

ROMANIA – NATIONAL REPORT

Miluță FLUERAȘ
Head of ROMPOS Bureau



Lastest updates

Active Stations

75

Data Exchange

20 stations

Galileo Stations

18 (8new)

Running Software

Leica GNSS Spider 7.7.1

app.rompos.ro



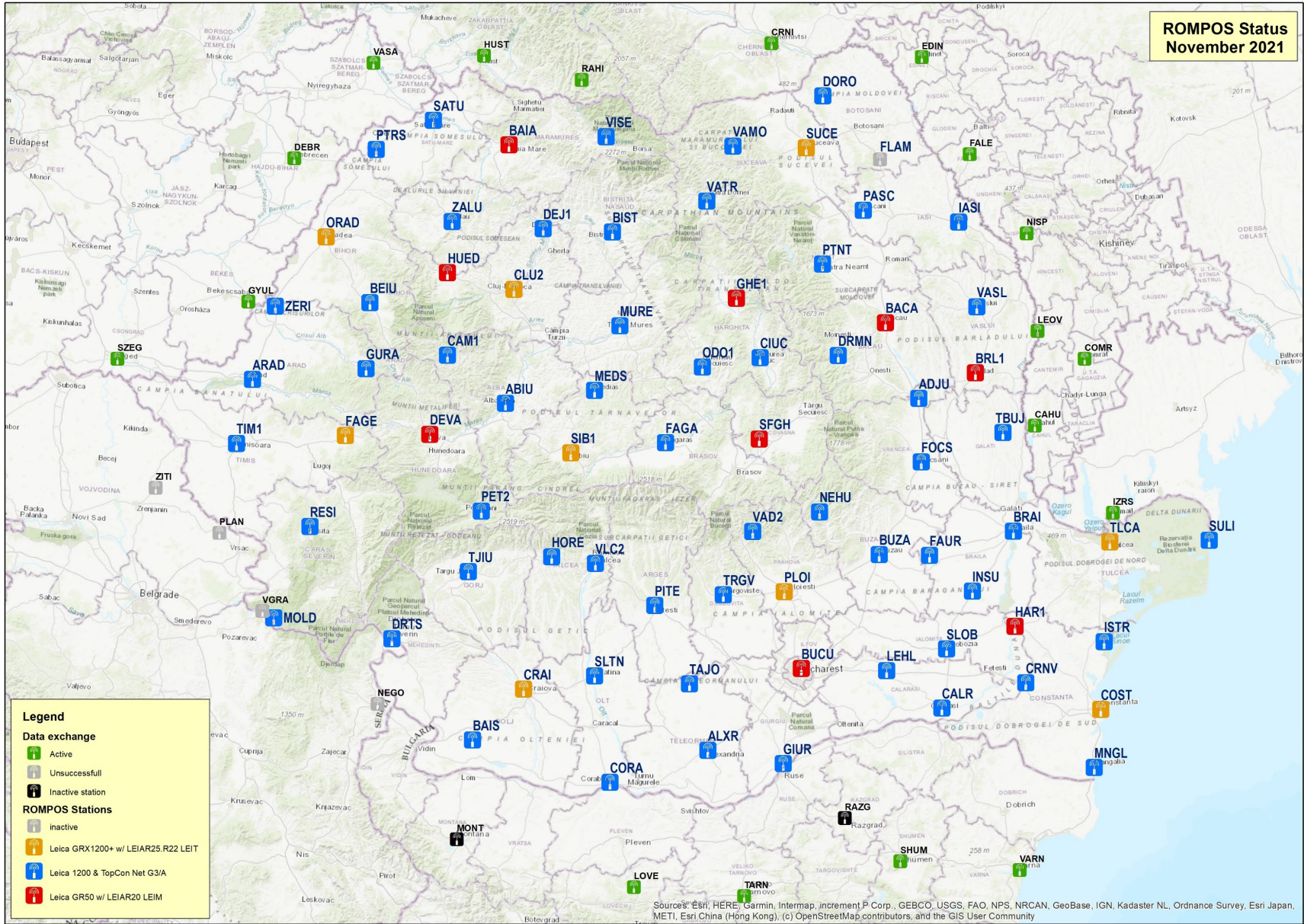
2020

7 +1 GNSS stations with new equipments

Bacău, Baia Mare, Bârlad, Deva, Gheorgheni, Hârșova,
Sfântu Gheorghe and Bucharest

