



# EchoHuman Ecosystem

## Local AI Infrastructure Overview

Vera + Helsinki2 Architecture | May 2026

## **DISTRIBUTED LOCAL AI ARCHITECTURE**

EchoHuman operates across a dual-node infrastructure combining local processing with distributed coordination

## **CONTEXT**

Vera serves as the local machine while Helsinki2 provides distributed infrastructure support for the Civic Mesh project stack

# Infrastructure Components

## System Metrics

**2**

INFRASTRUCTURE  
NODES

**stable**

**3**

PROJECT  
COMPONENTS

**expanding**

**100%**

LOCAL PROCESSING

**maintained**

# System Integration Points

- EchoHuman AI models run locally on Vera infrastructure
- Helsinki2 provides distributed backup and coordination services
- Civic Mesh enables community governance and resource sharing
- All components maintain privacy-first, local-first principles

- Cross-node communication uses encrypted protocols
- Failover systems ensure continuous operation
- Modular architecture allows independent component updates
- Open standards enable third-party integration

## Component Responsibilities

Component	Primary Function	Location
EchoHuman AI	Local AI Processing	Vera
Civic Mesh	Community Coordination	Distributed
Infrastructure	System Management	Helsinki2
User Interface	Human Interaction	Vera
Data Storage	Privacy-First Storage	Local + Distributed

Consolidated working map as of May 2026

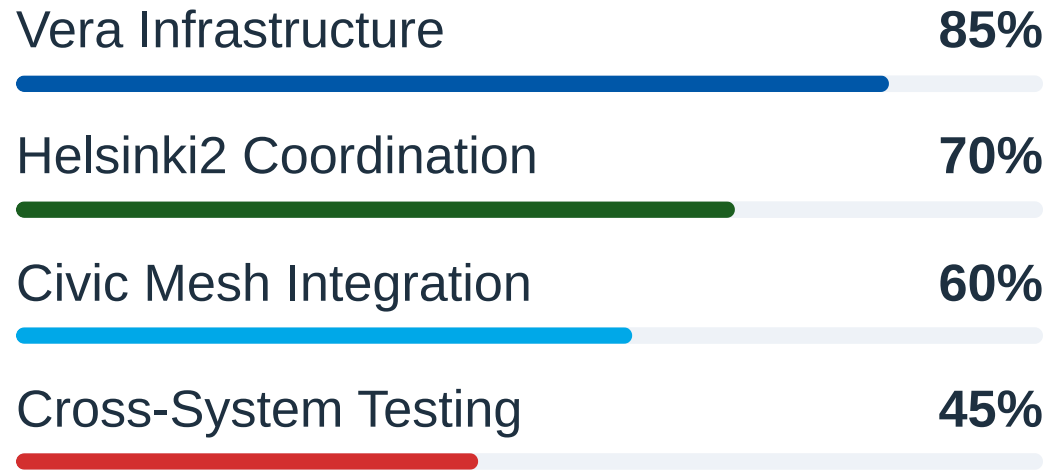
## **LOCAL-FIRST ARCHITECTURE**

All AI processing occurs locally on Vera to maintain privacy and reduce latency, with Helsinki2 providing coordination without compromising local autonomy

# Operational Benefits

- Enhanced privacy through local AI processing
- Reduced latency for real-time applications
- Community autonomy via Civic Mesh governance
- Resilient distributed backup systems
- Scalable modular architecture

## Implementation Status



## Sources

- EchoHuman Ecosystem and Local AI Infrastructure Overview (May 4, 2026)
- Consolidated working map for EchoHuman / Civic Mesh / local AI project stack
- Internal architecture documentation - Vera and Helsinki2 specifications