

Company Profile



Over 40 Years of experience
and expertise on acoustics,
noise and vibration control

www.alphacoustic.com
www.vibro.gr

Company Profile

Our Timeline

PAST

ALPHA ACOUSTIKI, located in Athens, Greece, is one of the leading firms in Architectural Acoustics, Noise & Vibration consultancy.

Founded by Theodor Argoudelis an acoustic consultant with over 40 years of experience, the company has been involved in acoustic studies of major projects in Greece and internationally.

Over the last 20 years, the company expanded and successfully carried out high quality and large-scale projects around the world. Indicative projects include Airports, Hotels, Hospitals and schools.

PRESENT

Our engineering team includes a team of highly qualified engineers, with many years of experience in acoustics design and noise control problem solving.

ALPHA ACOUSTIKI is combining its staff's experience on acoustic consulting with the use of advanced measuring equipment and software.

Our main expertise is in offering high end acoustic solutions without sacrificing key parameters such as ergonomics, aesthetics and value/cost engineering.

We provide acoustical consulting services to architects, engineers, factory managers, public sector administrators and building owners.



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FUTURE

We are aspired to grow in new regions and resolve more complex acoustic projects.

Our aim is to continue and excel the tradition of acoustic design that originates in Ancient Greece more than 2000 years ago.

Our vision is not only to become one of the largest acoustic consultancy companies in Europe but to implement new and innovative methodologies.

Our drive is to find balanced solutions that will make our world a quieter place!

40+ years
experience

In **TUNE** with YOUR needs

Company Profile

Our Acoustic Consultant Team



Our team includes acoustic consultants, acoustic engineers, noise and vibration consultants, aiming at providing a full range of competencies tuned to your specific needs. Our highly specialized acoustic consultants with more than 40 years of experience in the field can deal with any noise and vibration control problem.

THEODORE ARGOUDELIS

Founder - CEO
General Manager
Mechanical Engineer, B. Eng
University di Bologna
Acoustic Consultant with over 40
years experience



ANTONIOS ARGOUDELIS

Co-Owner
Industrial Engineer B. Eng
M.Sc. in Environmental and
architectural acoustics, London, UK
M.Sc. in Project Management,
Sydney, Australia

NIKOLAOS ARGOUDELIS

Co-Owner
Mechanical Engineer C. Eng
M.Sc. Sound and Vibration Studies
(I.S.V.R.), Southampton, UK
Project Designer



Company Profile

Our Acoustic Consultant Team



Our team includes acoustic consultants, acoustic engineers, noise and vibration consultants, aiming at providing a full range of competencies tuned to your specific needs. Our highly specialized acoustic consultants with more than 40 years of experience in the field can deal with any noise and vibration control problem.

George Kostopoulos
Mechanical Engineer
M.Sc. Engineering Acoustics
(DTU), Acoustic Consultant



KONSTANTINOS KARALAGAS
Mechanical Engineer, National
Technical University of Athens,
Acoustic Consultant

GEORGE KARPOUZAS
Acoustical Engineer (IOA),
M.Sc. Applied Acoustics



Trust the Professionals

Our Approach

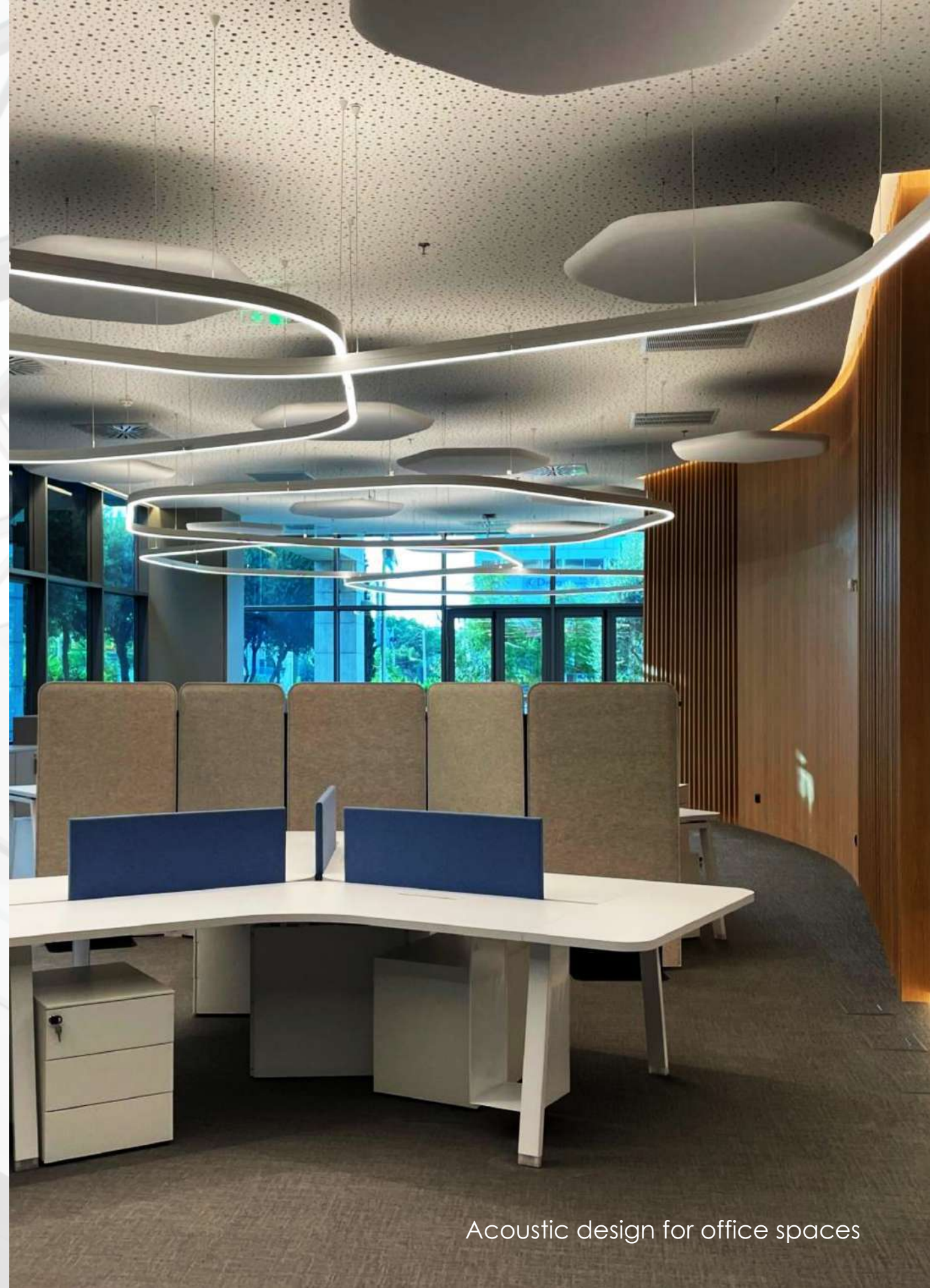
Is to face every project as a unique entity, examining all aspects and technical facts utilizing our experience and technical background.

Our aim in each project is to deliver the desired acoustical results and the most appropriate, cost-effective acoustical solutions.

We review architectural plans, conduct on site evaluations and measurements with state-of-the-art specialized equipment and utilize sophisticated predictive modeling software that, combined with our practical experience, navigate us to the desired solutions.

As acoustical consultants, we predict potential acoustical design problems and solve them before they are built into structures.

Also, in already built constructions, we consult acoustic modifications studies to achieve the desired results.



