



# Proceedings of Forum Acusticum - Euronoise 2025

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European Acoustics Association

*Edited by*

**Daniel de la Prida, Jaime Ramis and María Machimbarrena**



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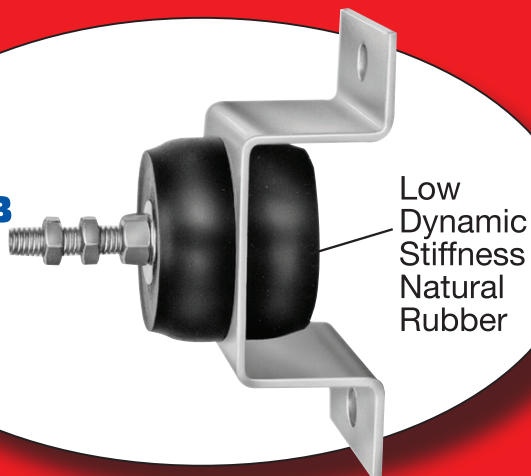
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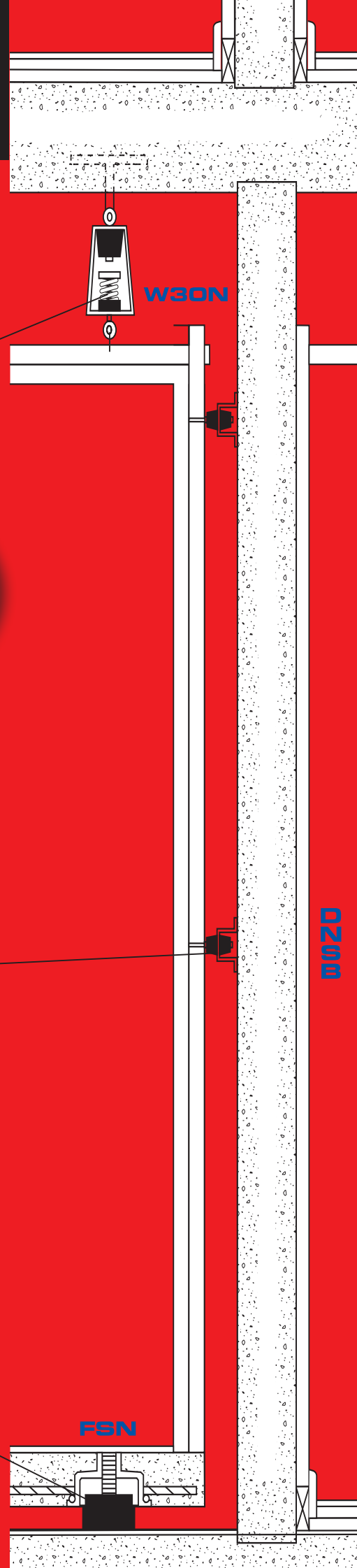
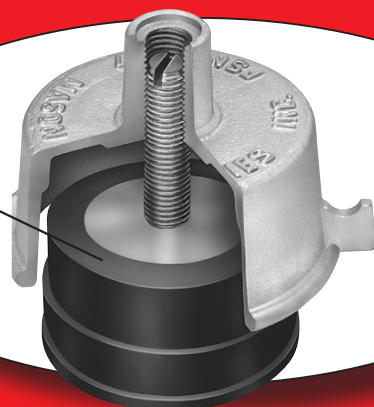


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**A03.01** Building acoustics - General

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**A19.01** Numerical, computational and theoretical acoustics - General

