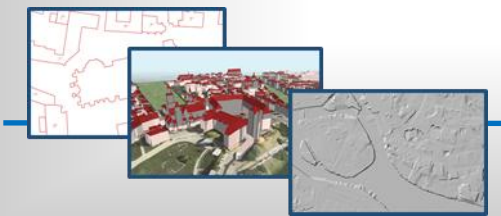
System ASG-EUPOS
- status of reference GNSS network in Poland

Szymon Wajda
Prime specialist
Division of Basic Geodetic Network



ASG- EUPOS – current status

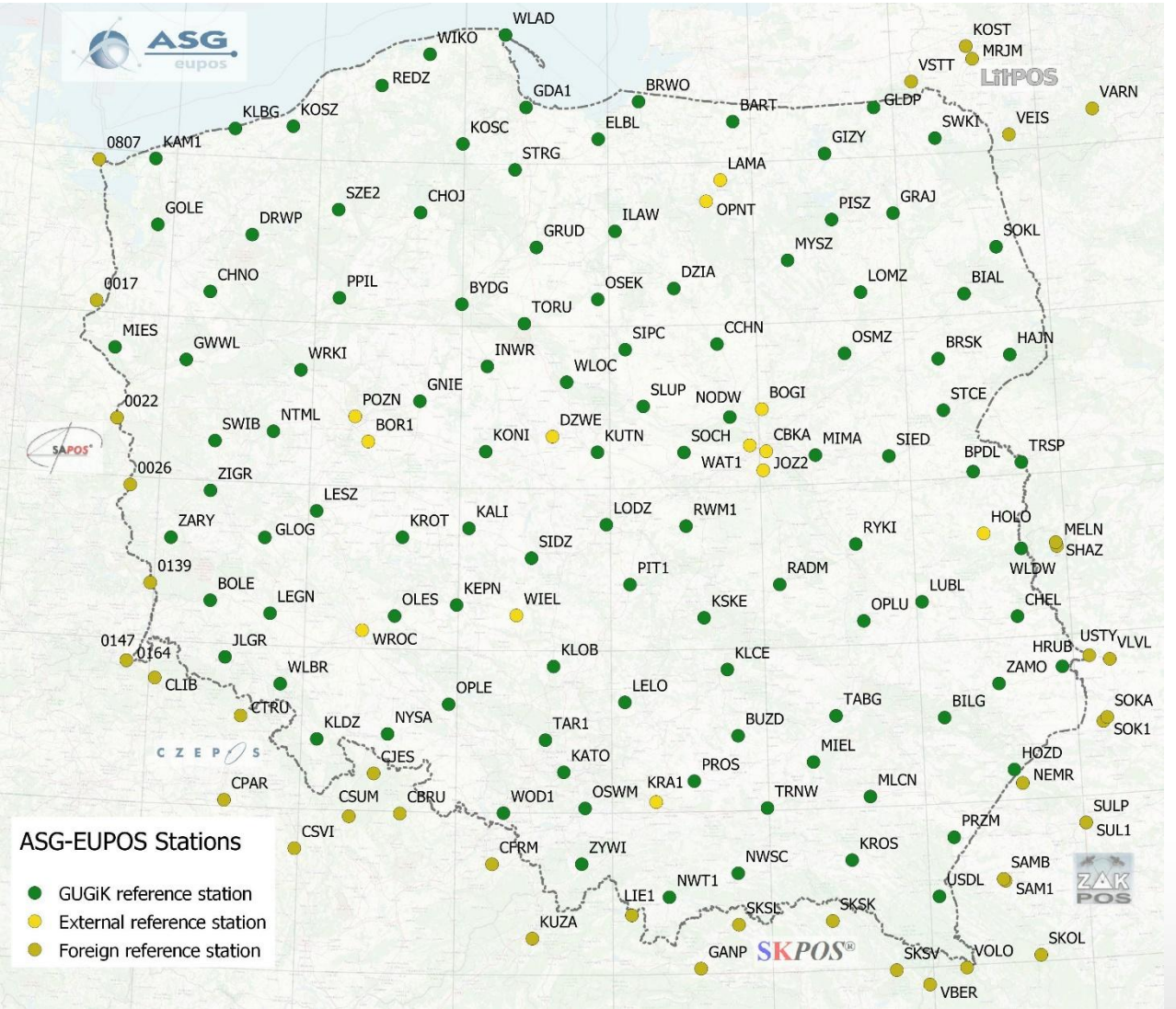
HEAD OFFICE OF GEODESY AND CARTOGRAPHY

141 reference stations connected:

- **108 stations owned by GUGiK**
- **11 associated stations (scientific institutes, universities, etc.)**
- **22 foreign stations from neighboring countries (D, CZ, SK, LT, UA)**