Leica GR50 + LEIAR20 LEIM

Current status



New Equipments

8 stations

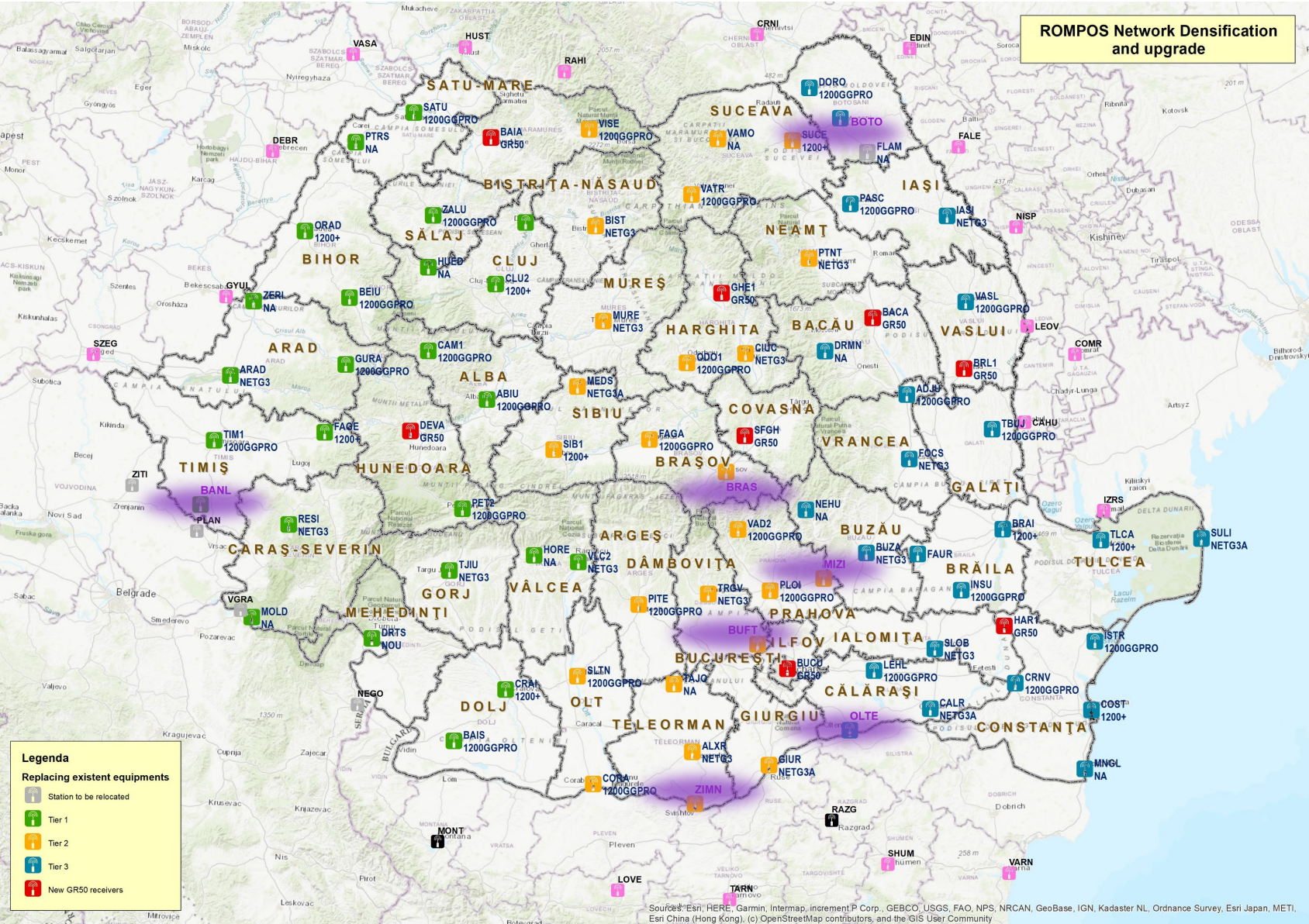
Republic of Moldova
Galileo support

6 stations

Southern Border

Coverage problems

Network upgrade



Densification

7 new locations

Future densification

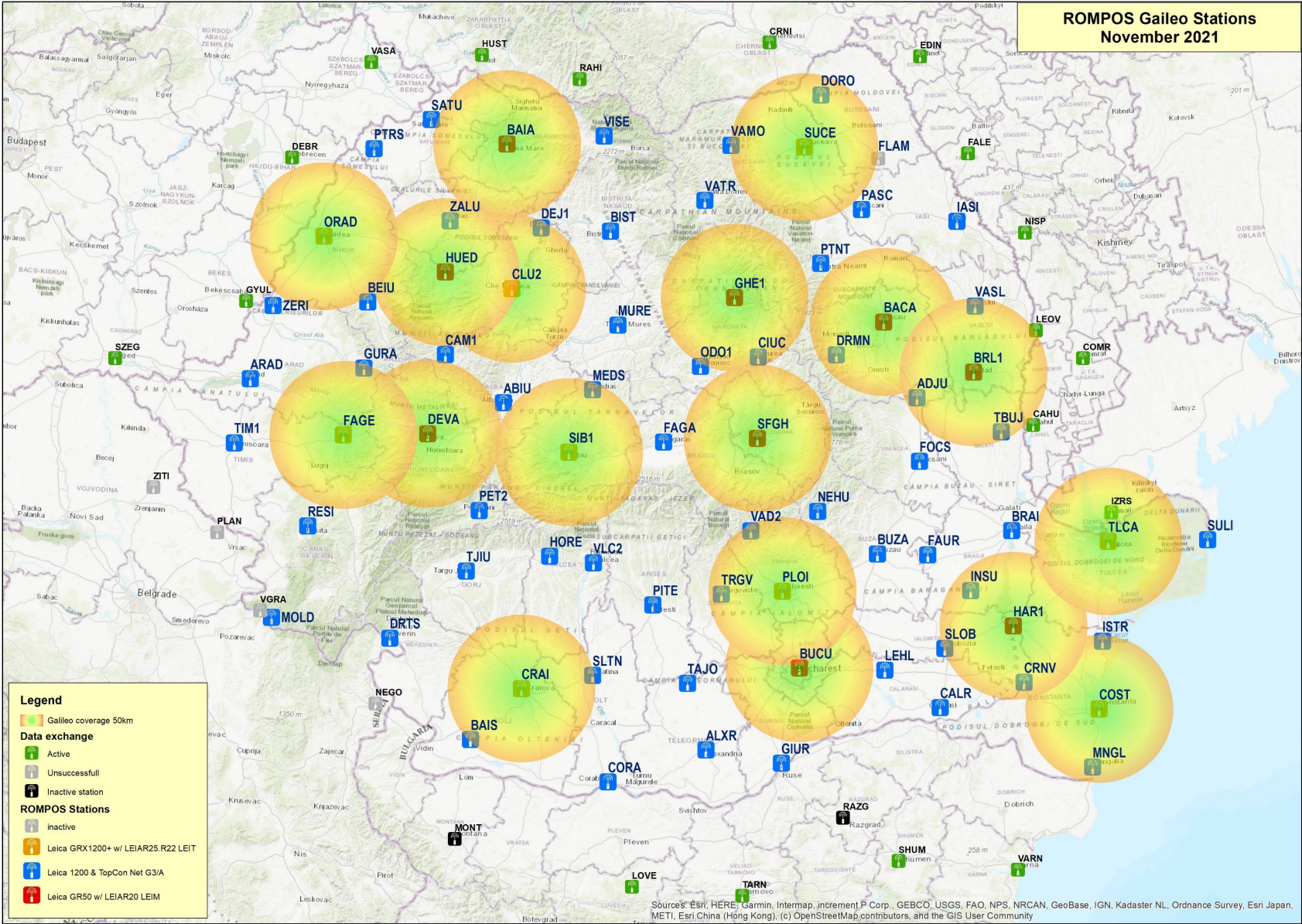
In plan

Procurement

74 new receivers –
undergoing

Galileo coverage

Galileo
18 stations (8new)

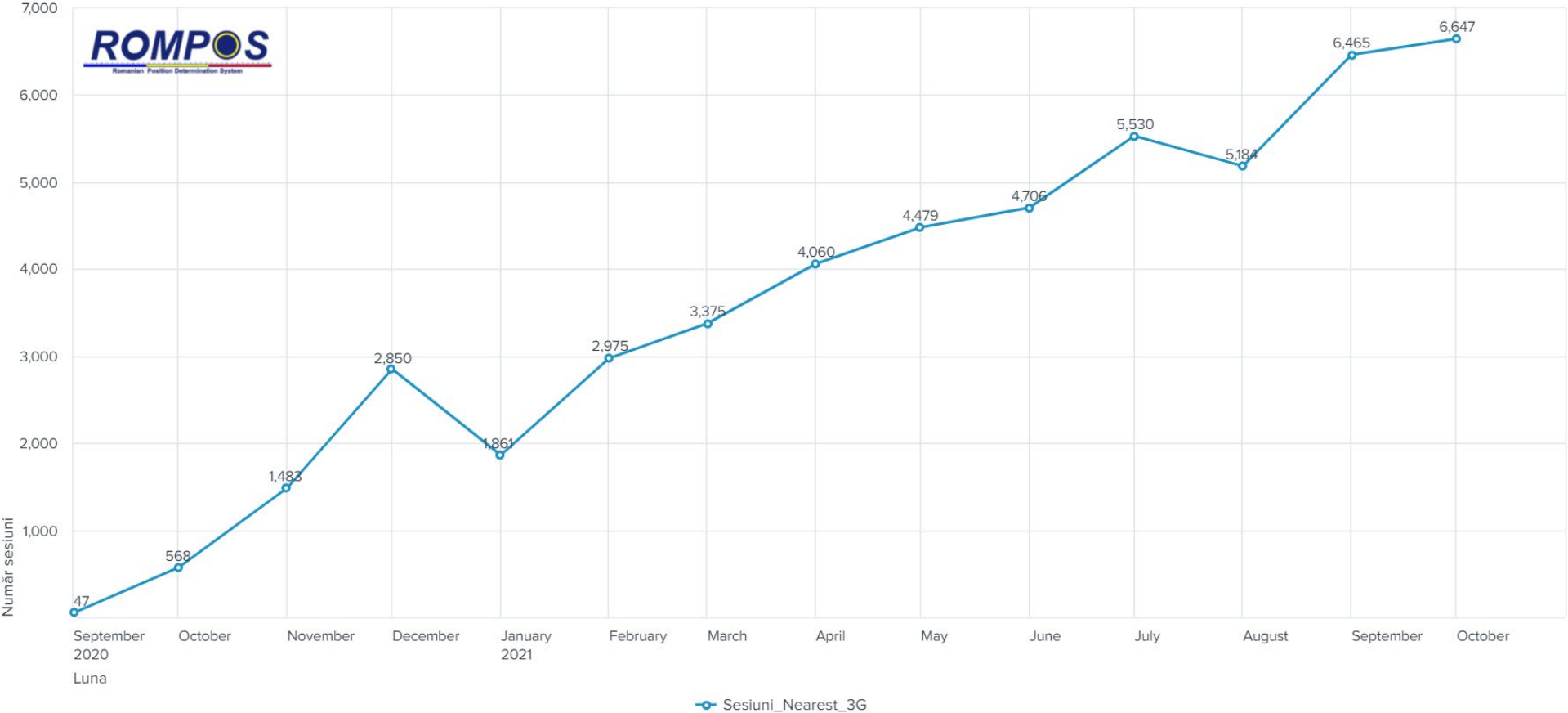


Usage of Nearest 3G product Galileo

Annual usage trend for 3G

increase for the Nearest_3G sessions
(GPS+GLONASS+Galileo)