### **Secchi S.**

**A15.05** Acoustic comfort in hospitals

### **Segura - García J.**

**A24.02/A24.13** Motion and rendering

### **Shabalina E.**

**A10.03** Metamaterials for noise and vibration reduction

### **Siebein K.**

**A17.03** Soundscape practice and interventions

### **Širović A.**

**A02.02/A22.02** Underwater soundscape and noise

### **Slabbekoorn H.**

**A02.05** Effects of multimodal stimuli on wildlife

### **Sobreira M.**

**A09.01** Machine learning and artificial intelligence in acoustics - General

### **Spagnol S.**

**A21.02** Applied sound-driven design

### **Stoppel F.**

**A06.03** Loudspeakers and headphones

### **Susini P.**

**A21.04** Methodologies for sound-driven design and education

### **Taghipour A.**

**A14.10** Experiments for noise annoyance, comfort, and soundscape

### **Talebzadeh A.**

**A17.06** Soundscape and inclusion, from theory to practice

### **Temboury Gutiérrez M.**

**A13.06** Audiology diagnostic techniques

### **Thebaud T.**

**A18.05** Speech technologies: diarization, emotion, enhancement

### **Theodossiades S.**

**A20.01** Transportation noise and vibration - General  
**A20.02** Automotive noise and vibration

### **Torija Martínez A.**

**A05.10/A14.09** Advanced air mobility noise

### **Torrent D.**

**A10.02** Acoustic, vibroacoustic and elastic metamaterials

### **Torresin S.**

**A17.05** Indoor soundscapes

### **Undurraga J.**

**A13.06** Audiology diagnostic techniques

### **Valier - Brasier T.**

**A10.09/A12.10** Acoustic wave propagation in complex media

### **Van Belle L.**

**A10.03** Metamaterials for noise and vibration reduction

### **Van Damme B.**

**A10.02** Acoustic, vibroacoustic and elastic metamaterials

### **Van Renterghem T.**

**A02.05** Effects of multimodal stimuli on wildlife  
**A05.03** Environmental noise perception

### **Van Walstijn M.**

**A11.04** Articulated musical instrument modelling

### **Vanhamel J.**

**A12.07** Acousto-optics

### **Vida Manzano J.**

**A17.01** Soundscape, environmental quality, health and well-being - General  
**A17.04** Soundscape methods, monitoring and metrics

### **Vidaña - Vila E.**

**A02.01** Bio-acoustics - General

### **Villacorta J.J.**

**A16.04** Airborne sonar

### **Visentin C.**

**A15.03** Modern offices: challenges and solutions  
**A15.06** Acoustic and multidomain comfort in learning spaces

### **Waddington D.**

**A02.01** Bio-acoustics - General

### **Want W.**

**A09.01** Machine learning and artificial intelligence in acoustics - General

### **Weger M.**

**A13.04** Advancements and challenges in military acoustics

### **Whitehead H.**

**A02.01** Bio-acoustics - General

### **Willemsen S.**

**A11.06/A24.07** Networked music performances and virtual environments

### **Williges B.**

**A13.05** Asymmetric hearing loss - clinical solutions and functionality

### **Witew I.**

**A15.01** Room acoustics - General

### **Wrona S.**

**A01.07/A08.06** Innovative noise barriers

### **Yorukoglu P.N.D.**

**A17.05** Indoor soundscapes

### **Yue Z.**

**A18.03** Speech production pathologies

### **Zaffaroni - Caorsi V.**

**A02.02/A22.02** Underwater soundscape and noise

### **Zambon G.**

**A02.02/A22.02** Underwater soundscape and noise

### **Zirn S.**

**A13.05** Asymmetric hearing loss - clinical solutions and functionality

### **Zotter F.**

**A16.02** Spatial audio signal processing

# Plenary Sessions

## Plenary Session 1

### Sounds of the Ocean: understanding marine life and its interactions with sound

**Author:** Ana Širović

**Affiliation:** Norwegian University of Science and Technology, Norway

**Date:** Monday, June 23rd



#### Biography:

Ana Širović is a marine bioacoustician and a professor at the Norwegian University of Science and Technology (NTNU) in Trondheim, Norway. Originally from Croatia, she obtained a Bachelor's degree from the University of California Santa Barbara and a PhD in Oceanography from the Scripps Institution of Oceanography at the University of California San Diego in the United States. She is interested in the development and use of new methods to improve understanding of highly exploited and endangered marine species. She also conducts research on ambient sound and the effects of anthropogenic noise on marine life. Her group uses acoustic tools to answer ecological, population-level questions relevant to the management of animal resources. Prior to joining NTNU, Prof. Širović was a faculty member at Texas A&M University at Galveston and Alaska Pacific University, and a research oceanographer at the Scripps Institution of Oceanography. She is the recipient of the Medwin prize from the Acoustical Society of America and the US Antarctic Service Medal.

