SKPOS®

National report of Slovakia

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EUPOS
European Position Determination System

12th EUPOS Council and Technical Meeting

October 7-8, 2026, Warsaw, Poland

SKPOS stations infrastructure

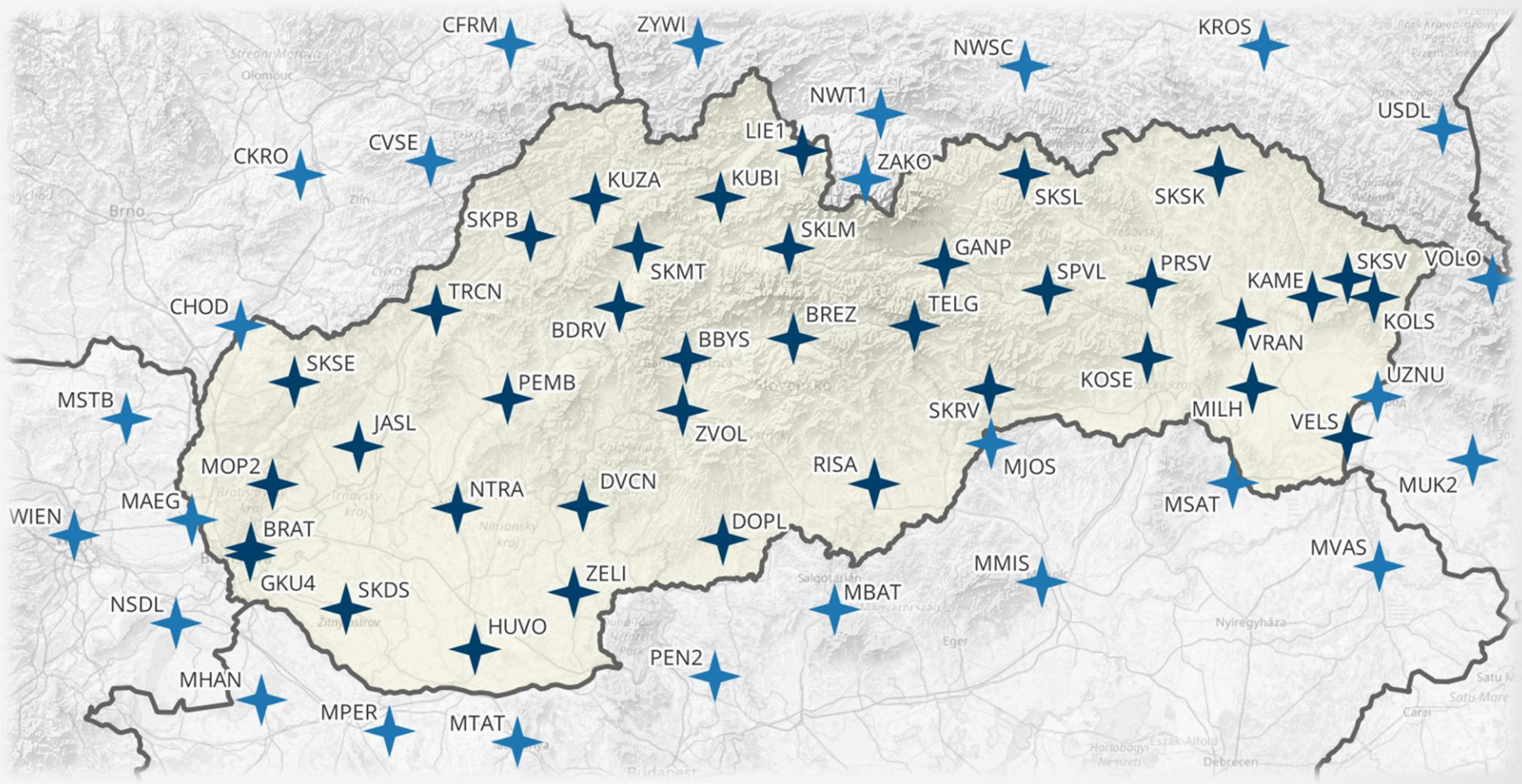
Status in October 2026

20 years
of operation

4 600+
active users

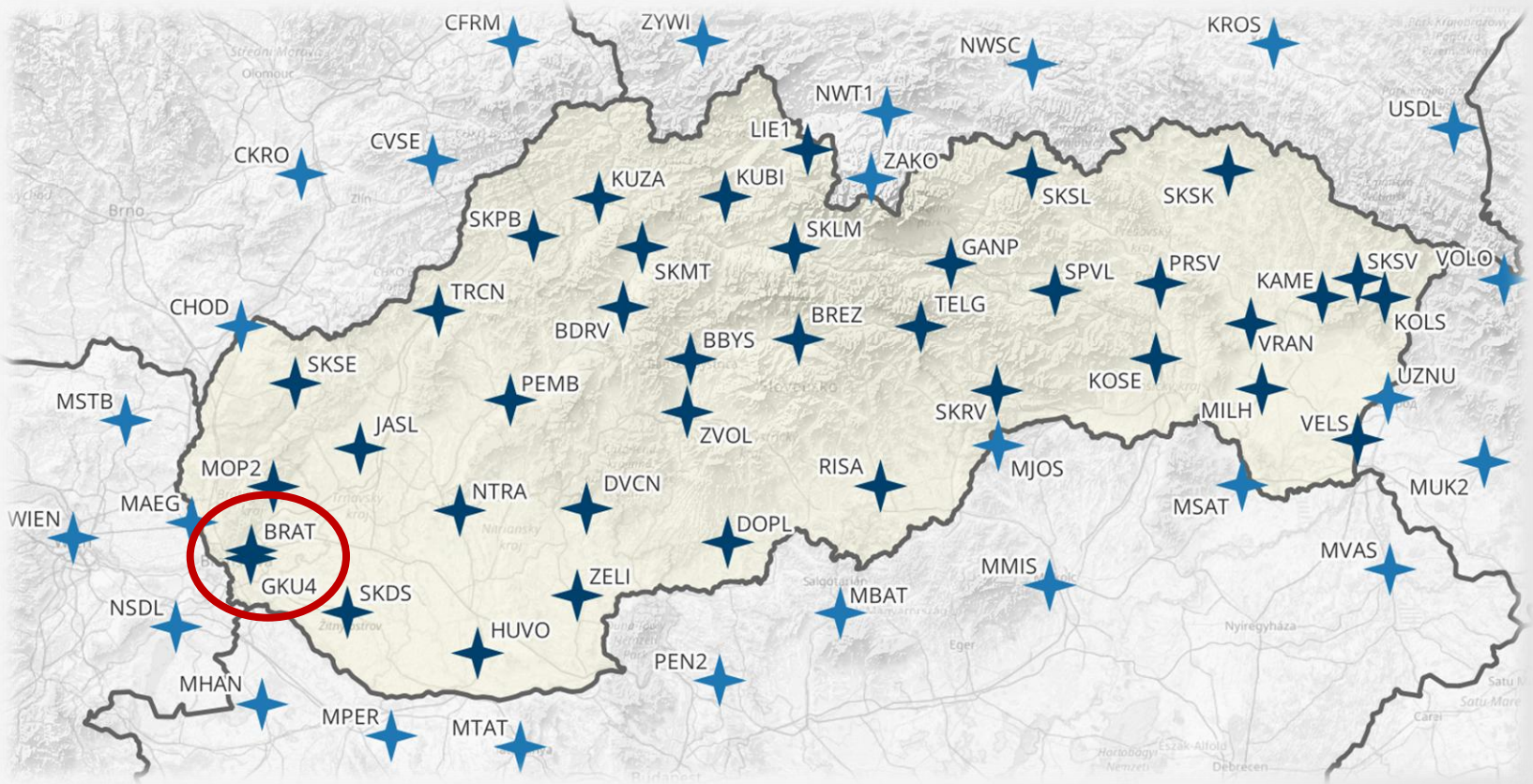
38 + 26
CORS

GPS, GLONASS,
Galileo, BeiDou

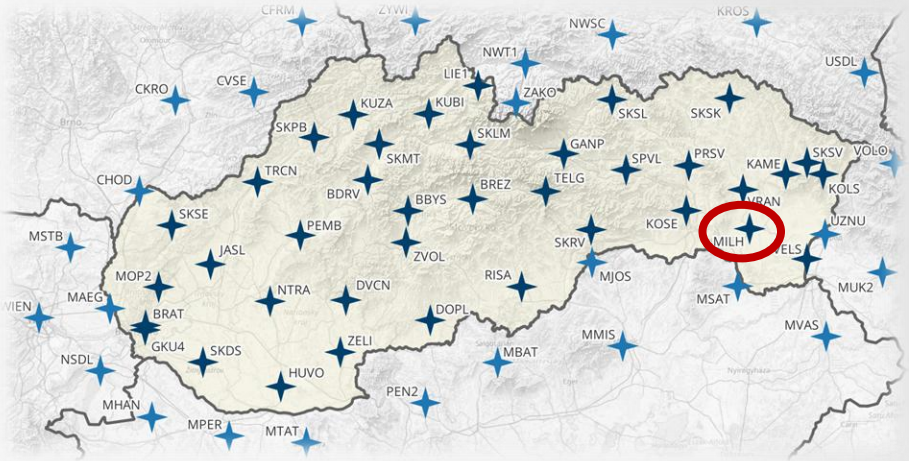


SKPOS stations infrastructure