Statistică sesiuni lunare Nearest_3G

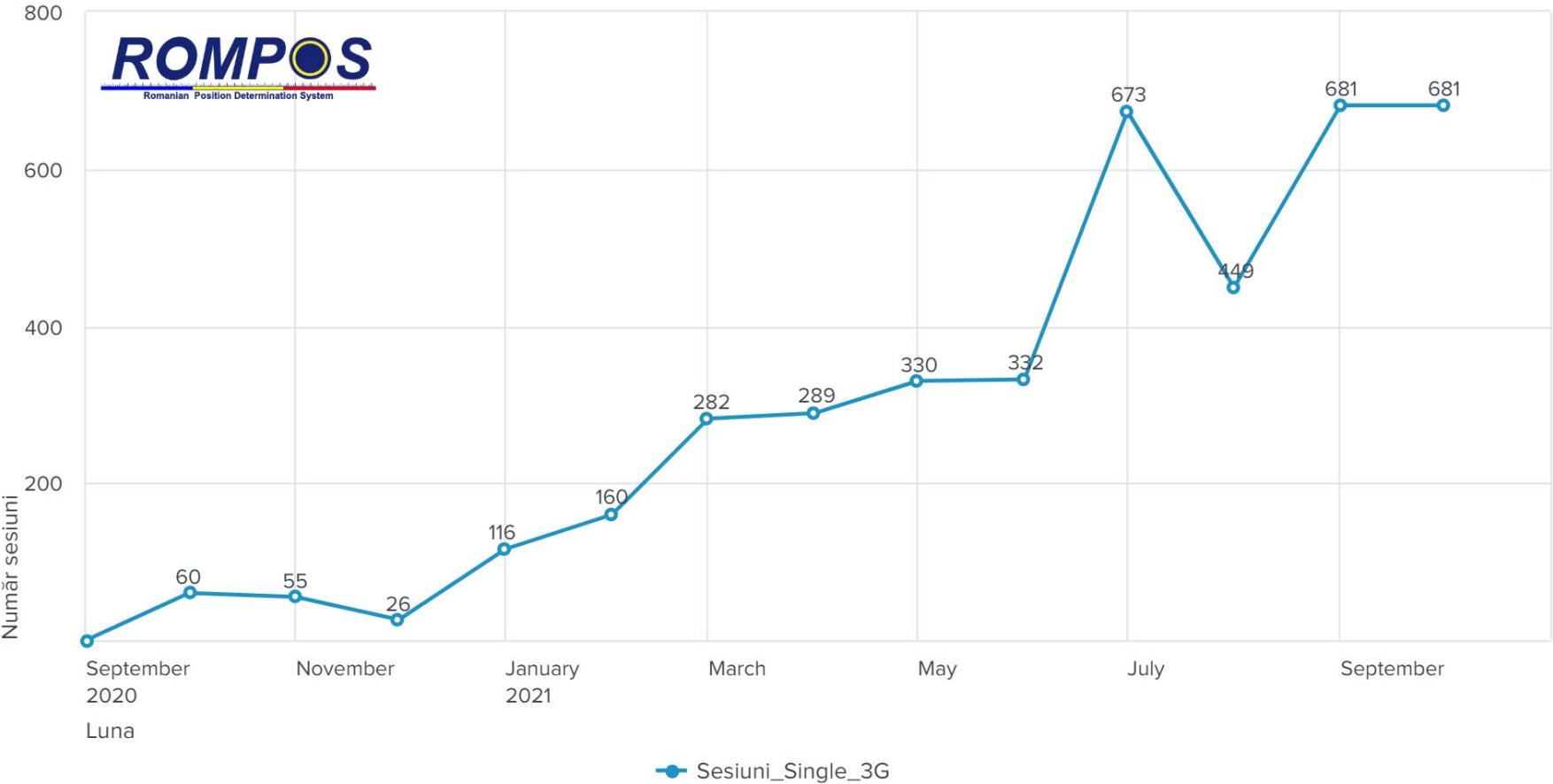


Single 3G product usage

Galileo (MSM4)

Annual trend for 3G products

Increase usage for Single_3G products
(GPS+GLONASS+Galileo)



