



National Report Hungary

EUREF related activities of Hungary

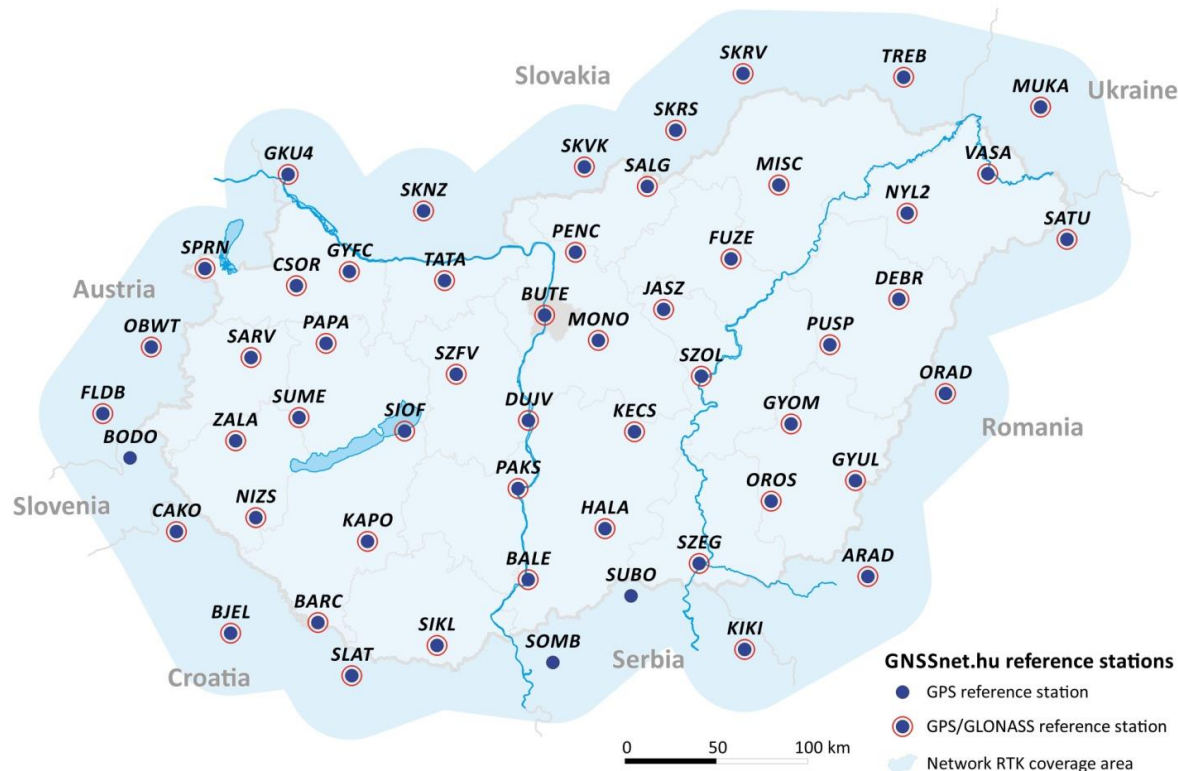
EUREF 2013 Symposium, Budapest, Hungary
31.05.2013



**Institute of Geodesy, Cartography and Remote
Sensing**

GNSSnet.hu - network

- 54 GNSS permanent stations (35 inland + 19 foreign)



- Inland stations: all GPS+GLONASS, 1 Galileo capable; individually calibrated PCV antennas; with UPS

International involvements

- 1 IGS (PENC)
- 4+1 IGS (static)



EUREF/EPN contribution

- EPN LAC
- EPN Reference Frame Coordinator
- EPN ITRF2008 / IGS08 densification solution
- EPN cumulative solutions (15 weeks update)
- Maintenance of the ETRS89 at the EPN sites
- TWG activities
- SGO Local Analysis Centre