#### Abstract:

Sound allows us to investigate the ocean on a much finer time scales than other methods of study as it is feasible to collect continuous underwater recordings over months or years at a time. At the same time, sound is critical for successful functioning of many marine animals. It helps them find food and mates, fend off threats, and sense their environment. I will present case studies that highlight how we have been gaining valuable ecological and biological knowledge about baleen whale and fish species through long-term passive acoustic monitoring effort. Some of these highlights include an improved understanding of animal occurrence and coupling of the occurrence of predators and prey into dynamic ecosystem patterns dynamics, leading ultimately to a fuller understanding of their roles in the ocean. In addition, I will reflect on the concerns that increases in ocean sound levels raise regarding functioning of marine life and ecosystems, again highlighting the issues via several case studies. Effects of exposure to seismic noise studies also show mixed impact across taxa. In lab-based experiments, we found that exposures to sounds of seismic airguns on red drum (*Sciaenops ocellatus*) juveniles did not induce an increase in water-borne and tissue-measured steroid hormone levels. Pile driving noise often results in hearing impairment in marine mammals and injury in fishes. Currently, impacts from other industrial noise sources are poorly documented across taxa. One such source of increasing interest is offshore wind farms. In 2023 and 2024, we conducted microcosm and mesocosm experiments to investigate the response of plankton community to sounds of operational wind farms. Our preliminary results indicate impacts across trophic levels. Overall, given the limited number of species used in noise impact experiments, development of categorizing principles and modeled response pathways will be necessary to better elucidate mechanistic framework for observed impacts. Combined with multi-stressor impact assessment framework and integration and interplay of effects across ecosystems, improved understanding of underlying impact mechanisms should contribute to a better understanding and ultimately a more efficient management of marine resources.



# Plenary Sessions

## Plenary Session 2

### **AI for Acoustics: Recognition, Captioning, Visualization, Separation and Generation of Everyday Sounds**

**Author:** Prof. Mark Plumbley

**Affiliation:** University of Surrey, UK

**Date:** Tuesday, June 24th



#### **Biography:**

Prof. Mark Plumbley is Professor of Signal Processing at the Centre for Vision, Speech and Signal Processing (CVSSP) at the University of Surrey, in Guildford, UK. He is an expert on analysis and processing of audio, using a wide range of signal processing and machine learning methods. He led the first international data challenge on Detection and Classification of Acoustic Scenes and Events (DCASE), and is a co-editor of the book "Computational Analysis of Sound Scenes and Events" (Springer, 2018). He currently holds a 5-year EPSRC Fellowship "AI for Sound" on automatic recognition of everyday sounds. He is a Member of the IEEE Signal Processing Society Technical Committee on Audio and Acoustic Signal Processing, and a Fellow of the IET and IEEE.

#### **Abstract:**

The last few years has seen a rapid increase of interest in the application of AI to everyday sounds. Starting a decade ago with acoustic scene classification and sound event detection, the challenges and workshops on Detection and Classification of Acoustic Scenes and Events (DCASE) have brought together researchers from academia and industry to establish a new research community. In this talk, I will highlight some of the work taking place in this area at the University of Surrey, including pretrained audio neural networks (PANNs), audio captioning, audio visualization, audio source separation and audio generation (AudioLDM). I will also mention some cross-cutting issues such as dataset collection, algorithm efficiency, and large language models (LLMs), and discuss how we might design future AI applications for acoustics, to benefit of people and society.