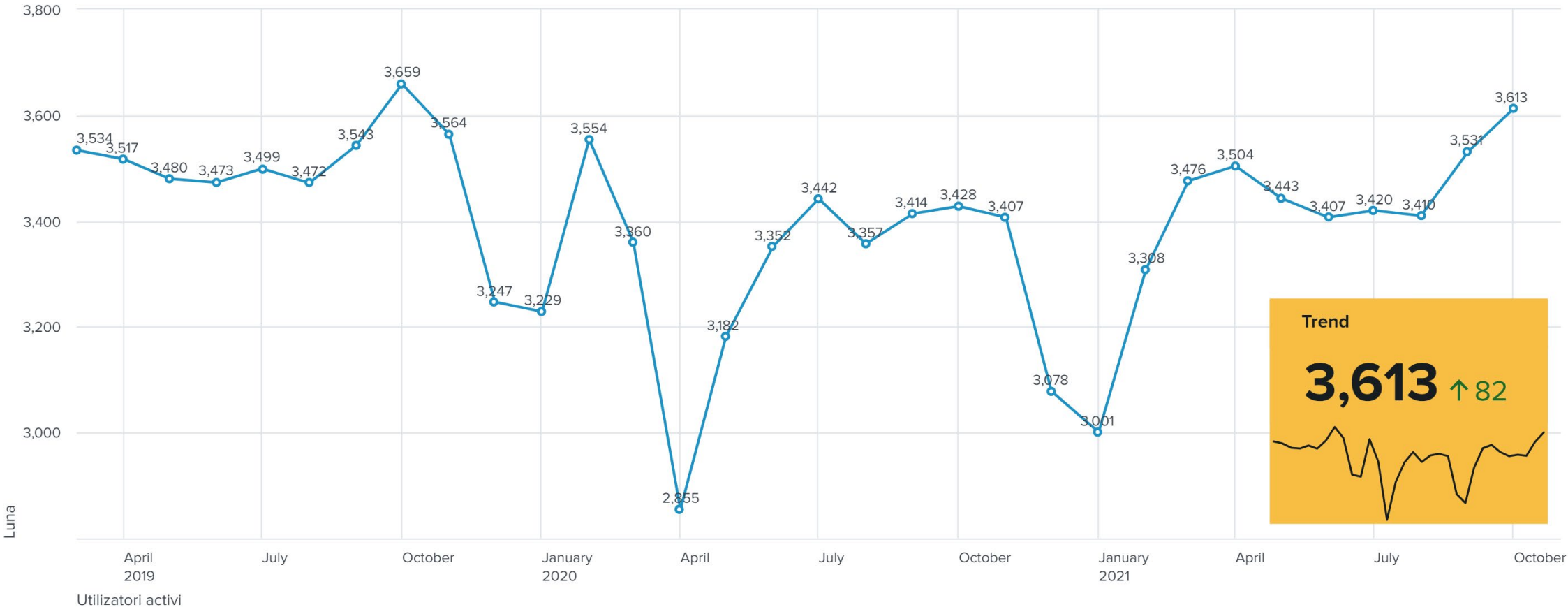
Monthly active users

users/month

Monthly RTK sessions

Mean value of aprox.3500 users/month

Utilizatori activi/lună



Monthly sessions analysis 2021

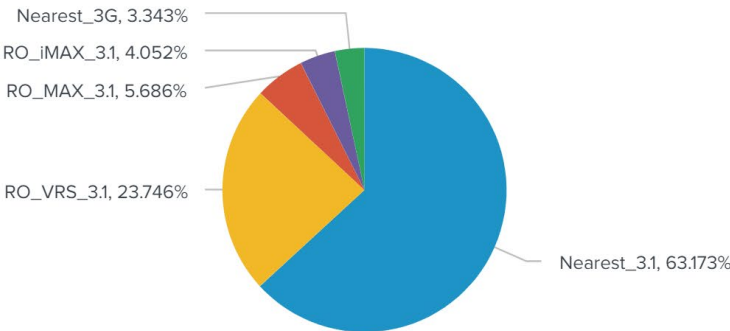
Annual trend for RTK sessions

Mean value of aprox.200K sessions/month
Constant usage

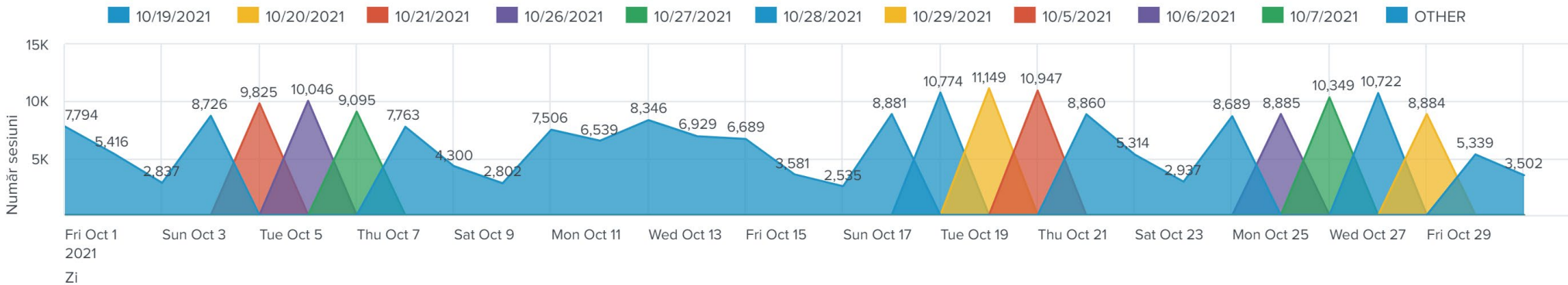
Număr sesiuni RTK lunare
(fără rovere virtuale)



Top produse RTK an curent



Sesiuni zilnice luna trecută
(fără rovere virtuale)