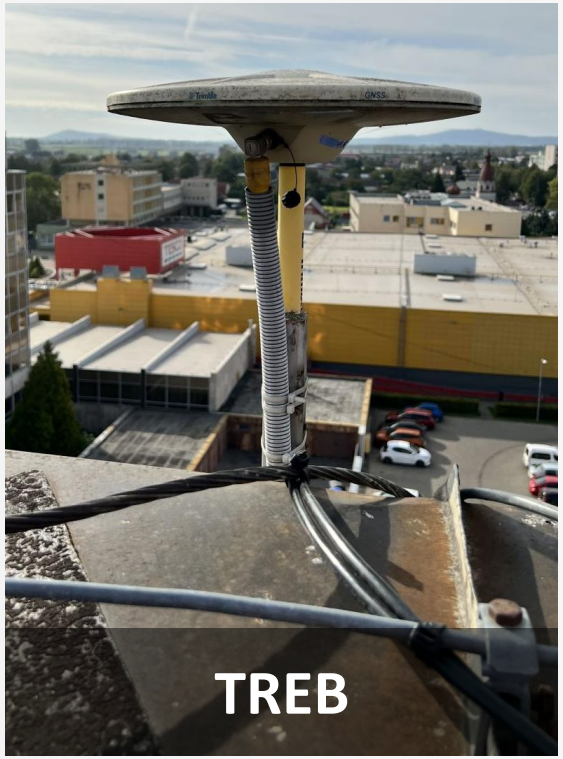
- New station in Bratislava (BRAT)



SKPOS stations infrastructure

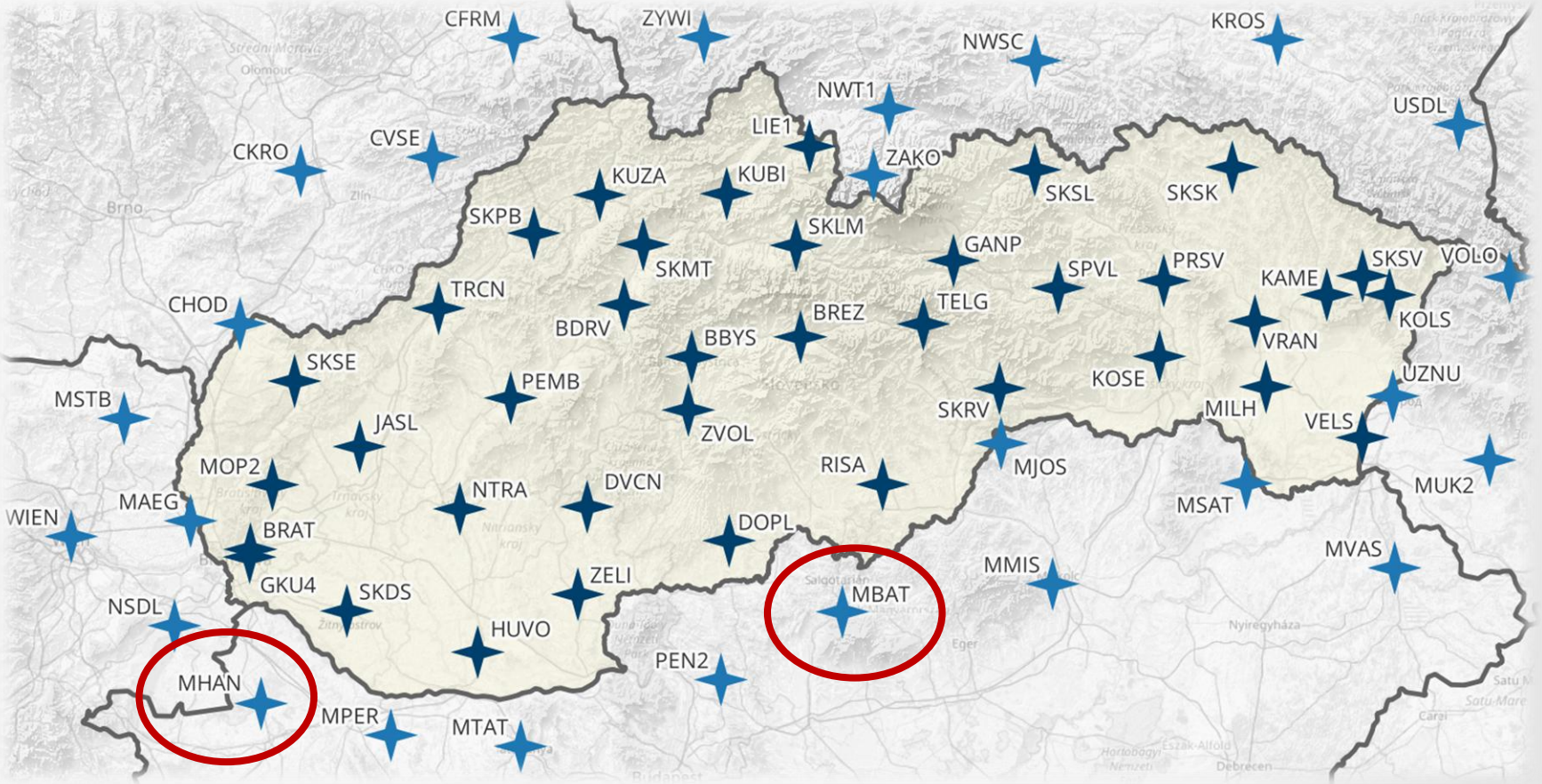


- Station relocation
  - reinforced concrete pillar instead of roof monumentation