# Plenary Sessions

## Plenary Session 3

### Standardizing soundscape perception and other tales

**Author:** Francesco Aletta

**Affiliation:** University College London, UK

**Date:** Wednesday, June 25th



#### Biography:

Dr Francesco Aletta is a Lecturer in Building Physics and Soundscape at Institute for Environmental Design and Engineering, University College London (UCL). His research focuses on environmental acoustics and soundscape studies. Francesco is committed to advancing soundscape research through his contribution to the ISO 12913 series on soundscapes, which provides a comprehensive framework for assessing and managing urban sound environments. Francesco's research has informed international policy discussions. He authored a United Nations Environment Programme report in 2022, addressing emerging environmental concerns related to noise and its impact on public health and urban environments. His work is frequently referred in policy documents and guidelines aimed at promoting healthier and more sustainable sound environments globally. As part of his standardization efforts, Francesco coordinated the Soundscape Attributes Translation Project, an international collaboration of more than 100 scholars worldwide. He is also an active member of editorial boards for leading journals, including the Journal of the Acoustical Society of America (Coordinating Editor for TC Noise), and member of the organizing committee of several international conferences, including the Urban Sound Symposium, and the Lancet UK Public Health Science Conference. Francesco is a member of the Italian Acoustical Society (AIA), the Acoustical Society of America (ASA), and serves as secretary of the Technical Committee Noise of the European Acoustics Association (EAA). With over 200 publications, 6,000 citations and multiple awards, including the ASA Science Communication Award in 2023, Francesco aims to contribute to the global discourse on soundscape design, urban acoustics, and public health.

#### Abstract:

The way we experience soundscapes is deeply personal, shaped by cultural, environmental, and psychological factors. Yet, as urbanization accelerates and noise management becomes a global priority, the need for standardized approaches to assessing and designing soundscapes has never been greater. This keynote explores the evolving efforts to establish frameworks for soundscape perception, from the development of international standards to the challenges of ensuring their widespread adoption. While standardization provides a necessary foundation for consistency, the reality of soundscape experience is far from universal. People from different cultural and linguistic backgrounds perceive, interpret, and encode sounds in diverse ways, highlighting the limitations of rigid frameworks. Addressing this complexity requires a balance between structured methodologies and adaptability to local contexts. Advances in cross-cultural research and translation efforts are helping to refine these approaches, making soundscape assessment more inclusive and representative. At the same time, new methods for quantifying soundscape quality are emerging, offering ways to integrate perceptual and contextual dimensions into meaningful metrics. These developments not only enhance our ability to compare and evaluate soundscapes but also provide valuable tools for urban planners, policymakers, and designers to create environments that support well-being. This talk will explore the intersection of standardization, perception, and measurement, reflecting on how soundscapes can be assessed in a way that respects both scientific rigor and human experience.

# Plenary Sessions

## Plenary Session 4

### Sculpting sound fields with acoustic holograms

**Author:** Dr. Noé Jiménez

**Affiliation:** Spanish Research Council (CSIC), Spain

**Date:** Thursday, June 26th



#### Biography:

Noé Jiménez is a Senior Scientist at the CSIC since 2024. He develops his work at the Institute of Instrumentation for Molecular Imaging, a joint centre of the Universitat Politècnica de València (UPV) and the CSIC. He is a Telecommunications Engineer, holds a Master's degree in acoustics and a PhD (2015) from the UPV. He has been a Ramón y Cajal senior researcher, Juan de la Cierva - Incorporation, Juan de la Cierva - Training, has worked at the CNRS (France) as a postdoctoral researcher for two years, and has made stays at Columbia University (NYC, USA), the University of Salford (UK), and the University of Le Mans (France). He has over 15 years' experience in developing imaging and therapeutic ultrasound systems, wavefront shaping techniques and acoustic metamaterials. His recent research interest ranges from the application of acoustic metamaterials for biomedical ultrasound applications, novel therapeutic ultrasound techniques, acoustic holograms, and acoustic vortices.

