

HORIZON-CL4-2027-04-DATA-08

Edge AI & Real-Time Voice Technology Partner for Distributed Computing

CandyVoice | French Deep-Tech | Real-Time Voice AI • Edge AI • Embedded AI



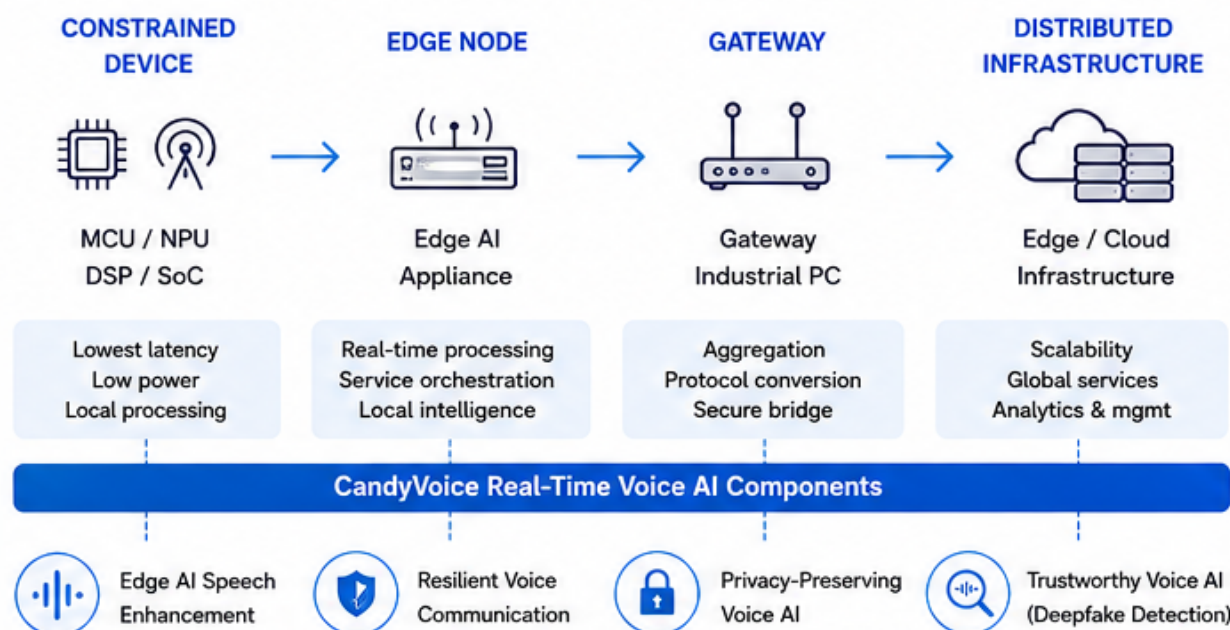
CandyVoice is looking to join a consortium preparing a proposal for HORIZON-CL4-2027-04-DATA-08 as a specialised technology partner.

► WHY CANDYVOICE FOR DATA-08?

CandyVoice develops resource-efficient AI/DSP technologies for real-time voice processing, designed to operate across embedded devices, edge nodes, gateways and distributed infrastructures.

CandyVoice brings **mature, measurable and demanding Edge AI workloads** that can help demonstrate and validate distributed computing technologies under real-world constraints: limited computing resources, strict latency, degraded connectivity, bandwidth limitations and sensitive data.

CANDYVOICE REAL-TIME VOICE AI ACROSS THE DISTRIBUTED CONTINUUM



► TECHNOLOGIES WE CAN BRING



Edge AI Speech Enhancement

Real-time speech enhancement and noise reduction for challenging acoustic environments, optimised for constrained edge hardware.



Resilient Voice Communication

Packet loss recovery for reliable communications under constrained network conditions.



Privacy-Preserving Voice AI

Real-time voice anonymisation protecting biometric identity while preserving intelligibility and natural communication.



Trustworthy Voice AI

Real-time voice deepfake detection supporting authenticity and trust in distributed voice services.

► POTENTIAL CONTRIBUTION TO THE PROJECT



• Mature Edge AI components deployable from constrained devices to edge and server infrastructures



• Real-time AI workloads for distributed execution, placement and orchestration experiments



• Heterogeneous computing scenarios, from MCU/NPU-class devices to gateways and infrastructure



• Privacy-sensitive workloads where voice data should be processed locally or close to its source



• Network-constrained scenarios involving limited bandwidth, latency and severe packet loss



• Integration and validation use cases for evaluating distributed AI architectures under real-world operating constraints

► WHAT MAKES US DIFFERENT



16 ms

Processing latency*



330k

Parameters for embedded speech enhancement*



2.33 ms

Inference for 5 ms audio frames*



50%

Voice continuity with up to 50% packet loss*



TRL 6-8

Depending on component/ use case



ICCA 2026

Best Use of Advanced Technology

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

► LOOKING TO JOIN A DATA-08 CONSORTIUM



CandyVoice seeks to collaborate with coordinators, research organisations, distributed and edge computing platform providers, telecom and infrastructure providers, system integrators and industrial end users.



ROLE: Technology partner providing mature Voice AI components, embedded/edge integration expertise and demanding real-time workloads for experimentation and validation.

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