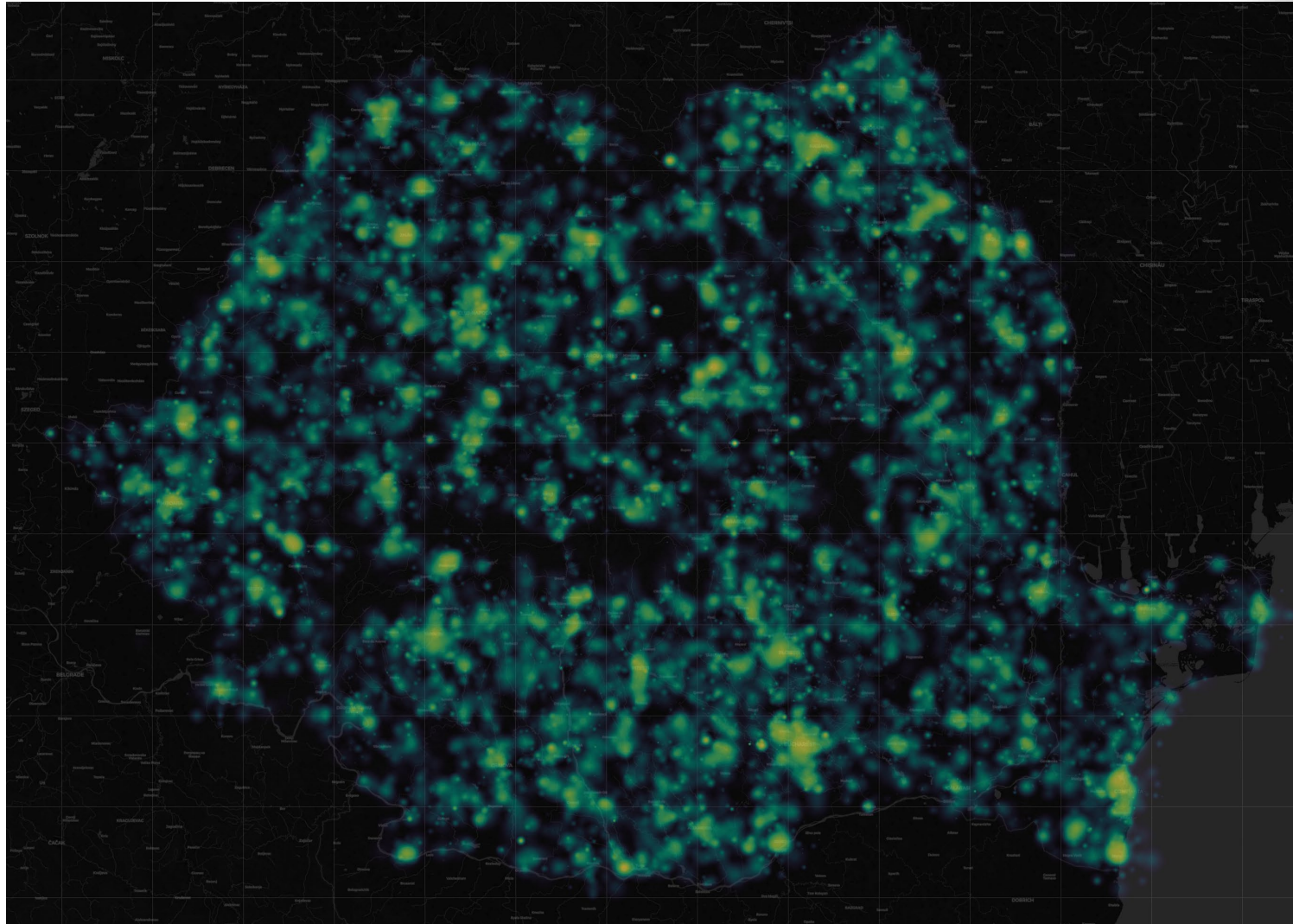


Heatmap of RTK sessions

September 2021

RTK Session density

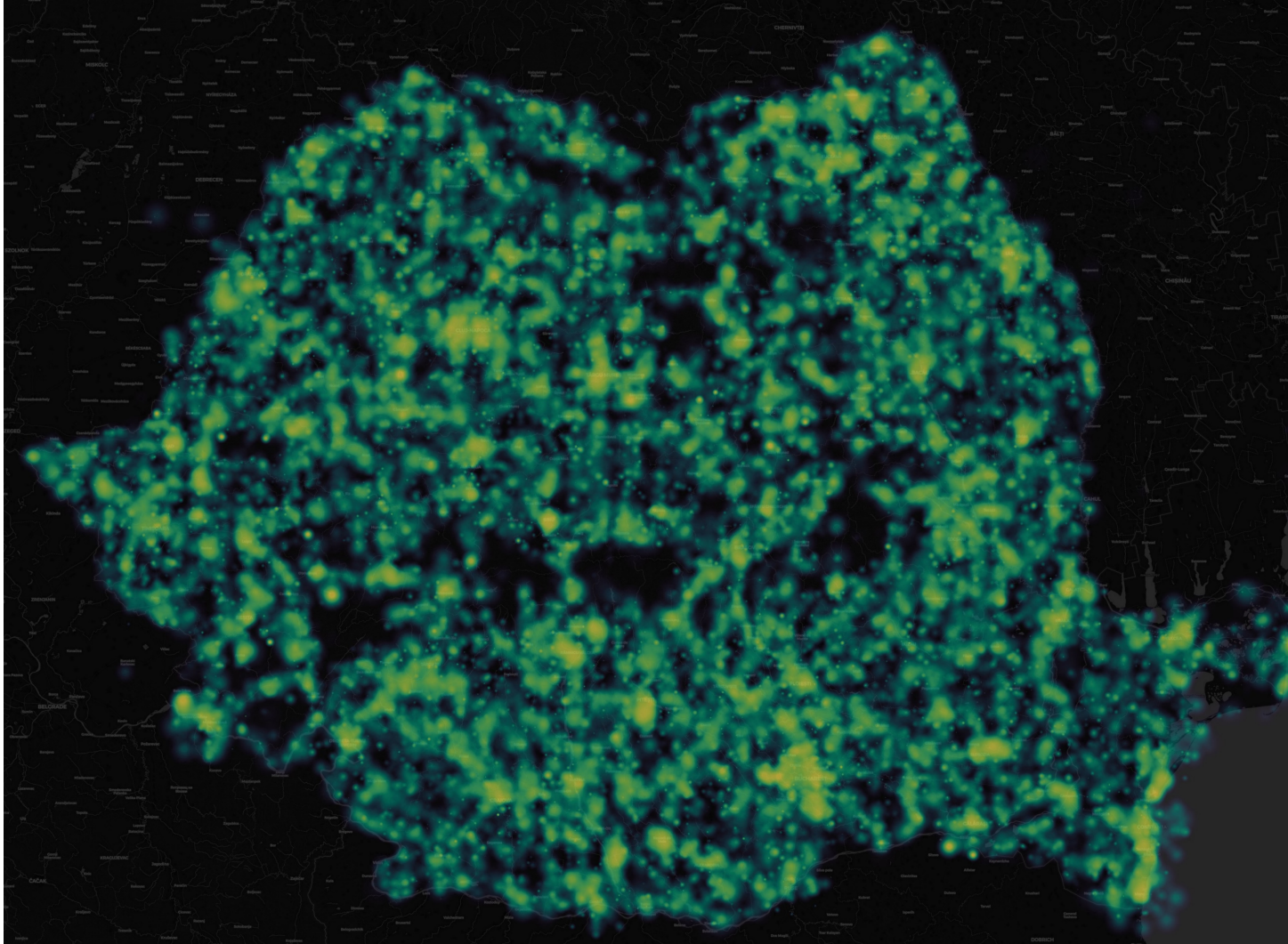
RTK session distribution for a month



Heatmap of RTK sessions 2021

RTK Session density

RTK session distribution for one year



Mobile app

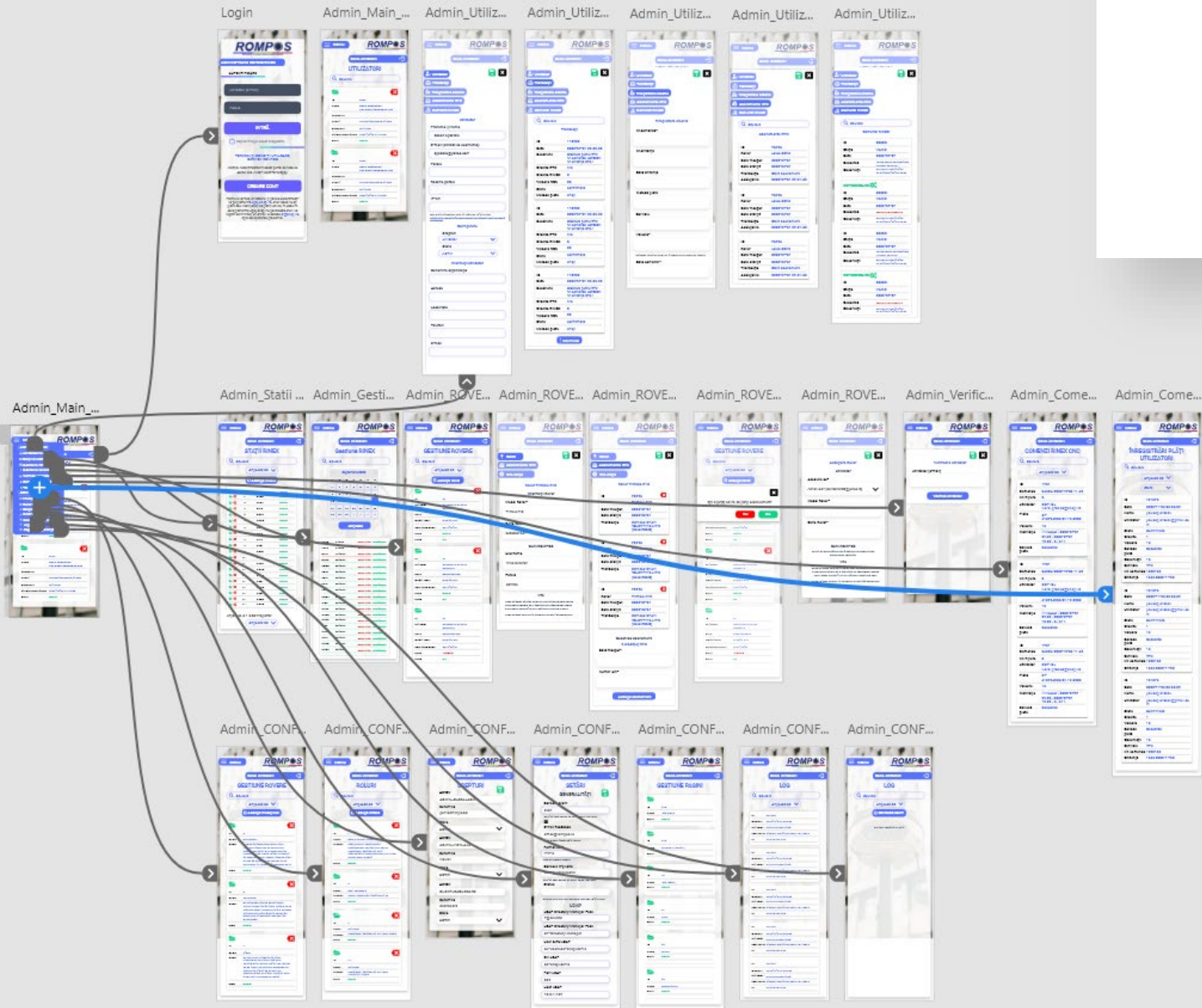
