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# Κύμα

## Quantum AI Emotion Music Tool

# 01\_ Key Facts

Year of foundation: **2022**

Status legal/legal form: **UG**

Visual overview of **strategic business** areas:

The object of the company is the development and management of digital technologies and research, including the provision of services in the fields of **AI**, **audiovisual media**, **quantum computing**.





## 02\_Core Team



**Alessandro De Angelis**

Co-founder / CEO

with a background in business and management, he oversees and directs all projects, ensuring strategic and cohesive operations across disciplines.



**Marco Accardi**

Co-founder | CTO

with a background in computer science and creative computing, is coordinating the development of the project from both a technical and aesthetic perspective.



**Sabrina Pippa**

Head of Communication / Visual Designer

with a background in design and communications, is responsible for web and social media communications.



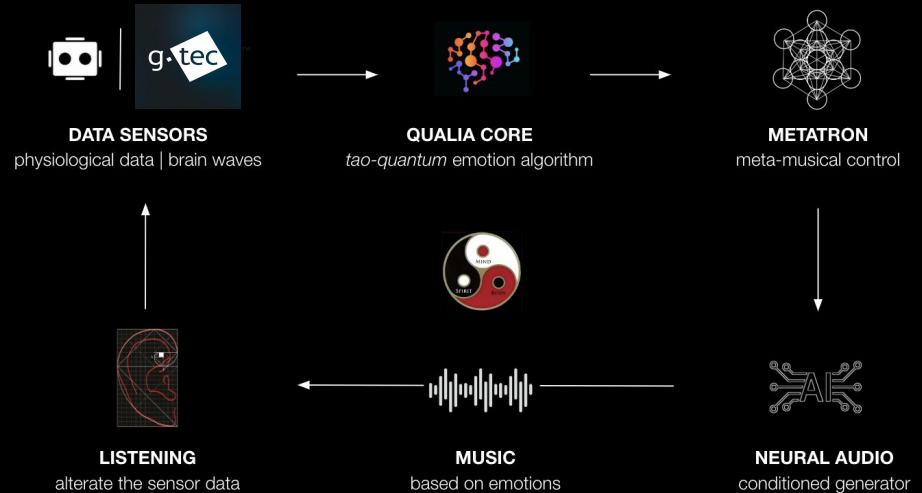
## 03\_The Problem

Traditional music is static and unresponsive to emotions. Personalised, **real-time adaptive music** is in demand in cognitive enhancement, therapeutic applications, and immersive digital environments.



## 04\_Our Solution

κύμα is a quantum-enhanced AI music platform that responds to users' emotional and physiological conditions via biometric data. It provides real-time, generative soundscapes for **cognitive enhancement, therapeutic applications**, and **immersive experiences**.





## 05\_Market Opportunity

**TAM:** 25€ billion+ (AI-powered music, adaptive audio technologies, and therapeutic applications).

**SAM:** 5B€ (Adaptive Audio Solutions for Medical, Research, and Interactive Environments)

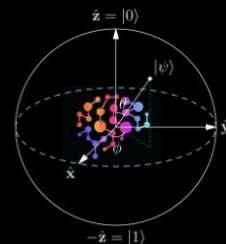
**SOM:** 500M€+ (Mental health, cognitive training, immersive VR, corporate wellness, real-time adaptive sound driven by biometrics)

The demand for real-time adaptive audio solutions is growing across a variety of industries.

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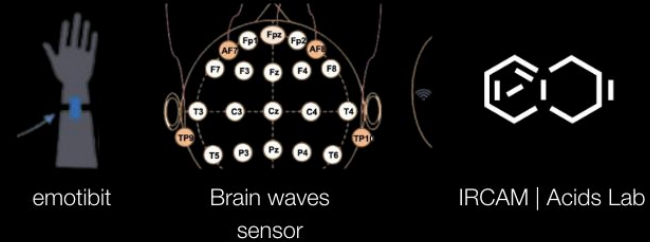


## 06\_Unique Selling Proposition

The Quantum Emotional Algorithm (QEA) facilitates profound real-time customization of music based on emotional responses.

Biometric integration guarantees accurate emotional mapping via EEG and physiological data.

Applications across multiple sectors: Healthcare, Music, Virtual/Augmented Reality, Research, and Entertainment.







## 07\_Business Model

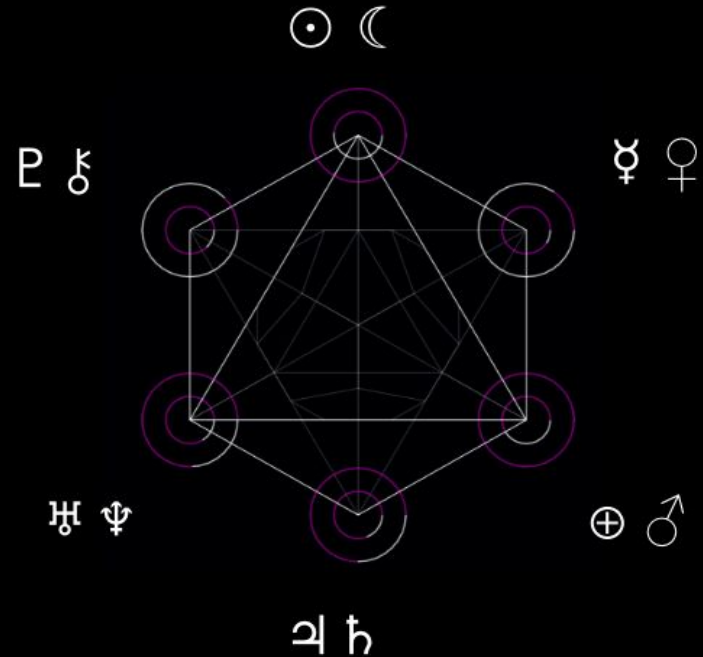
Subscription Model: Adaptive real-time soundscapes for individuals & businesses

Subscriptions: Enterprise Licensing – Health, research, corporate environments.