EUREF/EPN contribution

- **SGO Local Analysis Centre**
 - Routine GNSS analysis of 35 EPN stations
 - Routine GNSS analysis of ~80 GNSSnet.hu and EPN stations
 - Contribution to EPN Rapid Analysis (Daily SINEX submission)
 - Daily rapid cumulative solution (Bernese + Catref)



New central data processing system

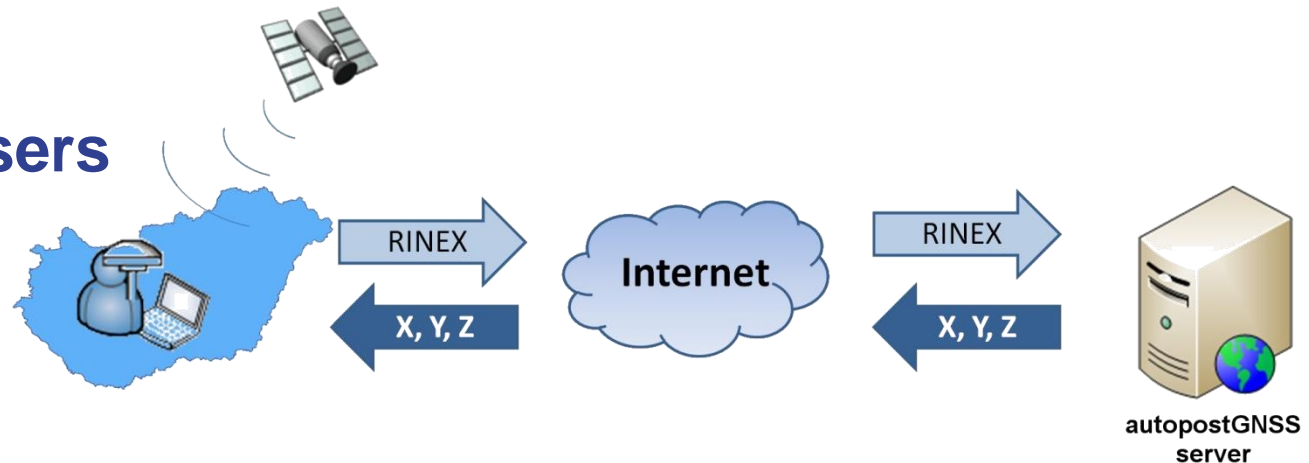
- „Minimalize the outage, maximalize the availability”
- Installed at November 2012
- New, fully backed up hardware
- Automatic reaction for errors



New service: autopostGNSS

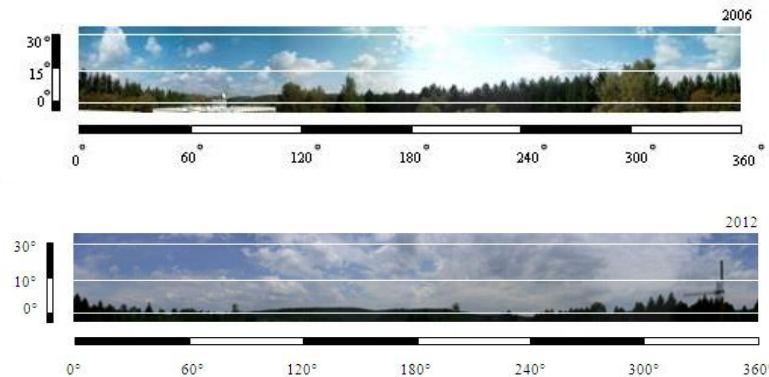
- Carries out the automatic central post-processing of the measurement data uploaded by the user
 - Static and Kinematic (plus Stop&Go measurements in the future)
 - Result: ETRS89 coordinates (plus Hungarian Unified Projection – EOVS)