Two management centers: Warsaw and Katowice

GNSS software: Trimble Pivot Platform v. 5.1.1



ASG- EUPOS – current status

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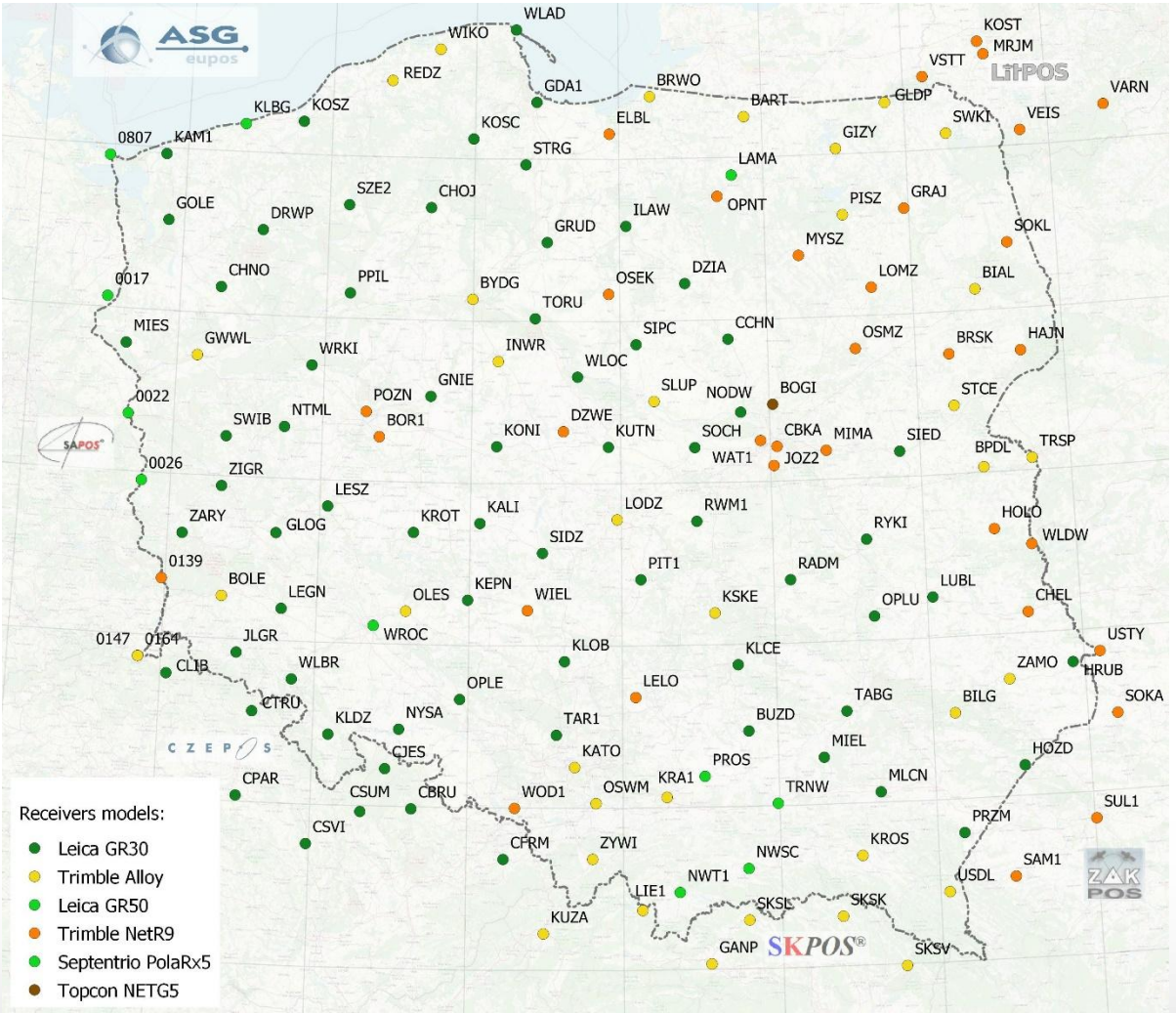
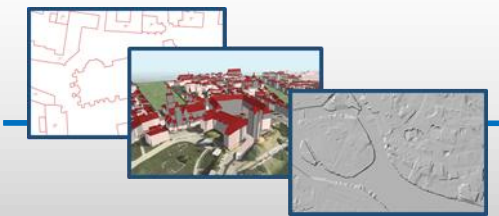
GNSS hardware on GUGiK stations:

- Leica GR30/GR50
- Trimble Alloy
- Trimble NetR9





ASG- EUPOS – current status

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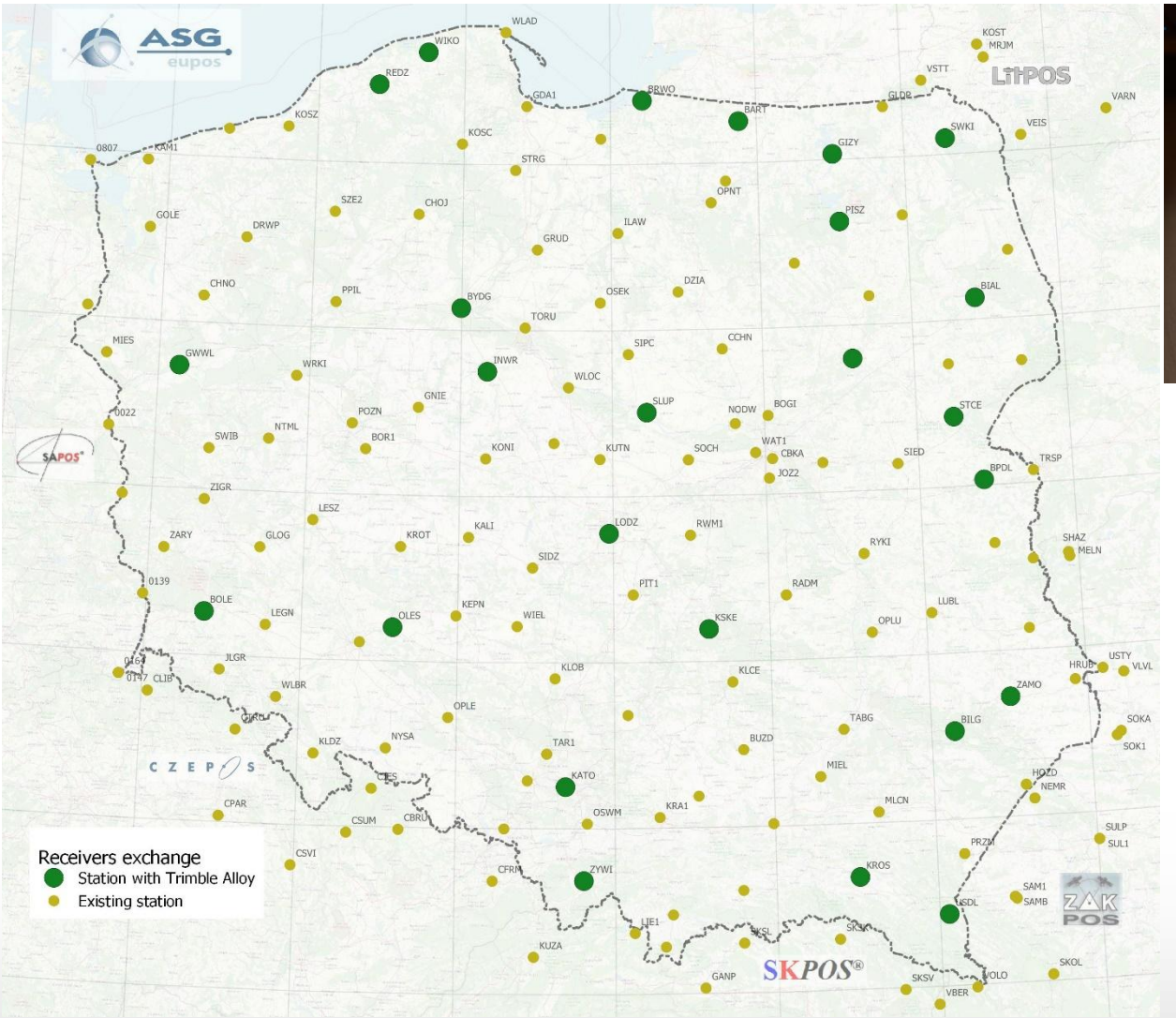
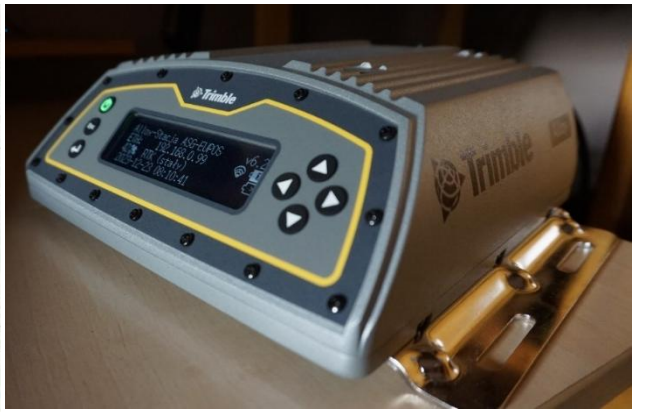
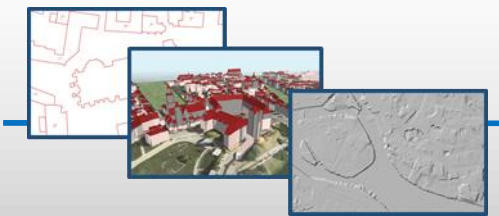
GNSS receivers exchanged in Q1 2024:

- **25 Trimble Alloy**



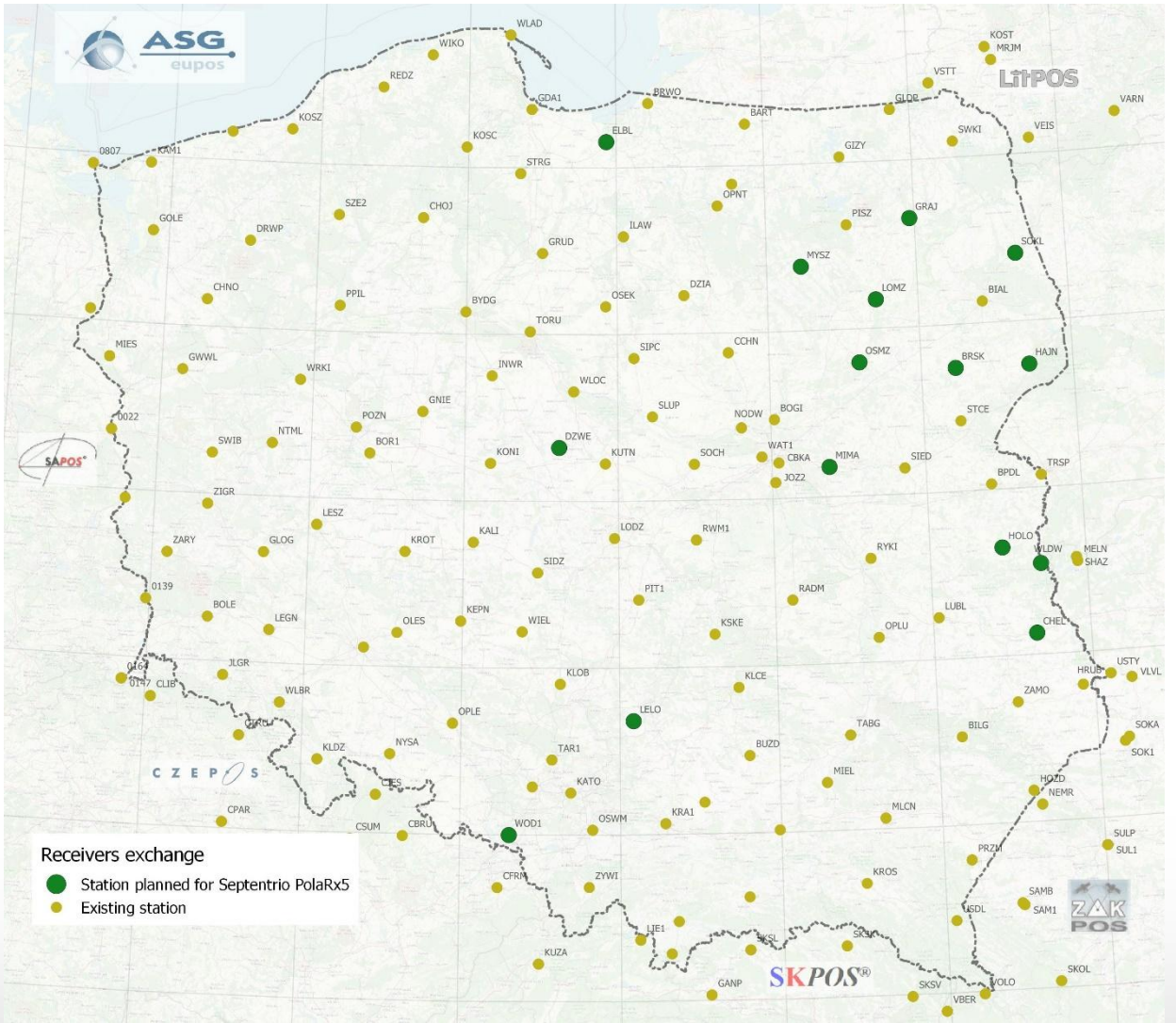


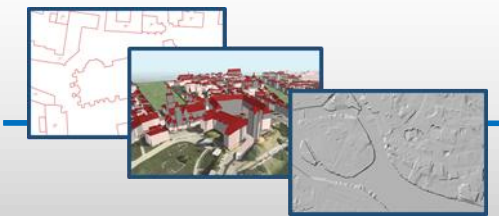


ASG- EUPOS – current status

GNSS receivers will be exchanged by the end 2024:

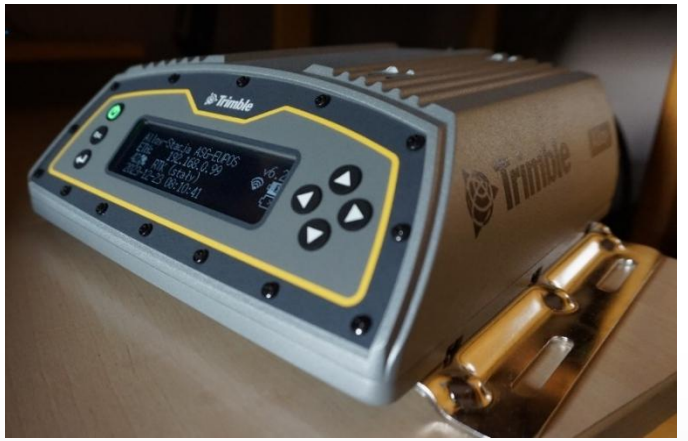
- **18 PolaRx5**

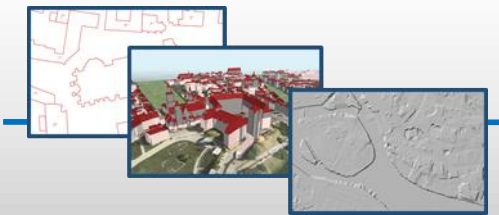




ASG- EUPOS – current status

- GNSS hardware on GUGiK stations will be capable to track GPS/GLO/GAL/BDS signals including BDS gen III
- Only few external and foreign stations will not be modernized to track BDS gen III





