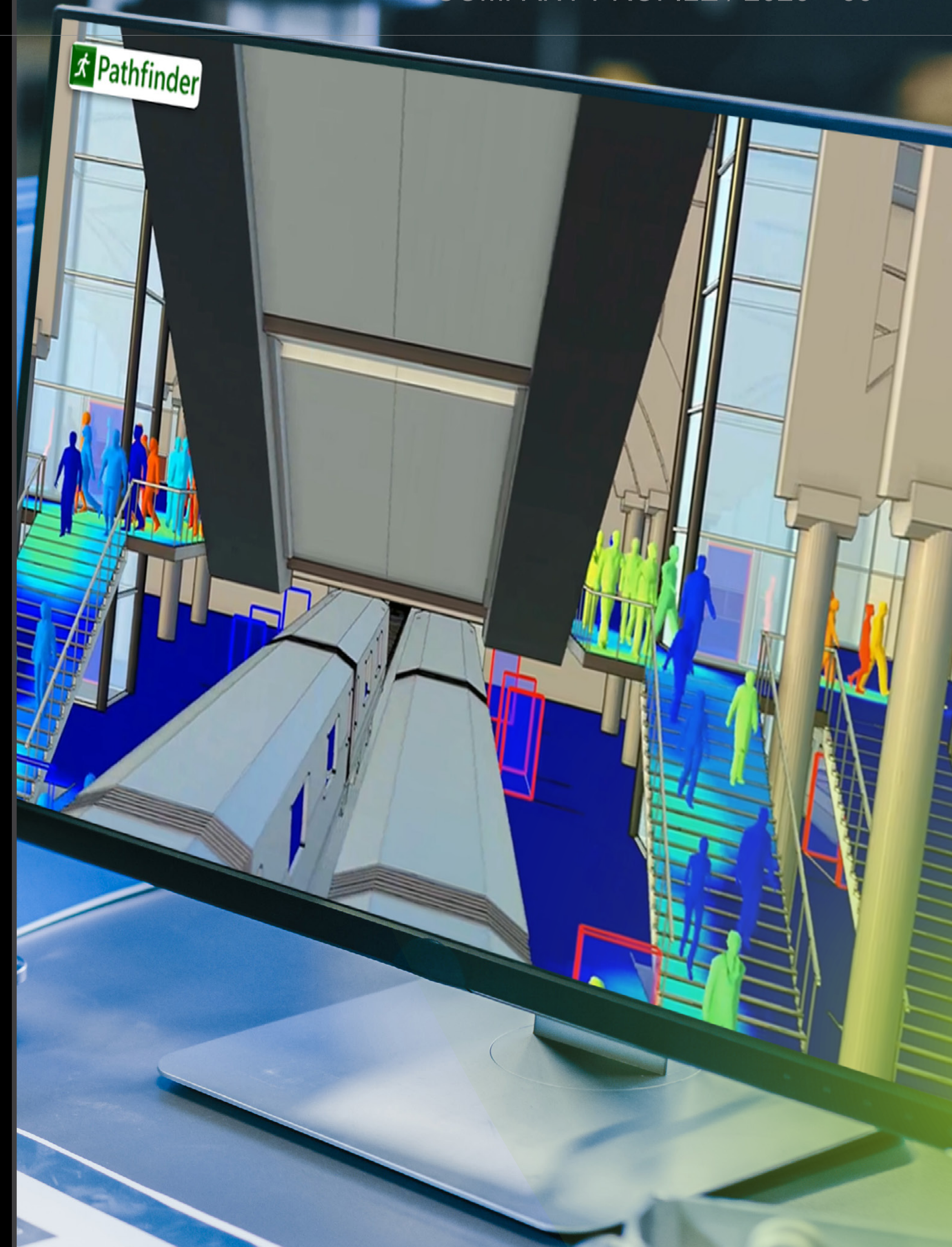
Our experts use it to simulate fluid flow and heat transfer for building physics applications to model complex physical phenomena that occur in buildings, such as airflow, thermal comfort, and energy efficiency.



PATHFINDER

Pathfinder is a powerful tool for evacuation and crowd modelling, providing insights into human behavior during emergencies and helping to design safer environments

Our experts use Pathfinder for various project types such as buildings, transportation hubs, and large public venues, to analyze people behavior and optimize evacuation strategies.

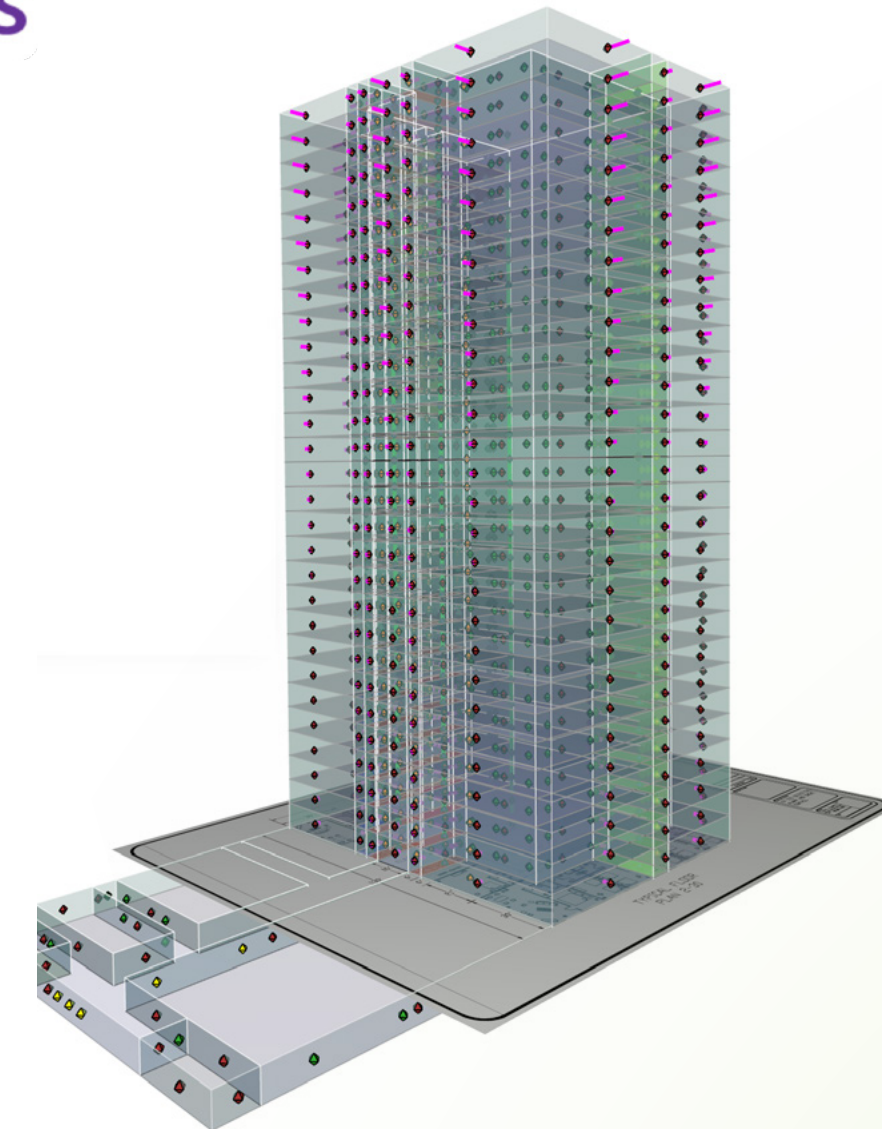


BUILDING PHYSICS SOFTWARE CAPABILITY

Our team specializes in pressurization network modelling to analyze smoke control systems and enhance building safety during emergencies.

Ventus helps them create detailed **3D models of pressure zones within buildings, such as stairwells, atriums, and underground spaces.** The 3D modelling allows the team to visualize how air pressure behaves in different areas, which is crucial for effective smoke control and occupant safety.

 Ventus



HOUSE OF EXPERTISE



HOUSE OF EXPERTISE

An independent consultancy **approved by Abu Dhabi Civil Defence** for Fire and Life Safety in buildings and establishments providing third-party reviews, inspections, and technical assessments for Fire & Life Safety systems to ensure compliance with authority requirements. We support projects from design through construction and operation by delivering objective evaluations and professional opinions in coordination with the Authorities. Having Jurisdiction, applying the UAE Fire & Life Safety Code of Practice and recognized international standards.



WE SUPPORT PROJECTS FROM
DESIGN THROUGH CONSTRUCTION
AND OPERATION

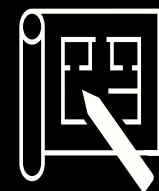
HOUSE OF EXPERTISE SERVICES AND PROJECT EXAMPLES



HOUSE OF EXPERTISE: SERVICES

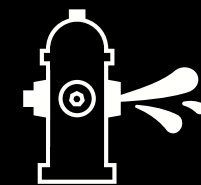


FIRE LIFE SAFETY



Fire & Life Safety design, review, and technical assessment to verify compliance with applicable codes and authority requirements, including evaluation of fire strategies, compartmentation, and means of egress, in coordination with the Authorities having Jurisdiction.

SHOP DRAWINGS



Review of Fire and Life Safety shop drawings for fire al-arm, firefighting, emergency lighting, voice evacuation, smoke control, and façade systems to verify compliance with applicable codes, standards, and approved fire strategies, ensuring proper coordination and alignment with authority requirements.

INSPECTION



Site inspections to verify that passive and active Fire & Life Safety systems are installed and performing in accordance with approved drawings, applicable codes, and authority requirements, supporting conformity, quality assurance, and timely authority approvals while reducing rework and project delays.

HOUSE OF EXPERTISE: SERVICES

GAP ANALYSIS



Technical gap analysis to identify deviations between existing conditions and current Authority and Fire & Life Safety code requirements. The assessment provides clear findings and recommendations to support compliance upgrades and risk mitigation.

FAÇADE CONSULTANCY



Specialist review, inspection, and technical assessment of façade systems to evaluate fire performance, material compliance, and fire spread risks, supporting compliance with authority requirements and fire safety objectives for external wall assemblies.

RISK ASSESSMENT



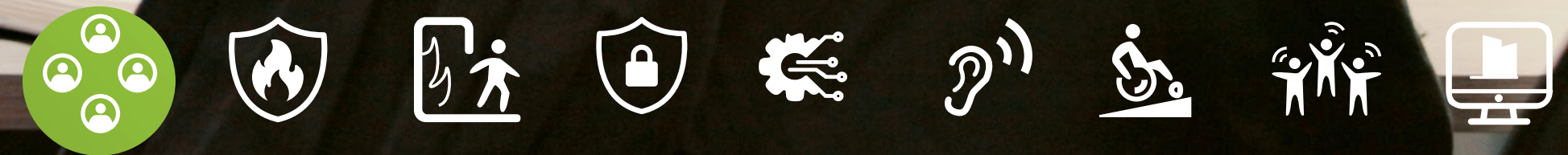
Structured fire risk assessments to identify hazards, evaluate fire scenarios, and assess the adequacy of existing Fire & Life Safety measures, supporting informed decision-making and effective risk reduction strategies.

EVACUATION MODELING



Assessment of occupant movement and evacuation performance using recognised modelling tools to evaluate egress capacity, travel times, and life safety performance under fire scenarios.





OPERATIONS PURPOSE

Operations delivers Fire & Life Safety protection, preparedness, assurance, and resilience across people, property, and processes. Supporting organisations from design and construction through to occupation and ongoing operations. It is important to embed operational thinking is embedded throughout the asset lifecycle. Emergency preparedness, business continuity, compliance, training, and resilience are strengthened to help protect people, assets, and business functions throughout the life of an asset.



OPERATIONS PURPOSE

- Safeguard life through preparedness, prevention, and response
- Maintain continuous operational readiness
- Assure compliance with local and international FLS standards
- Enable safe, resilient, and sustainable operations
- **Protect Organisations, Reputation, Resilience and Sustainability**



Fire and Life Safety
Assurance



| FIRE AND LIFE SAFETY ASSURANCE

Integrated design review, compliance coordination, and performance assurance to deliver safe, accessible, and emergency-ready environments.





Governance
and Compliance

GOVERNANCE AND COMPLIANCE

Structured governance frameworks delivering accountability, compliance, and operational assurance through clear roles, procedures, and regulatory oversight.

▪ OPERATIONAL AUDITS AND INSPECTIONS

We deliver comprehensive operational audits and inspections during construction and prior to handover to ensure safety systems, processes, and installations align with project requirements and industry standards. Our specialist team develops tailored inspection criteria, verifies construction safety and emergency access, and ensures operational readiness and compliance, identifying issues early to enable a smooth, safe transition to occupancy.



Emergency
Planning and
Preparedness

EMERGENCY PLANNING AND PREPAREDNESS

Integrated risk assessment, emergency planning, and business continuity strategies to strengthen resilience, protect reputation, and ensure operational readiness.

▪ COMMUNITY RISK ASSESSMENTS (CRAS)

Standards-driven Community Risk Assessments enabling effective emergency response, compliance, and resilient communities.

▪ FIRE RISK ASSESSMENTS

Compliant Fire Risk Assessments that identify hazards, reduce risk, and strengthen safety and resilience.

▪ EMERGENCY RESPONSE PLANS

Practical, compliant Emergency Response Plans supported by structured Incident Response Teams to ensure effective coordination, safe resolution, and business recovery.

▪ STANDARD OPERATING PROCEDURES

Structured, impact-assessed SOPs and policies that ensure compliance, operational clarity, and inclusive implementation.



Health, Safety and
Reputational Risk

Communications

| HEALTH, SAFETY AND REPUTATIONAL RISK

Integrated health and safety management ensuring risk control, contractor compliance, and workforce welfare.

| COMMUNICATIONS

Integrated communication and EOC frameworks delivering timely, accurate information for confident decision-making.



Training,
Competency
and Exercising



TRAINING, COMPETENCY AND EXERCISING

Role-based training and multi-agency exercises that build capability, validate readiness, and ensure effective emergency coordination.

EMERGENCY RESPONSE EXERCISES

- Design Confidence delivers structured, scenario-based Emergency Response Exercises
- We test procedures, communication, and coordination under pressure
- Our exercises strengthen leadership decision-making.
- Our exercises identify organisational and individual learning opportunities
- The result is continual improvement, greater confidence, and a more resilient emergency response.

Continuous
Improvement
and Learning

Emergency
Response



EMERGENCY RESPONSE

Ensuring your Emergency Response capability provides efficient initial actions, which will support the responding agencies: Fire and Rescue, Medical and Specialist Response teams. Dovetailing into the scaleable incident command system, to support Civil Defence, Police and EMS.

CONTINUOUS IMPROVEMENT AND LEARNING

Incident debriefs and after-action reviews capture lessons learned, supported by performance metrics, maturity assessments, and benchmarking to drive continuous improvement.





GIGA PROJECTS



GIGA PROJECT FIRE AND LIFE SAFETY

Design Confidence provides the fire & life safety expertise required to deliver giga projects safely, supporting complex, high-density, and high-profile environments through performance-based engineering, regulatory compliance and fire safety design at scale.



