



Sovereign AI in action:
building Sweden's
National AI Cloud

atNorth and 6G AI deliver secure, high-performance infrastructure for Sweden's next generation of AI innovation

As artificial intelligence accelerates across industries, the importance of where data is stored, processed, and governed has become increasingly significant. European organizations are facing growing geopolitical and regulatory pressures to maintain control over their digital infrastructure while continuing to innovate at speed.

Recognizing this shift, 6G AI Sweden set out to build a national AI cloud designed to help organizations deliver sovereign, high-performance compute infrastructure that ensures data remains within Swedish jurisdiction while supporting advanced AI development.

"This is a timely and important partnership, as AI innovation continues to accelerate at speed," said Thomas Ekman, Board Director at 6G AI. "As nations and enterprises worldwide increasingly seek to safeguard their digital sovereignty against the backdrop of intensifying geopolitical tensions and the unchecked expansion of global tech platforms, 6G AI's strategy to build and operate a truly autonomous, sustainable infrastructure is a national priority."

To bring this vision to life, 6G AI partnered with atNorth, the leading Nordic data center operator, leveraging its high-performance data center infrastructure and sustainable Nordic operations.



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Thomas Ekman

Board Director, 6G AI



Sovereignty meets performance

6G AI's mission is to bring cutting-edge AI technology to secure cloud environments with seamless AI accessibility, enterprise-grade reliability, and robust performance for organizations deploying advanced workloads. To support this, 6G AI required a data center partner capable of hosting a state-of-the-art GPU infrastructure while meeting strict sustainability and operational requirements.

atNorth's [SWE01 Data Center](#), located in Kista, Stockholm was the ideal site. The facility is purpose-built to support next-generation high-performance computing and AI workloads while operating on renewable energy and complying with European data sovereignty requirements.

"The transparency and jurisdictional control, alongside the performance, scale and innovation offered by our platform is particularly important for organizations in regulated industries like healthcare, research and the public sector," commented Rui Gomes, CTO, 6G AI Sweden.

"Partnering with atNorth offers us a foundation from which to build and scale our platform while still delivering consistent, high-quality performance with the security, sovereignty, and control required today."

Time to market was also a critical factor for 6G AI. Scaling compute environments quickly enables earlier revenue generation and accelerates return on significant infrastructure investments. In its report, [The Widening AI Value Gap: Build for the Future 2025](#), Boston Consulting Group reported that companies who prioritize time to market can expect to generate 2x the revenue increase with significantly higher ROI than those who lag.

Despite the size and scale of this deployment, 6G AI's infrastructure was up and running in just two months. Operations began in July 2025, with 6G AI deploying an initial cluster of 31 servers equipped with eight GPUs each, delivering approximately 500kW of IT load. The deployment represents the first phase of a much larger rollout, with 240 currently operational and 2,500 GPUs already planned. By prioritizing rapid deployment, 6G AI and atNorth are not just building infrastructure, they are accelerating Sweden's ability to compete in the global AI economy.

The [location of SWE01](#) was a key factor in the decision process. Positioned close to Stockholm's major connectivity hubs, the facility provides low-latency access to Sweden's fiber networks and direct connectivity to multiple telecom operators. This enables customers to establish dedicated or even isolated fiber links directly to their offices, creating a hybrid infrastructure model that blends cloud flexibility with the control of on-premise solutions.