ASG- EUPOS – current status

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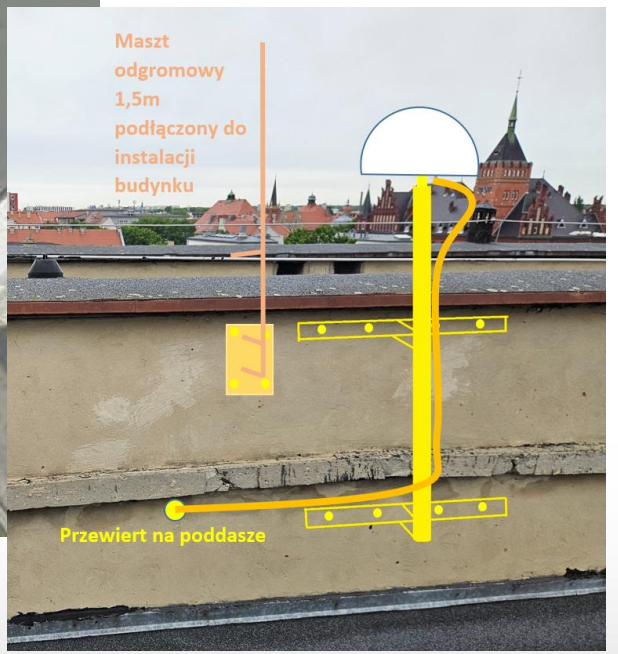
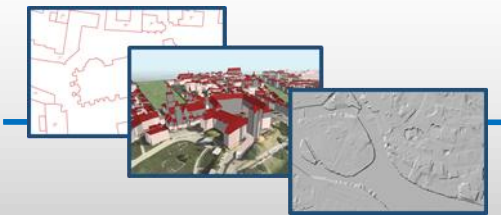
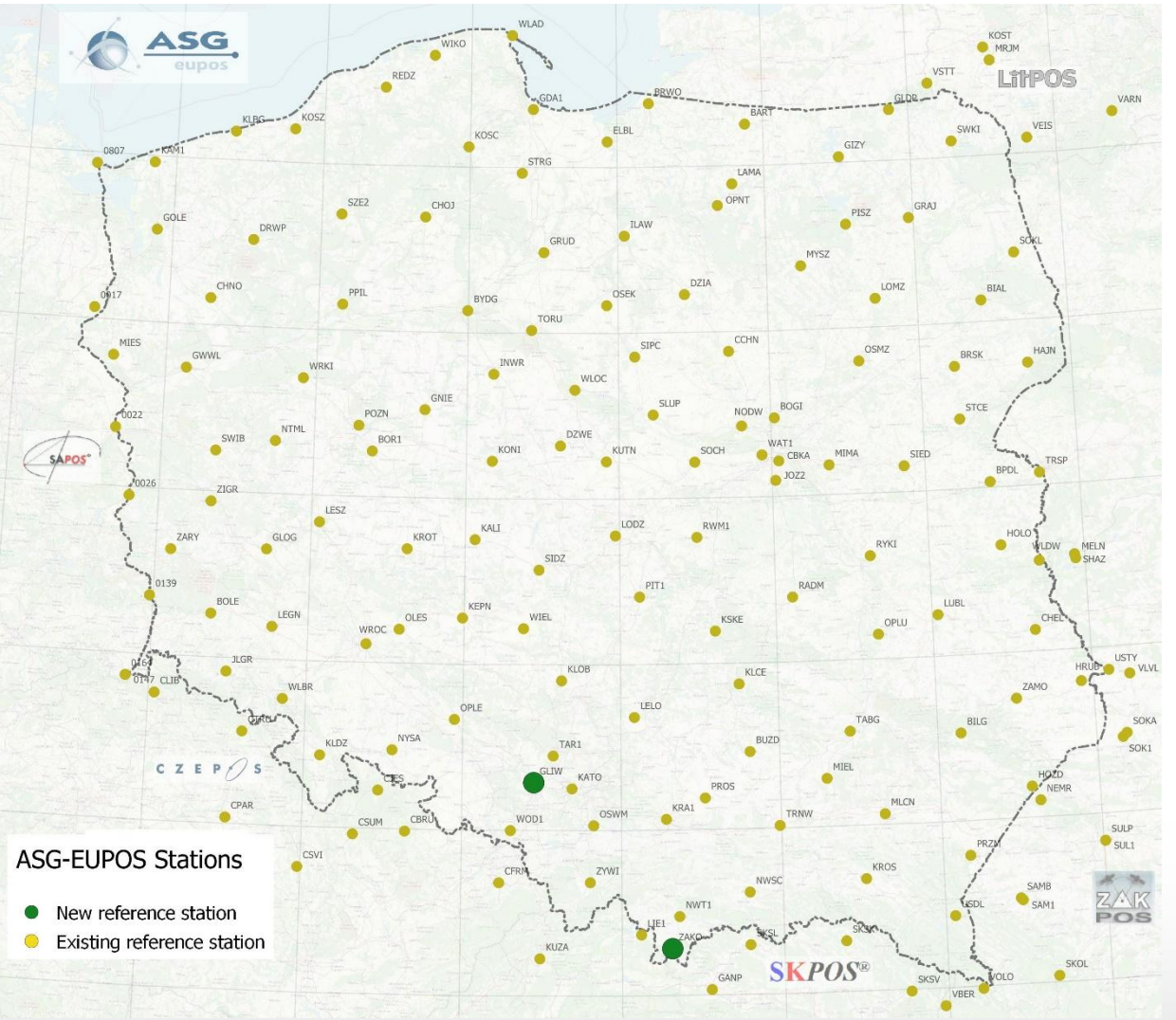
2 new stations under construction:

- Gliwice – Technical Univeversity
- Zakopane – Tatra Volunteer Search and Rescue







ASG- EUPOS – current status