OUR EXPERTISE : TRUSTED ON MAJOR GIGA-PROJECTS.

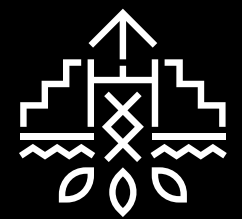
EXPO 2020: A global mega-event & legacy development characterised by high-footfall, complex public environments.

NEOM : A proposed new city that represents futuristic living and high-tech industries.

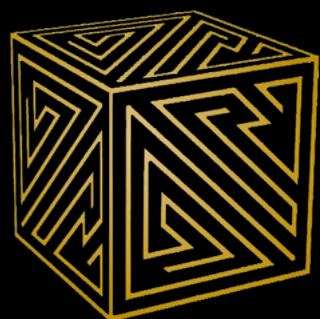
RED SEA PROJECT : A luxury tourism project aimed at diversifying the country's economy beyond oil.

AMAALA : An ultra-luxury tourism project

GIGA PROJECT FIRE AND LIFE SAFETY



ALULA
DEVELOPMENT COMPANY
شركة العلا للتطوير



NEW MURABBA

OUR EXPERTISE :
TRUSTED ON MAJOR GIGA-PROJECTS.

QIDDIYA : A mega entertainment and sports project near Riyadh.

DIRIYAH COMPANY: Aimed at preserving the Diriyah historic site and developing it into a cultural tourism destination.

ALULA DEVELOPMENTS: A world-class portfolio of hospitality, residential, retail, commercial and infrastructure assets.

NEW MURABBA: A landmark giga-scale urban development centred around an iconic mixed-use structure.



KEY PROJECTS

HOUSE OF EXPERTISE

We support projects from design through construction and operation, delivering objective technical evaluations and professional advice in close coordination with the Authorities having Jurisdiction. Our approach applies the UAE Fire & Life Safety Code of Practice along side recognised international standards.

PROJECT TYPES

- Residential
- Industrial
- Airports
- Facilities



BADA AL JUBAIL VILLAS
ABU DHABI, UAE



FLATTED FACTORY
ABU DHABI, UAE



AL BATEEN AIRPORT
ABU DHABI, UAE



AL AIN OASIS
ABU DHABI, UAE



BOMBARDIER HANGAR AT
AL BATEEN AIRPORT
ABU DHABI, UAE



AD POLICE TRAINING CITY
ABU DHABI, UAE



FIRE & LIFE SAFETY REVIEW AND AUTHORITY APPROVAL

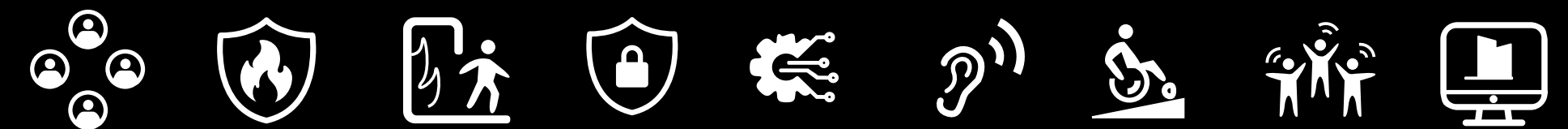
BADA AL JUBAIL VILLAS

ABU DHABI, UAE

Bada Al Jubail's positioning as a benchmark for luxury waterfront living.

Design Confidence supported the Bada Al Jubail Villas development through a comprehensive Fire & Life Safety review and authority approval process for a premium residential community. Our team assessed fire strategies, building layouts, compartmentation, and means of egress to ensure compliance with

applicable codes and authority requirements. Close coordination with designers and the Authorities Having Jurisdiction enabled a smooth approval process while ensuring that life safety provisions were fully aligned with the architectural intent and residential quality of the project





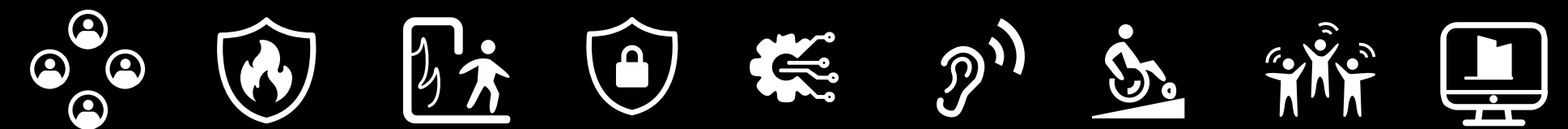
FIRE & LIFE SAFETY DESIGN AND
AUTHORITY APPROVAL

FLATTED FACTORY

ABU DHABI, UAE

Design Confidence delivered Fire and Life Safety design services for the Flatted Factory development, addressing the unique challenges associated with industrial occupancy and shared building configurations. Our team developed a compliant

fire strategy covering compartmentation, fire protection systems, and means of egress to support safe operations within a multi-tenant industrial environment. The design approach ensured regulatory compliance while maintaining operational flexibility for future tenants.





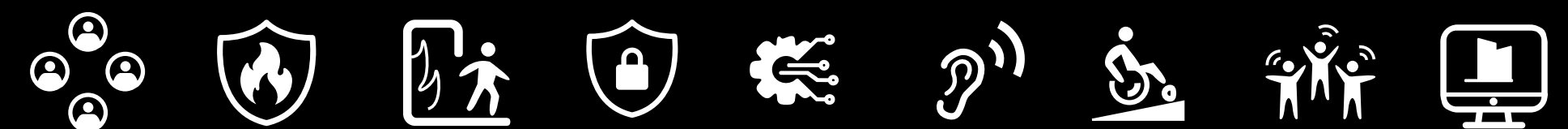
AL BATEEN AIRPORT

ABU DHABI, UAE

Design Confidence was appointed to support Al Bateen Airport through a master plan Fire & Life Safety upgrade and approval of the fire protection network. Our scope focused on evaluating and enhancing the airport-wide fire protection infrastructure to meet current regulatory and operational

requirements. By coordinating closely with stakeholders and authorities, we ensured that the upgraded fire protection network delivers resilient, compliant, and operationally efficient life safety coverage across the airport facilities.

EVALUATING AND ENHANCING
THE AIRPORT-WIDE FIRE
PROTECTION INFRASTRUCTURE
TO MEET CURRENT REGULATORY
REQUIREMENTS





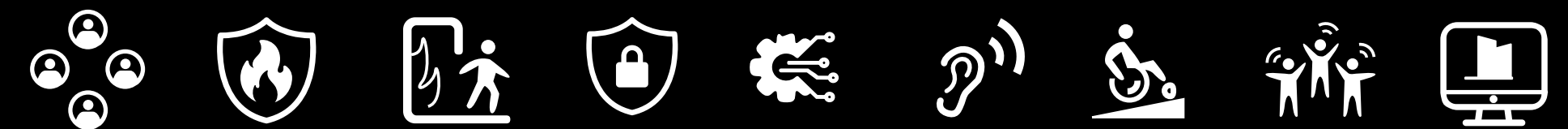
AL AIN OASIS

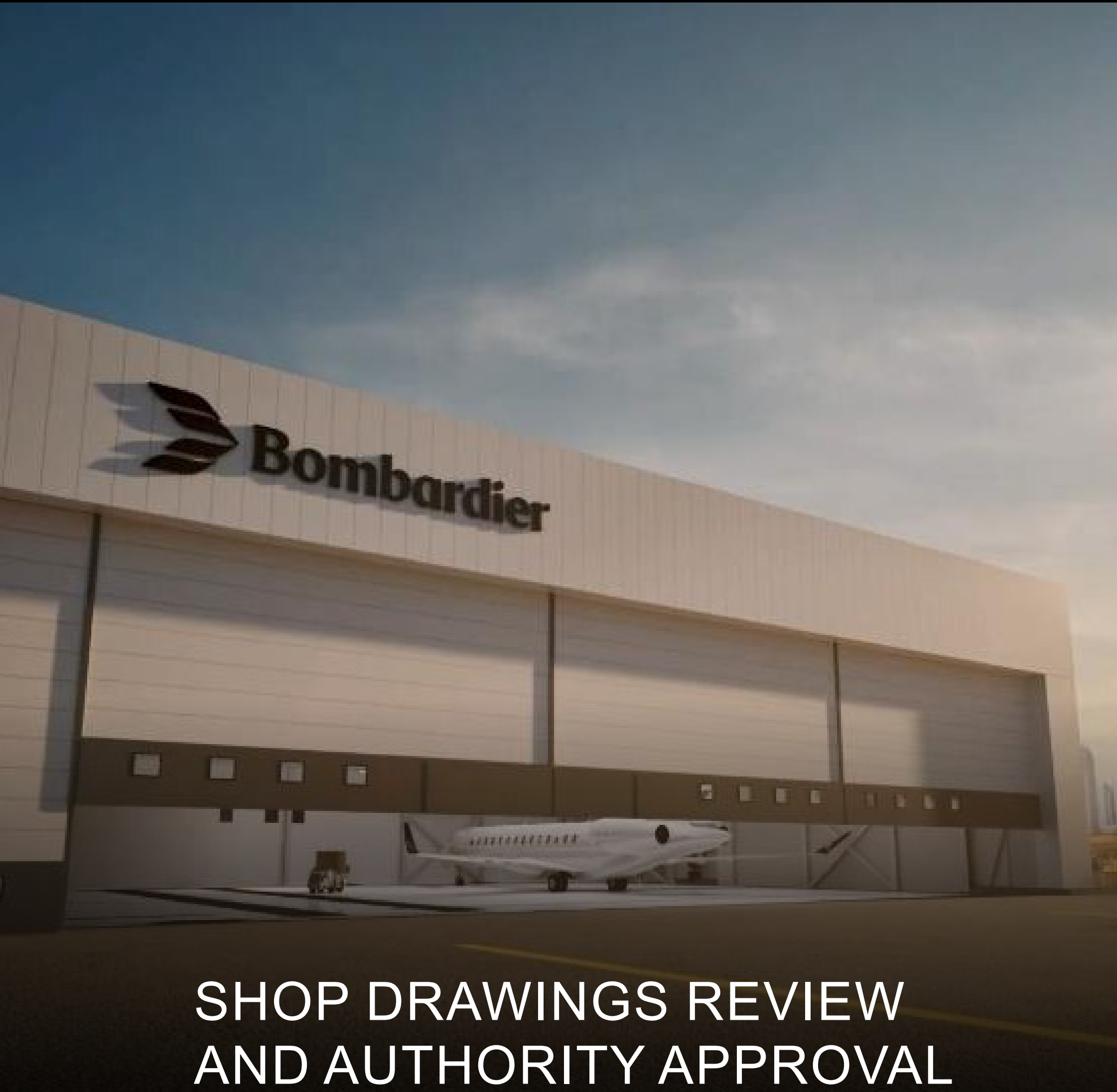
AL AIN , ABU DHABI, UAE

Design Confidence provided comprehensive Fire & Life Safety review and shop drawings review services for the Al Ain Oasis project, covering fire fighting, fire alarm, emergency lighting, smoke control, façade systems, and both passive and active fire protection measures. Given the

cultural and heritage-sensitive nature of the site, our approach balanced life safety compliance with preservation requirements. Detailed inspections were carried out to verify correct implementation, supporting authority approvals while maintaining the integrity and character of the development.

COMPREHENSIVE FIRE & LIFE SAFETY REVIEW AND AUTHORITY APPROVAL





SHOP DRAWINGS REVIEW
AND AUTHORITY APPROVAL

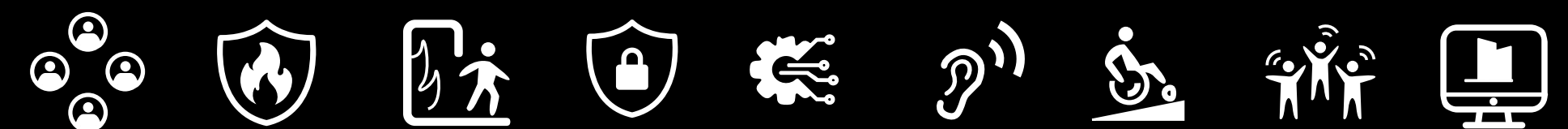
BOMBARDIER HANGAR

AL BATEEN AIRPORT, ABU DHABI, UAE

Design Confidence provided Fire and Life Safety shop drawings review for the Bombardier Hangar at Al Bateen Airport, including firefighting, fire alarm, emergency lighting and smoke control systems. Recognizing the critical operational and aviation safety requirements of the hangar

environment, our team ensured that all systems were aligned with approved fire strategies and authority requirements.

The service supported efficient approvals and delivered a high level of fire safety assurance for this specialised aviation facility.





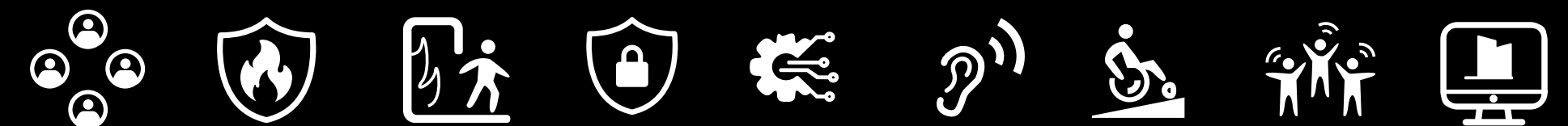
COMPREHENSIVE FIRE & LIFE SAFETY REVIEW, INSPECTION AND AUTHORITY APPROVAL

AD POLICE TRAINING CITY

ABU DHABI, UAE

Design Confidence is currently supporting the Abu Dhabi Police Training City through detailed review of Fire & Life Safety shop drawings and on-site inspections covering fire fighting, fire alarm, emergency lighting, smoke control, façade systems, and passive and active fire protection measures.

Our team is ensuring that life safety systems are robust, coordinated, and suitable for a large-scale training environment with complex operational demands. The ongoing scope supports timely authority approvals while enhancing overall fire resilience across the facility.



KEY PROJECTS

STADIUMS

We deliver engineering and design solutions for some of the world's most recognised stadiums, enabling safe, comfortable, and resilient performance under peak demand.