App.rompos.ro

Web based app optimised
for mobile

- ✓ RINEX extended orders
- ✓ System status



optimised to offer the user easy access to all of the desktop functions

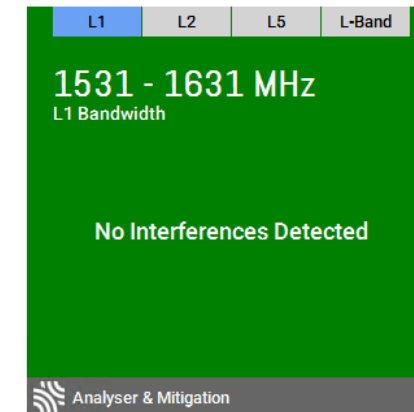
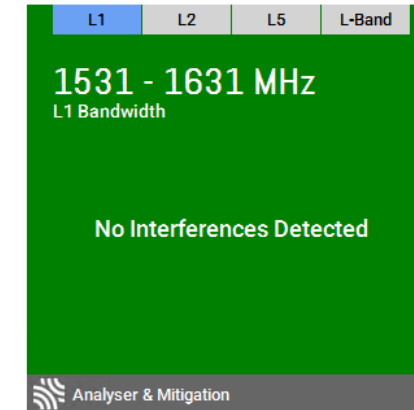
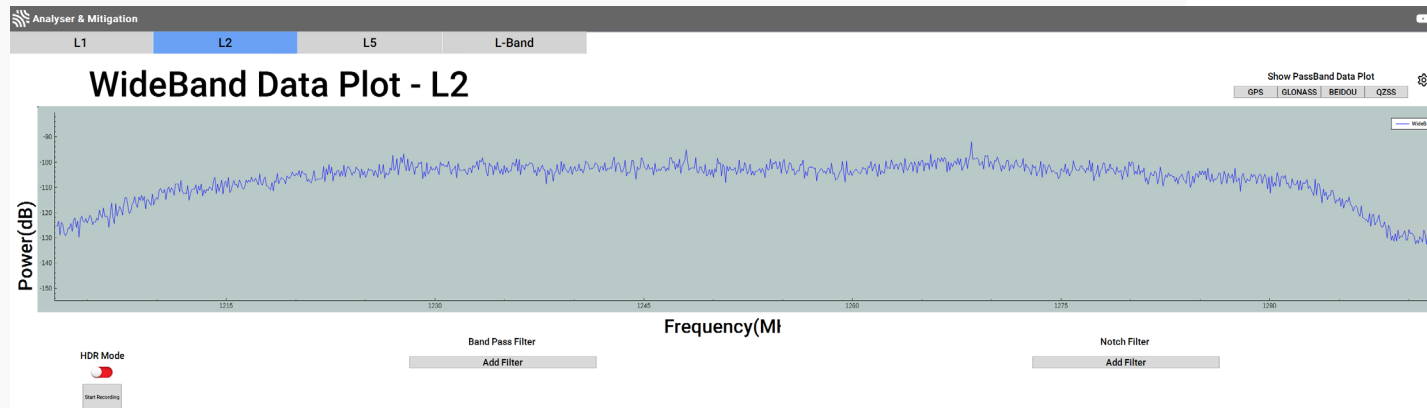
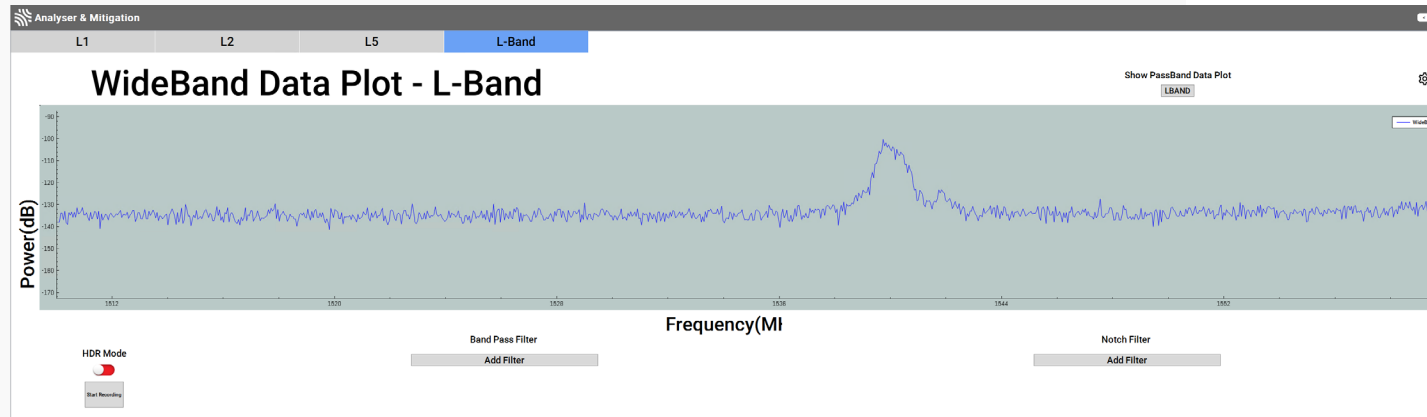