#### Abstract:

Using optical holograms, we can modulate light wavefronts to generate visible images. Can we do the same with sound waves? Acoustic holograms can render sonic images, shaping the areas where mechanical waves present a high amplitude, and areas where the media is at rest. In this plenary talk, we will present an overview of the use of acoustic holograms, and how they can be applied in biomedical ultrasound applications, in particular in emerging therapeutic applications of focused ultrasound, but also in other fields like audible engineering acoustics or contactless particle trapping, to tailor sound waves in unprecedented ways.





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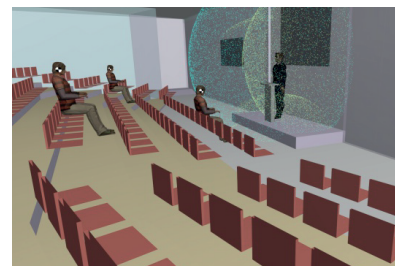
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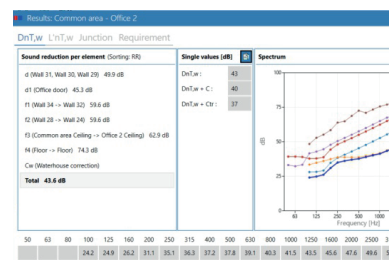
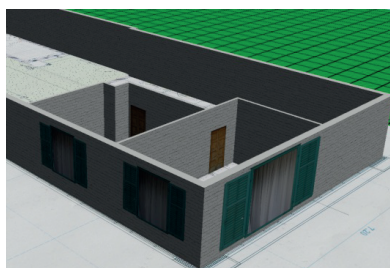
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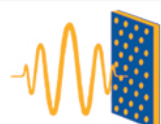
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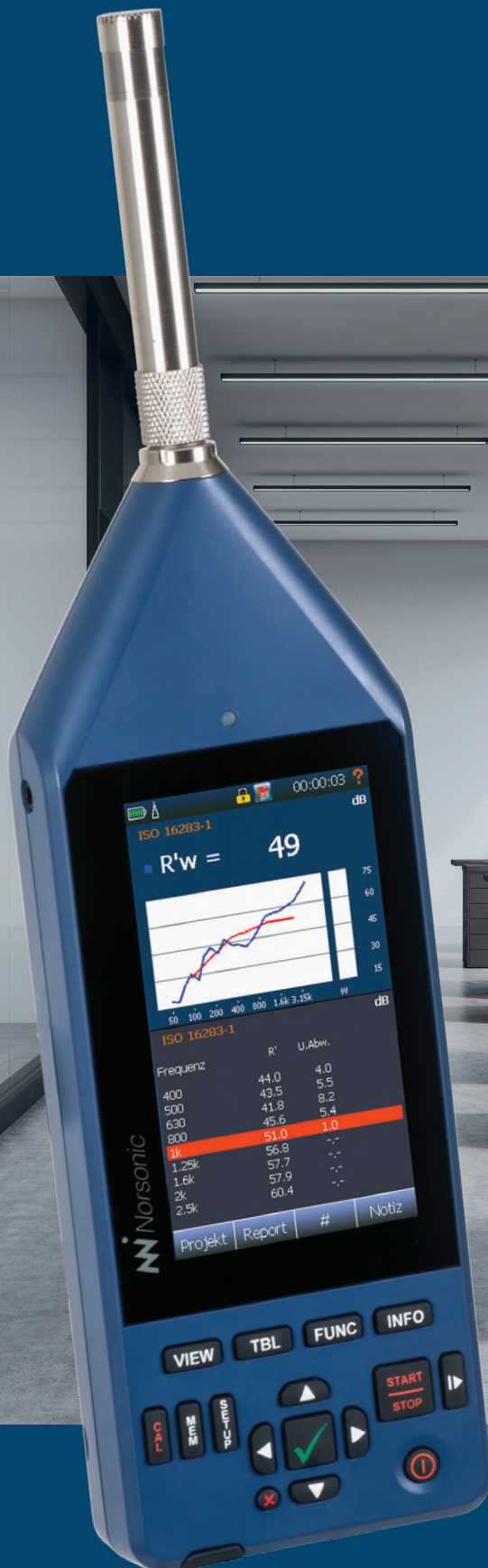
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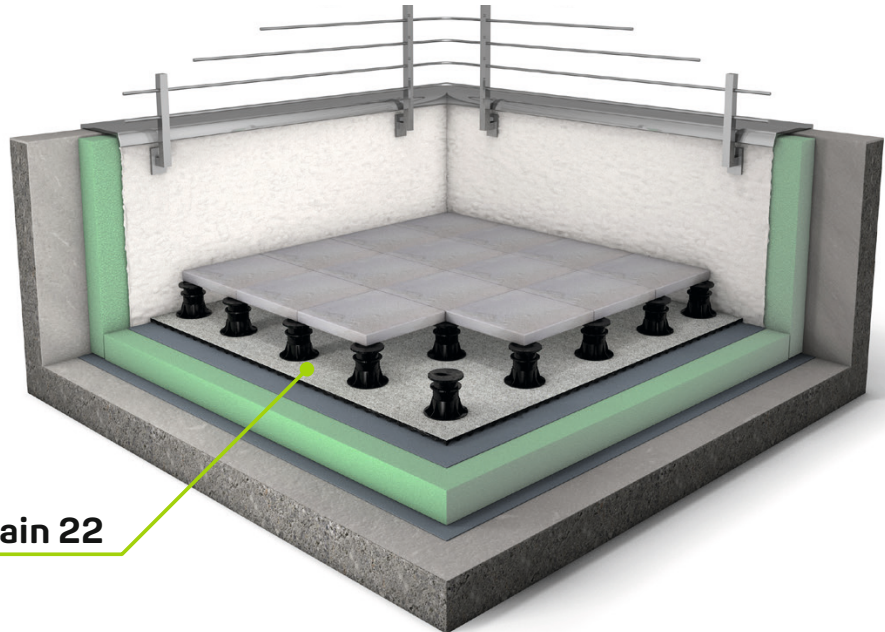