PROJECT TYPES

- sports stadiums



ZAYED SPORTS CITY STADIUM
ABU DHABI, UAE



LUSAIL STADIUM
DOHA, QATAR



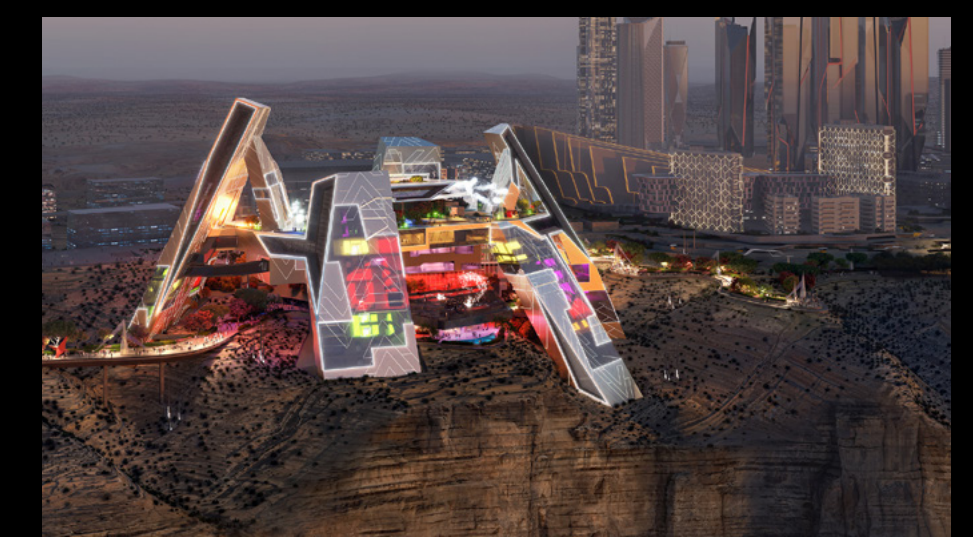
HAZZA BIN ZAYED STADIUM
AL AIN, UAE



KING SALMAN STADIUM
SAUDI ARABIA



PRINCE MOHAMMED BIN SALMAN
STADIUM SAUDI ARABIA



THE QIDDIYA PERFORMING
ARTS CENTER, SAUDI ARABIA



LUSAIL STADIUM

DOHA, QATAR

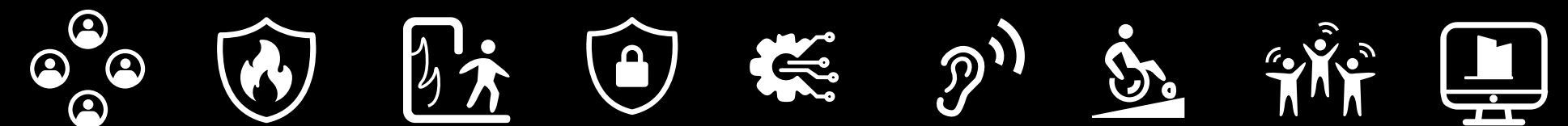
Lusail Stadium is one of the premier venues of the 2022 FIFA World Cup Qatar™, hosting multiple matches including the opening ceremony, the FIFA World Cup Final, and the closing ceremony.

Designed and constructed in compliance with FIFA tournament standards, Lusail Stadium stands as a landmark venue, capable of accommodating large-scale international events.

Design Confidence Consultancy was appointed to prepare the Fire & Life Safety (FLS) strategy for the project, ensuring compliance with Qatar Civil Defence (QCD) requirements and FIFA operational standards.

The FLS Strategy was developed in accordance with the Q22 SCFS standards, Qatar Civil Defence (QCD) Fire & Life Safety Guidelines – 2015, and NFPA 101 – Life Safety Code (2015 Edition).

THE FLS STRATEGY WAS DEVELOPED IN ACCORDANCE WITH THE Q22 SCFS STANDARDS, QATAR CIVIL DEFENCE (QCD) FIRE & LIFE SAFETY GUIDELINES





HAZZA BIN ZAYED STADIUM

AL AIN, UAE

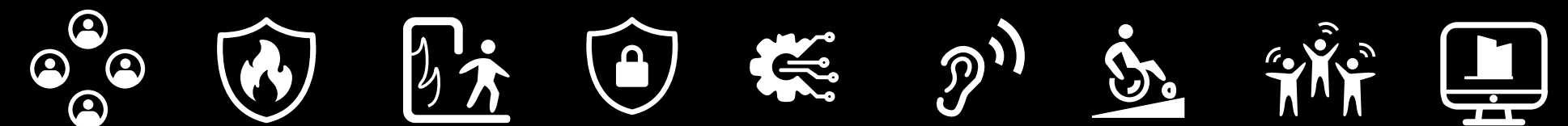
Completed in 2014, the Hazza Bin Zayed Stadium serves as the home ground for Al Ain Football Club and has a seating capacity of over 25,000 spectators. The stadium is a world-class, multi-purpose venue renowned for its cutting-edge design and state-of-the-art facilities.

Design Confidence's expertise in engineering and advisory services played

a significant role in optimizing the venue's design, ensuring it met the highest standards of safety, comfort, and functionality.

This project showcases the team's ability to deliver innovative solutions for some of the most iconic and technically demanding venues globally, further solidifying its position as a top-tier consultant in the stadium sector.

DESIGN CONFIDENCE'S EXPERTISE
IN ENGINEERING AND ADVISORY
SERVICES





DESIGN CONFIDENCE
ENSURED A SAFER, MORE
RESILIENT VENUE FOR
SPECTATORS RESILIENT
VENUE

ZAYED SPORTS CITY STADIUM

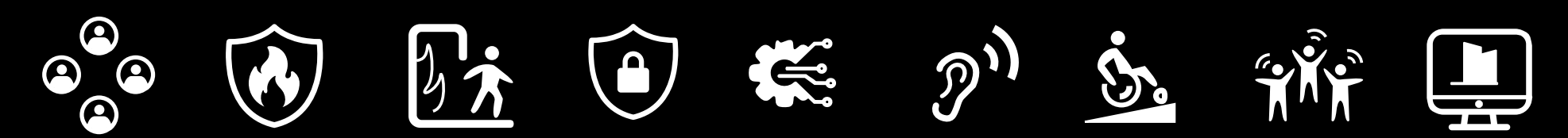
ABU DHABI, UAE

Zayed Sports City Stadium is the UAE's largest multi-purpose stadium, accommodating over 40,000 spectators and hosting major international sporting and entertainment events since its opening in 1980. Ongoing upgrades have ensured it meets modern global standards for safety, accessibility, and performance.

Design Confidence supported these

enhancements by strengthening the stadium's fire and life safety systems.

Through detailed assessments, advanced fire and smoke modelling, evacuation and crowd analysis, and risk assessments, the team helped deliver a safer, more resilient venue, reinforcing the stadium's status as a world-class destination for large-scale events.





PRINCE MOHAMMED BIN SALMAN STADIUM

SAUDI ARABIA

CLOSELY COORDINATED WITH
THE BUILDING'S ARCHITECTURE
AND OPERATIONAL REQUIREMENTS

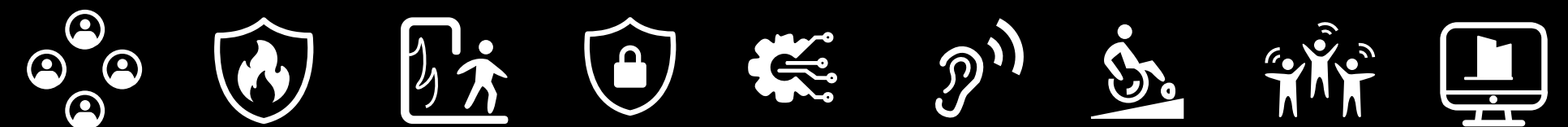
Perched above Qiddiya City on the 200 metre high Tuwaiq cliff, this 45,000 seat multifunctional stadium is a next generation, technology-driven venue designed for immersive sports and entertainment experiences. It will be the world's first stadium to combine a retractable roof, pitch, and LED wall, allowing rapid transformation between football, boxing, esports, concerts, and live events.

Fully FIFA-compliant, the stadium is planned as the home ground for Al-Hilal and Al-Nassr, and is proposed for major global tournaments, including the FIFA World Cup 2034. Integrated into a wider entertainment district, it offers seamless access to gaming, re-

tail, hospitality, hotels, and transport infrastructure.

With sustainability embedded through climate-controlled design and an eco-cooling lake system, and an estimated 7.6 million annual visitors, the stadium is positioned as a future-focus anchor for Saudi Arabia's global sports and entertainment ambitions.

Our work includes detailed fire and life safety design, risk assessments and evacuation planning, closely coordinated with the building's architecture and operational requirements to deliver a venue that is both safe and fully functional.





**WE UNDERTAKE
COMPREHENSIVE FIRE
AND LIFE SAFETY, FIRE
RISK ASSESSMENTS AND
EVACUATION PLANNING**

KING SALMAN STADIUM

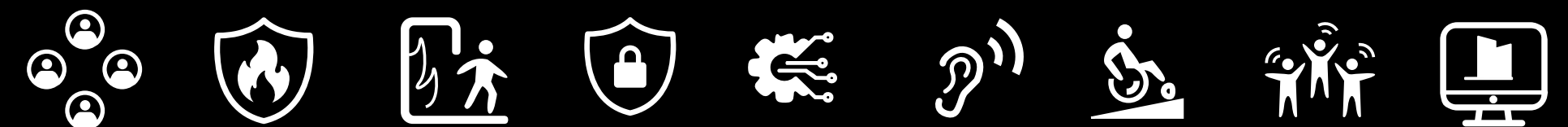
SAUDI ARABIA

Scheduled for completion in 2029, the King Salman Stadium Master plan will deliver a 92,000+ seat national stadium and integrated sports precinct in northern Riyadh, serving as the home of the Saudi Arabia national football team and a venue for major international events.

Located adjacent to King Abdulaziz Park, the master plan combines elite and community sports facilities, commercial uses, and landscaped public spaces within a flexible, year-round destination. The design draws inspiration from Saudi Arabia's natural landscape, symbolising long-term investment in sports parti-

cipation from grassroots to elite levels. The development prioritises inclusive access, operational flexibility, and sustainable integration with the surrounding parkland, creating a high-performance, future-ready sports and events hub aligned with the Kingdom's national ambitions.

We undertake comprehensive fire and life safety, fire risk assessments and evacuation planning, integrating safety measures with architectural intent and operational needs to support a safe, efficient, and high-performing venue.



KEY PROJECTS

CULTURE

We have pioneered engineering and design solutions for some of the world's most renowned and successful entertainment destinations, ranging from major theme parks to distinctive experiential attractions.

PROJECT TYPES

- Museums



UNITED KINGDOM PAVILION
DUBAI, UAE.



UAE PAVILION EXPO 2020
DUBAI, UAE.



ABRAHAMIC FAMILY HOUSE
ABU DHABI, UAE



THE MUSEUM OF THE FUTURE
DUBAI, UAE.



DESIGN CONFIDENCE PLAYED A PIVOTAL ROLE IN ENSURING THE SAFETY AND SUSTAINABILITY OF THE PROJECT

ABRAHAMIC FAMILY HOUSE

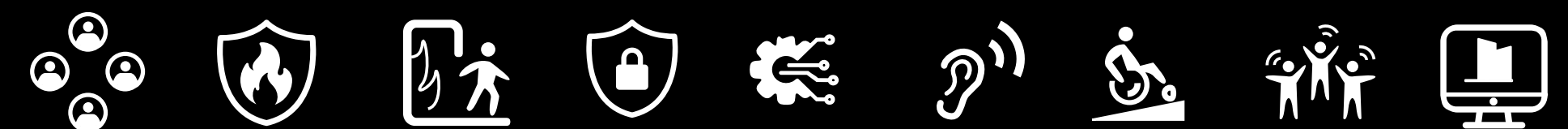
ABU DHABI, UAE

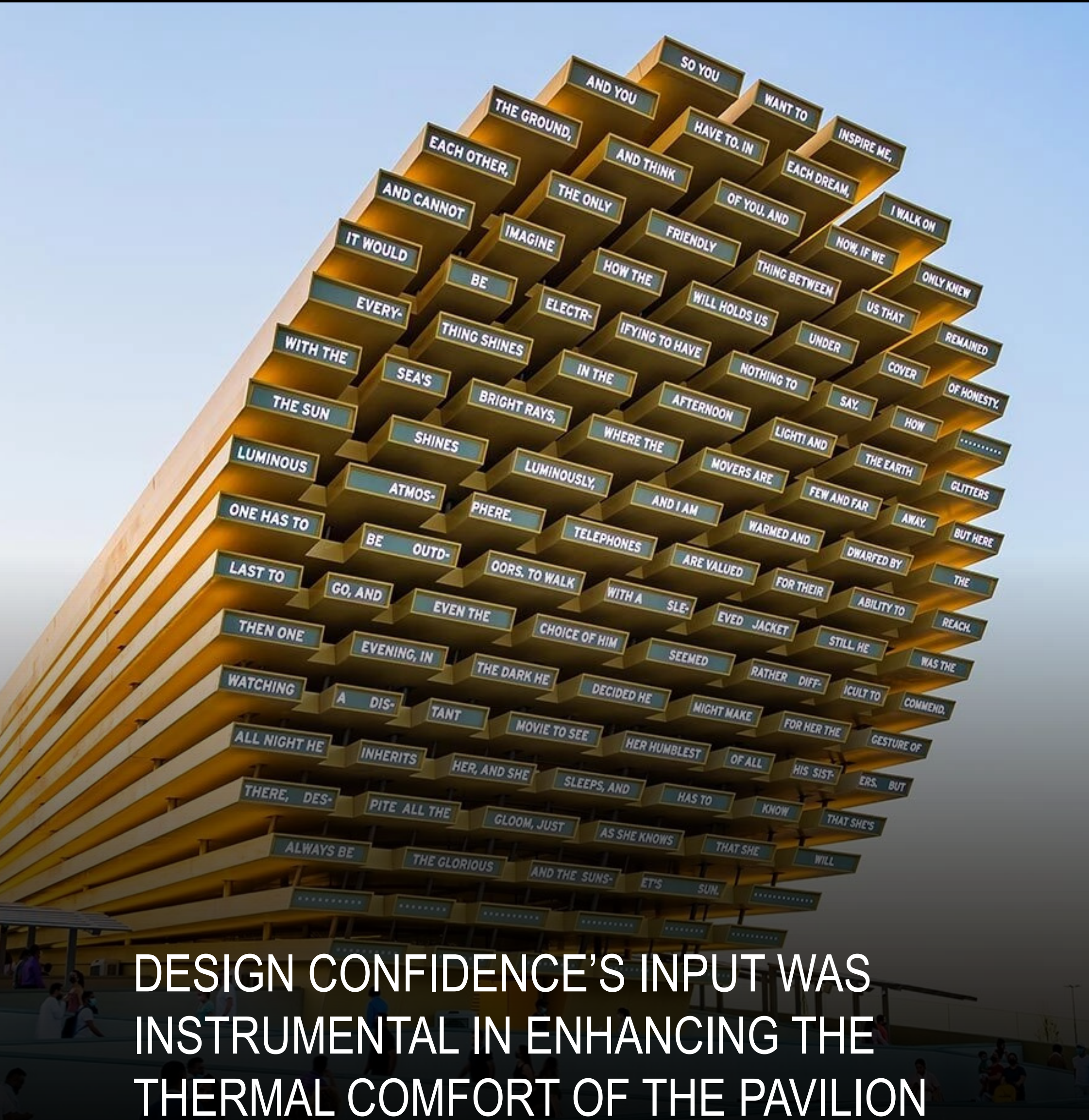
The Abrahamic Family House is a landmark interfaith complex located on Saadiyat Island in Abu Dhabi, United Arab Emirates. This unique and visionary development is designed to promote mutual understanding, respect, and dialogue among the world's major religions. The complex features three main structures: a mosque, a church, and a synagogue, symbolizing unity among the Abrahamic faiths.