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Rui Gomes

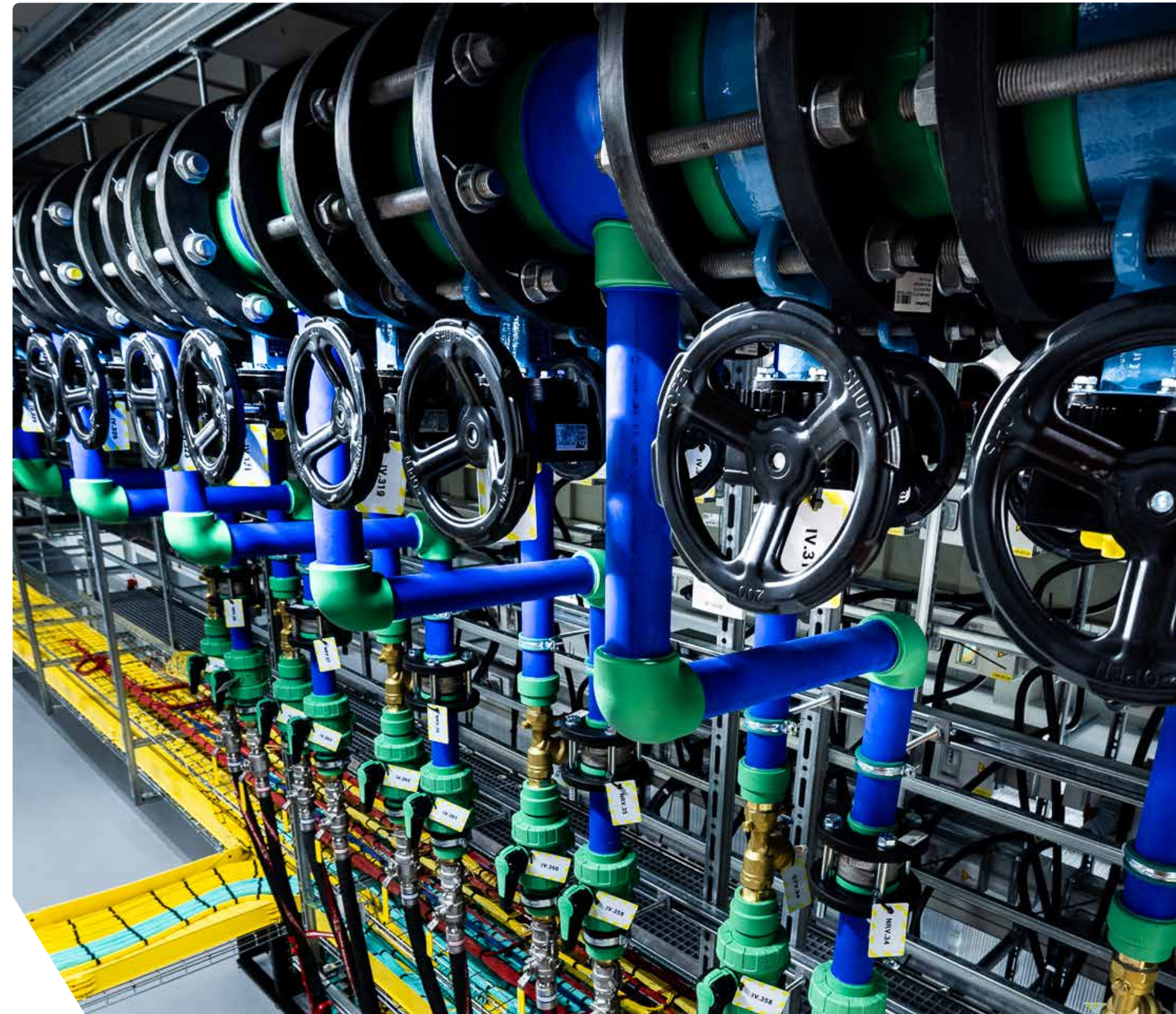
CTO, 6G AI Sweden

Sustainability as a core advantage

At SWE01, waste heat generated by servers is captured and reused within the local district heating system, helping warm nearby homes. For organizations deploying large-scale AI workloads, this circular energy model offers an efficient and environmentally responsible way to operate energy-intensive infrastructure with reduced carbon footprint.

For 6G AI's customers, sustainability is increasingly becoming a strategic differentiator. Companies looking to deploy AI workloads want the performance benefits of advanced compute but also expect infrastructure providers to demonstrate responsible energy use and environmental transparency.