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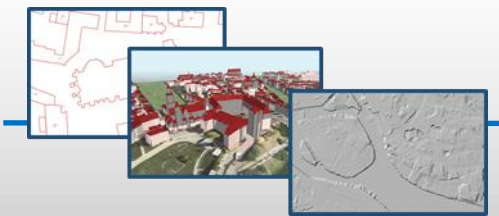
All ASG-EUPOS services available for free since October 2nd 2022

2 YEARS

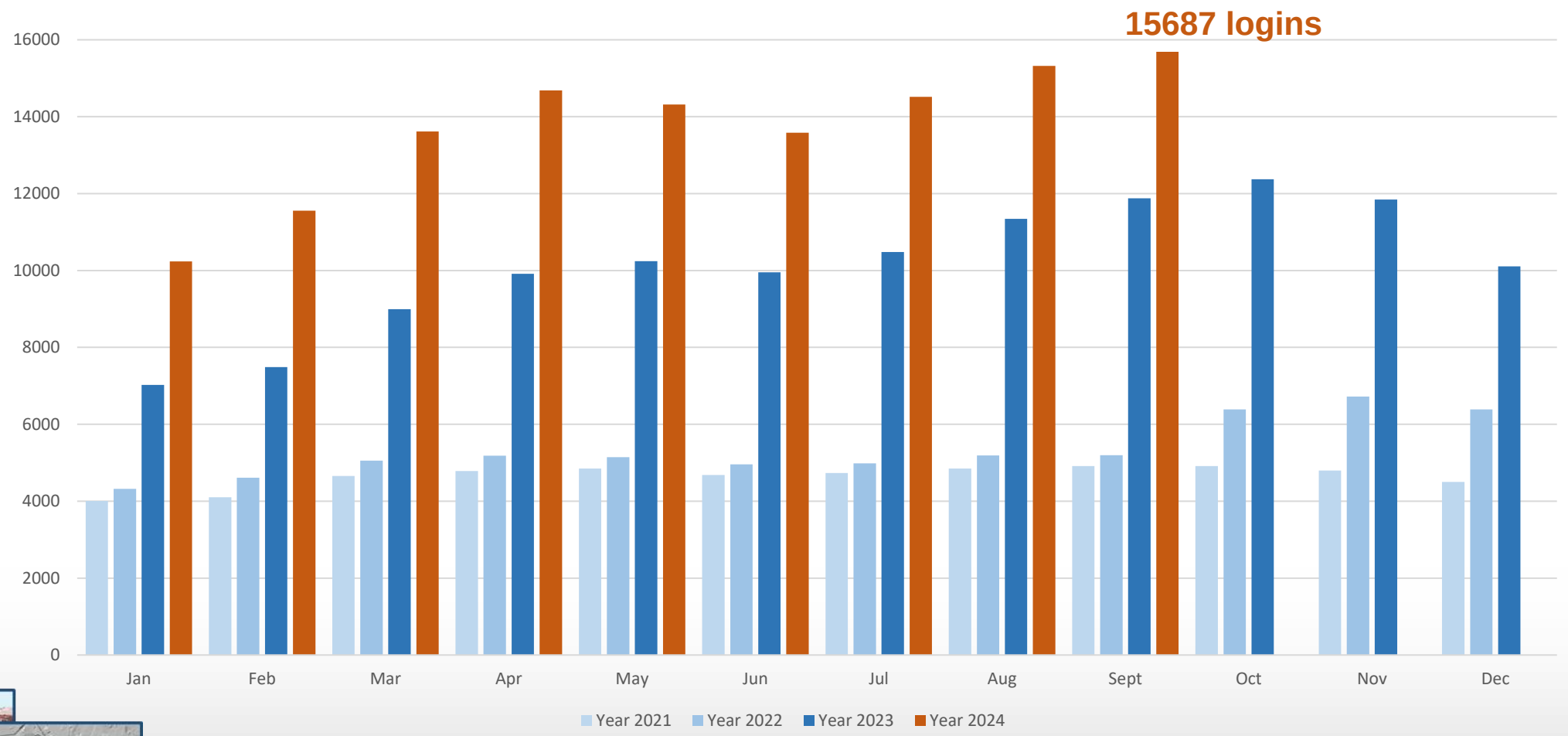
- Simple website registration needed
- Services avaiable for autanticated users
- One login per GNSS device – additional logins avaiable for request