Design Confidence played a pivotal role in ensuring the safety and sustainability

of the project by providing expert engineering and advisory services. The consultancy was responsible for conducting thorough fire and life safety reviews, ensuring that the complex adhered to the highest standards of safety while maintaining the aesthetic integrity of its architectural design.

Its input was crucial in enhancing the performance and resilience of the structures, contributing to the project's overall success as a beacon of interfaith unity and architectural excellence.





UNITED KINGDOM PAVILION

DUBAI, UAE

The United Kingdom Pavilion at Expo2020 Dubai was a striking and innovative showcase of British creativity, engineering, and sustainability. With its theme of “Innovating for a Shared Future” the pavilion embodied the UK’s commitment to global collaboration, technology, and environmental responsibility.

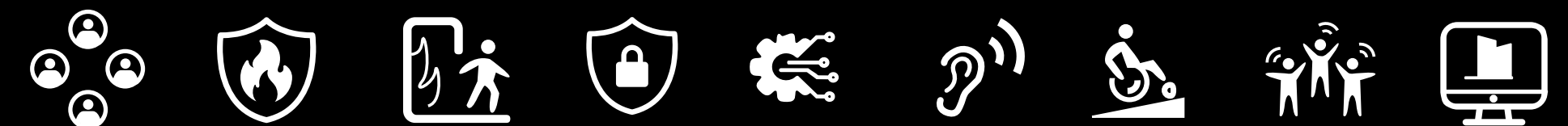
Design Confidence played a crucial role in ensuring the safety, efficiency, and comfort of the pavilion’s occupants and visitors. The company provided expert engineering and advisory services that included a comprehensive review and analysis of the fire and life safety

systems. This involved meticulous planning to meet the high safety standards required for such a high-profile project, while also incorporating cutting-edge technology and design elements.

In addition, Design Confidence’s input was instrumental in enhancing the thermal comfort of the pavilion.

The engineering solutions provided addressed the unique climate conditions of Dubai, ensuring that the pavilion maintained optimal environmental conditions for both staff and visitors.

DESIGN CONFIDENCE’S INPUT WAS INSTRUMENTAL IN ENHANCING THE THERMAL COMFORT OF THE PAVILION



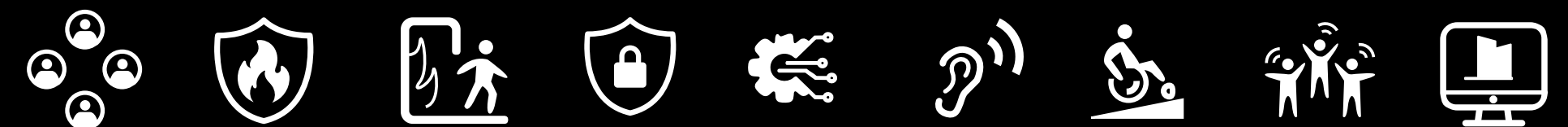
UAE PAVILION EXPO 2020

DUBAI, UAE

DESIGN CONFIDENCE'S
ENGINEERING AND ADVISORY
EXPERTISE PLAYED A CRITICAL
ROLE IN ENSURING THE SUCCESS
OF THE PROJECT, PARTICULARLY
IN THE AREAS OF FIRE AND LIFE
SAFETY SYSTEMS

The United Arab Emirates Pavilion at Expo2020 in Dubai is a striking architectural marvel designed to reflect the UAE's vision for the future, embodying innovation, sustainability, and progress. The pavilion serves as a dynamic space for visitors to explore the nation's rich heritage while engaging with cutting-edge technology and forward-thinking solutions. Its design, characterized by flowing forms and futuristic aesthetics, stands as a testament to the UAE's role as a global leader in technology, culture, and sustainable development.

Design Confidence's engineering and advisory expertise played a critical role in ensuring the success of the project, particularly in the areas of fire and life safety systems. The firm's in-depth knowledge and extensive experience in designing complex systems for large-scale, high-profile projects like the UAE Pavilion were pivotal in navigating the unique challenges posed by its innovative structure.





THE MUSEUM OF FUTURE

DUBAI, UAE

Arabic calligraphy that adorns its facade. Developed by the Dubai Future Foundation and inaugurated in 2022, the museum serves as a global hub for innovation, showcasing cutting-edge technology and visionary concepts that explore the future of science, artificial intelligence, robotics, and space exploration.

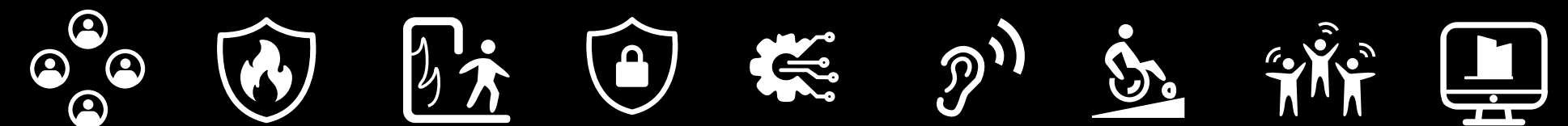
Design Confidence played a crucial role in the project by providing expert engineering and advisory services, particularly in the areas of fire and life safety. Given the museum's unconventional structure and extensive use of composite materials, meticulous

planning and rigorous safety analysis were essential.

Design Confidence conducted comprehensive fire and smoke modelling to assess evacuation strategies.

The team also advised on staircase pressurization systems and fire suppression measures, ensuring that the museum's design remained both aesthetically impressive and structurally sound without compromising visitor safety.

DESIGN CONFIDENCE PLAYED A CRUCIAL ROLE IN THE PROJECT BY PROVIDING EXPERT ENGINEERING IN FIRE AND SAFTY.



KEY PROJECTS

ENTERTAINMENT

We have pioneered engineering and design solutions for some of the world's most renowned and successful entertainment destinations, ranging from major theme parks to distinctive experiential attractions.

PROJECT TYPES

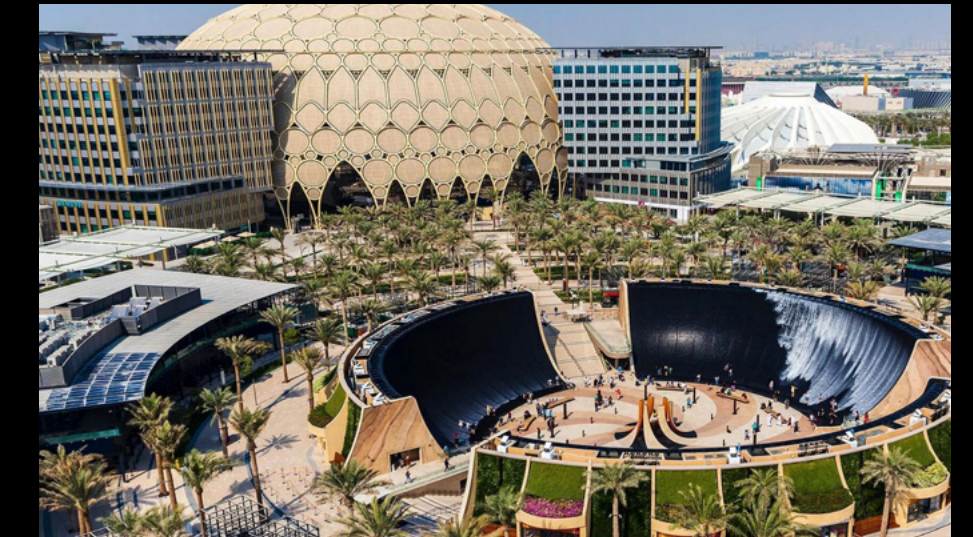
- Themed Entertainment
- Performing Arts Centre
- Shopping Centres (FECs)
- Aquariums
- Museums



THE QIDDIYA PERFORMING ARTS CENTER, SAUDI ARABIA



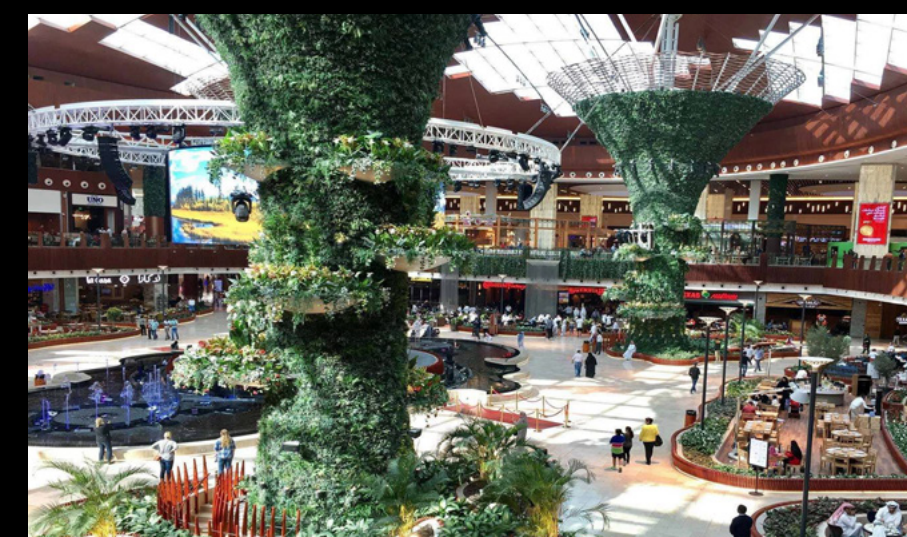
SEAWORLD ABU DHABI, UAE



AL WASL PLAZA EXPO 2020 DUBAI, UAE.



AIN DUBAI DUBAI, UAE.



MALL OF QATAR DOHA, QATAR



FERRARI WORLD ABU DHABI, UAE



FERRARI WORLD

ABU DHABI, UAE

Ferrari World Abu Dhabi, an iconic theme park located on Yas Island, is renowned as the world's largest indoor amusement park. It features thrilling rides, entertainment, and attractions inspired by the Ferrari brand, making it a global destination for enthusiasts and families alike. The park is particularly notable for housing the world's fastest roller coaster, Formula Rossa, which reaches speeds of up to 240 km/h.

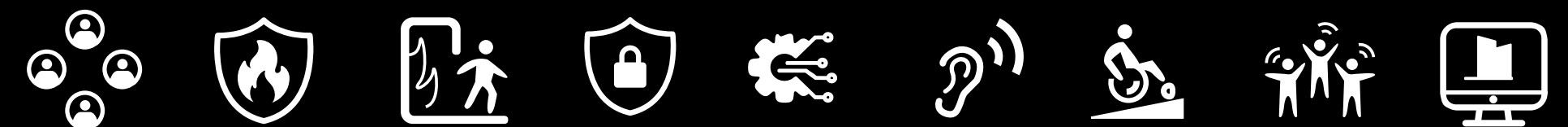
Design Confidence played a pivotal role in ensuring the park's fire and life safety systems met the highest standards, in alignment with both local and international regulations. The company's expert engineering and

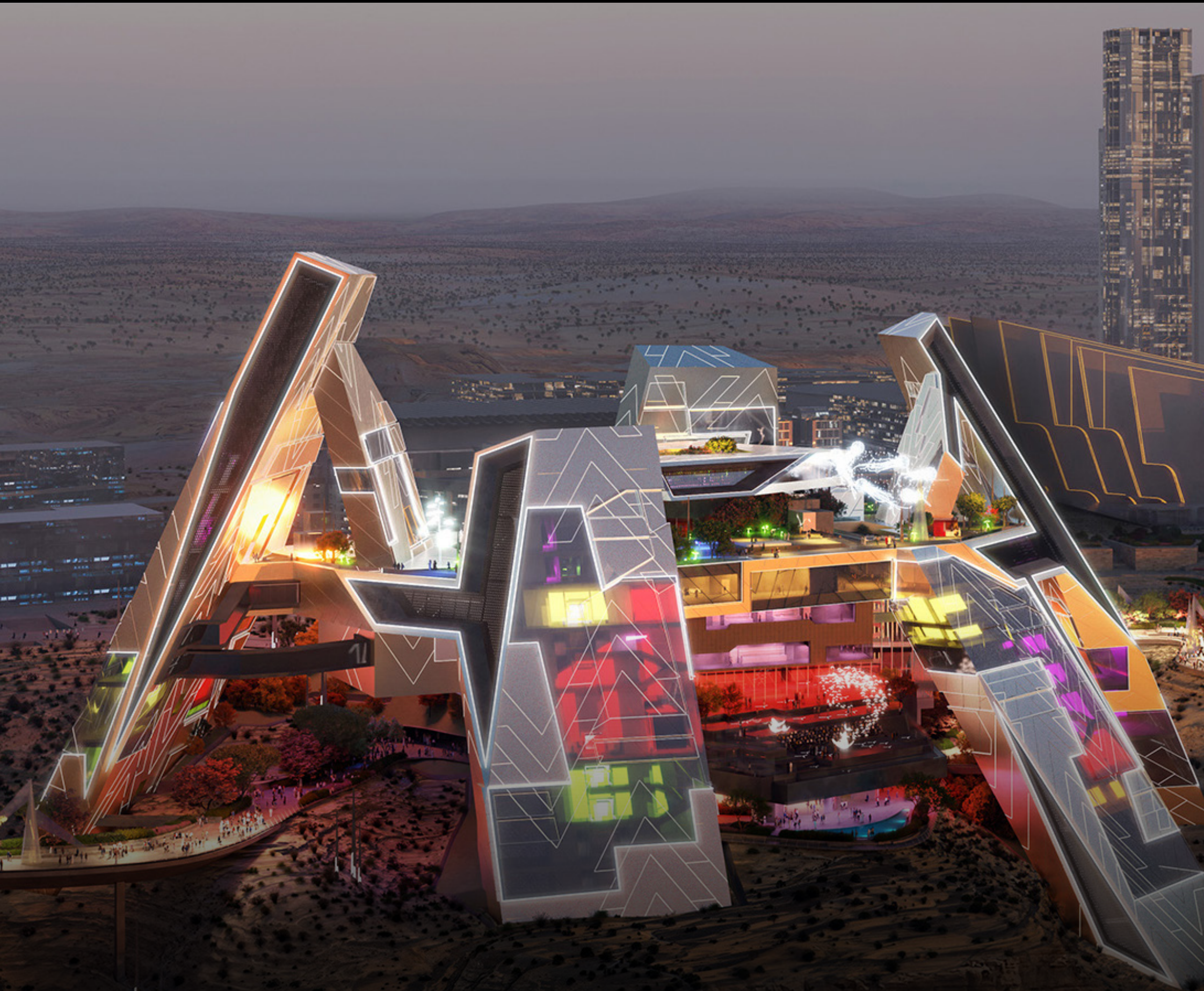
advisory services were integral to the peer review of the park's fire safety strategy. This comprehensive review focused on both risk assessment and mitigation, addressing the complex safety demands of a large indoor facility with high-energy attractions.