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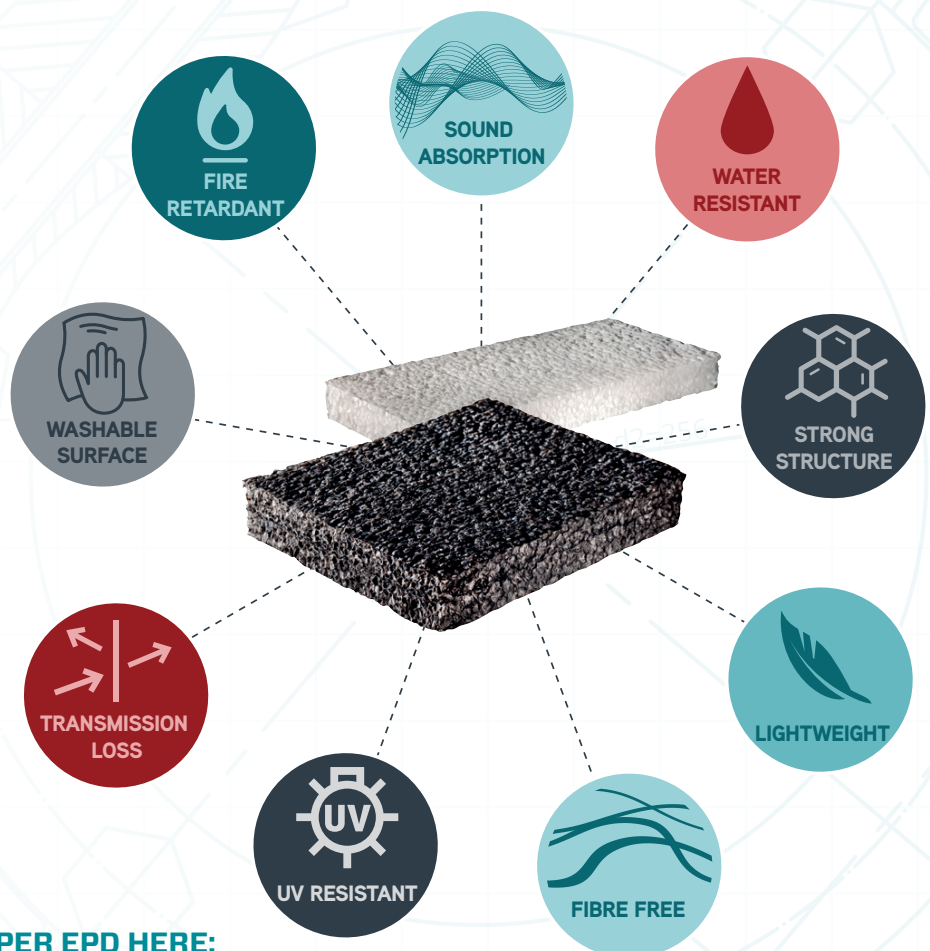
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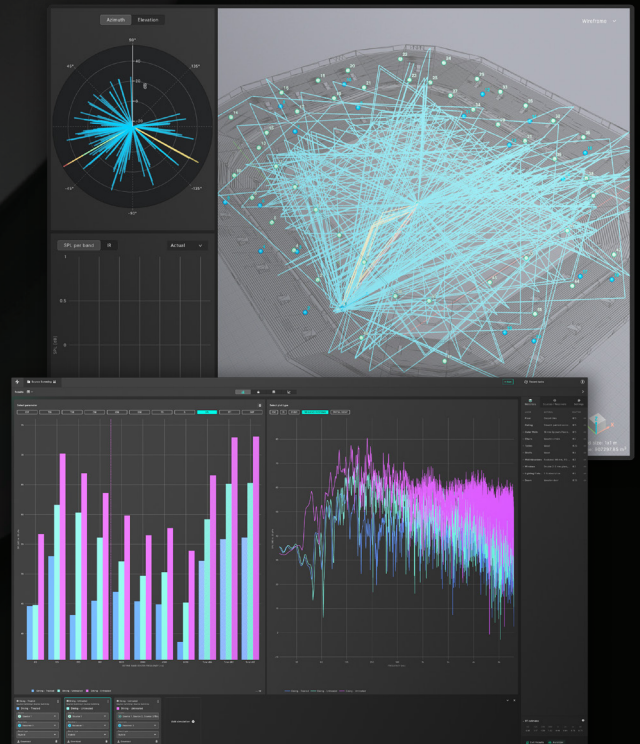
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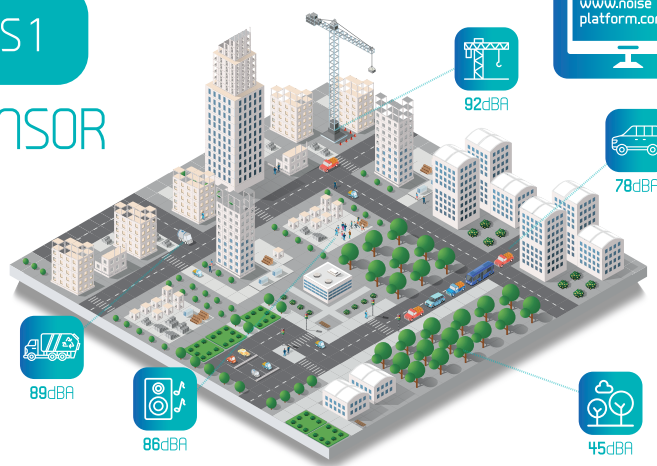
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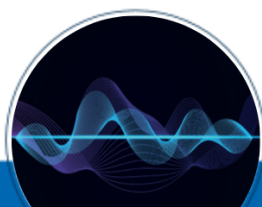
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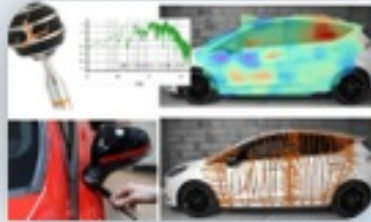
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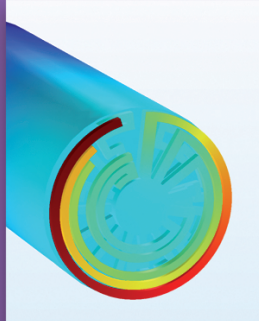
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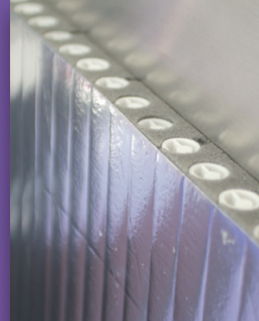