Custom solutions: Museums, events, exhibitions.

B2B Partnerships: Licensing for streaming and Media platforms.

Research and grants: EU projects, academic and industry leaders partnerships.





## 08\_Extended Application & Use cases

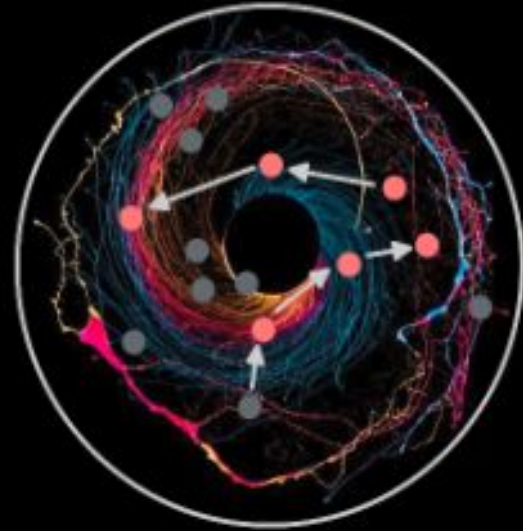
**Mental Health & Therapy** – Stress, PTSD, depression, pain relief.

**Cognitive Training** – ADHD, memory support, stroke rehab.

**Sleep Science** – Insomnia treatment, lucid dream induction.

**BCI & Assistive Tech** – Communication & prosthetics control.

**Music Therapy** – EEG-driven personalized therapeutic music.





## 09\_Competitive Advantage

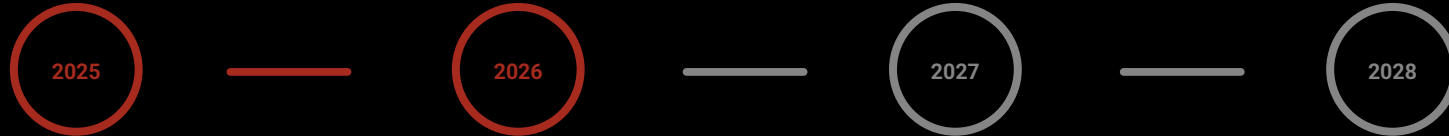
κύμα stands out from competitors like Brain.fm and Endel by:

- Using **quantum-enhanced generative AI** for real-time sonic creation.
- Biometric feedback for **personalised soundscapes**.
- Next-gen computing with **HPC**: real-time performance, low-latency, and adaptive **scalability** for the future.
- Collaborating with globally renowned **research** institutions.





## 10\_Timeline



QEA development, research collaborations, biometric testing, obtaining EU financing, and attracting deep tech investors.

Pilot tests in the business, healthcare, and VR/AR industries, collaborations with research institutes, and product refining.

Market entry through subscriptions and enterprise licensing, streaming and immersive technology collaborations, revenue growth.

Global expansion into the United States, Europe, and Asia, AI and biometric integration, widespread adoption, and advanced monetization.



## 11\_Financial

Category	Estimated Budget (2025-2028)
Core Team (AI engineers, sound designers, biometric experts)	2.5M – 3.5M
Quantum Computing & HPC Access	1M – 1.5M
AI & Audio Processing Infrastructure	600K – 900K
Biometric R&D & Algorithm Development	1M – 1.5M
Research Dissemination & Scientific Validation	400K – 600K
Marketing, Events & Global Partnerships	500K – 800K
<b>Total Investment Need</b>	<b>6M – 9.8M</b>

### Key Assumptions & Growth Strategy

**2025-2026:** Focus on **product development**, **initial commercialization**, and **partnerships**, leveraging the secured **1M€ funding** and the existing 4M€ EIC grant.

**2027:** Expansion of **AI capabilities**, **scaling product design**, and **growing industry partnerships**. Anticipate a potential **Series A funding round** to fuel further expansion.

**2028:** Full commercial launch, increased **market adoption**, and **international partnerships**, ensuring a pathway to **profitability and revenue generation**.



## 12\_Market Vision & Strategic Positioning

KÚMA: Merging Emotion, Technology & Sound

- As adaptive and personalized media gain traction across wellness, entertainment, and healthcare, KÚMA uniquely sits at the convergence of:
  - AI-driven real-time adaptive audio.
  - Real-time biometric analysis.
  - Quantum-enhanced generative algorithms.
- Positioned as the first Quantum AI-powered music and sound platform, KÚMA's flexibility allows it to serve:
  - Healthcare & mental health professionals.
  - Neuroscientific researchers.
  - Corporate wellness programs.
  - Immersive entertainment creators.
- By combining scientific research, innovation, and deep technology, KÚMA is building the future of emotion-responsive environments.



Thank you!

