

HORIZON-CL4-2027-04-DATA-03

Decentralized, Federated & Sustainable AI Processing

CandyVoice | French Deep-Tech | Resource-Efficient Voice AI • Embedded AI • Edge AI



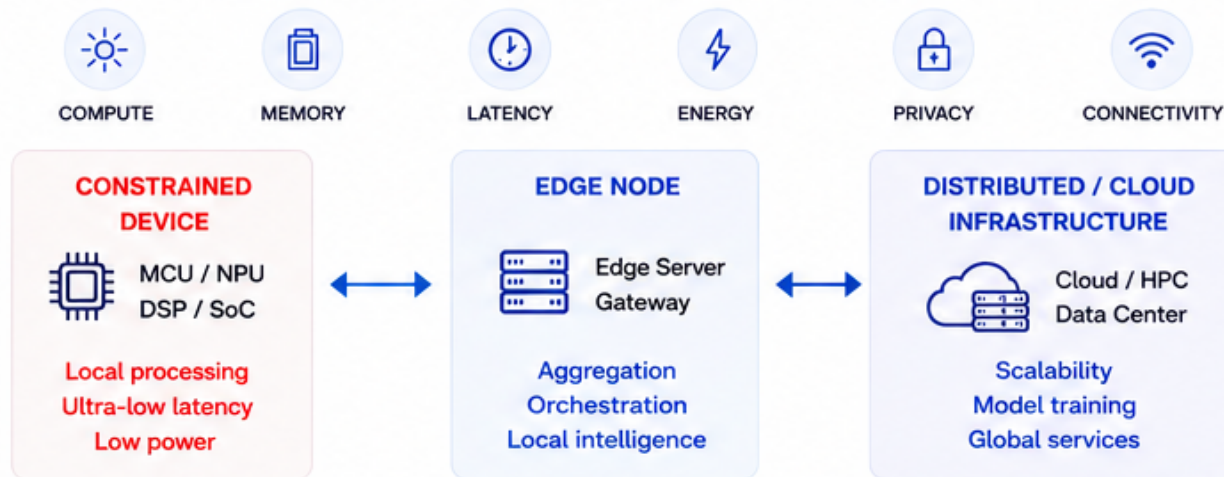
CandyVoice is looking to join a consortium preparing a proposal for HORIZON-CL4-2027-04-DATA-03 as a specialised Edge AI technology and use-case partner.

► WHY CANDYVOICE FOR DATA-03?

CandyVoice develops highly resource-efficient AI/DSP technologies for real-time voice processing, designed to run locally on constrained hardware and across heterogeneous edge computing environments.

Our **mature** Voice AI technologies provide **measurable real-world workloads** for demonstrating decentralised AI processing under strict constraints of compute capacity, energy, latency, connectivity, data privacy and hardware availability.

REAL-TIME VOICE AI WORKLOAD ACROSS THE COMPUTE CONTINUUM



Decentralised, Federated & Sustainable AI Processing

CANDYVOICE VOICE AI WORKLOADS



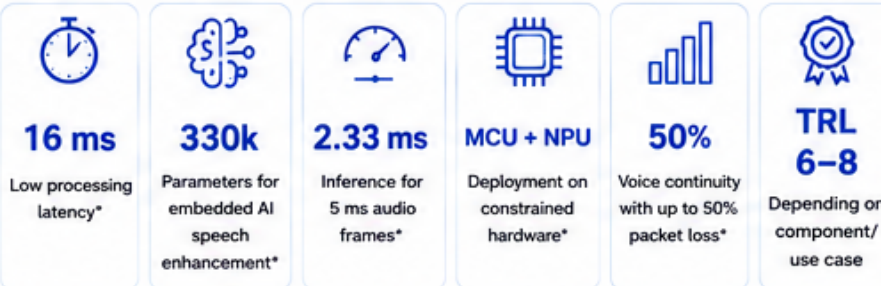
► TECHNOLOGIES WE CAN BRING

- Embedded Edge AI Speech Enhancement**
Highly resource-efficient AI speech enhancement for real-time execution on constrained MCU/NPU-class hardware.
- Resilient Voice Processing**
Packet loss recovery for reliable processing and communications under constrained network conditions.
- Privacy-Preserving Voice AI**
Real-time voice anonymisation enabling sensitive biometric voice data to be processed locally while preserving intelligibility.
- Trustworthy Voice AI**
Real-time voice deepfake detection providing demanding AI inference workloads for distributed and edge environments.

► POTENTIAL CONTRIBUTION TO THE PROJECT

- Resource-efficient AI workloads for evaluating decentralised and federated compute architectures across heterogeneous computing resources
- Embedded-to-edge deployment scenarios, from MCU/NPU-class hardware to edge nodes and server infrastructures
- Hardware-efficient AI models for evaluating trade-offs between compute, memory, latency and energy consumption
- Privacy-sensitive voice workloads supporting local processing and distributed data architectures
- Network-constrained scenarios involving limited bandwidth, degraded connectivity and packet loss
- Real-world use cases and validation scenarios for assessing performance, scalability, sustainability and reproducibility

► WHAT MAKES US DIFFERENT



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

► A REAL-WORLD AI USE CASE FOR DATA-03

Real-time voice processing combines continuous data streams, strict latency requirements, sensitive biometric data, constrained computing resources and variable network conditions – making it a **demanding real-world use case** for validating decentralised, heterogeneous and sustainable AI processing.

► LOOKING TO JOIN A DATA-03 CONSORTIUM



CandyVoice seeks to collaborate with coordinators, research organisations, decentralised AI and edge/cloud platform providers, hardware and semiconductor partners, telecom/infrastructure providers, system integrators and industrial end users.



ROLE: Technology and use-case partner providing mature resource-efficient Voice AI components, embedded/edge integration expertise and demanding real-world workloads for experimentation, benchmarking and validation.

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