Our Services

Architectural and building acoustics

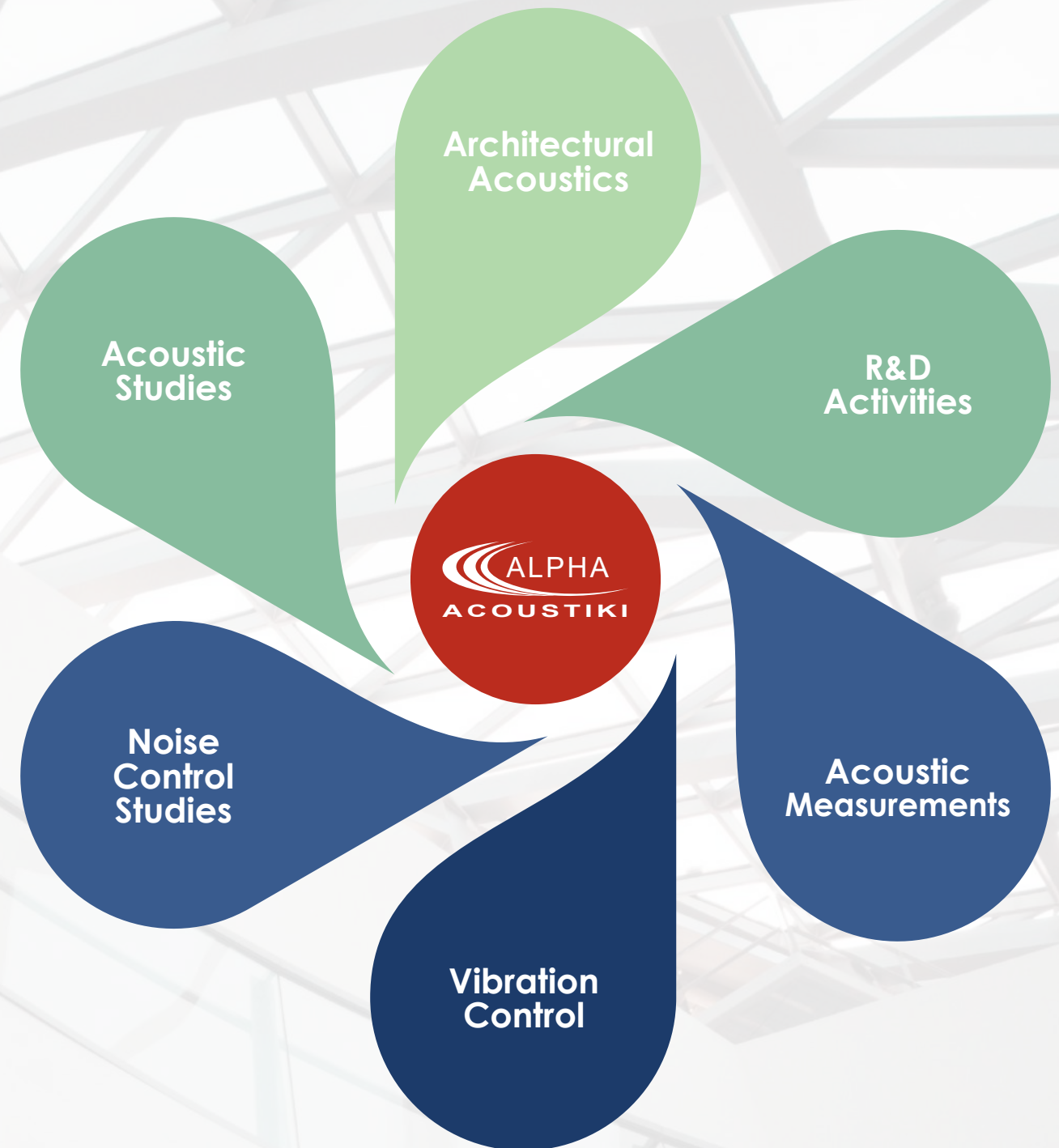
- Acoustic design of building shells and interior rooms prior to construction (conference rooms, auditoriums, theaters, cinemas, office buildings, hotels, conservatories, gyms).
- Sound modeling and studies.
- Acoustic modification studies in already built infrastructure.
- Interior space architectural acoustic design and testing.
- Sound isolation from external noise sources.
- Reverberant noise measurement, assessment and control.

Mechanical Noise Control Studies

- Mechanical equipment noise transmission prediction and preventative design prior to construction.
- Sound insulation consulting for noise from heating, ventilation, air conditioning etc in existing infrastructure.
- Industrial noise measurement, evaluation and reporting.
- Occupational noise measurement, evaluation and reporting.
- Environmental noise impact measurement and assessment.
- Entertainment and event venue noise evaluation and reporting.

Vibration Control Studies

- Vibration Measurements (in building and HVAC)
- Vibration monitoring, detection and solutions
- Vibration prediction and analysis and design of anti-vibration solutions.



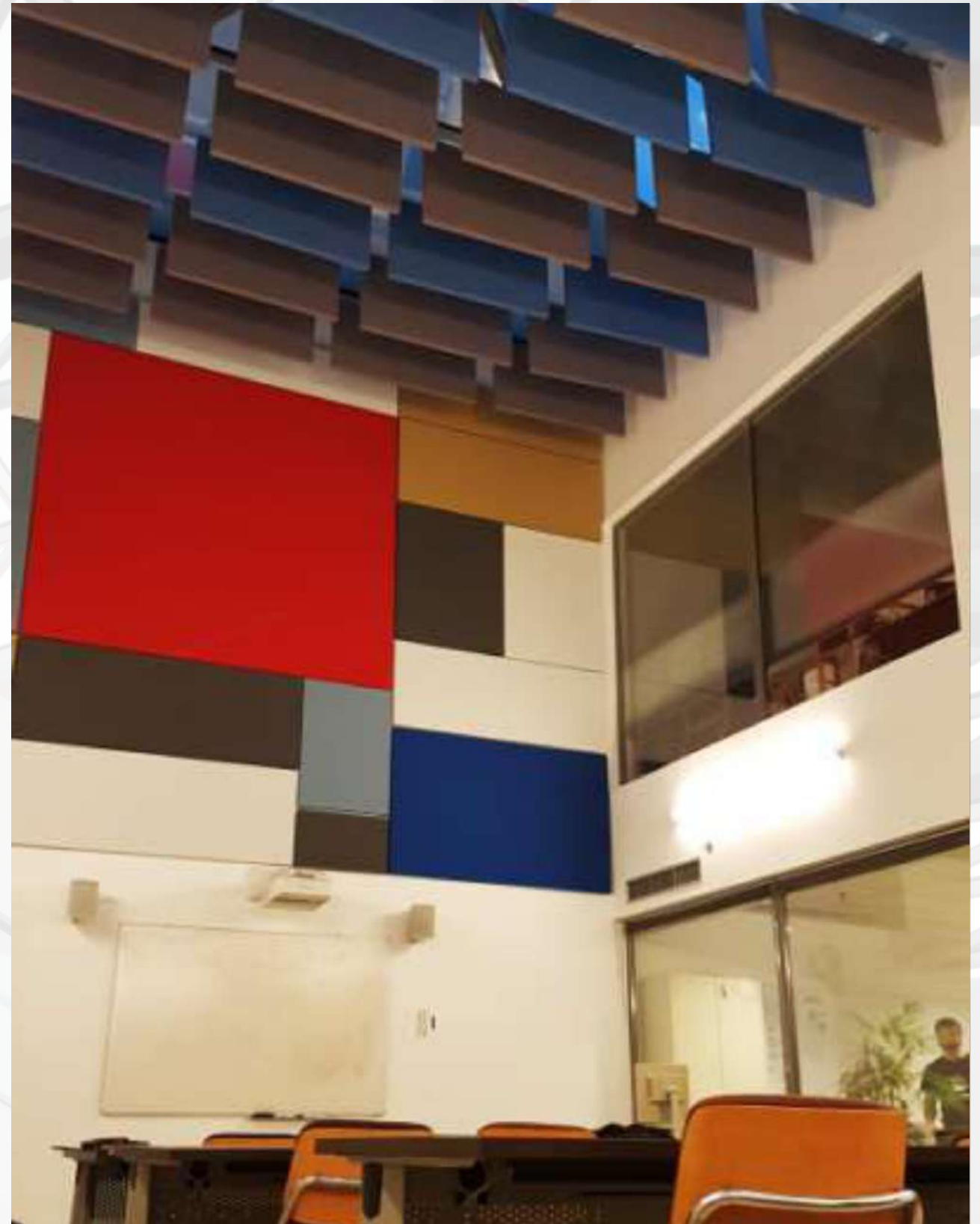
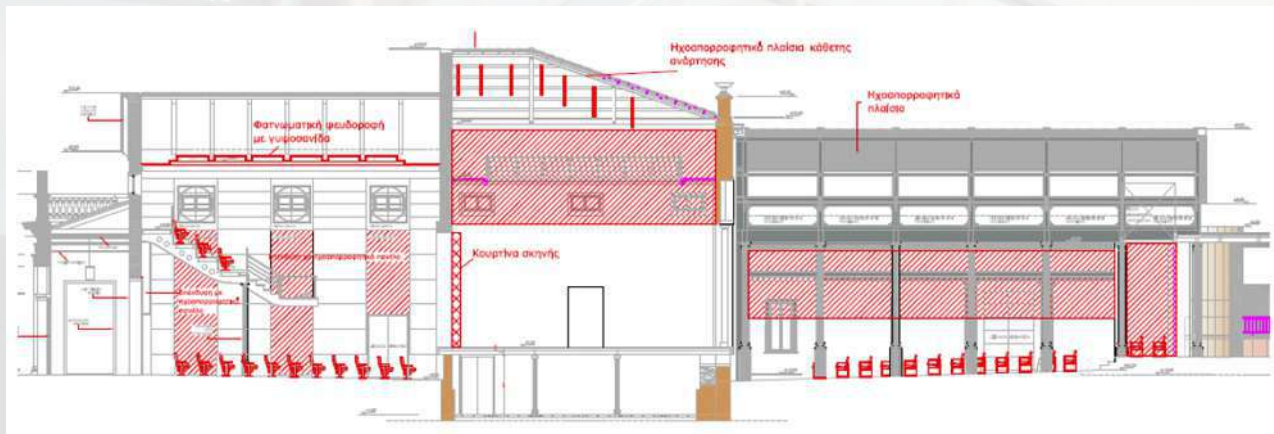