"Time to market, sovereignty, and sustainability are three of the most critical factors driving digital infrastructure decisions today," said Anders Fryxell, CSO at atNorth. "By combining our rapid time to market, expertise in high-density, energy-efficient data centers with 6G AI's innovative cloud capabilities, we're helping 6G AI create a platform that addresses both of these strategic imperatives."



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Anders Fryxell
CSO, atNorth

Building an AI-ready infrastructure platform

6G AI's sovereign cloud platform is designed to support the latest generation of AI hardware, including NVIDIA H200 Tensor Core GPUs and the GB200 Grace Blackwell Superchip architecture.

These systems are optimized for large-scale AI training and inference workloads, enabling Swedish businesses, research institutions and government organizations to build and deploy advanced AI models within a secure and transparent environment.

Today, the infrastructure primarily uses air cooling, which is sufficient for current H200 GPU deployments. However, [atNorth's modular capacity](#) roadmap enables the platform to evolve as compute density increases. Future expansions will incorporate direct-to-chip liquid cooling, supporting upcoming GPU architectures while maintaining long-term energy efficiency.

This modular approach also significantly reduces time-to-market for new AI infrastructure, where the ability to scale has a direct impact on innovation, competition and overall market value. According to [Gartner](#), by 2027, 70% of enterprises will lean on industry cloud platforms to accelerate business initiatives, making speed a true competitive differentiator.

SWE01 facility supports 6G AI's national AI cloud

-  **Powered by renewable energy**
-  **District heat reuse supports local homes**
-  **Low-latency connectivity to fiber networks**
-  **AI-ready infrastructure designed for next-generation GPU workloads**
-  **Strategic Stockholm location enables hybrid enterprise connectivity**



Enabling Sweden's AI economy

The collaboration between atNorth and 6G AI represents more than a technical deployment, it is part of a broader effort to strengthen Sweden's digital sovereignty and AI capabilities.

By hosting its sovereign AI infrastructure in Sweden at [atNorth's facility which supports data sovereignty and digital autonomy](#), the platform ensures sensitive data remains within national jurisdiction. This strengthens trust amongst citizens and organizations adopting AI technologies while enabling Swedish businesses to innovate within a secure and compliant environment.

"Together with 6G AI, we are reinforcing Sweden's position as a global leader in responsible, trustworthy technology development," continued Fryxell. "This partnership is a critical step in securing the digital future in Sweden and the wider Nordic region, ensuring our customers have the tools they need to thrive in the AI-powered economy."

As demand continues to grow, 6G AI is preparing to scale its infrastructure footprint significantly, with plans to expand GPU deployments and build additional AI capacity in partnership with atNorth.

6G AI's Sovereign Cloud deployment in numbers

- 500** kW IT load initially deployed
- 31** servers in the first production cluster
- 8** GPUs per server supporting AI workloads
- 240** GPUs currently operational
- 2,500** GPUs allocated for future expansion



About atNorth

atNorth is the leading Nordic data center company that offers cost-effective, scalable high-density colocation and built-to-suit services trusted by industry-leading organizations. With sustainability at its core, atNorth's data centers run on renewable energy resources and support circular economy principles.

All atNorth sites leverage innovative design, power efficiency, and intelligent operations to provide long-term infrastructure and flexible colocation deployments. atNorth is headquartered in Reykjavik, Iceland and operates eight data centers in strategic locations across the Nordics, as well as a ninth under construction in Kouvola, Finland, a tenth site in Ølgod, Denmark and an eleventh campus in Stockholm, Sweden. The business has also announced a new mega-site development in the Sollefteå Municipality in Sweden.

Vision

More compute for a better world

Founded on sustainability and innovation, atNorth powers the world's most demanding workloads. We are the leading Nordic data center provider and the decarbonization partner of choice.

Mission

We are a disruptive force pushing boundaries to bring unmatched efficiency and performance to our customers.

Sustainability and social responsibility are at the core of what we do.

[atNorth.com](https://atnorth.com)

