

DSAIN

Distributed Sovereign AI Infrastructure Nodes Technology

— Securing Germany's Digital Future Through Distributed Sovereign AI Infrastructure —

BUSINESS MODEL OVERVIEW



BUILDING THE SOVEREIGN AI INFRASTRUCTURE
FOUNDATION FOR EUROPE'S DIGITAL FUTURE



DIGITAL
SOVEREIGNTY



DISTRIBUTED
INFRASTRUCTURE



SUSTAINABLE
FUTURE



SECURE &
RESILIENT



LONG-TERM
VALUE

DEMONSTRATOR NODE 01

 BEDBURG-HAU, GERMANY



2 MW IT LOAD
(EXPANDABLE TO 6 MW)



TIER III
EQUIVALENT



DIRECT-TO-CHIP
LIQUID COOLING



PUE \leq 1.20
REDUNDANCY N+1



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A DISTRIBUTED NETWORK.
A SOVEREIGN FUTURE.
A STRONGER EUROPE.



DSAINTE BUSINESS MODEL OVERVIEW

Distributed Sovereign AI Infrastructure Nodes Technology

Concept Development Document

Tagline:

Securing Germany's Digital Future Through Distributed Sovereign AI Infrastructure

Executive Summary

DSAINTE (Distributed Sovereign AI Infrastructure Nodes Technology) is a European sovereign AI infrastructure initiative focused on developing, owning, and operating a distributed network of AI-ready infrastructure nodes across Germany and Europe.

Unlike traditional AI companies that primarily focus on software, AI models, or ownership of computing hardware, DSAINTE is built around a long-term infrastructure ownership strategy.

DSAINTE creates value through ownership and operation of critical digital infrastructure assets, including land, facilities, power systems, cooling systems, security systems, and connectivity infrastructure.

The business model is designed to generate recurring long-term revenue while supporting European digital sovereignty, infrastructure resilience, and technological competitiveness.

Business Model Vision

Infrastructure Ownership for the AI Era

DSAINTE aims to become a leading European infrastructure platform providing secure, sustainable, and sovereign AI infrastructure environments for:

- Artificial Intelligence workloads
 - High Performance Computing (HPC)
 - Sovereign Cloud Services
 - Government Digital Services
 - Research Institutions
 - Universities
 - Industrial AI Applications
 - Defense and Security Applications
-

Core Business Philosophy

DSAINTE Does Not Primarily Sell AI

DSAINTE does not seek to compete with AI model providers.

Instead, DSAINTE provides the infrastructure foundation on which AI systems operate.

Infrastructure Focus Areas

- Land Ownership
- Facility Ownership
- Power Infrastructure
- Cooling Infrastructure
- Security Infrastructure
- Connectivity Infrastructure
- Facility Operations

This approach creates long-term asset value independent of changes in AI hardware generations.

Revenue Streams

Infrastructure Leasing

Provision of AI-ready infrastructure space to:

- AI companies
- Cloud providers
- Research organizations
- Government agencies
- Defense organizations

Revenue Characteristics

- Long-term contracts
 - Stable recurring revenue
 - Predictable cash flow
-

Power Delivery Services

DSAINTE provides highly reliable power infrastructure supporting AI operations.

Services include:

- Power distribution
- Redundant power systems
- Energy management

Revenue Characteristics

- Usage-based revenue
 - Infrastructure service fees
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Cooling Services

Advanced direct-to-chip liquid cooling infrastructure.

Services include:

- Cooling capacity delivery
- Thermal management
- Energy optimization

Revenue Characteristics

- Recurring operational revenue
 - Scalable with facility growth
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Infrastructure Operations

Comprehensive facility operations services.

Including:

- Site operations
- Infrastructure monitoring
- Technical maintenance
- Facility management

Revenue Characteristics

- Service agreements
 - Long-term operational contracts
-

Security Services

High-security infrastructure environments.

Services include:

- Physical security
- Access management
- Security monitoring
- Critical infrastructure protection

Revenue Characteristics

- Recurring security service fees
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Connectivity Services

Provision of carrier-neutral connectivity infrastructure.

Services include:

- Fiber connectivity
- Network access
- Infrastructure interconnection

Revenue Characteristics

- Monthly recurring revenue
-

Demonstrator Node 01

Location

Bedburg-Hau, Germany

Initial Capacity

2 MW IT Load

Expansion Capacity

Up to 6 MW

Estimated Investment

Approximately €43 Million

Target PUE

≤ 1.20

Cooling Technology

Direct-to-Chip Liquid Cooling

Operational Model

Infrastructure Ownership & Operations

Strategic Advantages

Digital Sovereignty

European-owned infrastructure supporting European organizations.

Distributed Architecture

Multiple nodes reduce concentration risk and improve resilience.

Long-Term Asset Value

Infrastructure assets typically maintain value over significantly longer periods than computing hardware.

Energy Efficiency

Advanced cooling and energy management technologies reduce operational costs.

Municipal Partnerships

Creates opportunities for:

- Economic development
 - Skilled employment
 - Innovation ecosystems
 - Heat reuse integration
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Customer Segments

Government

- Federal agencies
- State governments
- Municipal authorities

Research & Education

- Universities
- Research institutes
- Innovation centers

Industry

- Manufacturing
- Automotive
- Engineering
- Energy companies

Technology Companies

- AI developers
- Cloud providers
- Software companies

Defense & Security

- Strategic technology programs
 - National resilience initiatives
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Sustainability Strategy

Heat Reuse

Potential integration with:

- District heating
- Greenhouse operations
- Community energy systems

Geothermal BTES

Potential implementation of:

- Borehole Thermal Energy Storage
- Seasonal thermal balancing
- Sustainable cooling support

Energy Optimization

- Direct liquid cooling
 - Intelligent infrastructure management
 - Low-PUE design philosophy
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Expansion Strategy

Phase 1

2026

Demonstrator Node 01

Bedburg-Hau, Germany

Phase 2

2028

Three operational German nodes

Phase 3

2032

Six operational German nodes

Phase 4

2036

Twelve core infrastructure nodes

Phase 5

2040

European expansion network

Potential target countries:

- Netherlands
 - Belgium
 - France
 - Denmark
 - Poland
 - Czech Republic
 - Austria
 - Italy
 - Spain
 - Sweden
 - Finland
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Key Value Proposition

DSAINTE combines:

Sovereignty

European-owned infrastructure.

Security

Infrastructure designed for critical workloads.

Scalability

Modular expansion model.

Sustainability

Energy-efficient operations and heat reuse.

Resilience

Distributed infrastructure architecture.

Long-Term Value

Infrastructure ownership model designed for multi-decade asset life.

Conclusion

DSAINTE represents a new category of European infrastructure company focused on enabling the AI economy through ownership and operation of sovereign digital infrastructure.

By combining distributed architecture, sustainable design, infrastructure ownership, and strategic expansion, DSAINTE aims to become a foundational platform supporting Europe's digital future.

Contact

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