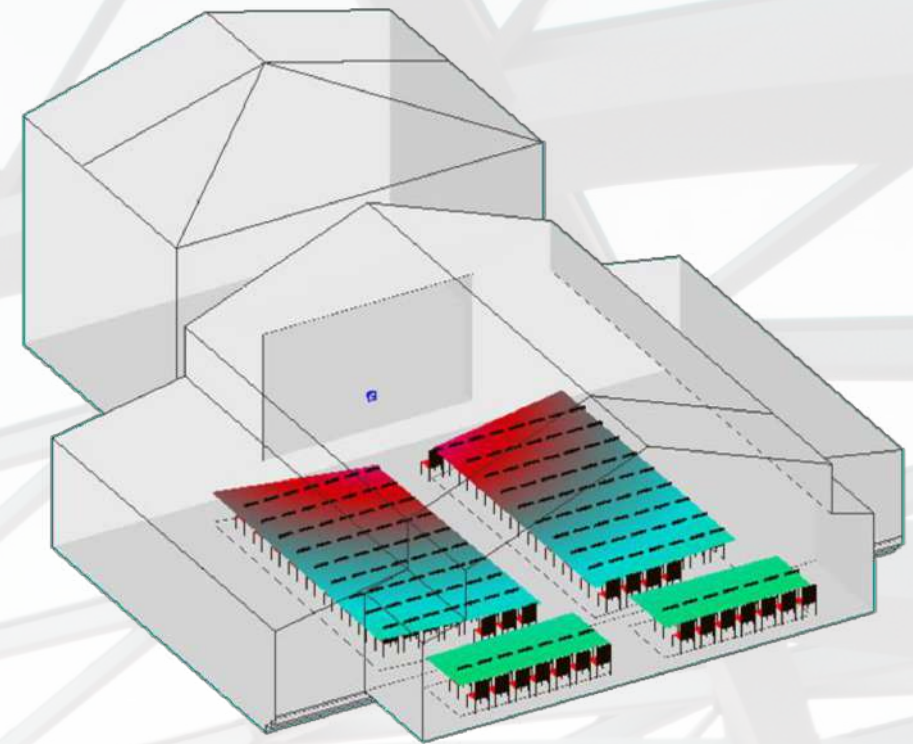
Application of our services

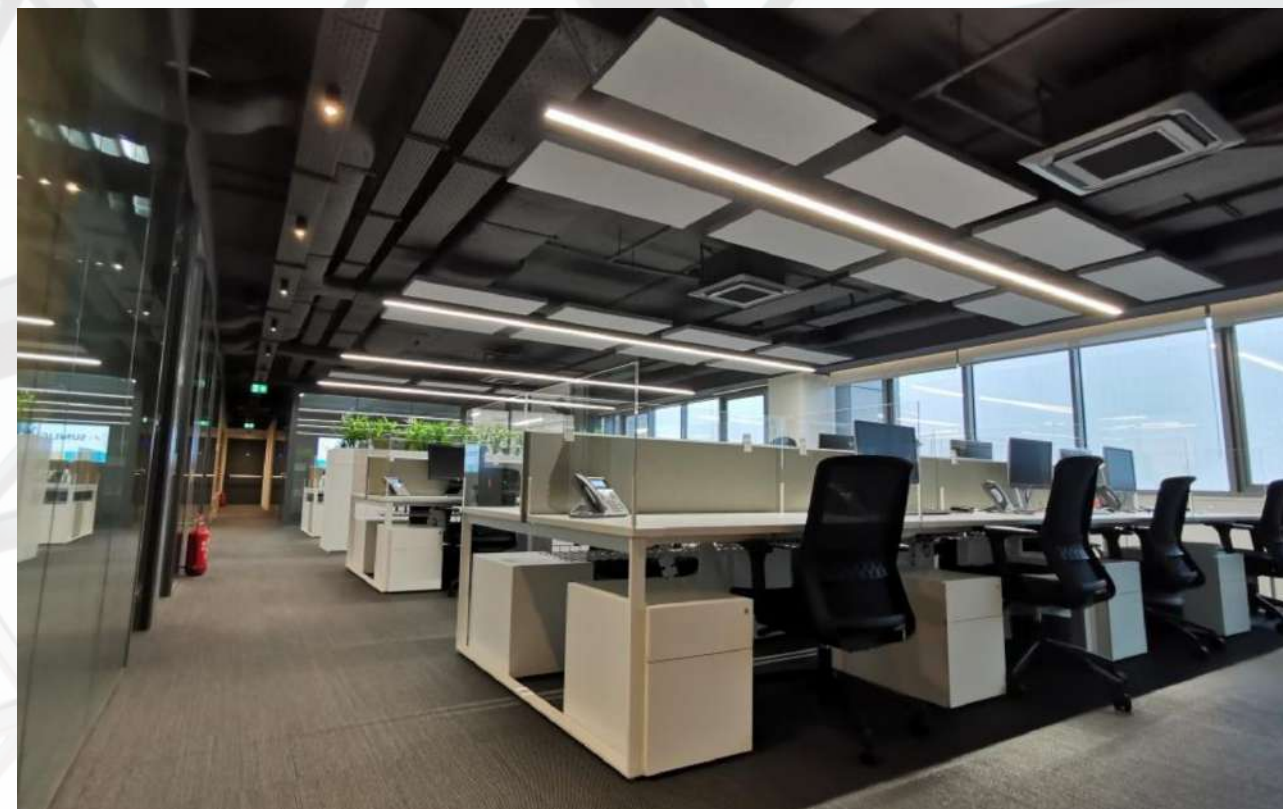
Acoustic Studies

Our consultants specialize in the design, modeling and engineering of interior room acoustics. Our acoustic team analyzes architectural plans and engineering calculations, to predict acoustic performance and to propose the necessary interventions for optimal design of architectural acoustics.

We design architectural acoustic solutions for all kinds of facilities where enhanced aural clarity, quality and speech intelligibility are critical.



