

LANTMÄTERIET'S STRATEGY FOR GEODESY 2026–2035

Per-Anders Olsson, Tina Kempe, Tomas Holmberg, Lars Jämnäs, Jonas Ågren, Martin Lidberg

Lantmäteriet, Geodata Division, Department of Geodetic Infrastructure, SE-801 82 Gävle, Sweden

E-mail: per-anders.olsson@lm.se

Why a strategy?

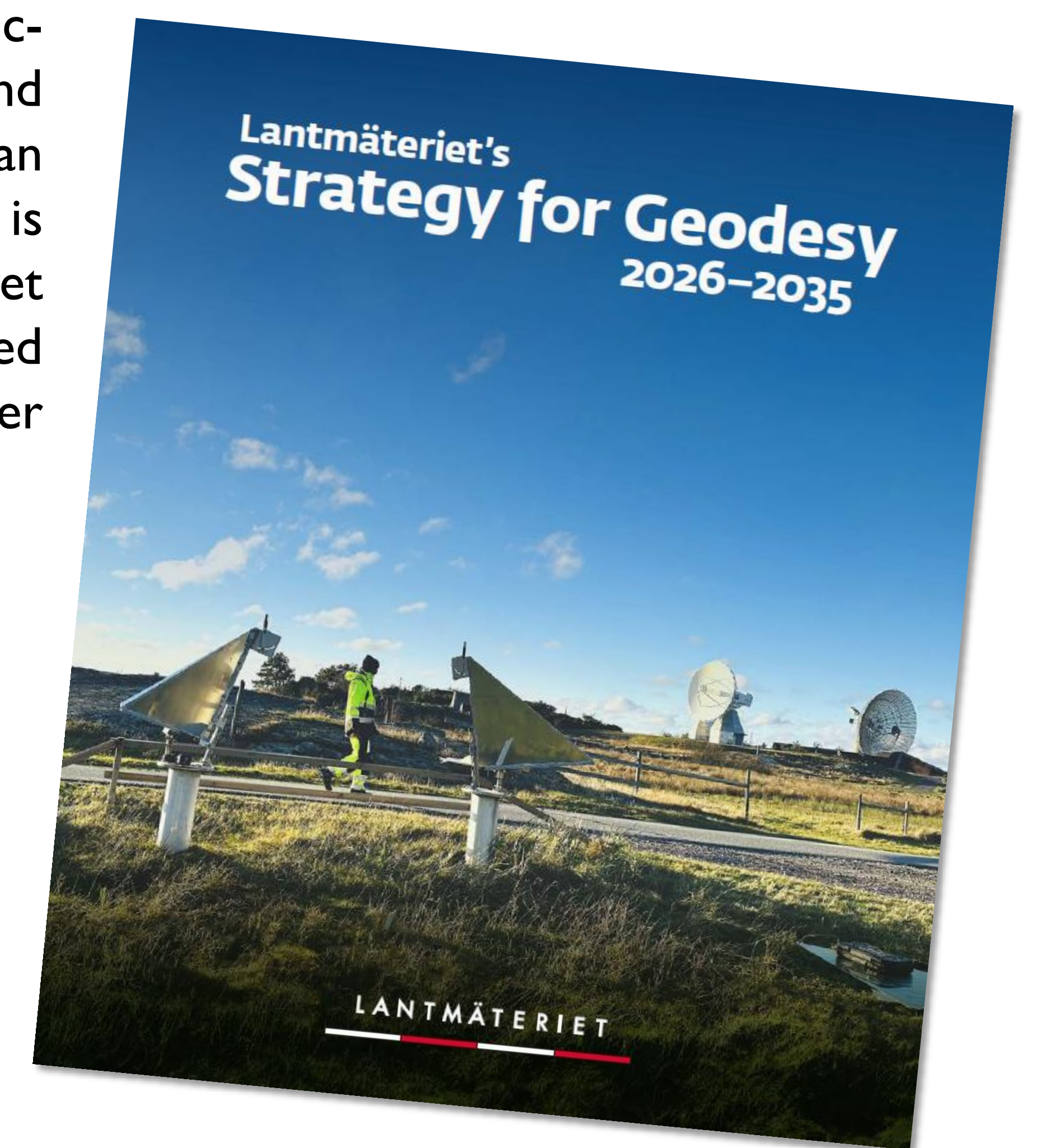
Lantmäteriet is responsible for Sweden's national geodetic infrastructure, including the national reference networks and the provision of geodetic services and support. A long-term geodetic strategy is a valuable tool to ensure that this infrastructure continues to meet future societal needs.

The strategy provides direction for Lantmäteriet's activities and supports decision-making among stakeholders. It addresses key trends such as increasing dependence on reliable positioning, the growing use of high-accuracy GNSS services, and the digitalisation of society's planning and construction processes.

Vision for 2035

By 2035, the geodetic infrastructure is a well-functioning, robust and integral part of society's fundamental functions.

It is not defined by major headlines or disruptive technological shifts, but by predictability, trust and flexibility. It is an infrastructure that is rarely noticed – yet immediately missed when it no longer functions.



Five strategic priorities

The strategy is built around five strategic priorities that will guide the development of Sweden's geodetic infrastructure during the period 2026–2035.



SWEPOS positioning services

Continue to operate and develop SWEPOS, which will continue to be financed through user fees, to offer, also in 2035, a national GNSS infrastructure with robust delivery of services and raw data to users and other stakeholders.

National reference frames

Retain and maintain the current national reference frames SWEREF 99 and RH 2000 throughout the strategy period. Both reference frames remain robust and continue to follow international conventions.

Geoid determination and gravity measurements

Raise the level of ambition for geoid determination and relative gravity measurements to improve both GNSS-based height determination, and the gravimetric foundation for the height frame of the future.



A robust geodetic infrastructure

Strengthen the robustness of the national geodetic infrastructure. Our own contribution must be robust, and awareness of alternative methods for accessing the geodetic reference frames must be increased.

The global geodetic supply chain

Actively contribute to strengthening the global geodetic supply chain, recognising that reliable international observations, products, and services form the foundation of Sweden's national geodetic infrastructure.



Enabling activities

The strategy also highlights several key areas that support the long-term development of Sweden's geodetic infrastructure.

- **Research** – Maintain a strong research culture to strengthen knowledge on building and using geodetic infrastructure.
- **Advisory services and cooperation** – Continue to promote consistency, coordination, and quality in surveying while adapting to evolving user needs.
- **International cooperation** – Actively contribute to international geodesy through organisations such as the Nordic Geodetic Commission (NKG), IAG/EUREF, and UN-GGCE.
- **Artificial intelligence** – Build competence in AI and machine learning to improve quality control, automate workflows, and support the long-term management of the geodetic infrastructure.

