

The background of the slide is a dark, dense rainforest scene. Overlaid on this are several horizontal, wavy lines in shades of blue, green, and red, which appear to be audio waveforms or spectral analysis plots, suggesting the theme of bio-acoustics.

HOA LATAM-ASIA: Rainforest Bio-Acoustic Sandbox Bridging High-Order Ambisonics, Ecological Preservation & Music Tech

La Fortuna, Costa Rica | November 6–8

The Sandbox & Living Lab Concept A living ecosystem where industry leaders, academic researchers, and spatial pioneers deploy 3D audio arrays directly into the Costa Rican canopy. The project leverages high-resolution spatial audio to capture biodiversity, safeguard bio-acoustic heritage, and stress-test hardware and software under extreme environmental conditions.

Core Pillars

Bio-Acoustics & Cultural Archive: Real-time 3D biodiversity mapping for ecological preservation and environmental research.

Hardware Stress Testing: Environmental benchmarking for microphone arrays (Yaguarundí), consoles, preamps, and monitors under high humidity and heat.

Spatial Media & XR Frontier: Deploying 1st to 7th order HOA for 360° cinema, interactive VR/gaming spatial engines, and broadcast standards.

Nocturnal Immersive AV Dome: A central geodesic dome powered by 360° spatial projections and generative synthesis, merging live jungle soundscapes with ambient electronic synthesis.

Community & Impact

Validation Ecosystem: Field benchmarking led by AES producers, SMC researchers, Radio France Labo engineers, and global brands.

Diversity & Leadership: Backed by global networks such as WEF, SoundGirls, and All Ladies League to champion female leadership in cutting-edge music tech.

Sponsorship & Brand Integration

Hardware & Software Field Testing: Strategic slots for audio brands to benchmark their tech in real-world extreme conditions.

Brand Positioning: Direct exposure within the living lab, product integration in the AV dome, and citations in academic papers.

ESG & Cultural Impact: Direct alignment with biodiversity conservation and purpose-driven technology.



Connect With Us

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