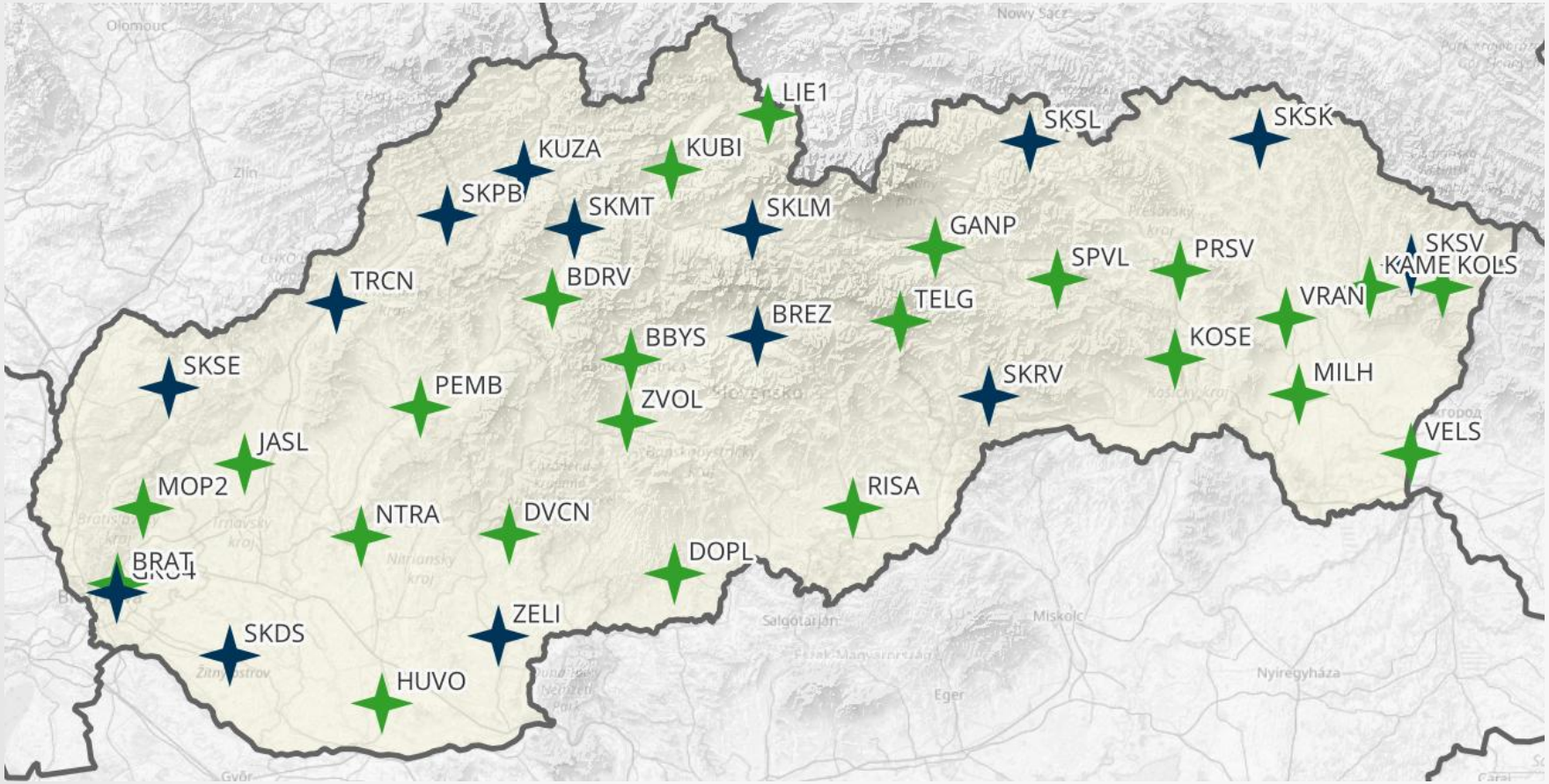


SKPOS stations infrastructure

- New foreign stations: MBAT, MHAN



SKPOS GNSS/InSAR collocation (24/38 stations)