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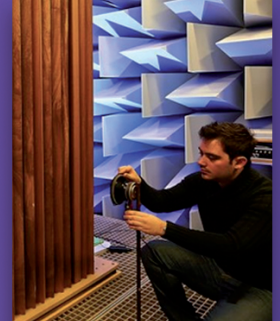
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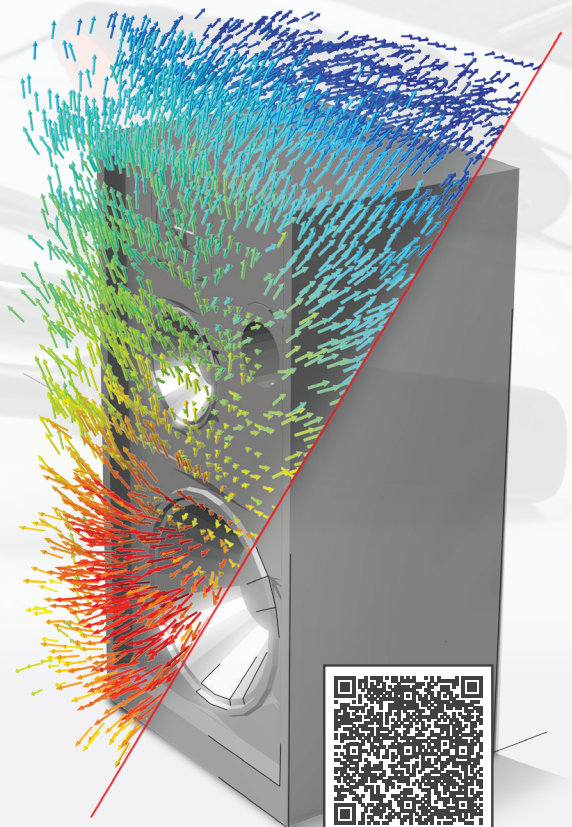
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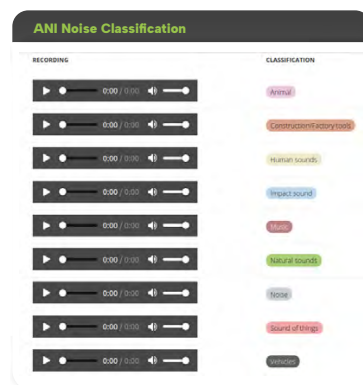


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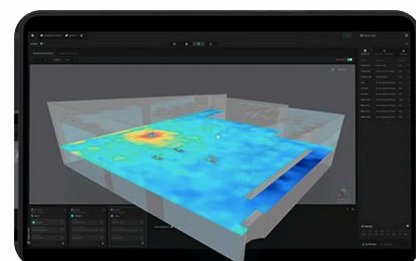
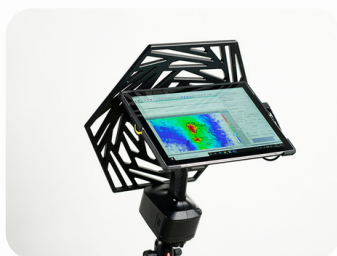


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