

-
- NKG GNSS Working Group 2022-2026



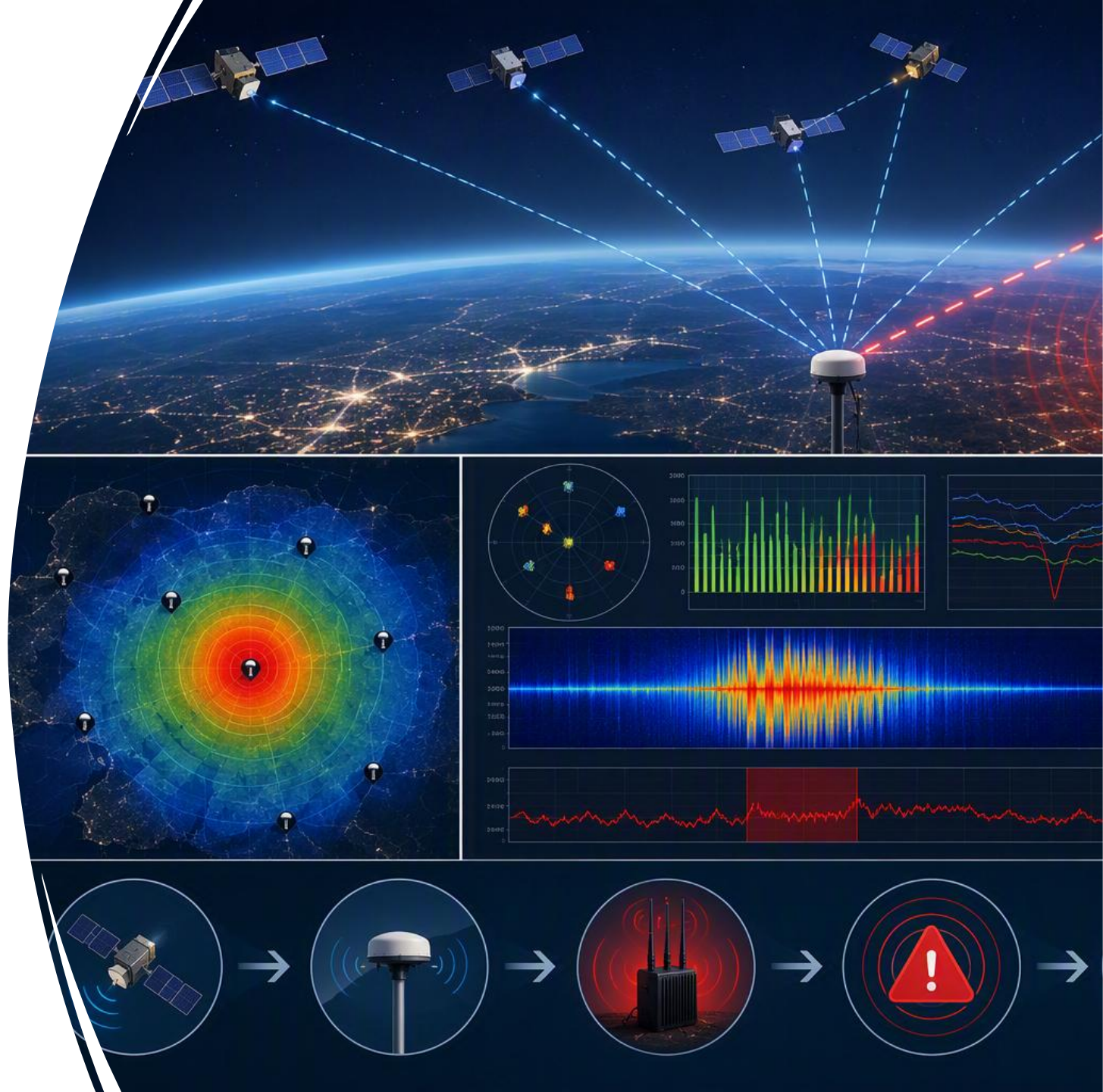
NKG GNSS Working Group 2022-2026

- The Working Group was established in 2022, with Casper Jepsen (DEN) serving as Chair. Following Casper's departure from the Danish Climate Data Agency in September 2025, Tor-Ole Dahlø (NOR) and Peter Wiklund (SWE) were appointed as interim Co-Chairs until this General Assembly.
- Over the past four years, the GNSS Working Group has focused on exchanging knowledge, experiences, and best practices related to GNSS technologies, services, and operations.



Interference management

- Exchange of experiences, monitoring approaches, and mitigation methods related to GNSS interference.
- Coordination of participation and planned testing activities within Norway's Jammertest initiative.