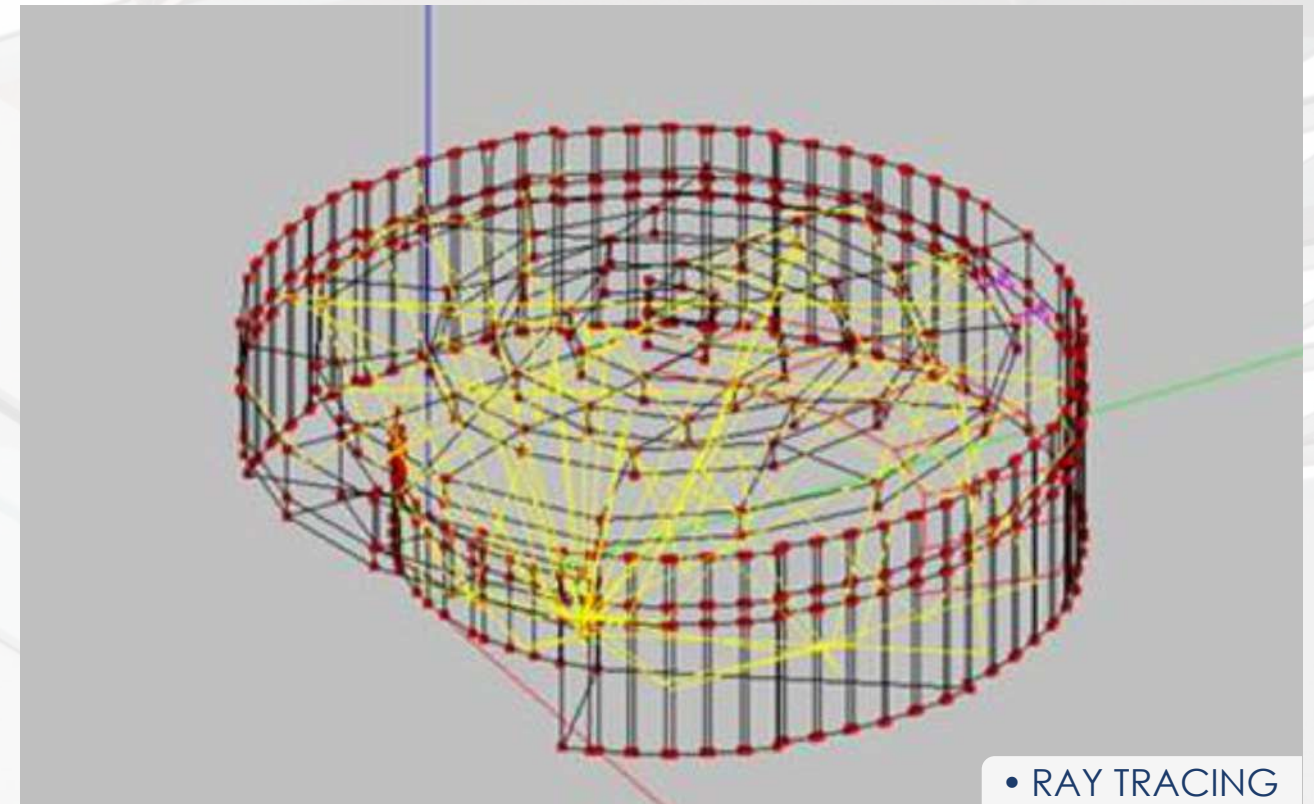




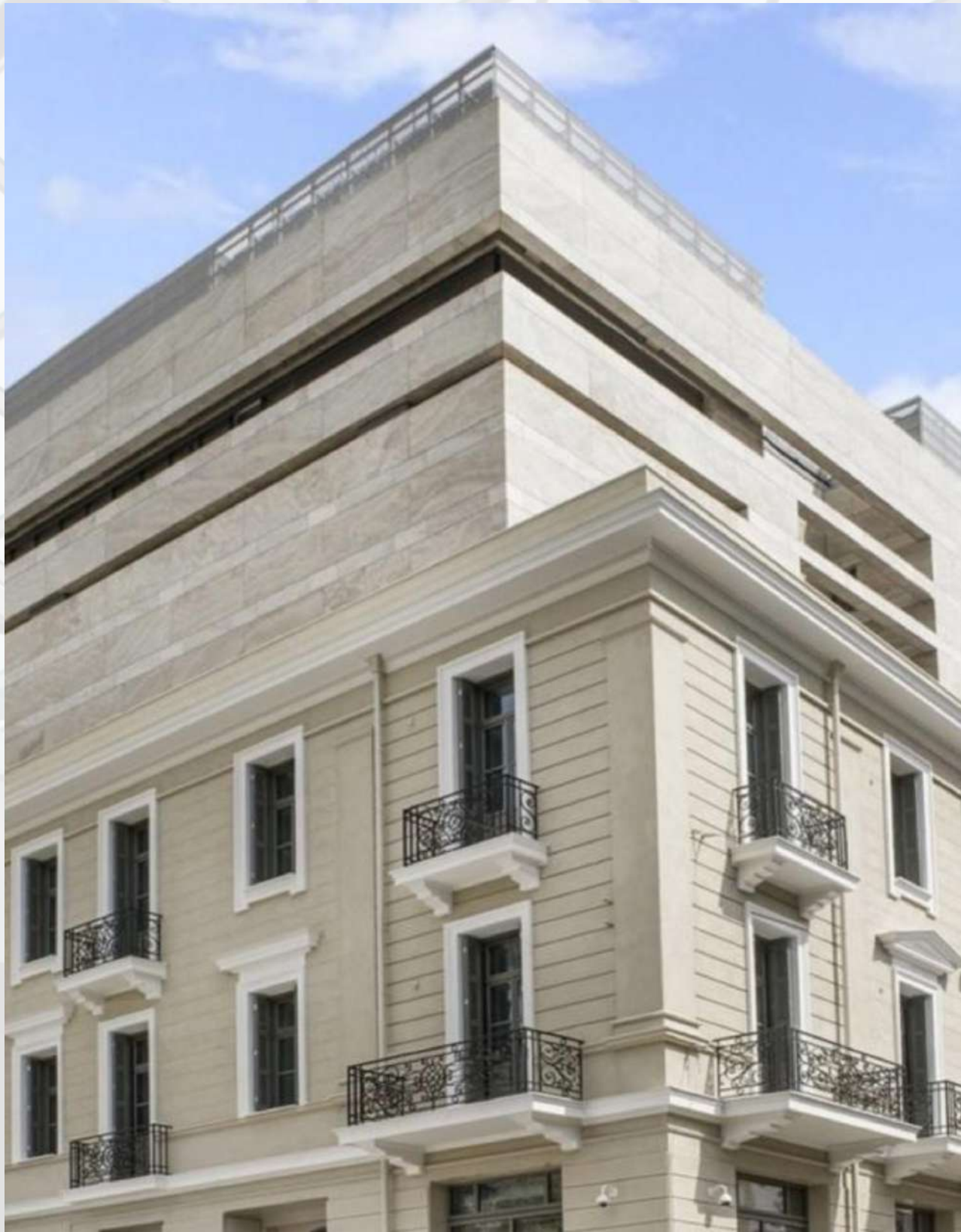
• Eurobank Conference Centre, Athens



• Seeroo Fi Al Ardh Carousel, Qatar



• RAY TRACING



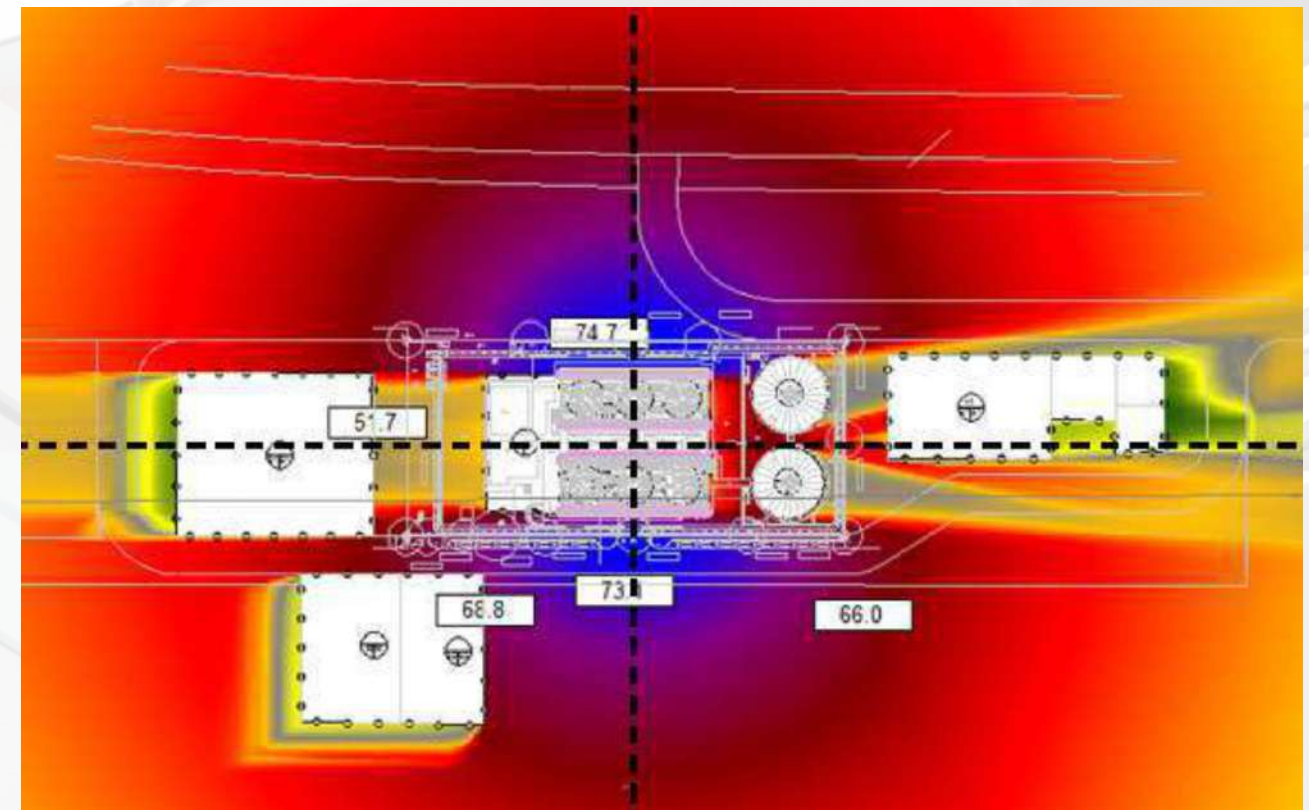
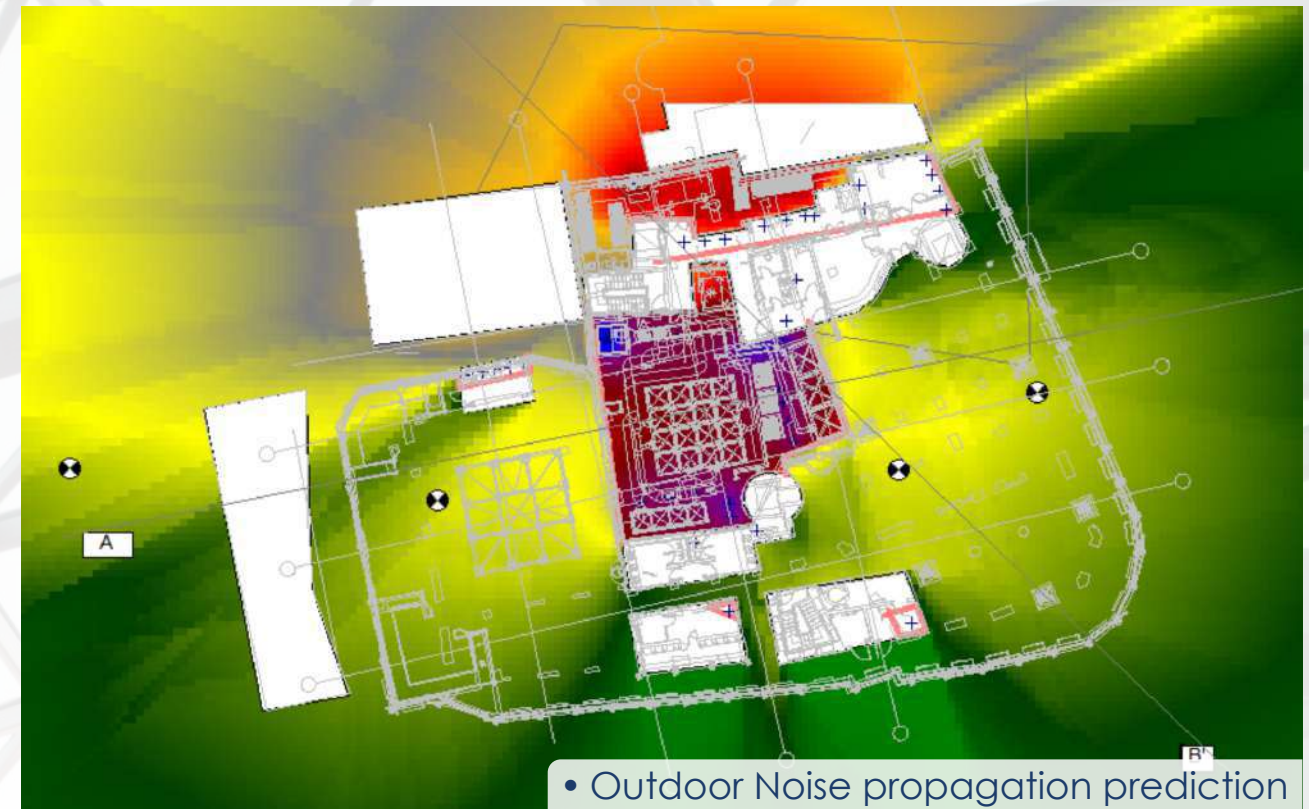
Noise Control Studies

Alpha Acoustiki offers a complete range of noise control and vibration isolation services in a wide range of applications which include among others:

- Industrial Noise
- Heating, Ventilation, Air Conditioning
- Environmental Noise
- Noise at Work – Occupational Noise
- Building Sound Insulation









Vibration Control

Our engineers conduct vibration measurement and assessment studies and use those findings to recommend vibration isolation solutions to control and mitigate vibration generated by mechanical systems.







Acoustic & Vibration Measurements