Interference monitoring on GR50

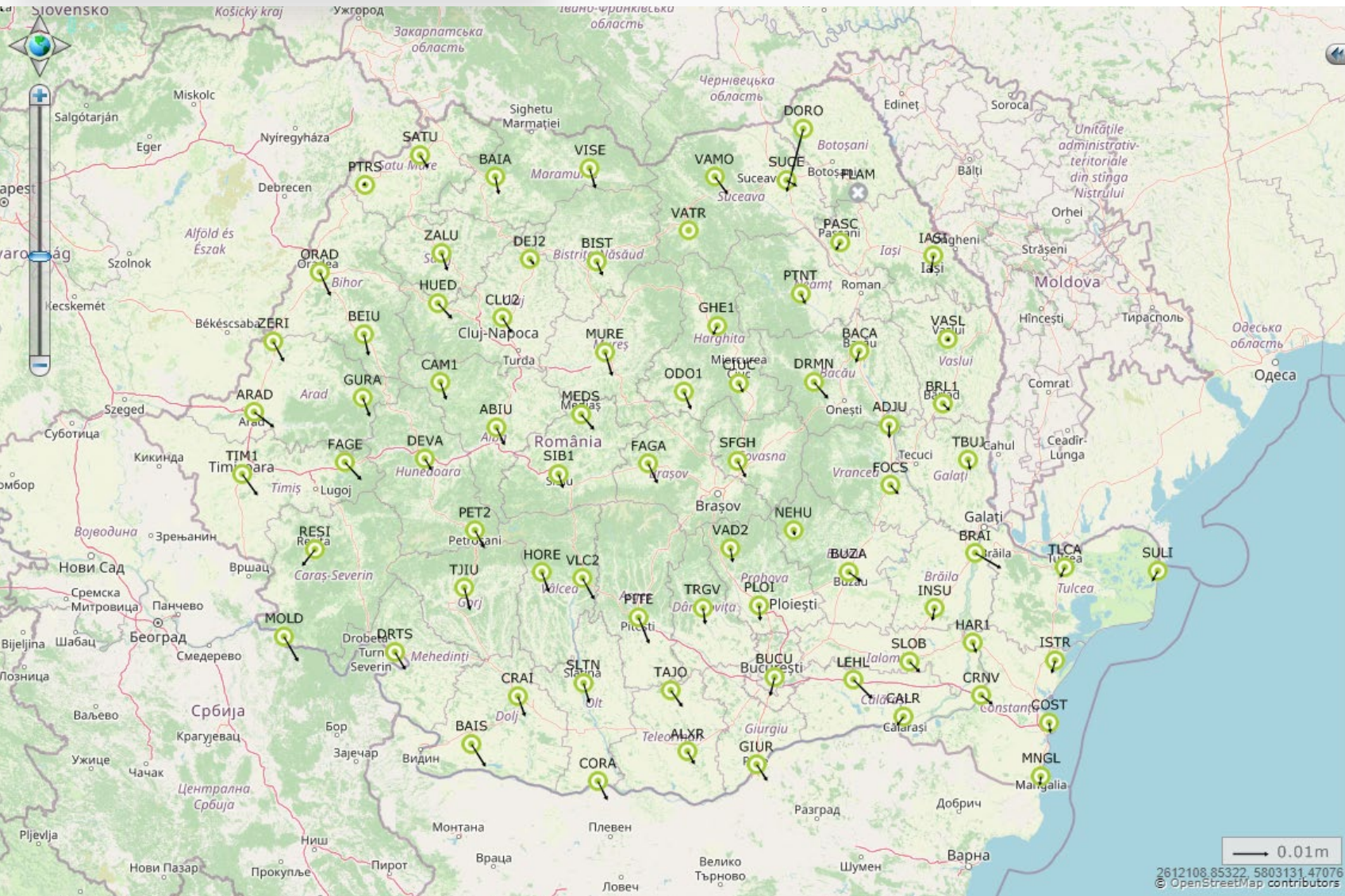
Periodic checks

✓ No incidents so far

Quality Control



2D Resulting- 2021

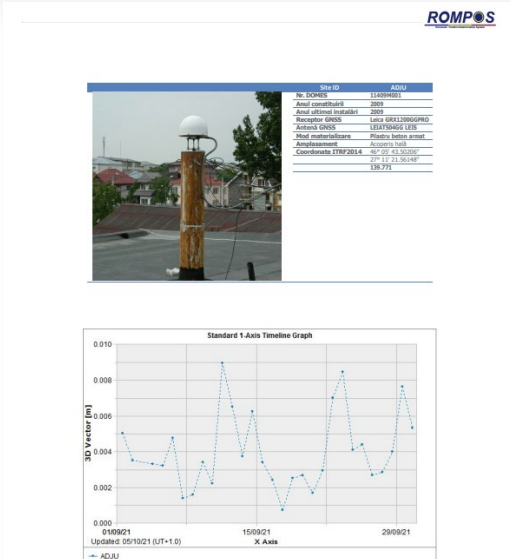


Quality Control

Crosscheck Service

GNSS antennas stability

- ✓ Monthly reports published on rompos.ro

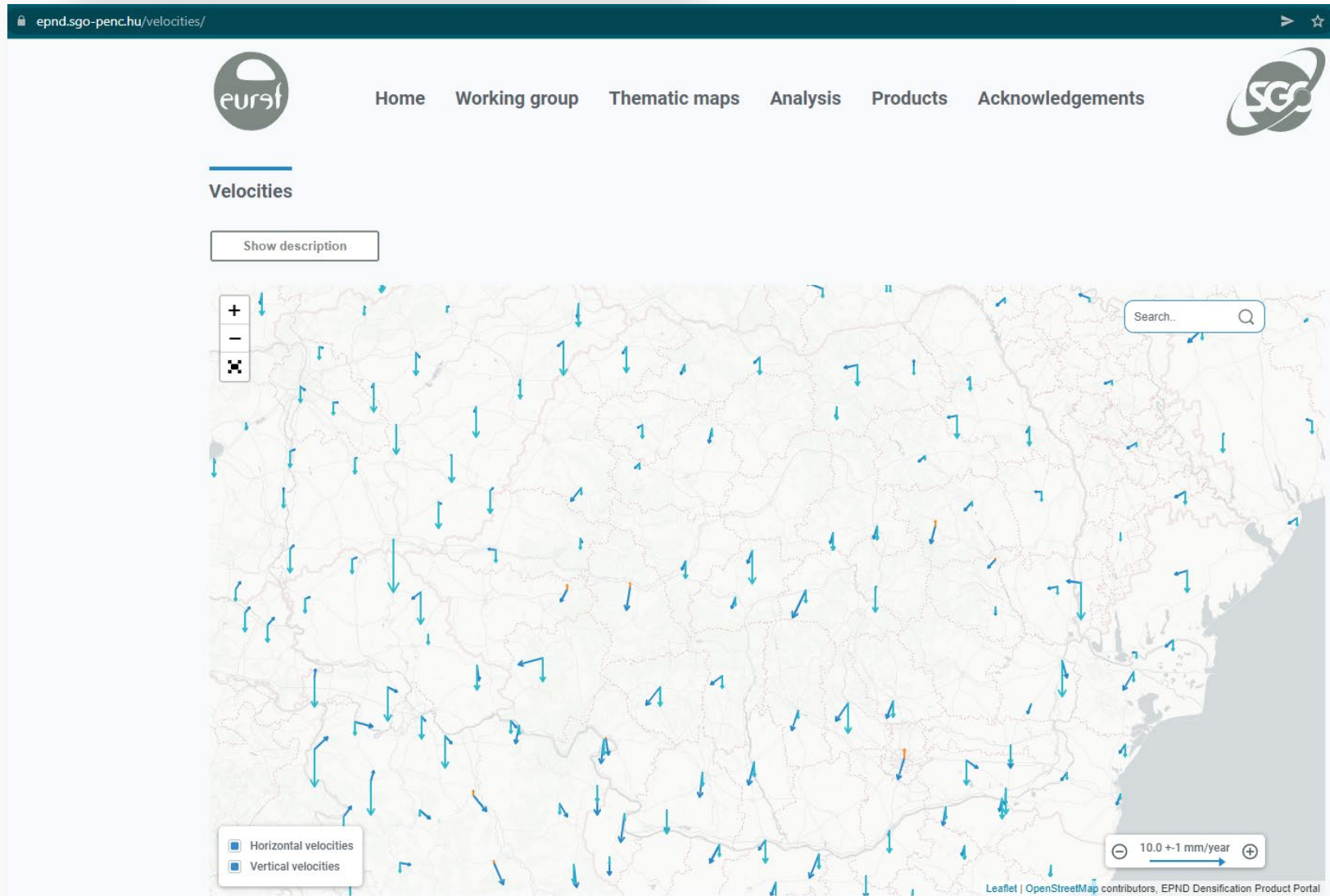


Multi-year solutions

Contribution to EPN densification

✓ Solutions for 2016-to date

Quality Control



Development in progress

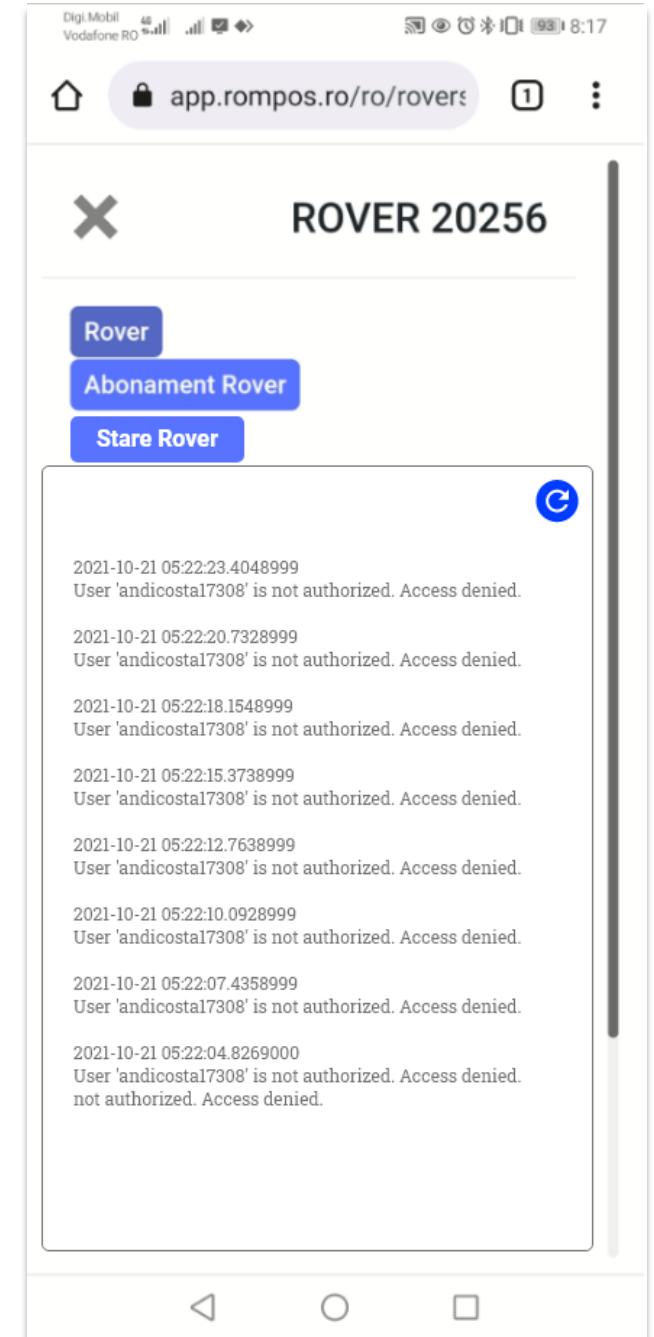
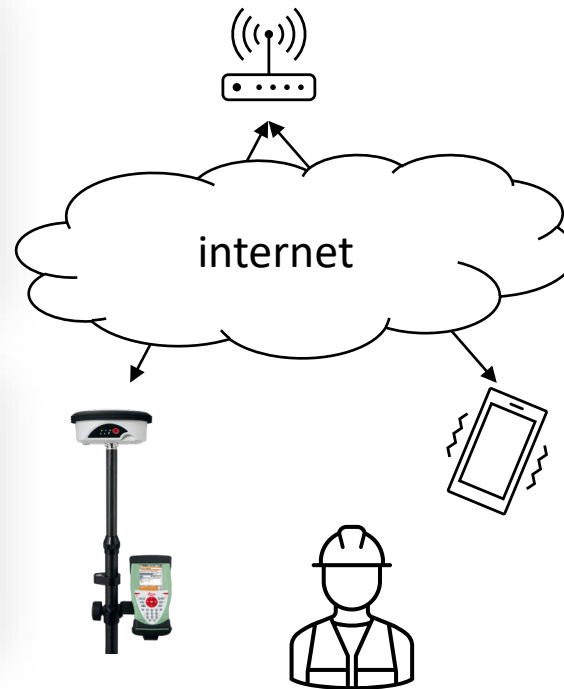
Rover Status