Physical monitoring stations

7
monitoring stations

2013
Quality monitoring based on virtual stations

2020
New physical monitoring station SUT2

2022
Relocation of monitoring station SUT2 → AGOA

2023
Relocation of monitoring station AGOA → AGOC
New physical monitoring station TUZV

2024
New physical monitoring stations PRES, MOPI, RISO, TUKE

2026
New physical monitoring stations LMST

SKPOS Infrastructure

- Control software:

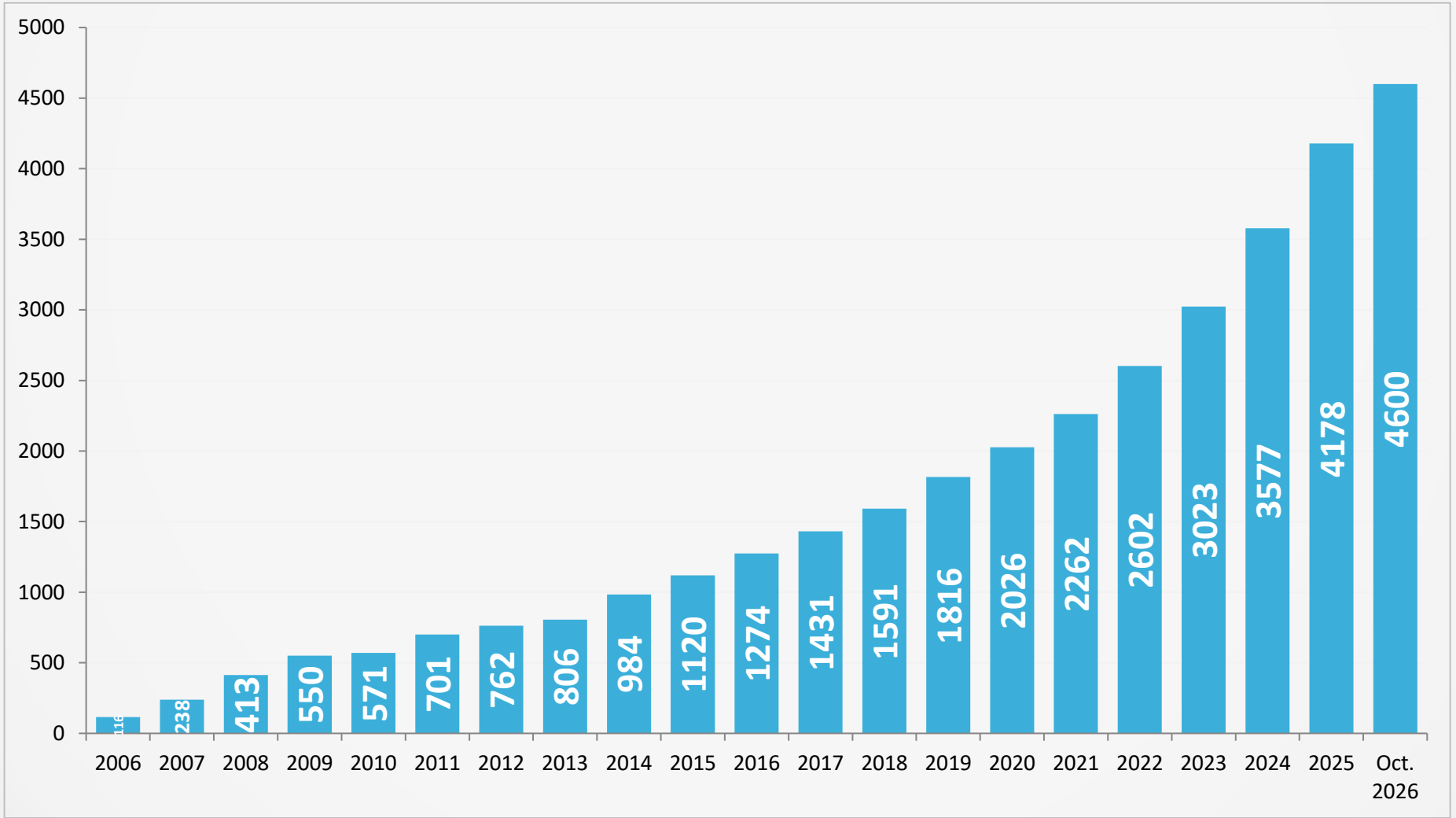
  Trimble Pivot Platform

  - Version 5.2.3
  - Jamming and Spoofing Module **NEW**