Alpha Acoustiki uses advanced measurement instruments in order to provide a wide range of noise-vibration and room acoustics measurements which include among others:

- Industrial noise
- Environmental noise / Noise mapping
- Occupational noise & vibration measurements and dosimetry
- Mechanical systems noise
- Vibration Measurements (in building and HVAC)
- Room acoustics parameters estimation





Measuring Equipment

Alpha Acoustiki S.A. is equipped with a complete series of Sound Level Meters and equipment for on site measurements including:

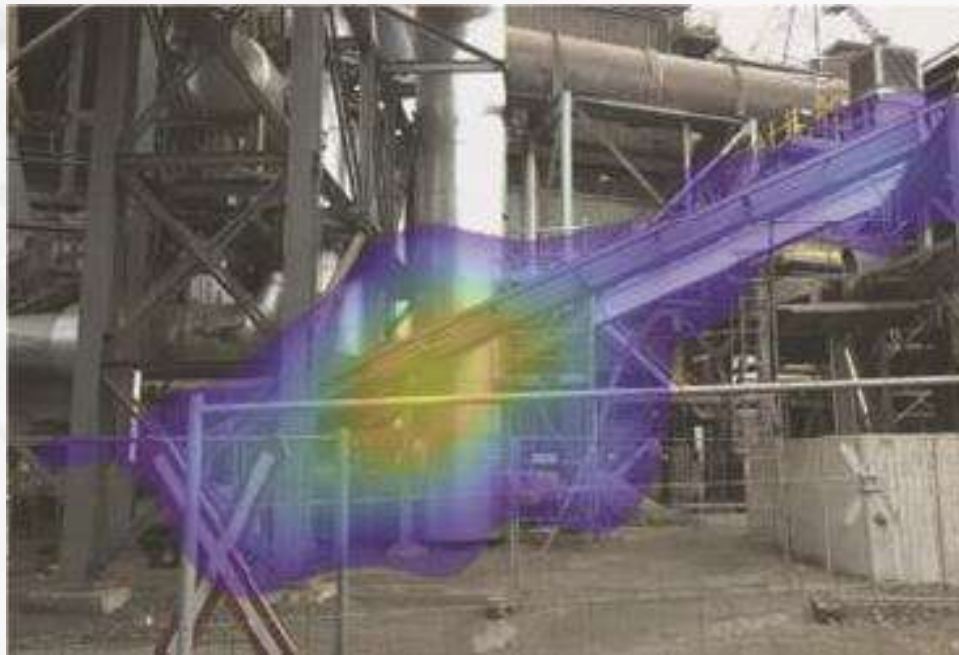
- Sound Level Meter NTiXL2
- Sound Level Meter BEDROCK AM100
- Sound Level Meter BEDROCK SM90
- Sound Level Meter Brüel&Kjaer2250
- Sound Dose Meter Svantek102
- Calibrator Brüel& Kjaer, Type 4230
- Calibrator Bedrock BAC1
- Tapping machine for impact sound measurements PIKKIO
- Sound & Vibration AnalyserSvantek958A
- Omni-directional dodecahedron Sound Source

• Acoustic Camera | Sound Scanner “Seven Bel”