- 2 % of the users



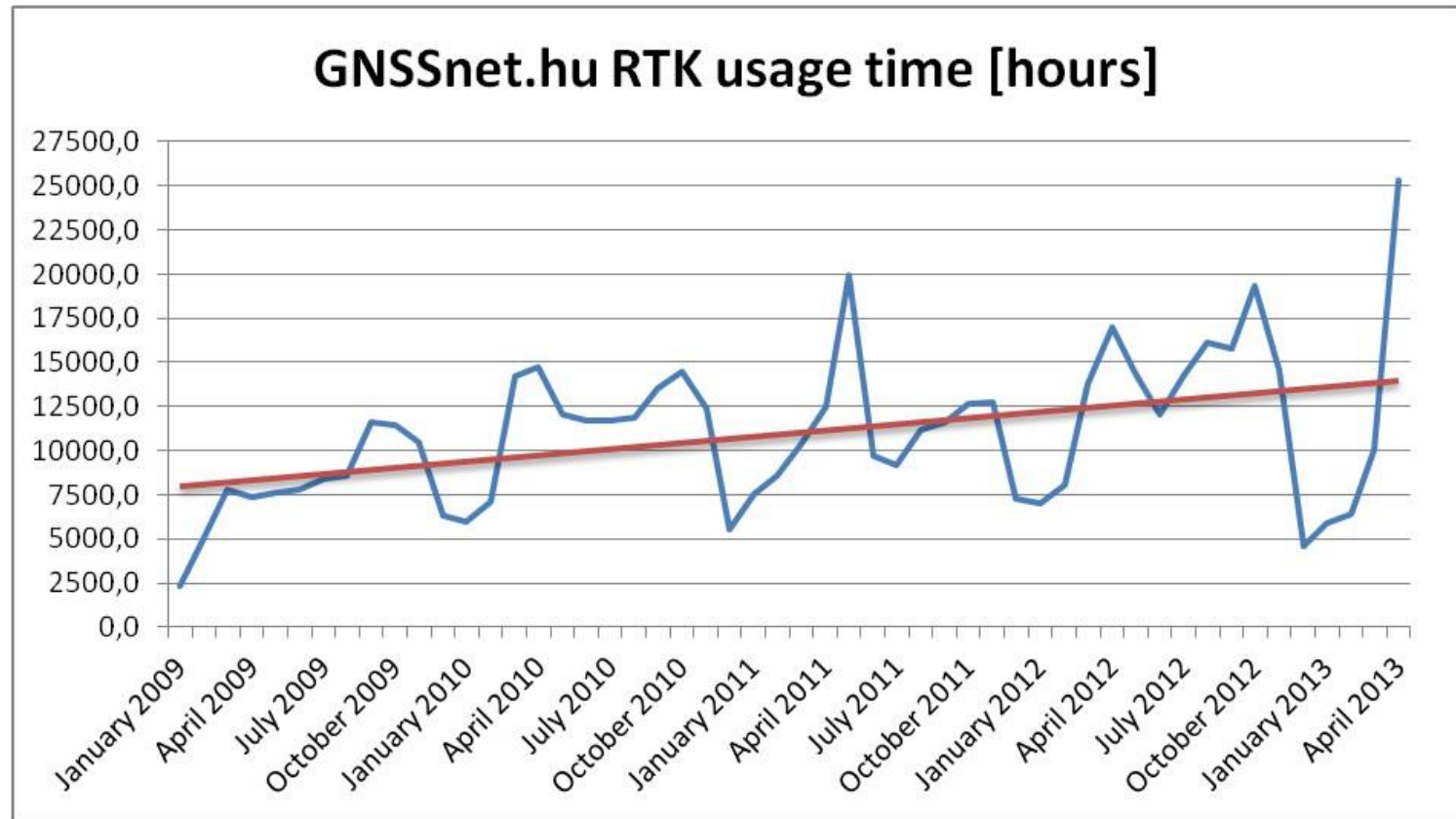
New permanent station: PEN2

- Testing since the summer of 2012
- GPS + GLONASS + Galileo
- New, higher place
 - less obstacles,
 - smaller multipath effect
- Substituted PENC in the Hungarian active GNSS network



Users of GNSSnet.hu

- ~ 900 companies with ~1400 usernames
- User number and usage still continuously increasing



Thank you for your attention!



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