- Receiver firmware:
  - Alloy: 6.60

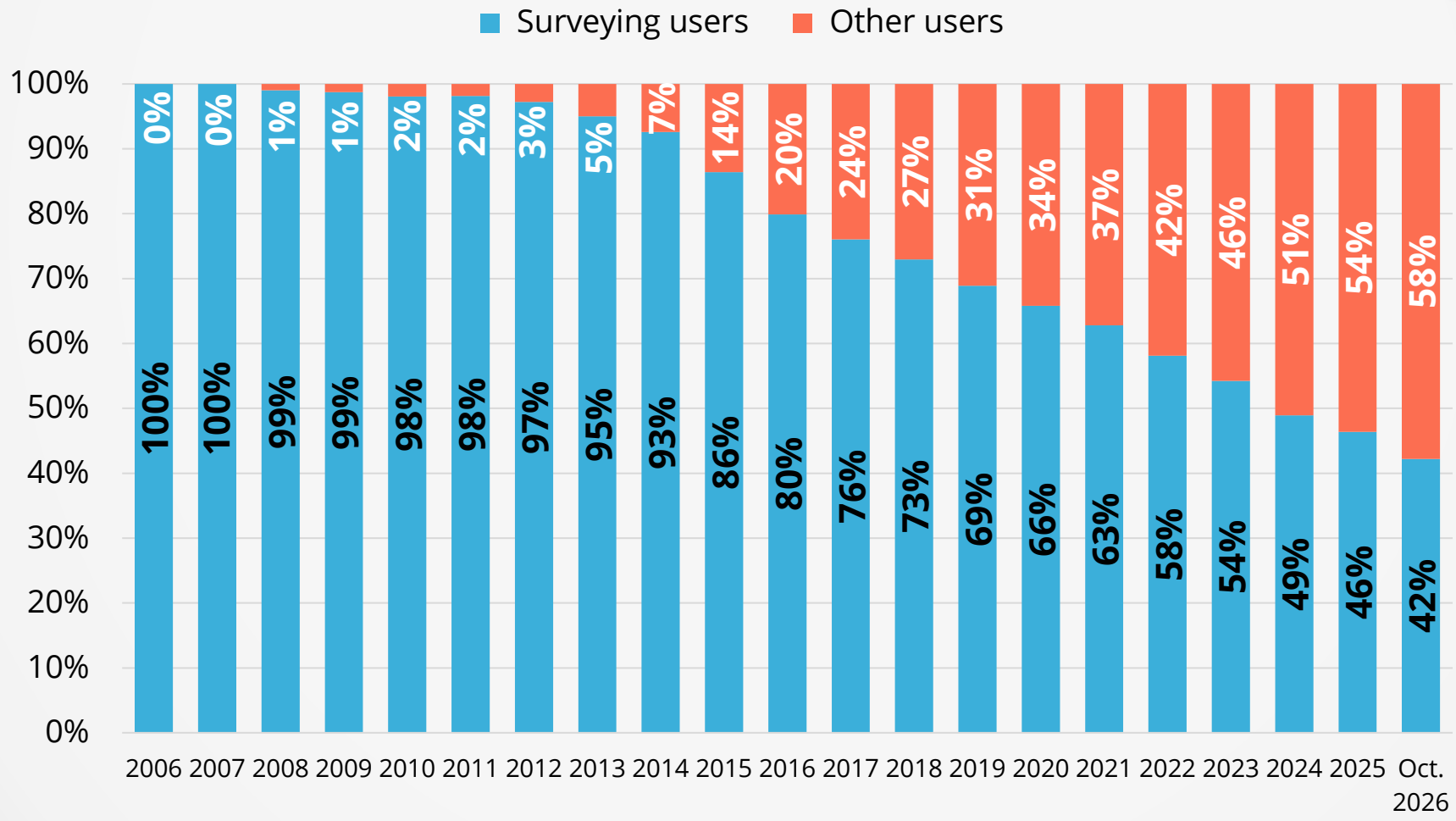
Number of users

- Number of users: 4600 (Oct. 2026)



Type of users

- From Oct. 2024 more non-geodetic users

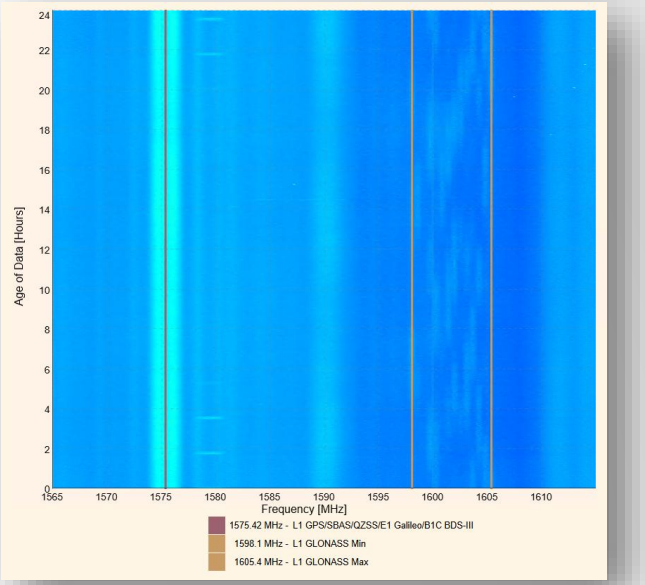


Server infrastructure update – 2nd data center

- [x] Independent data center at a separated location
- [x] Purchase of an SQL Server database license
- [x] Purchase of a Trimble Pivot Platform license
- [ ] Configuration of proxy and SMTP servers
- [ ] Installation of Trimble Pivot Platform
- [ ] SQL database mirroring
- [ ] Load balancing