National GNSS infrastructures

- Overview of services, systems, and stations in participating countries to compare operational practices, workflows, and software solutions.
- Shared data sheet with supplementary information on our respective networks



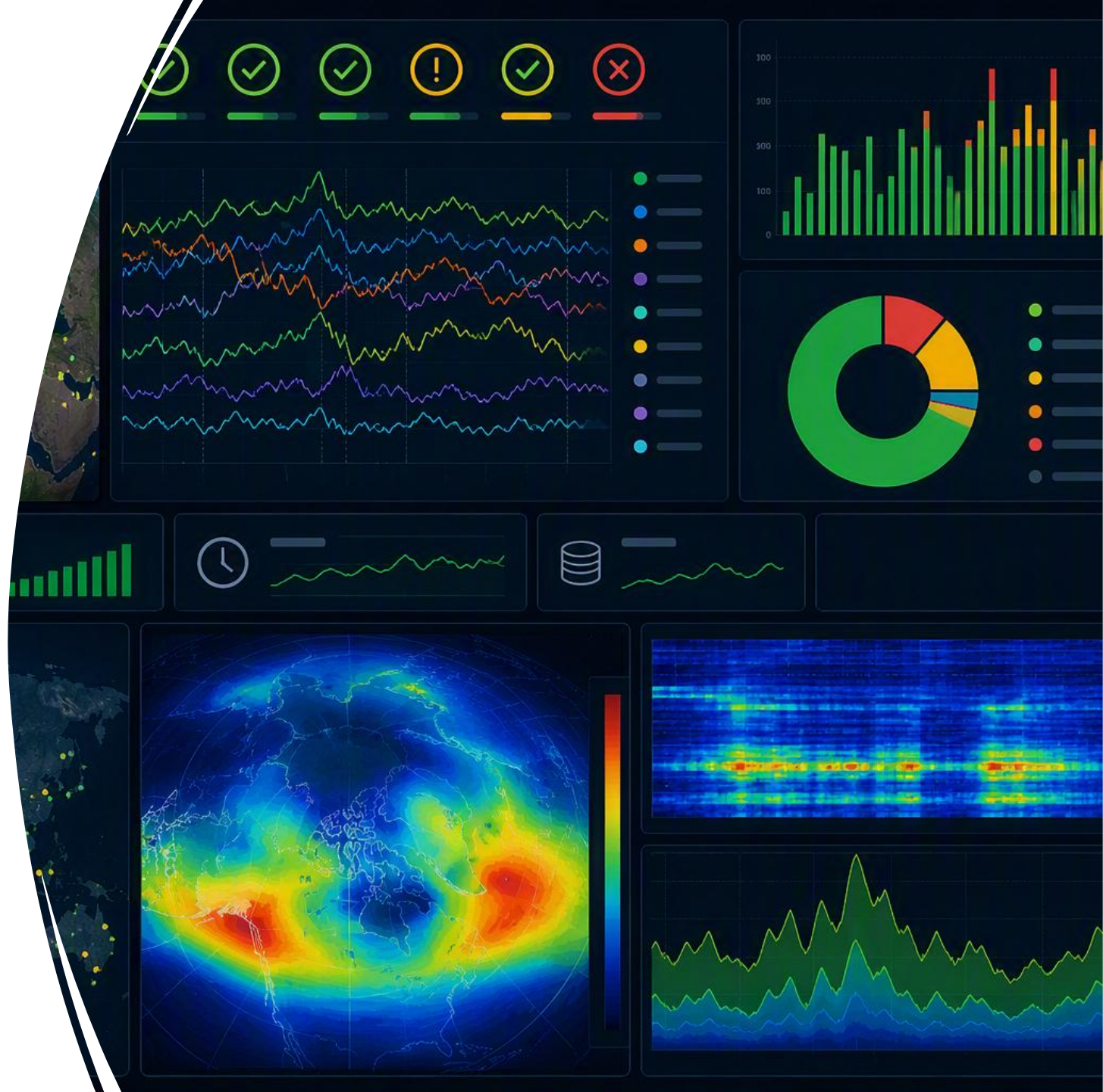
CORS metadata

- Documentation, standardization, and sharing of CORS metadata.



Monitoring

- Data completeness and integrity monitoring for both real-time data streams and RINEX data.
- NTRIPmonitor: Monitoring software for RTCM streams
- Ionospheric monitoring:
 - SWEPOS ionosphere monitor
 - Norwegian seSolstorm/RTIM



Emerging technologies

- Investigation of State Space Representation (SSR) technologies for the mass-market segment, including both technical developments and market trends.
- Discussions on challenges faced by National Mapping Agencies (NMAs) related to commercial service providers offering positioning services based on global reference frames.



Galileo services

- Discussions on developments and tests related to OSNMA and HAS services.



Research and development

- Sharing experiences, results, and lessons learned from R&D projects, many of which have focused on SSR technologies and applications within the automotive sector.



Looking ahead

- Due to the Working Group's continuity challenges during the past year, combined with the upcoming General Assembly, it was agreed during the spring 2026 WG meeting in Riga that no major new activities should be initiated before the GA. Instead, the focus should be on consolidating ongoing work and identifying priorities for the next four-year period.
- The discussions highlighted several areas of potential future interest:



Modernization of legacy software

- What opportunities exist for replacing aging systems with more modern and sustainable alternatives?



New data formats and services

- What developments are taking place regarding emerging or revised data formats, standards, and service models?



LEO-PNT and Jamming/spoofing resilience

- Given the increasing challenges posed by jamming and spoofing, should the WG investigate Low Earth Orbit Positioning, Navigation, and Timing (LEO-PNT) solutions more closely?
- Should the WG facilitate more exchange of experiences and develop guidelines on incidents?