- Visualize sound from 125Hz to 45kHz.
- Frequency range: 250 Hz 10,5 kHz
- Spatial resolution at 5 kHz (3 dB DNR): 2,6
- Frequency Resolution: > 5 Hz
- Dynamic range: > 13 dB
- Computed images per revolution: up to 6
- Measuring distance: 0,5 m infinite

Applications:

- Building and Industrial acoustics & Environmental Noise: enables direct and accurate localization of sound sources in a room or on a construction site

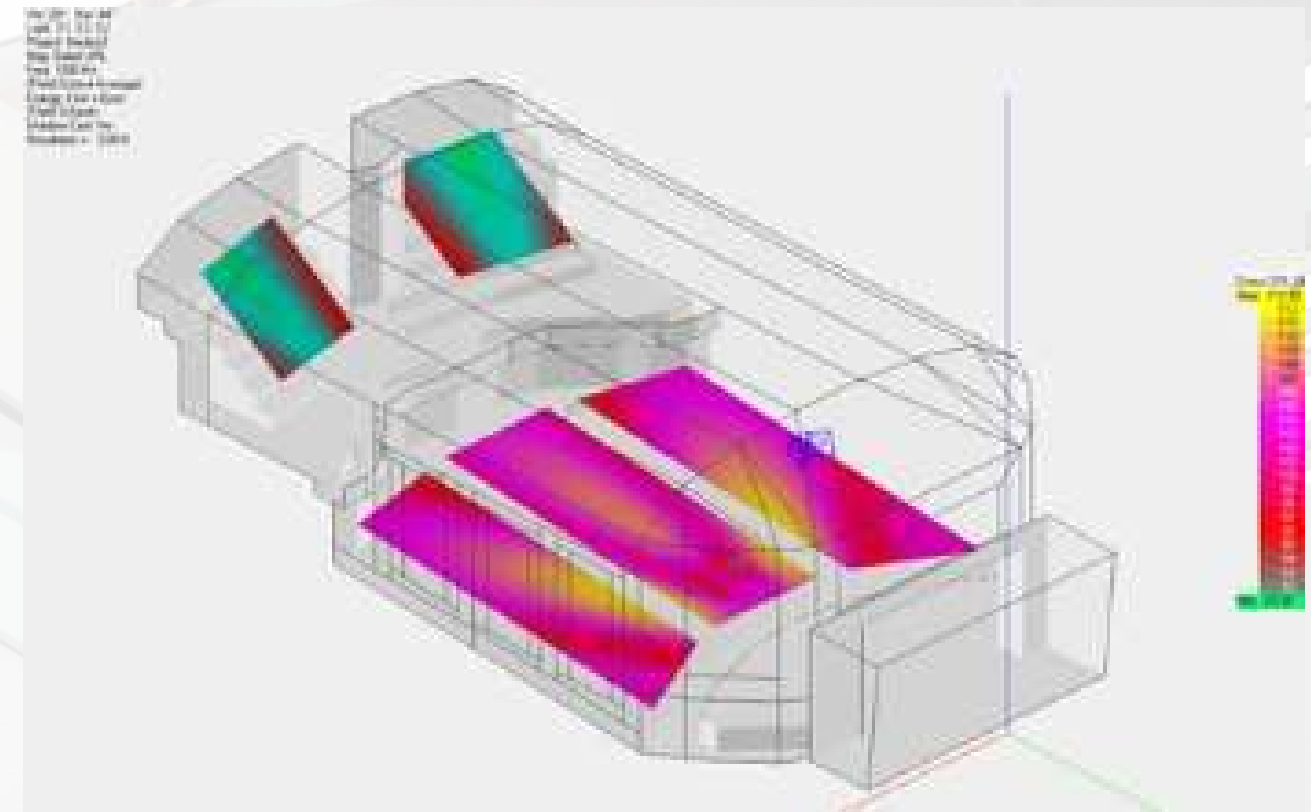
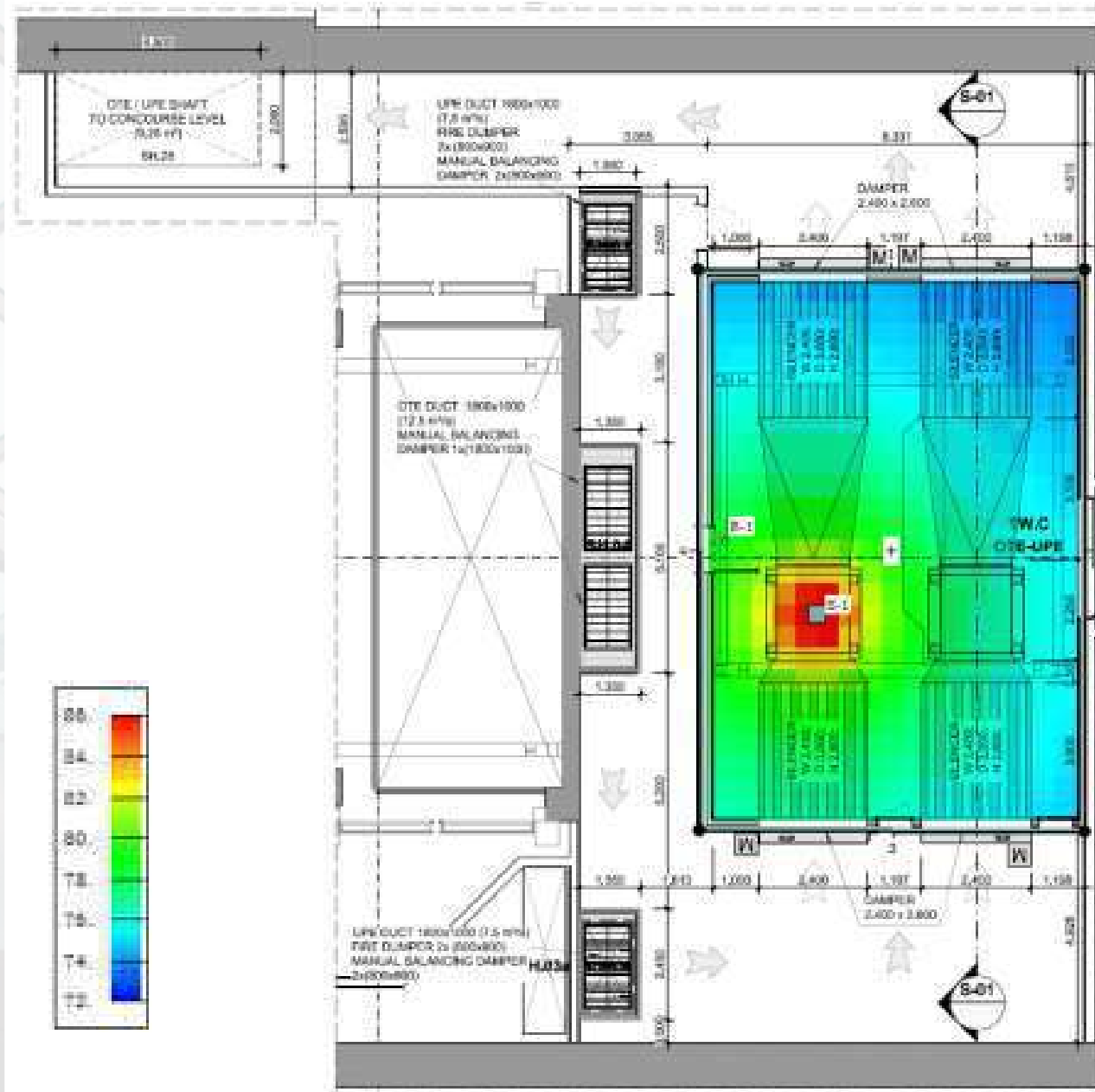


Measuring Equipment

Acoustic Software

ALPHA ACOUSTIKI offers a range of special Acoustic simulation software for monitoring and process of the results of the acoustic measurements for a more accurate prediction including:

- Environmental noise / Noise mapping
- Occupational noise & vibration measurements and dosimetry
- Mechanical systems noise
- Vibration Measurements (in building and HVAC)
- Room acoustics parameters estimation



Acoustic Software

ALPHA ACOUSTIKI offers a range of special Acoustic simulation software including:

- **CadnaA**

The environmental acoustics software CadnaA (Computer Aided Noise Abatement) is the software for calculation, presentation and assessment of environmental noise prediction.