Interference monitoring

- Trimble Pivot Platform - Jamming and Spoofing Module **NEW**



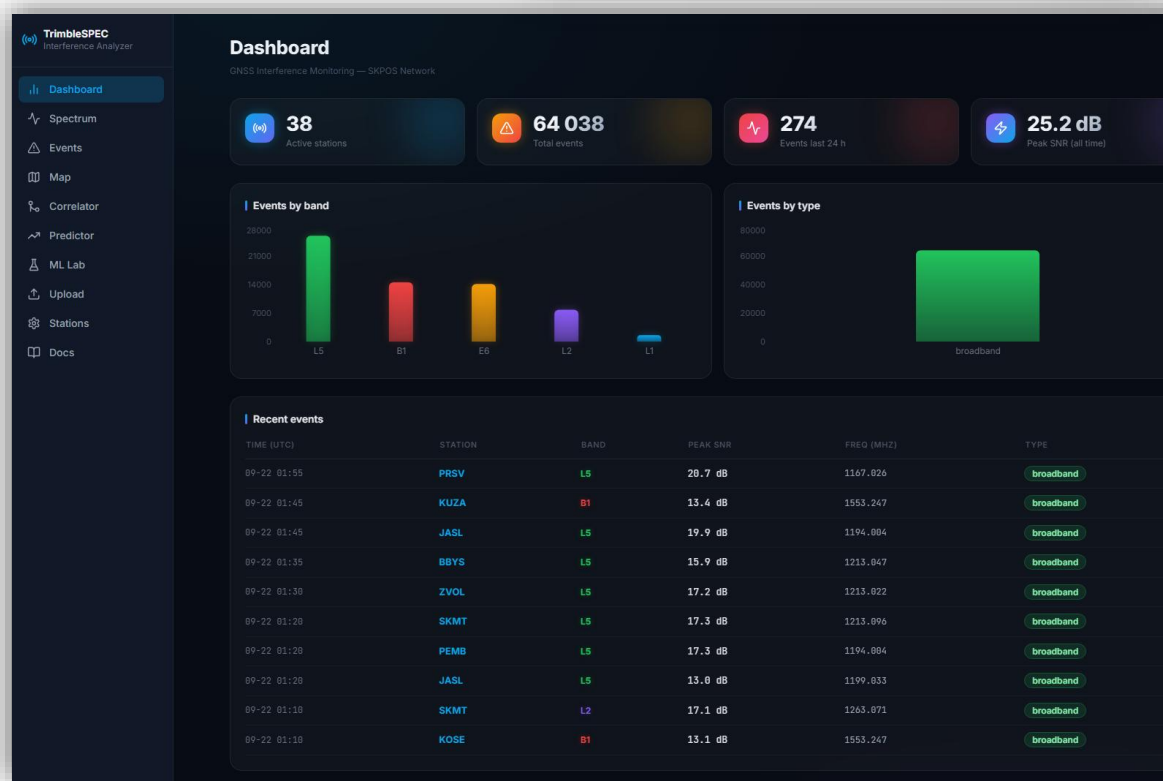
- Trimble Alloy's Spectrum Analyzer

↓

Exporting data every 5 minutes to a CSV file

↓

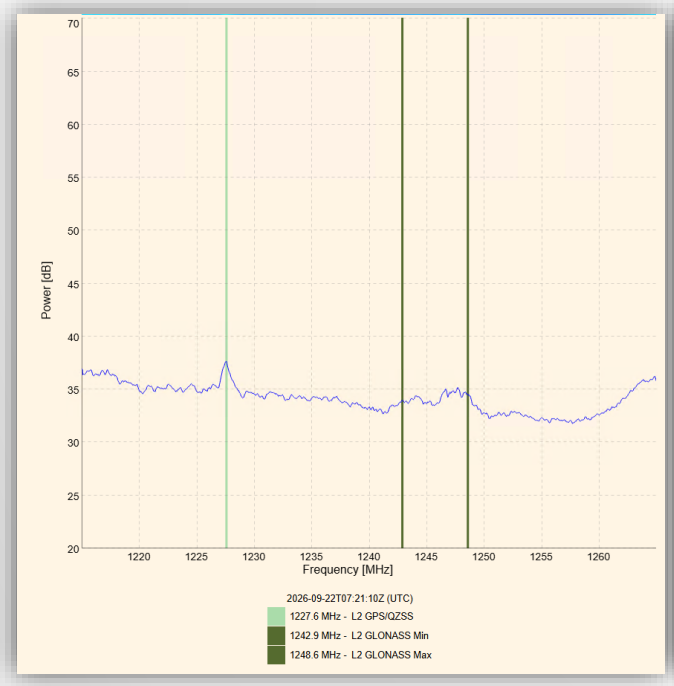
Interference Analyzer **by Miluta Flueras**