In addition, Design Confidence provided key guidance on ventilation, smoke control, and emergency evacuation planning, enhancing the overall safety and comfort of park visitors.

Its involvement helped ensure that Ferrari World's global reputation was supported by a solid foundation of engineering excellence and safety.

OUR WORK INCLUDES
DETAILED FIRE RISK
ASSESSMENTS AND
EVACUATION PLANNING





QIDDIYA PERFORMING ARTS CENTRE SAUDI ARABIA

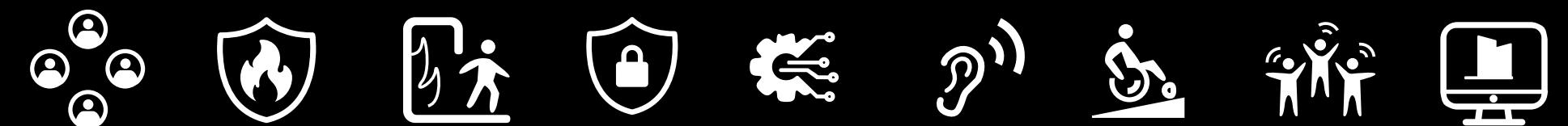
The Qiddiya Performing Arts Centre is a landmark cultural venue in Saudi Arabia, designed to accommodate a wide range of performances and events. As part of an entertainment city poised to become a global destination, the centre demands a strong focus on safety.

Design Confidence is delivering a range of fire engineering services, including fire detection, suppression, alarms, and system integration, tailored to the building's complexity and audience capacity. We are also

providing advisory services to ensure compliance with local and international regulations.

Our work includes detailed fire risk assessments and evacuation planning. We coordinate safety features with the building's architecture and operational needs, helping create a venue that is both safe and functional.

OUR WORK INCLUDES
DETAILED FIRE RISK
ASSESSMENTS AND
EVACUATION PLANNING





AL WASL PLAZA EXPO2020

DUBAI, UAE

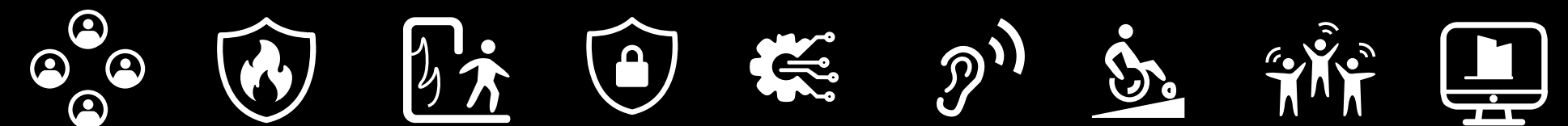
Al Wasl Plaza, situated at the heart of Expo 2020 Dubai, is a central gathering point that serves as a cultural hub for exchange, entertainment, and interactive experiences.

Design Confidence conducted extensive fire safety modelling to guarantee the efficient evacuation of visitors in the event of an emergency. The design of the plaza incorporated critical safety elements such as fire exits, fire alarms, sprinkler systems, and smoke control systems, all of which were assessed to create a secure environment. Emergency access and

egress planning were also key, with detailed analysis of evacuation routes ensuring that first responders could quickly access all areas and visitors could exit safely during an emergency. Additionally, evacuation modelling was used to simulate pedestrian flow and crowd management.

When it came to accessibility, Design Confidence ensured that the plaza included the creation of wide pathways, ramps, accessible seating, and clear signage to accommodate individuals with mobility challenges.

THE DESIGN OF THE PLAZA
INCORPORATED CRITICAL
SAFETY ELEMENTS AND





**DESIGN CONFIDENCE
WAS RESPONSIBLE FOR
A COMPREHENSIVE PEER
REVIEW OF ITS FIRE AND
LIFE SAFETY SYSTEMS.**

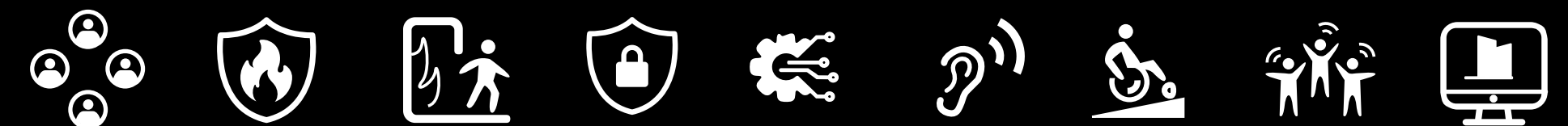
I AIN DUBAI

DUBAI, UAE

Ain Dubai, an architectural marvel and a testament to Dubai's ambition and innovation, stands as one of the city's most iconic projects. This extraordinary Ferris wheel rises majestically on Bluewaters Island, offering unparalleled panoramic views of the city's skyline, coastline, and landmarks such as the Burj Al Arab, Palm Jumeirah, and Burj Khalifa. At a towering height of 250 meters, it is recognized as the world's largest and tallest observation wheel.

As part of the project's development, Design Confidence was responsible

for a comprehensive peer review of its fire and life safety systems. This involved ensuring the safety measures met the highest standards, seamlessly integrating with the unique design and engineering requirements of the colossal observation wheel. The team provided critical insights and recommendations to optimize safety features, ultimately contributing to the project's success and its place as a major landmark in Dubai's skyline.





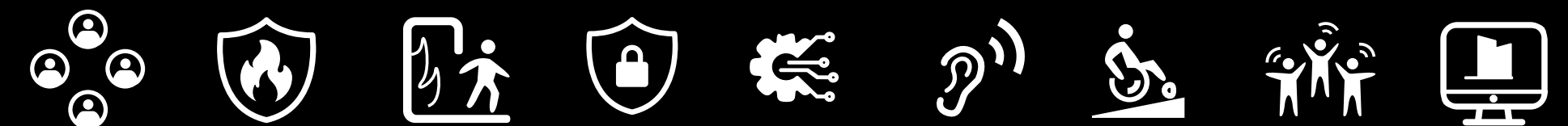
MALL OF QATAR

DOHA, QATAR

The Mall of Qatar is a premier shopping and entertainment destination located in Doha, Qatar, and is one of the largest and most luxurious malls in the region. It features a vast array of retail outlets, dining options, a state-of-the-art cinema, an indoor amusement park, and a dedicated space for entertainment events, making it a central hub for both locals and tourists alike. The mall's design incorporates modern architectural elements and cutting-edge technology, ensuring an exceptional experience for visitors.

Design Confidence played a crucial role in this iconic project by providing expert engineering and advisory services, particularly in the areas of fire and life safety. The company's team worked closely with the project stakeholders to ensure that the mall's safety systems were not only compliant with the stringent local and international regulations but also aligned with best practices for large-scale developments of this nature.

EXPERT ENGINEERING
AND ADVISORY SERVICES,
PARTICULARLY IN THE AREAS
OF FIRE AND LIFE SAFETY





| SEAWORLD

ABU DHABI, UAE

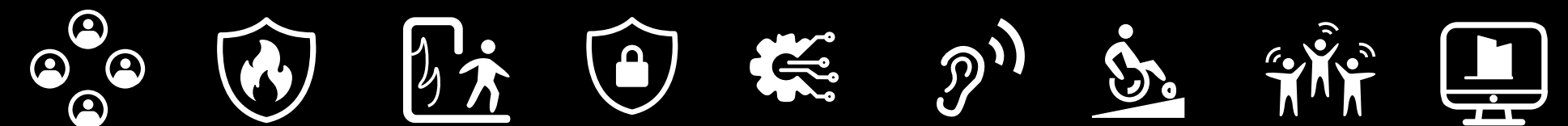
Design Confidence provided crucial engineering and advisory services in the development of SeaWorld, a renowned marine theme park that combines thrilling attractions with a commitment to animal conservation and education. As a leading provider of engineering expertise, Design Confidence was tasked with ensuring the highest standards of safety and environmental sustainability were upheld throughout the design and construction phases of the park.

The involvement of the Design Con-

fidence spanned several key areas, including fire and life safety systems, thermal comfort, and pedestrian movement analysis, all tailored to enhance the guest experience while maintaining the strictest regulatory compliance.

Through meticulous planning and design, Design Confidence's engineers worked closely with the project's stakeholders to deliver solutions that not only ensured the park's infrastructure met the highest safety standards but also supported its long-term operational efficiency.

DELIVER SOLUTIONS THAT NOT ONLY ENSURED THE PARK'S INFRASTRUCTURE MET THE HIGHEST SAFETY STANDARDS BUT ALSO SUPPORTED ITS LONG-TERM OPERATIONAL EFFICIENCY.





COMPREHENSIVE FIRE & LIFE SAFETY AND SPECIALIST FIRE ENGINEERING SERVICES

MASDAR HQ

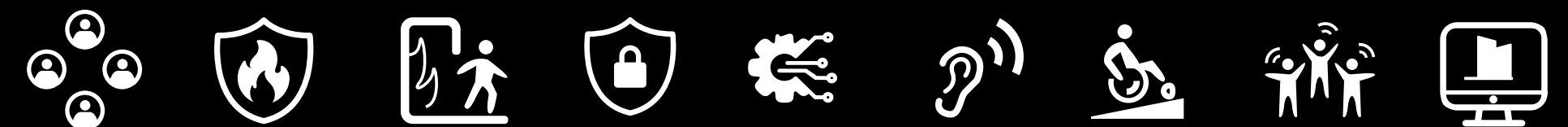
ABU DHABI, UAE

Design Confidence provided comprehensive Fire & Life Safety and Specialist Fire Engineering services for the Masdar Headquarters in Abu Dhabi, a flagship development within Masdar City's vision for low-carbon, future-ready workplaces.

Our scope included advanced fire and smoke modelling, evacuation analysis, system optimisation, and the development of a performance-based fire strategy tailored to the building's

unique architectural and sustainability objectives. Working closely with designers and stakeholders, we ensured that fire safety measures were seamlessly integrated without compromising environmental efficiency or spatial functionality.

The result is a headquarters that demonstrates how high-performance engineering can support both safety and sustainability in one of the world's leading eco-urban districts.





QASR AL HOSN HERITAGE

ABU DHABI, UAE

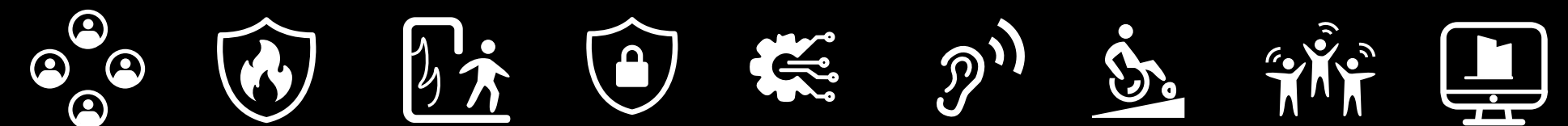
Qasr al Hosn Heritage Museum, located in Abu Dhabi, UAE, is a prominent cultural landmark that combines history, architecture, and modernity. The museum is housed in the city's oldest stone building, the Qasr al Hosn Fort, which has served as a symbol of the UAE's cultural and political heritage.

The project aimed to transform the fort into a dynamic cultural hub that showcases the country's rich history while providing an immersive experience for visitors. Design Confidence played a critical role in the project by

providing expert engineering and advisory services, particularly in the areas of fire and life safety engineering. Their team was instrumental in ensuring that the museum met the highest standards of safety and efficiency while maintaining the integrity of the historic structure.

Through comprehensive fire safety modelling, including smoke and fire spread analysis, they delivered key solutions that balanced the preservation of the building's historical features with the need for modern safety standards.

DELIVERED KEY SOLUTIONS THAT
BALANCED THE PRESERVATION
OF THE BUILDING'S HISTORICAL
FEATURES WITH THE NEED FOR
MODERN SAFETY STANDARDS.





**DESIGN CONFIDENCE'S
TAILORED APPROACH
HELPED DELIVER A SAFE
AND COMFORTABLE
ENVIRONMENT.**

NOVO CINEMA

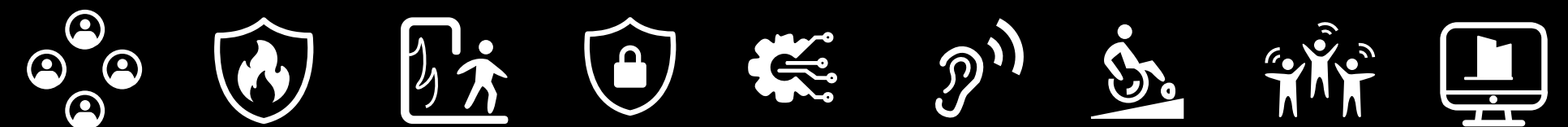
DOHA, QATAR

Design Confidence's expert engineering and advisory services played a pivotal role in the success of the Novo Cinema project, an innovative and high-profile cinema complex located in the heart of Qatar. As one of the leading cinema chains in the region, Novo Cinema aimed to create an immersive and high-tech experience for its customers, combining entertainment with cutting-edge architectural design.

Design Confidence was brought on board to provide specialist fire and life safety engineering consultancy, ensuring that all safety systems

adhered to the highest international standards and best practices. The team carried out a thorough review of the cinema's fire safety design, including fire detection, suppression systems, and evacuation strategies, guaranteeing that the safety of cinema-goers would never be compromised.

In addition, the advisory services extended to thermal comfort modelling and pedestrian comfort analysis, ensuring that the indoor environment of the cinema provided a pleasant and safe experience for all patrons.





ZABEEL MALL

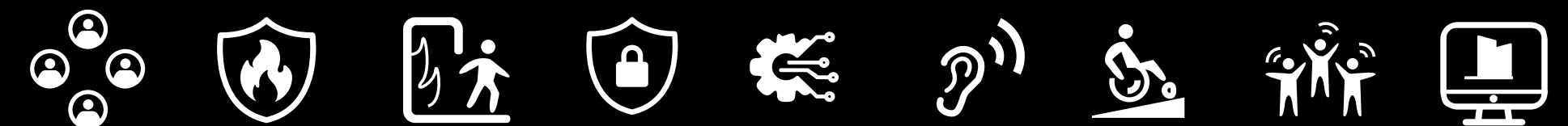
DUBAI, UAE

Zabeel Mall, located in the heart of Dubai, is a landmark shopping destination that blends contemporary design with advanced technology. Spanning several floors, the mall offers a dynamic retail experience with a wide range of shops, restaurants, entertainment options, and leisure facilities. It is strategically situated in a prime location, offering stunning views of the city and providing easy access to other key landmarks.

Design Confidence's input was crucial in optimizing the design of fire protection, evacuation strategies, and emergency

response plans, ensuring compliance with the highest international safety standards. The team also provided valuable insights into the thermal comfort and environmental performance of the building, contributing to the mall's overall energy efficiency. Design Confidence's tailored approach helped deliver a safe and comfortable environment for visitors while enhancing the mall's long-term sustainability.