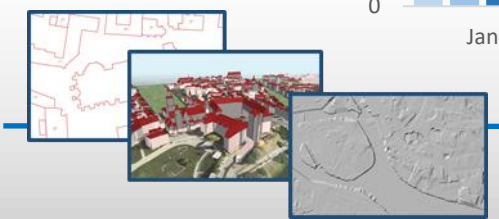


ASG- EUPOS – statistics

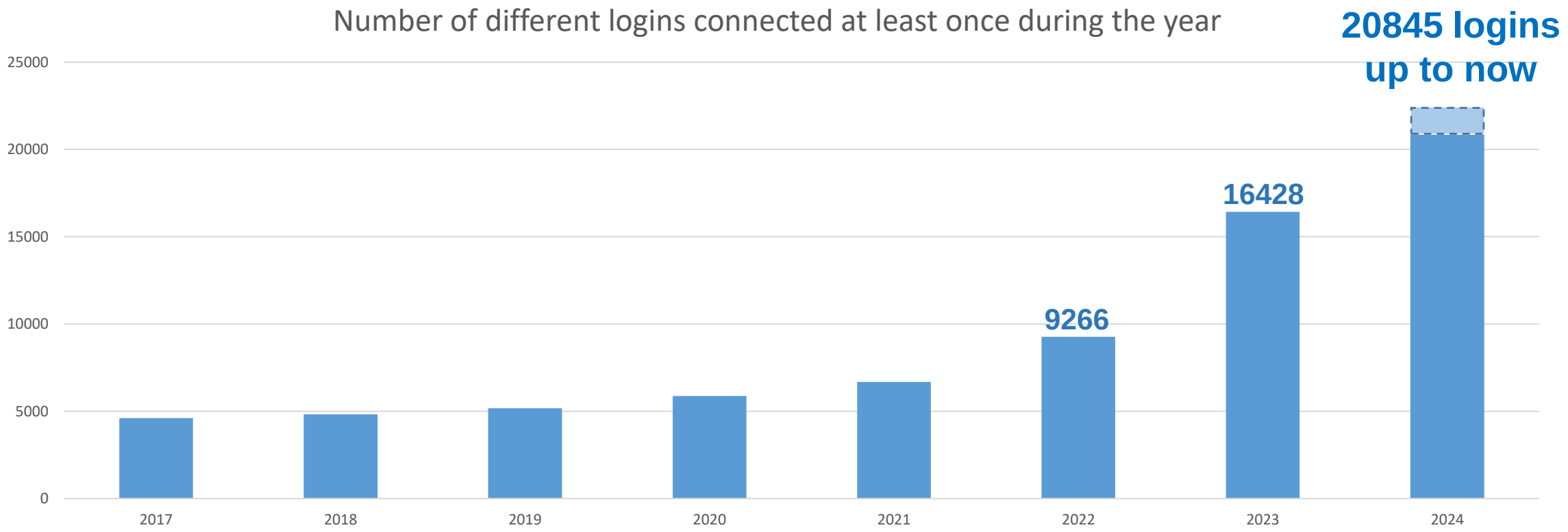
HEAD OFFICE OF GEODESY AND CARTOGRAPHY

Number of logins connected to the system during the month

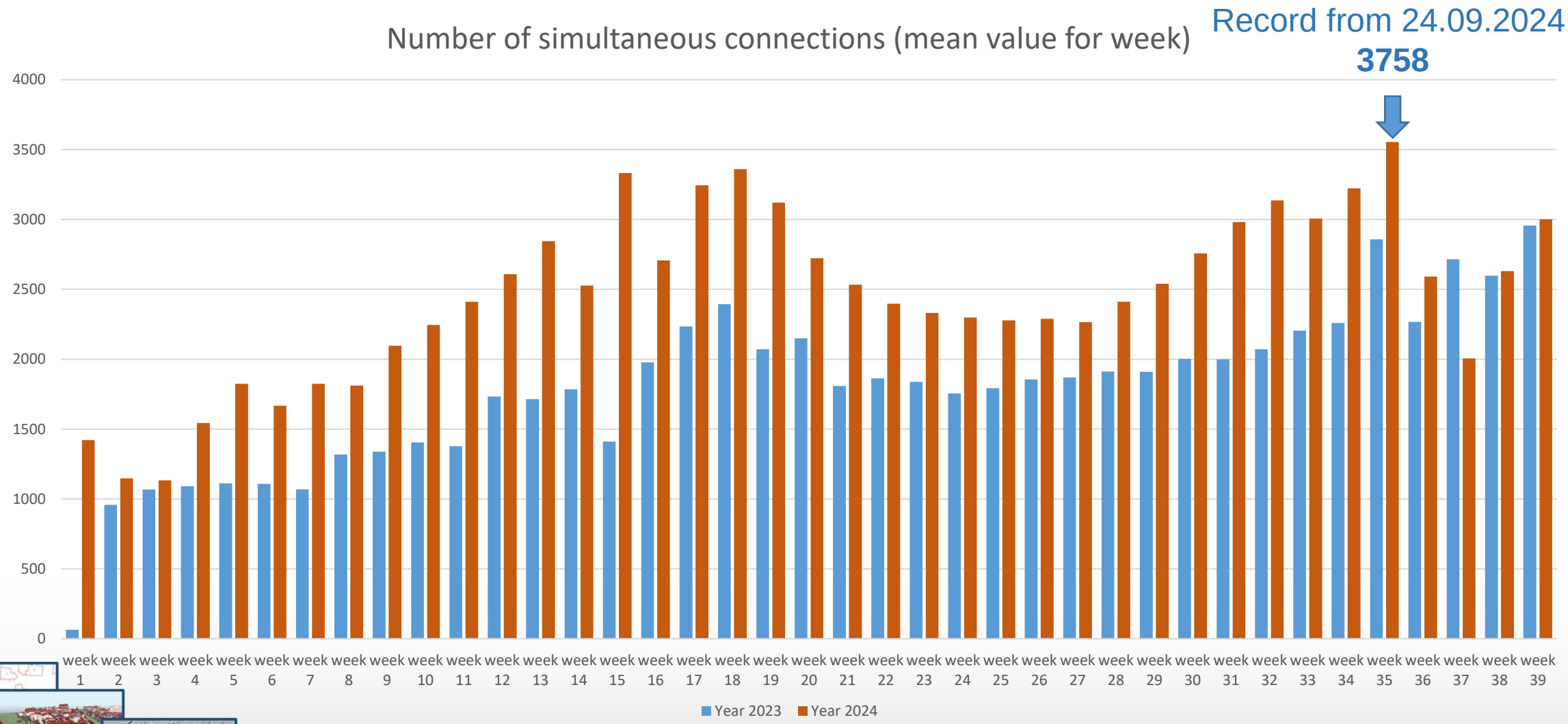




ASG- EUPOS – statistics



ASG- EUPOS – statistics



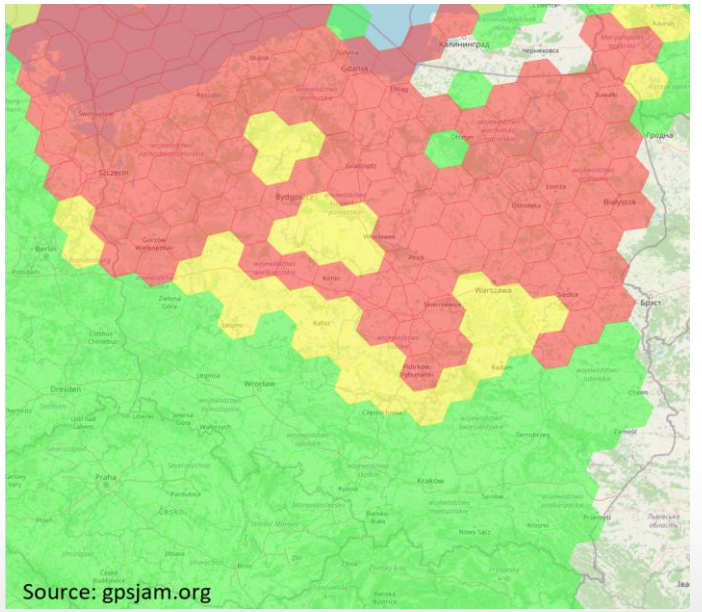
Real-Time GNSS Monitoring System (RTGMS)

