Your technology partner for digital transformation

www.eurecat.org
Eurecat, Catalonia’s leading research and applied technological organisation brings together the expertise of 750 professionals.

Serving more than 1,700 companies, Eurecat is involved in more than 200 national and international R&D projects with high strategic value.

Eurecat has R&D teams specialised in image processing, 3D audio and computational social science, trustful data-centric ecosystems, AI & Data Science, evaluation of cognitive and emotional impact, interactive technologies and strategies for the innovation and economic growth of the cultural and creative industries.

Eurecat has extensive experience working with public and private companies in the sector and has the necessary technological infrastructures to create knowledge and transfer technology to companies, public entities and institutions.

Eurecat strives to innovate in the displaying and management of cultural heritage, as well as in the development of culture-based leisure and tourism projects through the application of cutting-edge ICT and media technologies.
Leading infrastructures

Perception and cognition laboratories

Biometric equipment and behavioural measurements to objectively understand human information processing on the level of perception, cognition and emotional in real-time. User experience modelling.

3D audio laboratory

3D audio laboratory totally equipped with the latest technology.

Eurecat created Sfēar, a production and postproduction technology for audiovisual content with immersive sound.

We are recognized as a KET Technology Centre by the European Commission thanks to our close collaboration with SMEs on their market-oriented research and innovation activities. We bring the most cutting-edge technologies closer to the productive fabric in a bid to initiate the move towards a more efficient and sustainable productive model.

+ 35 laboratories in:

- Industrial and collaborative robotics
- Additive manufacturing
- Technical assistance for moulds and material processes
- Surface treatment for functional printing
- Textile technology and high-performance fabrics.
- IoT Cybersecurity Lab, etc.

+ Data Science Clusters
The RIS3CAT Media community is an initiative to promote innovation within the Catalan creative and cultural industries by developing a joint plan and overseeing its execution.

Eurecat acts as the coordinating entity in a group of 35 companies and research institutions to bring this plan into fulfillment. Our role includes:

• Guaranteeing free-flowing communication and alignment between members of the community.

• Establishing working relationships within the CCI sector and other entities that are outside of the community.

• Coordination of the activities led by the community. Promoting events and dissemination activities and the relevance of innovation within the CCI sector.
Audio technologies for the CCI sector

Binaural music production

- Minimum hardware requirements.
- Highly effective audio experiences for personal use.

Multi-channel audio systems

- Unique multi-channel installations for events and live music.
- Full control over sound placement in 3D Space, regardless of physical layout.
Binaural audio technologies

Why binaural audio?

With a mature technological stack, and easy deployment over conventional stereo headphones, binaural audio provides a level of intimacy and immersiveness in any audio production, and takes advantage of the widespread use of headphones for audio content consumption.

Audiobooks, Podcasts and Advertisement

Extend the immersiveness of audio stories, interviews, social media content and advertisements with our binaural audio technologies and offer new depth to your existing content.

We can work with existing audio content or generate it using custom microphones to provide the best audio experience for individual use, requiring only the use of headphones.

Listen to audiobooks

Listen to advertisements

Music Productions in new formats

With extensive background in music production and our custom developed tools we can bring your music into new formats, for VR/AR applications, 360 videos using the defacto standard of Ambisonics.

From first-order ambisonics for using in streaming platforms, to high-order ambisonics for pinpoint accuracy in sound placement, we can bring your content to the next breakthrough format.
Mixing gastronomy and an all-around sensory experience, the Ovnew restaurant promises to deliver a unique dining experience.

Eurecat has designed and installed the new immersive audio system in the Ovnew restaurant, at the top of the Hesperia tower (Barcelona); with a total of 60 loudspeakers, audio synchronization with the lighting system, and live playback capabilities, Ovnew provides an unparalleled audio experience.
With minimum latency requirements in mind, our system can be used with live musicians, DJs, backing tracks, and bespoke 3D audio content.

Live music

Emotional connection

Track Record

Truly immersive 3D audio systems provide a completely novel experience. Whether is for media, advertising, music festival, our Immersive audio spaces connect with the audience in a unique way.

Eurecat has a mature technology, proven through more than 15 years of experience in the design and installation of immersive audio spaces in multiple contexts, and the ability to customize it for your event.
The installation on the Castell de Montjuïc, “Postals sonores de Barcelona” has been developed by Eurecat to transport visitors to different landmark locations within the city and experience travelling to them using their ears.

The new multi-sensory experience in Barcelona’s revamped wax museum uses Eurecat’s technology to enhance the 360 video displays on to give users the sensation of being in an elevator and soaring through the city.

Multi-channel audio systems have the capacity of transporting users to new places, to enhance already interactive experiences and to give an extra layer of sensory information for added realism.
Without Eurecat, Sfēar and, therefore, 3D technology wouldn’t exist. It was Eurecat who managed and designed the studio.

The first recording studio in the world designed to work with 3D technology

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We like to develop long-term relationships with strong partners in the field to push innovation in the sector and introduce new technologies into their products and services.

Creation of new projects and the search for new business opportunities with Eurecat

"Our partnership with Eurecat is geared towards the future because it complements our know-how and technology with the ambition of being innovative and identifying both regional and international opportunities to work together."

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