DESIGN CONFIDENCE'S
TAILORED APPROACH
HELPED DELIVER A SAFE
AND COMFORTABLE
ENVIRONMENT.



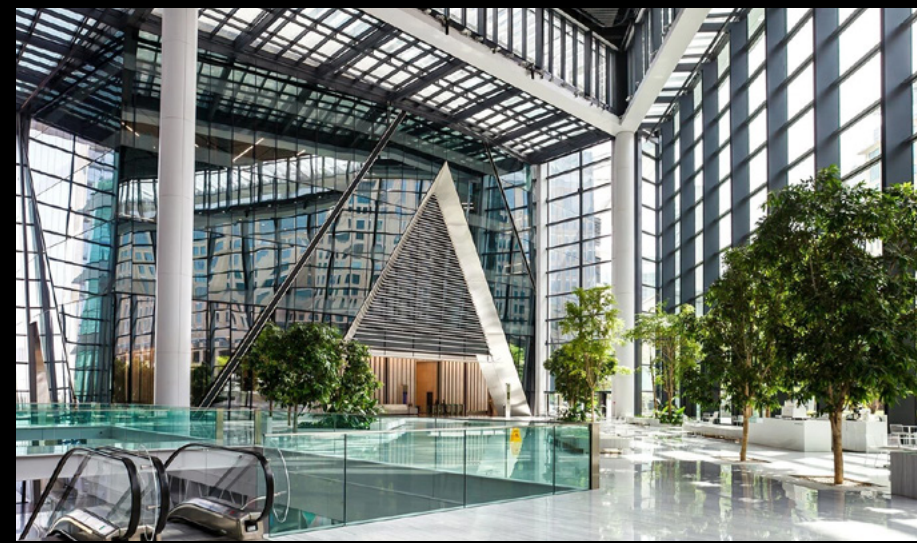
KEY PROJECTS

MIXED-USE DEVELOPMENT

We have pioneered engineering and design solutions for some of the world's most renowned and successful entertainment destinations, ranging from major theme parks to distinctive experiential attractions.

PROJECT TYPES

- Residential Environments
- Complex Coastal Master plan



ICD BROOKFIELD PLACE
DUBAI, UAE.



PALM JEBEL ALI VILLAS
DUBAI, UAE.



PORTO ISLAND
DUBAI, UAE.



DAMAC TOWERS BY PARAMOUNT
DUBAI, UAE.



THE RED SEA DEVELOPMENT HYPER
LUXURY RESORTS, RED SEA, SAUDI



MASAR DESTINATION IN
MASAR MAKKAH, SAUDI ARABIA



THE OPUS
DUBAI, UAE.



MAF GHAF WOODS PHASE 1A &
PHASE 1B, DUBAI, UAE



DIRIYAH GATE
DIRIYAH, SAUDI ARABIA



DIRIYAH GATE

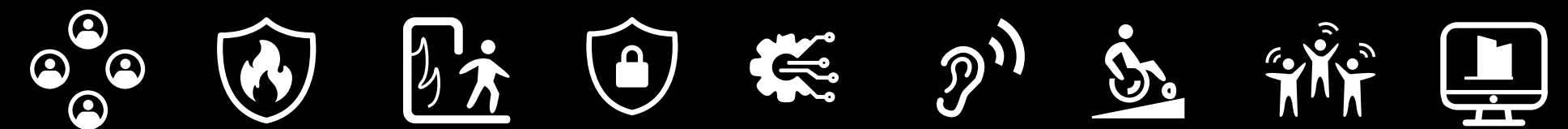
DIRIYAH, SAUDI ARABIA

The landscape and public realm for Diriyah Gate represent a complex and significant element of the wider Diriyah Vision. Rooted in the site's historic past, particularly At-Turaif, a UNESCO World Heritage Site, the project reflects a balance between cultural heritage and forward-looking development.

designed to achieve both LEED Neighborhood Development (LEED ND) Gold- and MOSTADAM for Communities Gold certifications. The project aspires to set a benchmark for sustainable, culturally authentic urban environments in Saudi Arabia.

Envisioned as a class-leading, sustainable masterplan, the development is

FIRE & LIFE SAFETY (FLS)
STRATEGY FOR THE PROJECT





FIRE & LIFE SAFETY (FLS) STRATEGY FOR THE PROJECT

MAF GHAF WOODS PHASE 1A & PHASE 1B

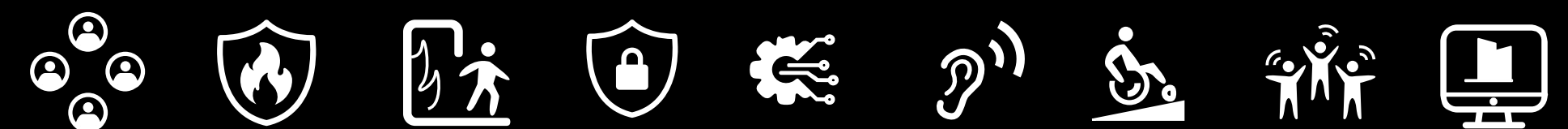
DUBAI, UAE

MAF GHAF Woods Phase 1A & 1B is a new residential community in Dubai. The development features themed open spaces designed with tactile, organic materials and a natural aesthetic.

GHAF Woods is envisioned as a luxury multifamily residential community centered around a central forest and community heart. The vision creates clusters of homes arranged around this green core, offering residents the feeling of living within a forest. The massing

and organization of the buildings aim to minimize the impact of roads and surrounding urban edges, ensuring the community blends with nature.

By reducing urban intrusion and maximizing natural integration, GHAF Woods offers a distinctive residential experience, an escape from the city within a sustainable, forest-inspired environment.





RESIDENTIAL DEVELOPMENT

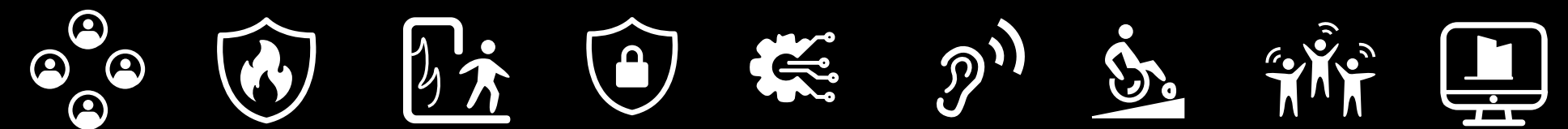
SAUDI ARABIA

This residential and hotel development forms part of the Masar Master Development in Makkah, comprising three mid-scale towers. The project is designed to complement the aspirations of the wider master plan, ensuring alignment with future planned developments while addressing the unique context of Masjid Al-Haram.

The development also responds to the needs of its diverse users, particularly pilgrims undertaking Hajj and Umrah.

Design Confidence was engaged to prepare the Fire & Life Safety (FLS) strategy for the project, in full compliance with the Saudi Building Code.

DESIGN CONFIDENCE WAS ENGAGED TO PREPARE THE FIRE & LIFE SAFETY (FLS) STRATEGY





PORTO ISLAND

DUBAI, UAE

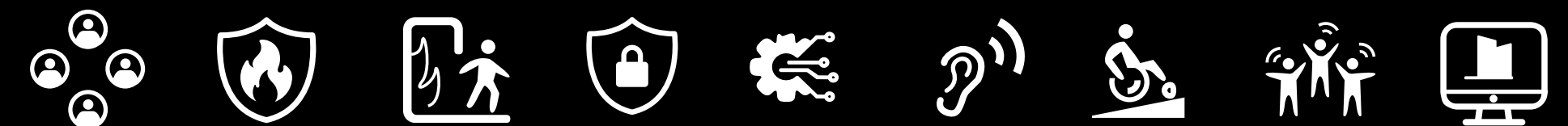
Porto Island is a landmark development located on a reclaimed land plot directly connected to Jumeirah Beach. Designed as a premier hospitality and leisure destination, the project features a diverse mix of luxury hotels, entertainment attractions, retail units, and F&B outlets, creating a vibrant 7 for residents and visitors alike.

Design Confidence was appointed by Brewer Smith Brewer Gulf (BSBG) to serve as the Fire & Life Safety Consultant for the entire development,

covering all stages from Concept Design through to Construction Documentation.

Our role ensures that this high-profile destination meets the highest standards of safety, compliance, and resilience, supporting its long-term success as one of Dubai's signature leisure and hospitality hubs.

FIRE & LIFE SAFETY CONSULTANT FOR THE ENTIRE DEVELOPMENT





**DESIGN CONFIDENCE
CONDUCTED HIGHEST
STANDARDS FOR SAFETY
AND ACCESSIBILITY**

ICD BROOKFIELD PLACE

DUBAI, UAE

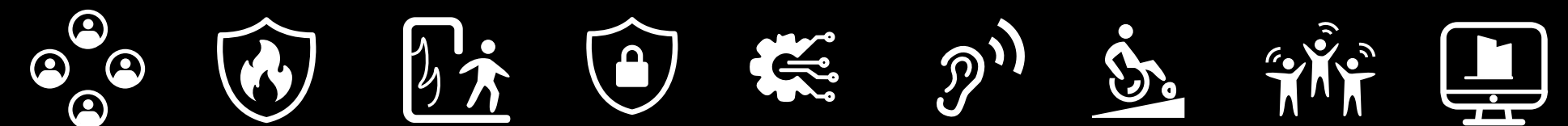
ICD Brookfield Place is a landmark mixed-use development located in the heart of Dubai International Financial Centre (DIFC). This world-class development consists of two stunning towers that integrate office spaces, retail outlets, and luxury residences, all set within an iconic architectural design.

The towers feature cutting-edge infrastructure and are designed to provide modern, sophisticated spaces for businesses, investors, and residents alike.

Design Confidence played a critical role in ensuring that ICD Brookfield

Place met the highest standards for safety and accessibility. Their expertise was integral in the development of the state-of-the-art fire detection, suppression and evacuation systems.

Design Confidence also contributed significantly to improving the building's accessibility, ensuring that all spaces, both public and private, were fully accessible to individuals with disabilities. This involved reviewing and advising on the design of pathways, elevators, ramps, and entrances to ensure they meet or exceed local accessibility standards.





SIGN CONFIDENCE ENSURES THAT THE RED SEA DEVELOPMENT MEETS WORLD-CLASS BENCHMARKS FOR GUEST SAFETY

THE RED SEA DEVELOPMENT HYPER LUXURY

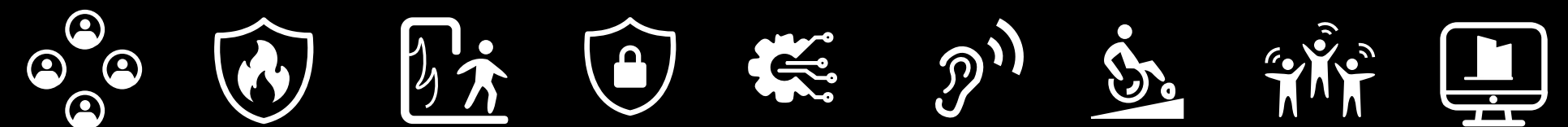
RED SEA, SAUDI ARABIA

Design Confidence was appointed as the Fire & Life Safety Consultant for the pre-contract design stages of The RedSea Development Hyper-Luxury Resorts, one of Saudi Arabia’s most ambitious luxury tourism destinations.

The consultancy scope covers the development of the FLS Strategy for nine (09) hyper-luxury resorts, which together form a cornerstone of the Red Sea Authority’s master plan. The resorts comprise a wide range of facilities including villas, guest accommodation,

restaurants, spas, pools, and staff housing, designed to deliver a seamless hospitality experience while adhering to the highest global safety standards.

By integrating international codes with local Saudi regulations, Design Confidence ensures that the Red Sea Development meets world-class benchmarks for guest safety, operational resilience, and sustainable growth.





DESIGN CONFIDENCE PROVIDE
 ESSENTIAL FIRE AND LIFE
 SAFETY SERVICES, ENSURING
 THE SAFETY OF OCCUPANTS AND
 VISITORS ACROSS THE TOWERS

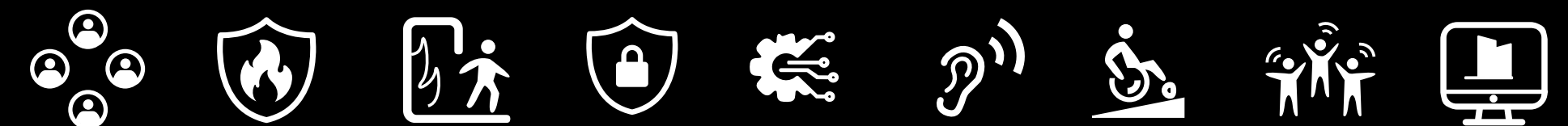
DAMAC TOWERS BY PARAMOUNT

DUBAI, UAE

Damac Towers by Paramount is a prestigious development located in the heart of Dubai, combining luxury living with world-renowned branding. The project consists of two towers, offering premium residences, entertainment spaces, and a hotel component.

The towers are designed to reflect the glamour and sophistication of the Paramount brand, creating an iconic landmark in the city. As a significant addition to Dubai's skyline, the development aims to offer an unparalleled experience in terms of both

luxury and safety. Design Confidence was appointed to provide essential fire and life safety services, ensuring the safety of occupants and visitors across the towers. Their role in this project was centred around fire engineering and specialized advisory services. As part of their commitment to delivering a world-class solution, they carried out comprehensive risk assessments, fire safety designs, and regulatory compliance checks, all tailored to the unique needs of the development.





DESIGN CONFIDENCE ADVISORY INPUT WAS INSTRUMENTAL IN REFINING A SAFE, RESILIENT, AND OPERATIONALLY EFFICIENT ENVIRONMENT

THE OPUS

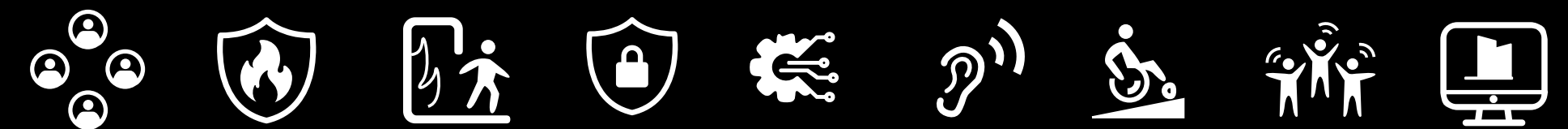
DUBAI, UAE

The Opus, a striking architectural masterpiece in the heart of Dubai's Business Bay, is a testament to visionary design and engineering excellence. Designed by the late Zaha Hadid, this mixed-use development is distinguished by its fluid, organic form, with a central void that creates the illusion of a structure carved from a single volume.

Design Confidence conducted a rigorous fire and life safety analysis, incorporating advanced modelling techniques to predict fire behavior and smoke movement within the structure. Their expertise helped

optimize evacuation strategies, ensuring the seamless integration of life safety measures without compromising the architectural intent.