Utility

Ability to view **realtime** the errors generated by the rover in the system. The users can see if his connection reached the server or it generates errors.

Impact

Reduces the wait time by checking the errors generated by the system.



Development in progress

System performance transparency

- 01 Number of fixed satellites for each station
- 02 Clusters KPI
- 03 Users with fixed solution
- 04 Interserver connectivity



Realtime info

Performance indexes are relevant for the system efficiency

Development in progress

Rover activity

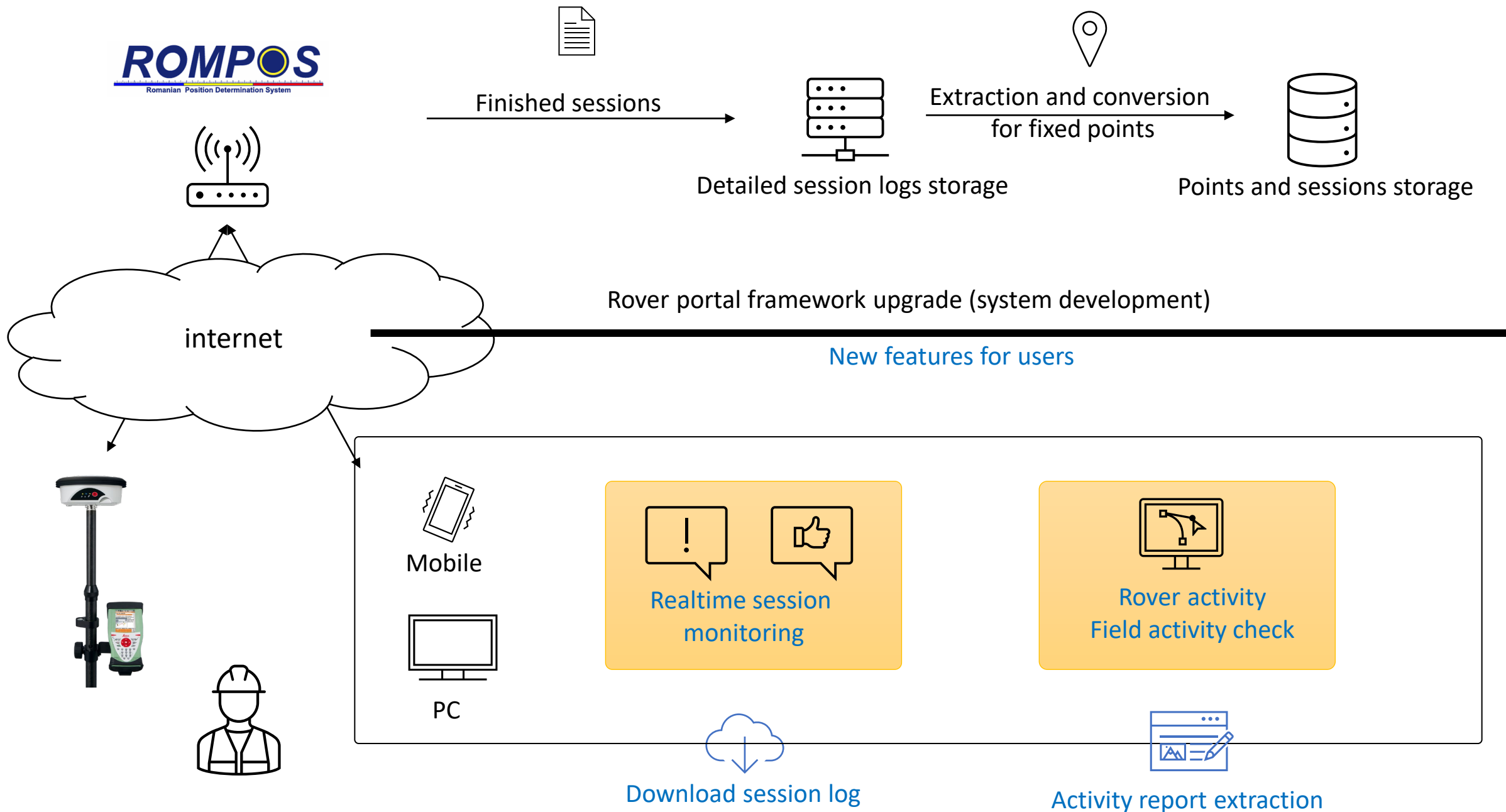
Utility

Posibilitatea de a vizualiza toate soluțiile fixe obținute de un rover într-un interval de timp definit

Rover management

Posibilitatea de a verifica activitatea în teren a roverelor

- ✓ Time-based and spatial filtering of the sessions at user level
- ✓ Styled map (colors by session) of fixed points
- ✓ Geometry (.shp) uploading tool
- ✓ Final report with all the info



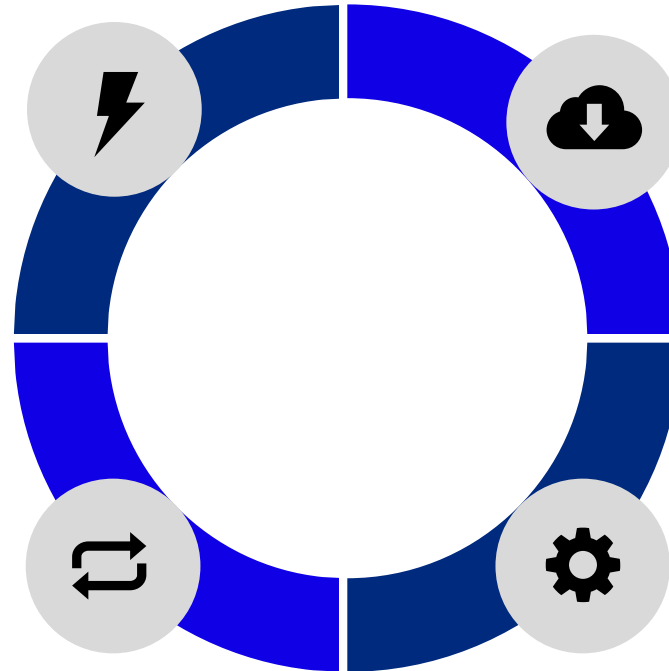
Future developments

BEIDOU support

With the network upgrade we will activate the network processing for BeiDou

Network Adjustment

Network adjustment including neighboring countries



RINEX 3 workflow

With the equipment upgrades we will provide RNX3 files in our app with backward compatibility to RNX2.

Online processing

Online processing module of static GNSS measurements.

Thank you

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