

SovereignAI Grid Whitepaper

Building Europe's Human■Centered, Sovereign AI Infrastructure
Netherlands Candidate for the EU AI Gigafactory Initiative (EuroHPC JU)

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Executive Summary

SovereignAI Grid represents the Netherlands' proposal for the European AI Gigafactory initiative, submitted under the EuroHPC Joint Undertaking. This whitepaper outlines our vision, technical concept, and societal impact. We aim to combine sovereignty, sustainability, and human value in one transformational infrastructure project.

European Context

Europe faces a digital sovereignty challenge: US and Chinese hyperscalers dominate AI infrastructure. The European Commission launched the AI Gigafactory initiative to establish five large-scale, sovereign AI hubs. SovereignAI Grid positions the Netherlands as a frontrunner by leveraging renewable energy, strategic connectivity, and ethical governance.

Vision & Mission

Our mission: build not just a datacenter, but a sovereign AI infrastructure that makes human value visible. Through concepts such as Human Tokens, empathy and care become measurable and rewarded, creating a new economic model that complements Universal Basic Income (UBI). SovereignAI Grid thus serves both Europe's AI needs and its societal fabric.

Technical Concept

- Capacity: 300 MW scalable AI Gigafactory architecture
- Compute: 100,000+ processors (NVIDIA H100 class or European alternatives)
- Energy: 100% renewable integration via EasySolarGroup
- Cooling: Free-air & liquid cooling with PUE < 1.2
- Connectivity: AMSIX, Eurofiber, KPN, Colt with quantum-safe encryption
- Heat reuse for local industry and communities

Governance & Ethics

SovereignAI Grid applies a democratic stewardship model with citizen panels, academic oversight, and transparent reporting. Our governance aligns with EU regulations, GDPR, GaiaX, and eIDAS 2.0. AI is developed and deployed under European values of privacy, transparency, and accountability.

Economic & Social Impact

- 2,000+ direct jobs and 10,000+ indirect jobs
- Enabler for healthcare, biotech, education, and climate research
- €5+ billion in ecosystem value creation
- Integration of Human Tokens to reward social and empathic contributions
- Local and national growth aligned with Dutch and EU strategies

Roadmap & Timeline

Phase 1 (2025–2026): Design, permitting, consortium building

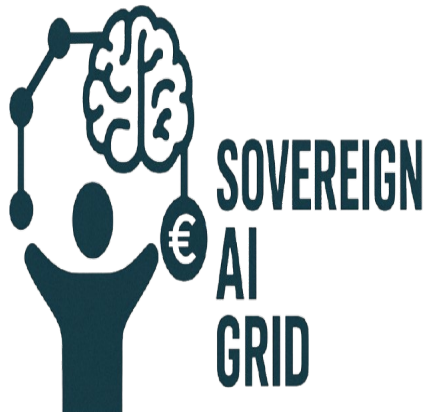
Phase 2 (2026–2027): Construction, initial deployment (25,000 processors)

Phase 3 (2027–2028): Full operation (100,000+ processors), integration with EU digital identity systems

References & Industry Involvement

Several European and global companies are referenced around the EuroHPC AI Gigafactory initiative. Public corporate references are limited; notably, Finland confirmed a Nokia-led consortium bid via a government press release. This appendix aggregates publicly observable references and does not imply endorsement.

Nokia — orchestration & networking: tem.fi press release



SovereignAI Grid — Netherlands

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