Its advisory input was instrumental in refining system designs, from fire suppression to emergency egress planning, contributing to a safe, resilient, and operationally efficient environment for occupants.





RESIDENTS BENEFIT FROM A SAFE, RESILIENT, AND CODE-COMPLIANT ENVIRONMENT THAT SEAMLESSLY SUPPORTS THE LIFESTYLE VISION OF PALM JEBEL ALI OCCUPANTS

PALM JEBEL ALI VILLAS

DUBAI, UAE

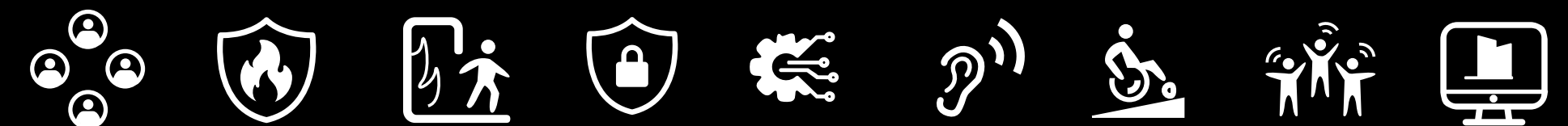
Design Confidence supported the Palm Jebel Ali Villas development with an integrated Fire & Life Safety strategy designed specifically for high-end residential environments within a complex coastal masterplan.

Our team evaluated building layouts, material palettes and community-scale circulation patterns to ensure safe evacuation, robust compartmentation, and system performance suited to luxury villas distributed across the island.

Working closely with designers and

regulatory authorities, we developed tailored fire strategies that address the project's unique coastal conditions, interconnected public realm, and pre-mium architectural typologies.

Our approach ensures that residents benefit from a safe, resilient, and code-compliant environment that seamlessly supports the lifestyle vision of Palm Jebel Ali.





FROM THE NATURAL COASTLINE TO PROVIDE SAFE AND CALM WATERS FOR DOCKING, WITH DIRECT ACCESS TO THE DEVELOPMENT'S LEISURE AND HOSPITALITY ZONES

THE HIJAZ YACHT CLUB

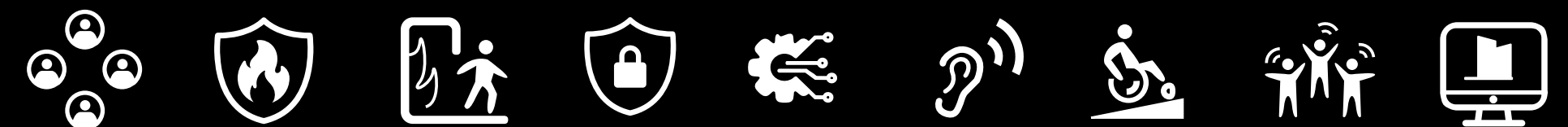
RED SEA, SAUDI ARABIA

The Hijaz Yacht Club will be a signature landmark within Triple Bay, Amaala, one of the Kingdom of Saudi Arabia's most ambitious luxury coastal destinations. Set along the Red Sea, the Marina Basin will be carved from the natural coastline to provide safe and calm waters for docking, with direct access to the development's leisure and hospitality zones.

The Yacht Club is envisioned as a premier restaurant and leisure destination, comprising four floors and a basement level, and strategically positioned across three naturally formed coves and bay areas. Design Confidence was appointed to

provide the Fire & Life Safety (FLS) Strategy for the project, ensuring compliance with both Saudi Building Code, General (SBC-201) 2018 Edition and Saudi Fire Code – General (SBC-801) 2018 Edition, as well as NFPA Standards.

Through our expertise, we are ensuring that this iconic development upholds the highest levels of safety, resilience, and regulatory compliance, supporting Amaala's vision of world-class luxury destinations.





PENDRY HOTEL

DIRIYAH, SAUDI ARABIA

The Pendry Hotel is located on the Central Boulevard within the Diriyah II Masterplan, enjoying a prime site facing Hero's Park with panoramic views extending across Diriyah and towards the historic At-Turaif district. Its strategic position places it in close proximity to key cultural landmarks, including the Arena and Opera House.

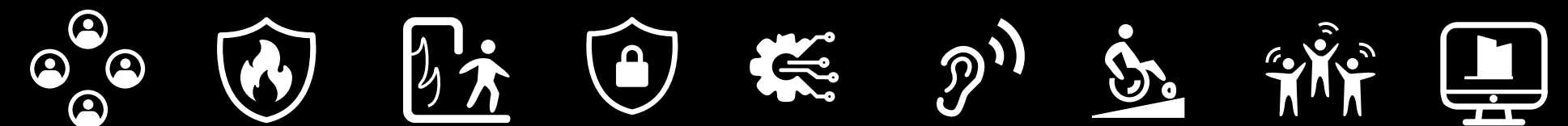
The hotel's regular site shape allows for an efficient and functional layout, designed to maximize boulevard footfall and benefit from its location near a major northern road connector.

Design Confidence provided Fire and

Life Safety expertise, ensuring that the project complies with international standards and local codes.

Requirements were aligned with SBC 201, SBC 801, NFPA 101 Life Safety Code, and NFPA 5000 Building Construction and Safety Code, guaranteeing the highest levels of safety for guests and staff.

DESIGN CONFIDENCE PROVIDED
FIRE AND LIFE SAFETY EXPERTISE



KEY PROJECTS

HOSPITALITY

We support hospitality developments with engineering solutions that prioritise safety, comfort, accessibility, and seamless guest movement, ensuring environments perform under peak demand without compromising experience.

PROJECT TYPES

- Hotels
- Resorts



AMAALA TRIPLE BAY HIJAZ YACHT CLUB
QIDDIYA, SAUDI ARABIA



PORTO ISLAND
DUBAI, UAE



THE RED SEA DEVELOPMENT HYPER LUXURY
RESORTS, RED SEA, SAUDI ARABIA



PENDRY HOTEL
DIRIYAH, SAUDI ARABIA

KEY PRODUCT

| HEALTHCARE

We deliver engineering and design solutions for complex medical environments, supporting safe, resilient, and high-performing healthcare facilities that operate reliably under critical demand.

| PROJECT TYPES

- Hospital





CLEVELAND CLINIC

ABU DHABI, UAE

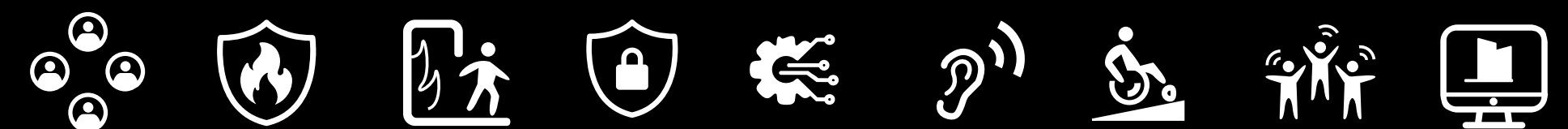
The Cleveland Clinic, one of the world's leading healthcare systems, has placed a strong emphasis on providing safe, accessible, and efficient healthcare environments for its patients, staff, and visitors. In collaboration with Design Confidence, the goal was to enhance the facility's resilience to emergencies and ensure that all individuals, regardless of ability, can access healthcare services with ease.

Design Confidence, with its deep experience in the healthcare sector, provided a comprehensive fire strategy

that aligns with local and international standards. This includes conducting fire risk assessments, developing fire modelling techniques, and designing optimal evacuation routes that consider the needs of both patients and staff.

Additionally, Design Confidence offered specialized accessibility consulting to ensure that Cleveland Clinic's facilities meet or exceed accessibility standards such as the Americans with Disabilities Act (ADA) and other international requirements.

COMPREHENSIVE
FIRE STRATEGY THAT
ALIGNS WITH LOCAL
AND INTERNATIONAL
STANDARDS AND
SPECIALIZED



KEY PROJECTS

| EDUCATION

We deliver engineering and design solutions for education environments, creating safe, inclusive, and high-performing spaces that support learning, well-being, and long-term adaptability.

| PROJECT TYPES

- Schools
- Higher-education campuses





MISK SCHOOLS

RIYADH, SAUDI ARABIA

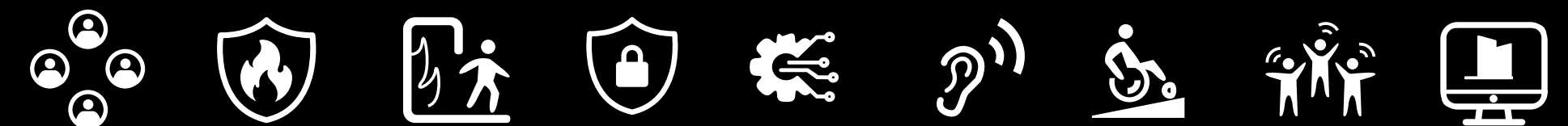
Design Confidence was responsible for the Fire and Life Safety and Accessibility and Inclusivity design of this major multi-sport and cultural destination, ensuring safe, compliant, and inclusive environments for athletes, spectators, and staff.

The development comprises three professional standard auditoriums, including a principal venue accommodating up to 850 seats, alongside an exhibition gallery designed for cultural showcases and public events. The wider facility supports 29 Summer Olympic sports as well as e-Sports, providing a highly diverse and operationally complex environment.

Sports infrastructure includes 25m and 50m Olympic swimming pools, a dedicated learn-to-swim pool, a multi-purpose sports hall with 12 courts, a specialist gymnastics hall, two FIFA-standard synthetic grass pitches, and two 400m Olympic athletics tracks. In addition, a range of indoor and outdoor spaces supports low-impact and community-focused activity.

Throughout the development, Design Confidence embedded inclusive design principles, safe egress strategies, and performance-based fire engineering to support high occupancy levels, intuitive circulation, and equitable access, within a landscaped setting enhanced by more than 1,000 trees.

**CONFIDENCE
EMBEDDED INCLUSIVE
DESIGN PRINCIPLES,
SAFE EGRESS
STRATEGIES, AND
PERFORMANCE-BASED
FIRE ENGINEERING**





**COMPREHENSIVE
RECOMMENDATIONS
FOR THE BUILDING'S
FIRE SAFETY**

NEW YORK UNIVERSITY

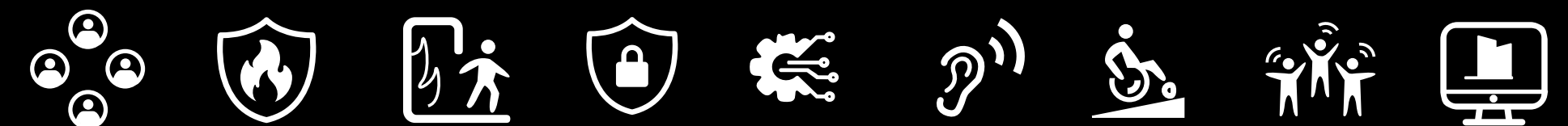
ABU DHABI, UAE

New York University (NYU) is one of the most prestigious educational institutions globally, known for its diverse academic programmes, cutting-edge research, and world-class faculty. As part of its ongoing commitment to innovation and sustainability, NYU embarked on a significant project to enhance its campus infrastructure.

Design Confidence's expert engineering and advisory services played a pivotal role in the project, particularly in the areas of fire and life safety systems. Our team was engaged to assess and provide comprehensive recommendations for the

building's fire safety strategies, ensuring that the design met stringent safety standards.

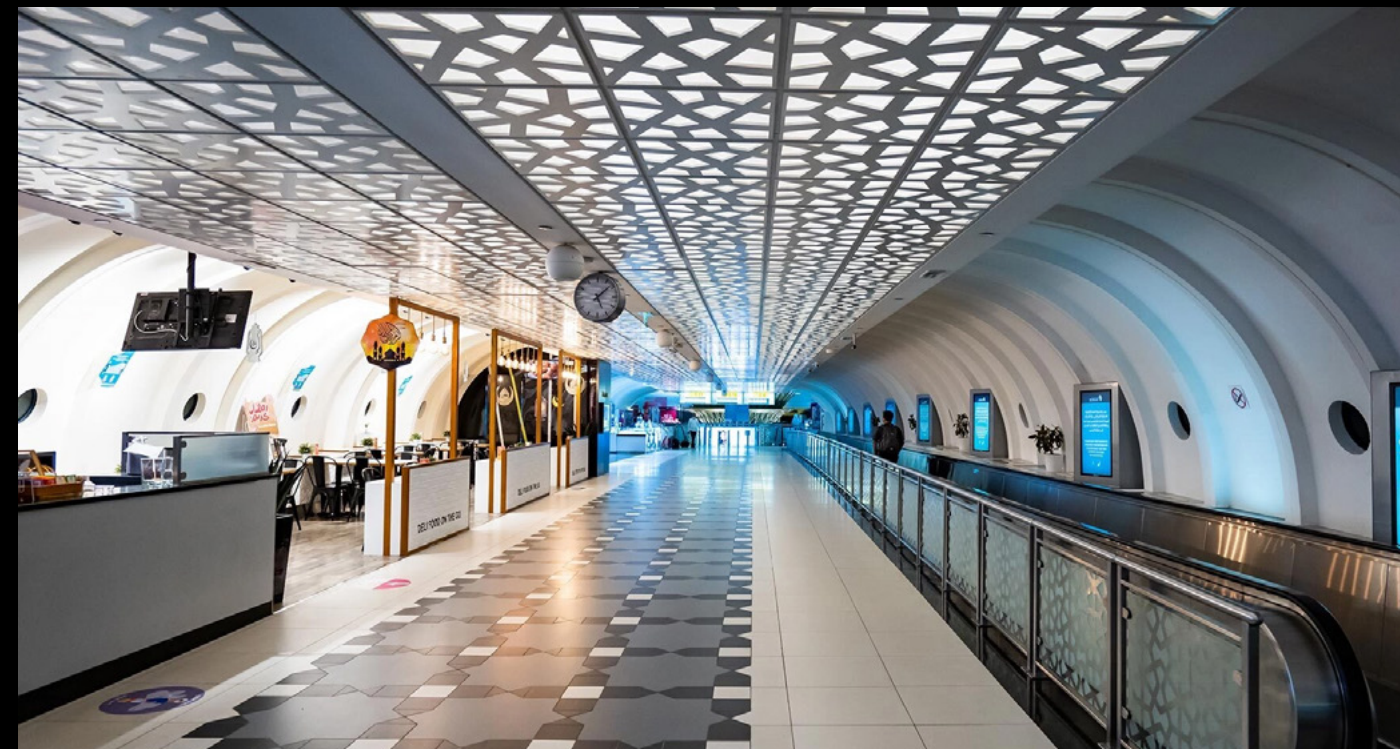
By conducting rigorous fire and smoke modelling, as well as staircase pressurization modelling, Design Confidence helped optimize the building's emergency evacuation procedures, ensuring that they would perform efficiently in the event of an emergency. Our team's advisory role also extended to guiding the client through the regulatory landscape, ensuring that all designs were compliant with local codes and international best practices.