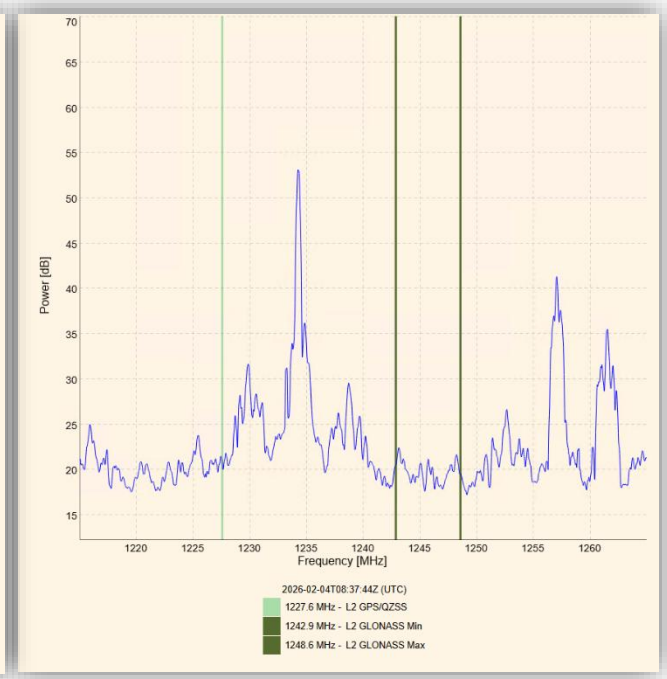
~~Interference L2/L5~~ on station DOPL

Cable problem

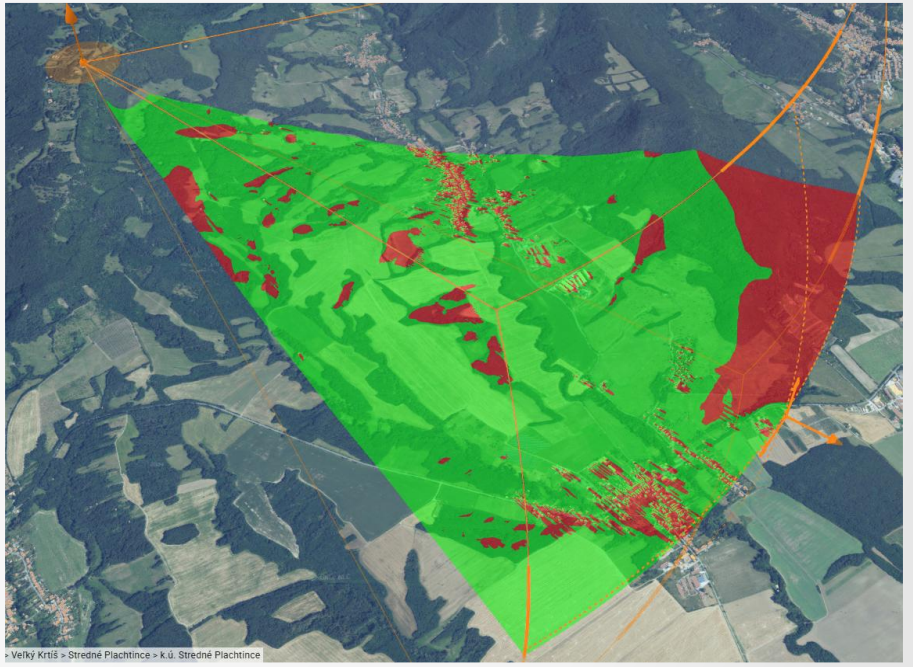
Specific high-frequency bands L2 and L5 are often the first degrade
Due to cable issues (such as minor water ingress, internal kinking, or loose connectors), whlie L1 can still appear normal



Normal behavior



Interrupted behavior



“Free” data stream provision from CORS

- Any real-time data streams from SKPOS CORS are not provided (not even for a fee)

- Only 2 real-time data streams from SKPOS EPN CORS are involved in EUREF-IP
- Fact: EUREF-IP streams are used for commercial RTK/PPP services = Problem for us!!
- We do not want to provide our CORS data streams to competitors for free
- We are considering to stop providing real-time data to EUREF-IP

20 years of SKPOS (2006 – 2026)

- Celebration 2026 will consist of:
  - Seminaries in November and December for SKPOS users in 3 different locations are under preparation
  - New book 20 years of SKPOS is under preparation
  - Article about SKPOS will be published in Czecho-Slovak surveying magazine

SKPOS®

Thank you for your attention

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