- **PTR2**

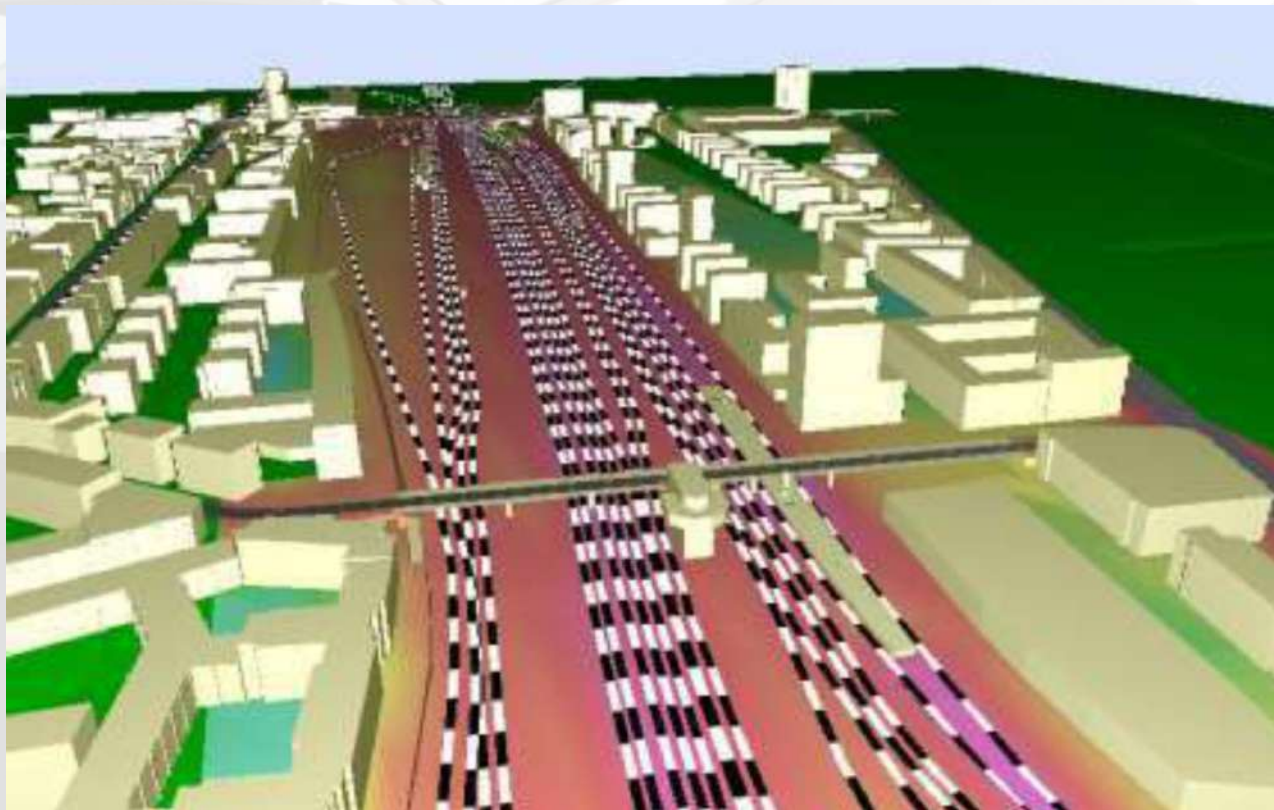
Program for predicting the noise transmission inside air ducts. It can also calculate the regenerated noise and the noise reduction of silencers.

- **EASE**

The Simulation Software EASE allows modelling of interior rooms and open-air spaces in 3D representation as well as assigning acoustic properties to the wall and ceiling materials used.

- **RAP-ONE**

Program for the calculation of Room Acoustics Prediction and Internal Room Noise Exposure from company SoftdB Canada. It is an innovative easy-to-use designed for use by acoustics consultants, engineers, and industrial hygienists to analyze and manage sound in an industrial setting.





Turn-key Solutions

At ALPHA ACOUSTIKI, we believe in complete customization and flexibility in order to meet each client's technical and budgetary requirements.

For that reason we separate acoustic consultancy from product supply. In projects that a secure and qualified acoustic result is intended, clients rely on our expertise and they award us with complete project execution.

In these cases we can construct complete turnkey projects like music studios, auditoriums, home cinemas or mechanical applications like noise barriers, noise enclosures, installation of acoustic doors and overall complete acoustic project contracting.



R&D Activities

Our acoustic engineering team continuously carries out applied academic research on acoustics, noise and vibration control, working closely with specialized research Institutes and Acoustic Laboratories.

This contributes in designing innovative, advanced and effective acoustic, noise and vibration control solutions.

Additionally, we carry out acoustic measurements of noise insulation (R_w), sound absorption index (α_s) and structural borne noise Insulation (L_{nw}) in Acoustic laboratory, in order to determine the characteristics of new, eco-friendly acoustic materials.

In order to constantly guarantee high quality, we offer solutions that are tested and certified by independent acoustic laboratories.