KEY PROJECTS

TRANSPORT HUBS

We deliver engineering and design solutions for major transport hubs around the world, shaping environments that operate reliably under peak demand while keeping people safe, comfortable, and moving intuitively.



ABU DHABI AIRPORT T1 EXTENSION,
ABU DHABI, UAE



DUBAI METRO, DUBAI, UAE.

PROJECT TYPES

- Airport design
- Trainstation design



EMIRI TERMINAL QATAR
DOHA, QATAR



SKYPORT VERTIPOINT DEVELOPMENT
DUBAI, UAE.



THE CONSULTANCY WAS INVOLVED IN CONDUCTING COMPREHENSIVE FIRE AND SMOKE MODELLING FOR THE STATIONS AND TUNNELS.

DUBAI METRO

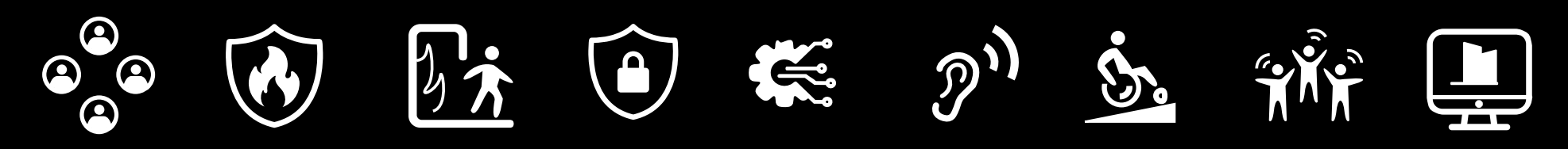
DUBAI, UAE

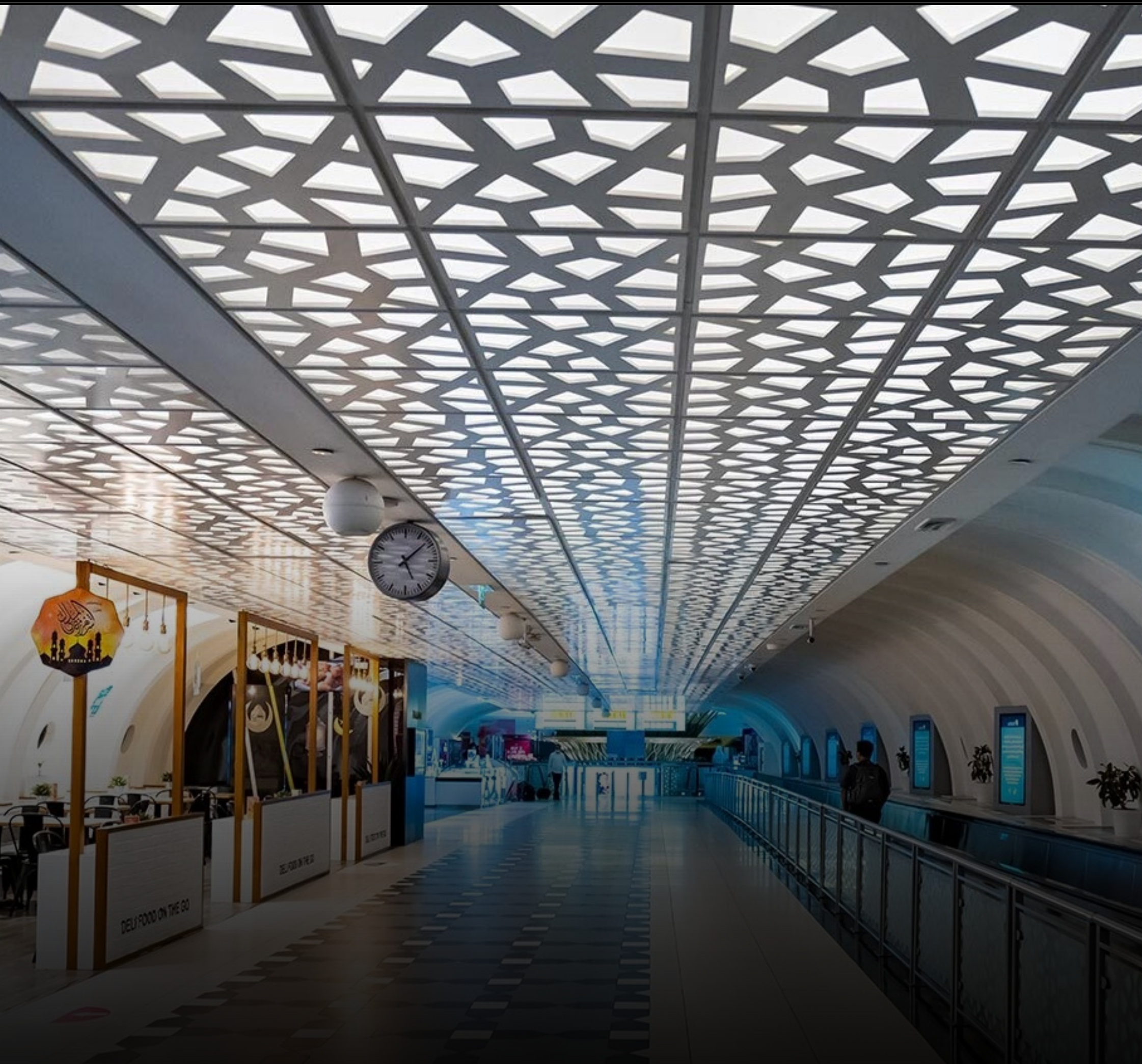
The Dubai Metro is a major infrastructure project that has revolutionized urban transport in the city, becoming one of the most advanced and efficient metro systems in the world. Launched in 2009, the metro spans across the city, connecting key commercial, residential, and recreational areas while promoting sustainable urban development.

Design Confidence's expert engineering and advisory services played a crucial role in the success of the Dubai Metro project, particularly in the areas of fire and life safety engineering.

The consultancy was involved in conducting comprehensive fire and smoke modelling for the stations and tunnels, ensuring that safety systems were optimized for quick evacuation, smoke control, and fire containment.

The Design Confidence team also provided valuable insights on emergency planning, risk assessments, and compliance with international safety standards, contributing to the design and implementation of robust safety measures.





ABU DHABI AIRPORT T1 EXTENSION

ABU DHABI, UAE

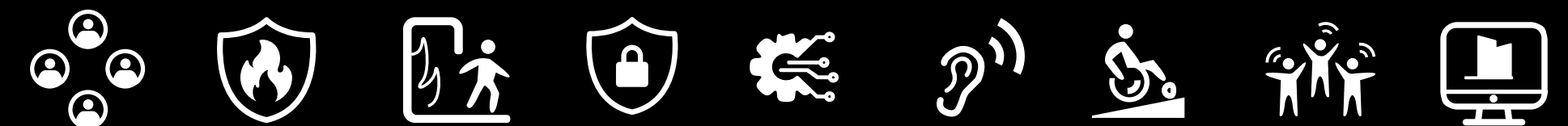
The Abu Dhabi Airport Terminal 1 Extension is a significant infrastructure development aimed at enhancing the capacity and functionality of the airport. As part of its ongoing expansion efforts, the project involves the extension of the terminal building, offering increased space for passenger handling, improved services, and an overall upgrade to the airport's facilities.

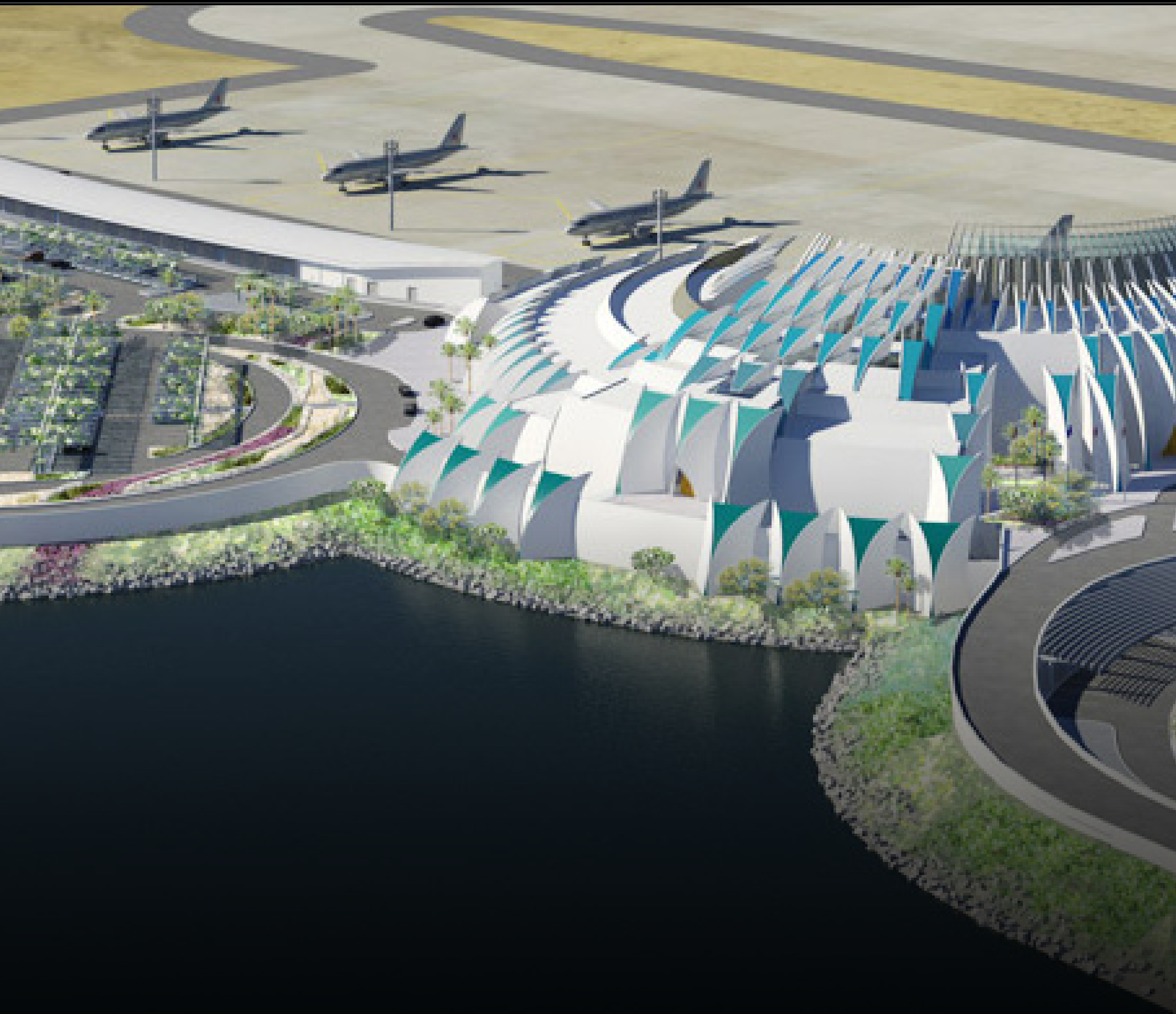
Design Confidence played a vital role in this project, providing expert engineering and advisory services that were integral to the development's success. The

company's involvement focused on critical areas such as fire and life safety, environmental comfort, and building performance, ensuring that the extended terminal met both international standards and local regulations.

Design Confidence's expertise was crucial in enhancing the terminal's safety features, including advanced fire protection systems and emergency evacuation protocols, which are essential for a high-traffic, public-facing environment like an airport.

ENHANCING THE TERMINAL'S SAFETY FEATURES





EMIRI TERMINAL

DOHA, QATAR

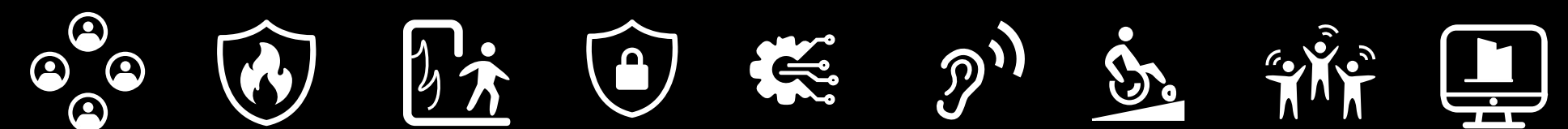
Design Confidence delivered comprehensive Fire & Life Safety and Specialist Fire Engineering services for the Emiri Terminal in Qatar, a highly sensitive aviation hub serving heads of state, VIP delegations, and official missions.

Our scope involved developing performance - based fire engineering solutions aligned with the terminal's

unique operational profile, architectural constraints, and stringent security protocols.

Working closely with designers, aviation authorities, and project stakeholders, we provided technical leadership throughout design and approval stages, helping the Emiri Terminal achieve world-class safety standards while maintaining its refined, high-performance environment.

WE PROVIDED TECHNICAL
LEADERSHIP THROUGHOUT
DESIGN AND APPROVAL
STAGES





SKYPORT VERTIPOINT

DUBAI, UAE

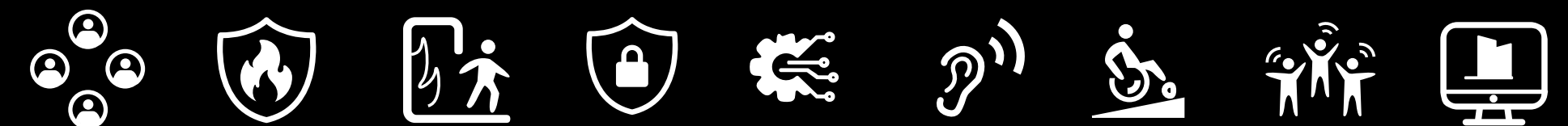
The Skyport Vertiport development is a G+3 building with the podium located above a G+2 multi-story car 481 parking spaces. Situated adjacent International Airport, the facility is designed to meet parking demand for vertiport users as well as for surrounding destinations, including the airport, Emirates HQ, and nearby metro stations.

The multi-story car park and the verti-

port will feature a direct connection to Emirates Metro Station 2, enhancing accessibility and integration with the city's transport network.

Design Confidence Consultancy was appointed to develop the Fire & Life Safety (FLS) strategy for the project, ensuring alignment with UAE Fire & Life Safety Code requirements in force at the time.

DESIGN CONFIDENCE
DEVELOPED THE FIRE & LIFE
SAFETY (FLS) STRATEGY



KEY PROJECTS

HERITAGE SITES

We provide specialist engineering and design solutions for heritage sites, balancing safety, inclusivity, and performance while safeguarding cultural significance and future resilience.

PROJECT TYPES

- Heritage sites
- Museum



CONTACTS



DESIGN CONFIDENCE
ENGINEERED EXCELLENCE WITH CONFIDENCE



+971 4 432 9277



BIDS@DESIGNCONFIDENCE.ME



DESIGN CONFIDENCE,
IBN BATTUTA, GATE OFFICE, LEVEL 6
613, GARDEN CROSS ROAD, DUBAI, UAE



WWW.DESIGNCONFIDENCE.COM