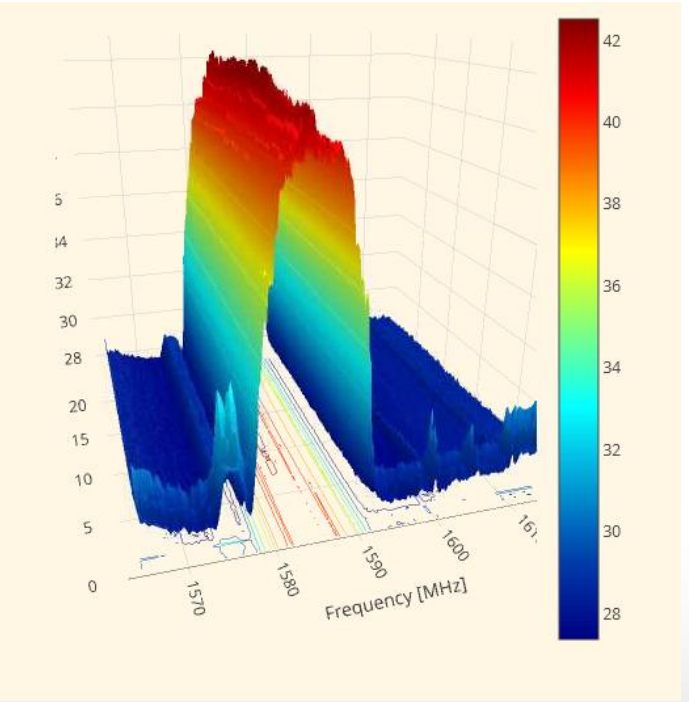
HEAD OFFICE OF GEODESY AND CARTOGRAPHY

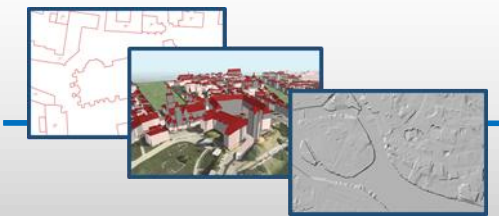
In cooperation with National Institute of Telecommunication we have applied for ESA – NAVISP project for monitoring of GNSS bands.

Pilot coverage is planned for most affected region northern-east part of Poland.

Agreement has been signed on 18th of October 2024.







Real-Time GNSS Monitoring System (RTGMS)

RTGMS

038 - REAL-TIME GNSS MONITORING SYSTEM FOR POLAND (RTGMS)

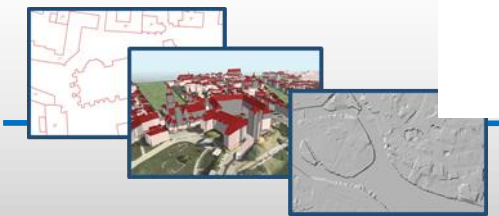
Status: On Going

Activity Code: NAVISP-EL3-038

Start date: 21/10/2024

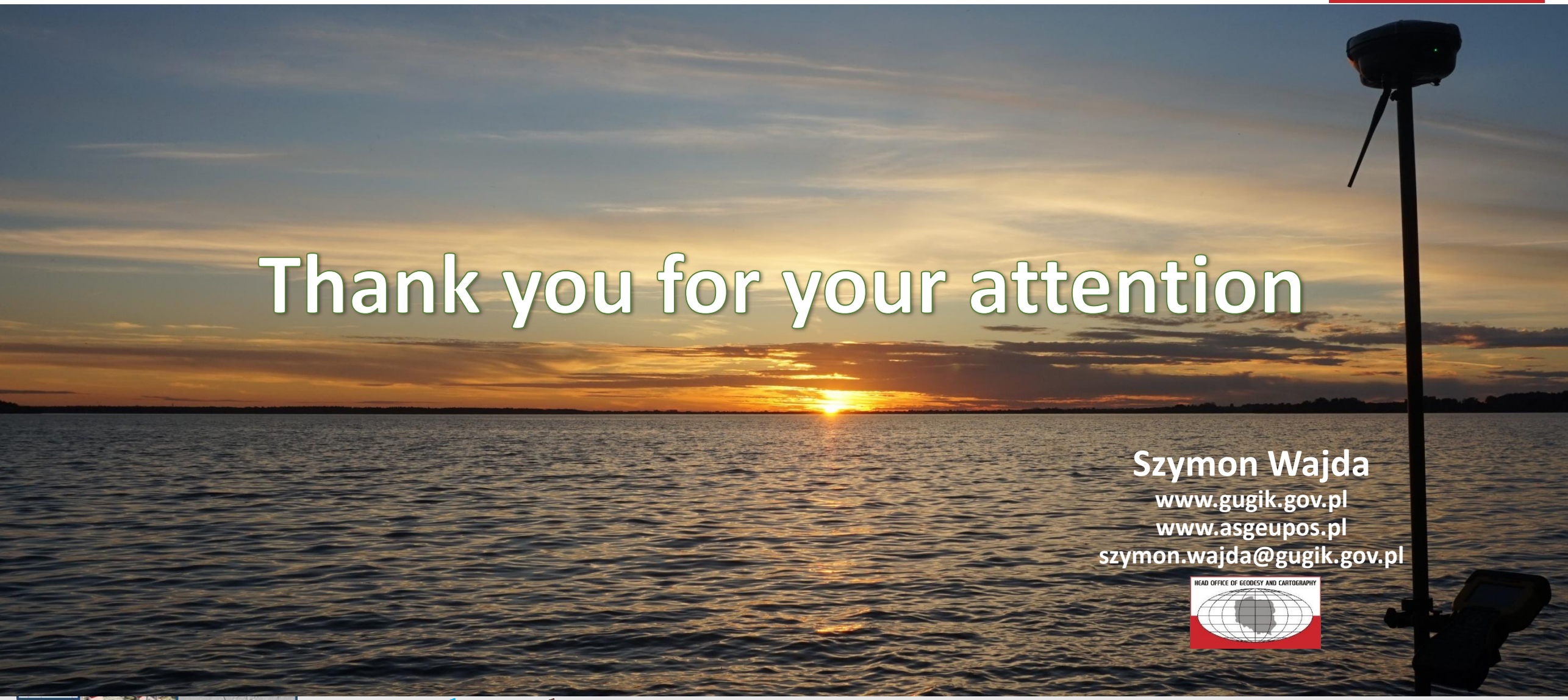
Duration: 18 Months

Reliable and uninterrupted access to satellite navigation data is nowadays a key element for various branches of economy, security and safety. At the same time, GNSS systems are not 100% reliable and the issue of interference (both unintentional and intentional) affecting their operation is becoming more and more significant – especially in current geo-political situation. That is why a constant monitoring of GNSS signals and detection of



New webpage of ASG-EUPOS system

- Completelly new webpage engine based on Wordpress
- HTTPS security standard
- All info from previous version
- Additional „Space weather” tab
- English version



Thank you for your attention

Szymon Wajda

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