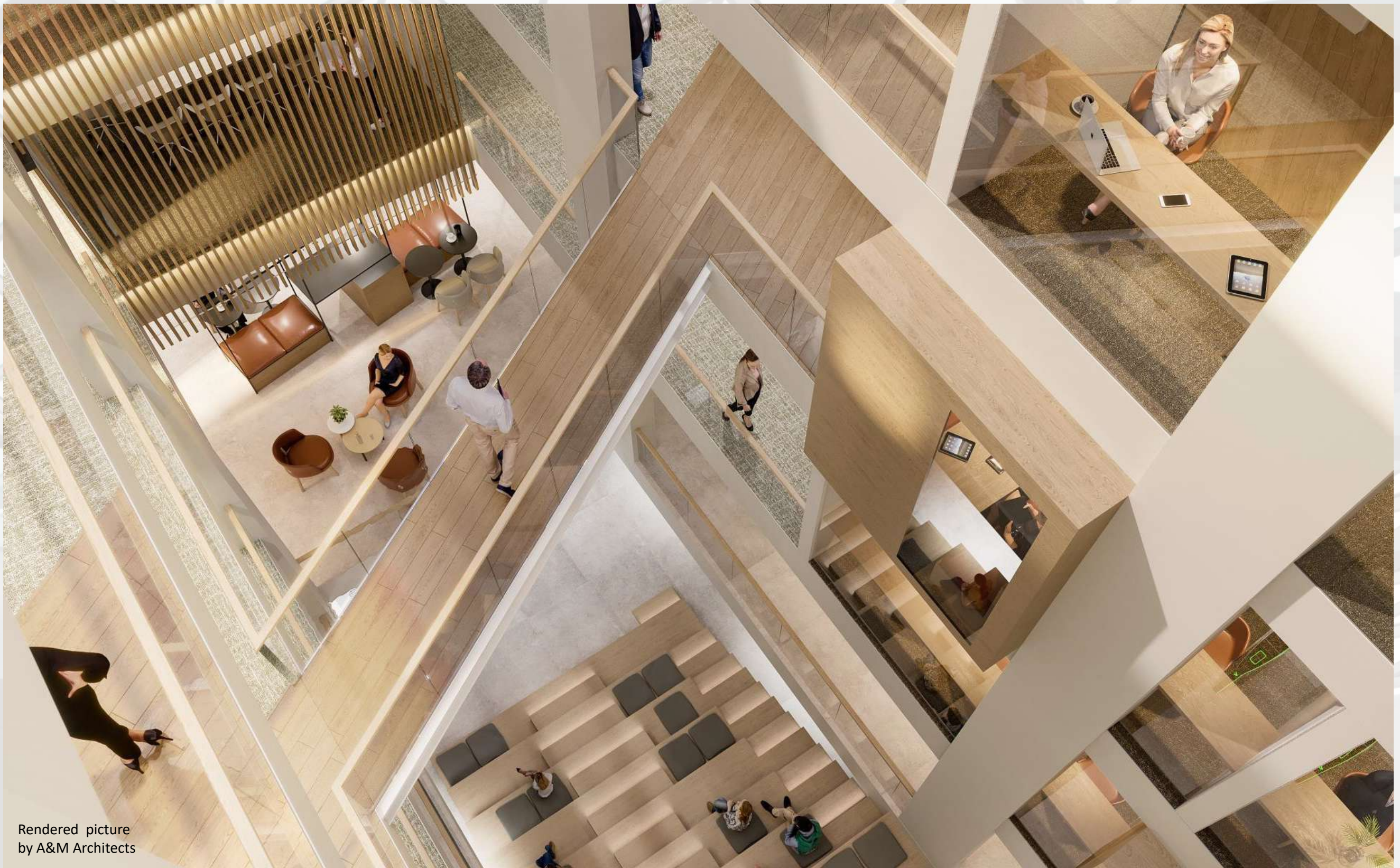
Selected Projects



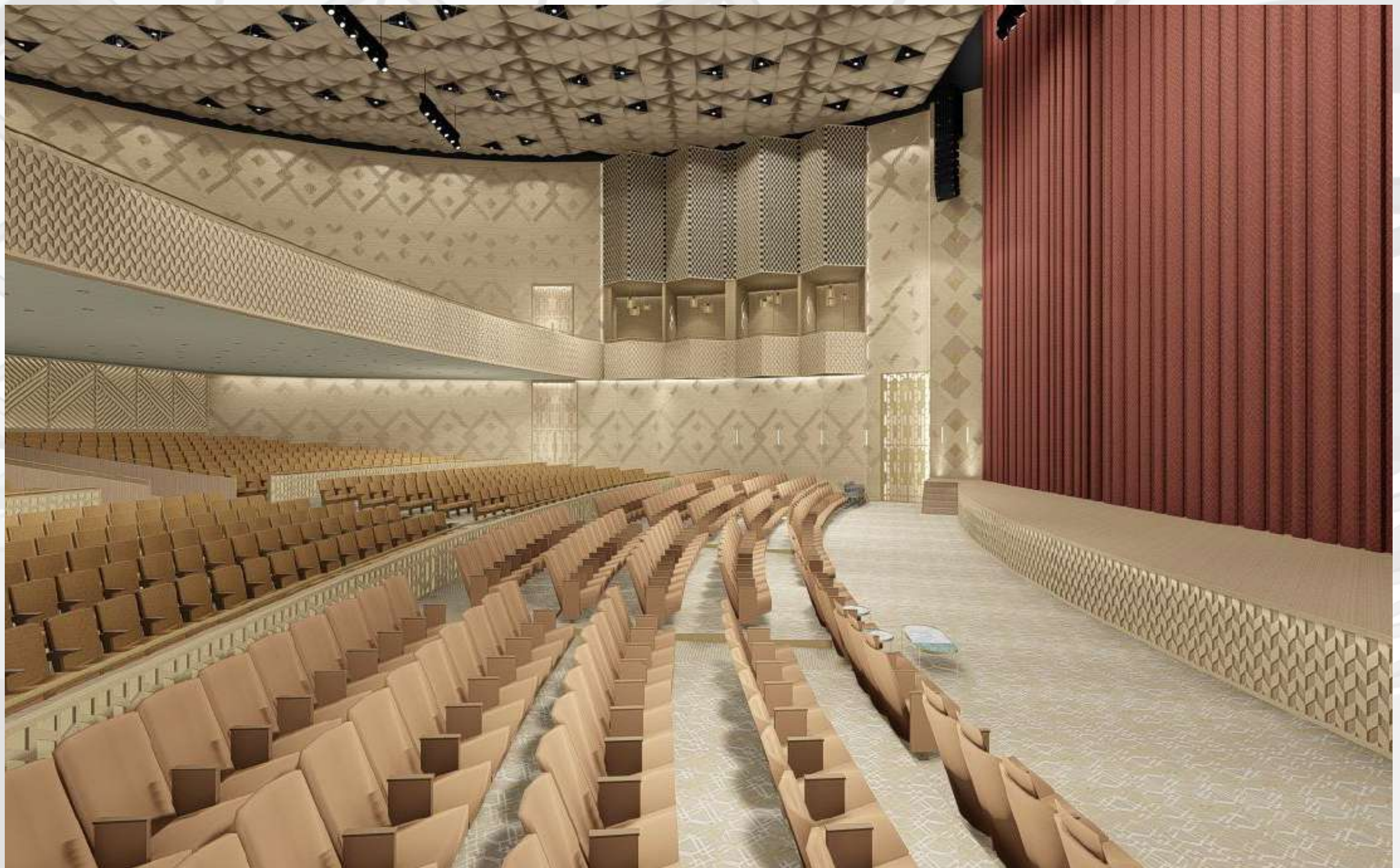








Rendered picture
by A&M Architects





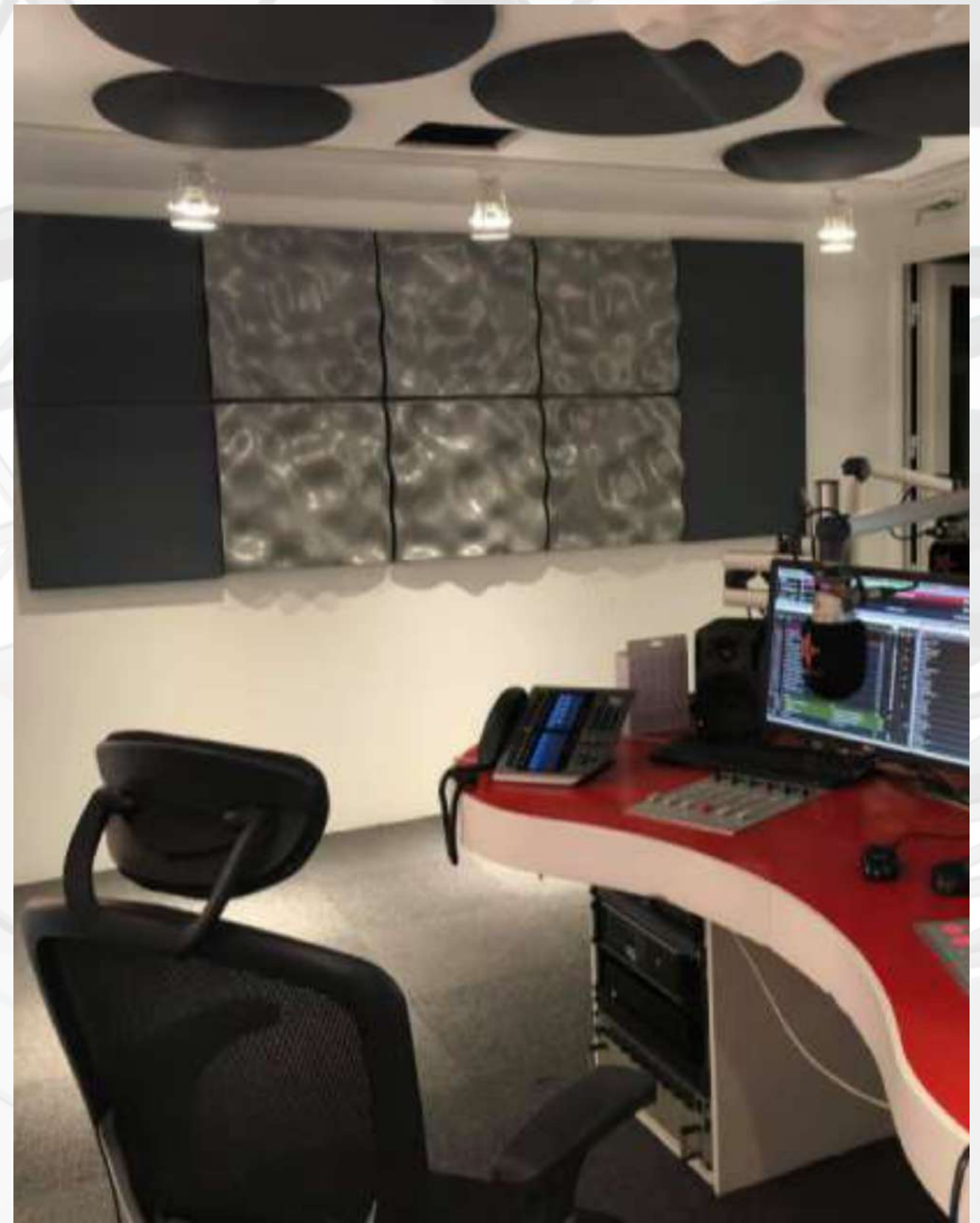
Qassim University Conference Hall, Saudi Arabia - 2021















**ALPHA**
ACOUSTIKI
www.alphacoustic.com

40+ years
experience
In **TUNE** with **YOUR** needs