

REAL-TIME, RESOURCE-EFFICIENT VOICE AI for Edge & Distributed Computing

CandyVoice | French Deep-Tech | Voice AI • Embedded AI • Edge AI • Distributed Computing

Mature, ultra-low-latency Voice AI technologies designed for deployment from constrained embedded hardware to edge and distributed infrastructures.



► WHY CANDYVOICE?



CandyVoice specialises in **real-time AI** and DSP technologies for voice processing, combining advanced Voice AI with optimisation for **ultra-low-latency** and **resource-constrained** execution.



Our distinctive expertise is making advanced Voice AI **deployable** from constrained embedded hardware to edge and distributed infrastructures — enabling processing close to the data source with low computational requirements, **privacy** and **resilience**.

► OUR CORE VOICE AI EXPERTISE



Edge AI Speech Enhancement
Real-time noise reduction for extreme acoustic environments.



Resilient Voice Processing
Packet-loss recovery for degraded network conditions.



Privacy-Preserving Voice AI
Real-time anonymisation protecting biometric identity.



Trustworthy Voice AI
Real-time voice deepfake detection.



Real-Time Voice Imitation
Ultra-low-latency voice imitation and transformation.



Embedded & Edge AI Optimisation
Real-time inference on MCU, DSP, NPU and SoC platforms.

► PROVEN PERFORMANCE ON CONSTRAINED HARDWARE



330k
Parameters for **embedded AI** speech enhancement*



2.33 ms
Inference for 5 ms audio frames*



16 ms
Low processing latency*



MCU + NPU
Deployment on constrained hardware*



50%
Voice continuity with up to 50% packet loss*



TRL 6–8
Depending on component / use case



International Critical Communications Award (ICCA 2026) – “Best Use of Advanced Technology”

► FROM EMBEDDED AI TO DISTRIBUTED INFRASTRUCTURES

CONSTRAINED DEVICE



MCU / DSP / NPU / SoC



EDGE



Edge Node / Gateway



DISTRIBUTED INFRASTRUCTURE



Server / Distributed Platform

✓ Local Processing ✓ Ultra-Low Latency ✓ Resource-Efficient ✓ Private ✓ Resilient

► VALUE FOR EUROPEAN R&D PROJECTS



Mature, integration-ready Voice AI technology components



Resource-efficient AI workloads for heterogeneous and distributed computing



Embedded & Edge AI optimisation and integration expertise



Real-world use cases for experimentation, benchmarking and validation

► CURRENT HORIZON EUROPE TARGETS



HORIZON-CL4-2027-04-DATA-03
Decentralised, Federated & Sustainable AI Processing

Resource-efficient workloads across heterogeneous compute.



HORIZON-CL4-2027-04-DATA-08
Distributed Computing & Edge AI

Real-time AI workloads for distributed architectures.

► LOOKING FOR R&D & TECHNOLOGY PARTNERSHIPS



Seeking Horizon Europe coordinators, research organisations, Edge/Cloud platforms, hardware/semiconductor partners, system integrators and industrial end users.

ROLE: Voice AI technology partner for components, Edge integration, workloads and validation.

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* Performance figures refer to selected CandyVoice technology implementations and configurations.