



MAA-AMET 30

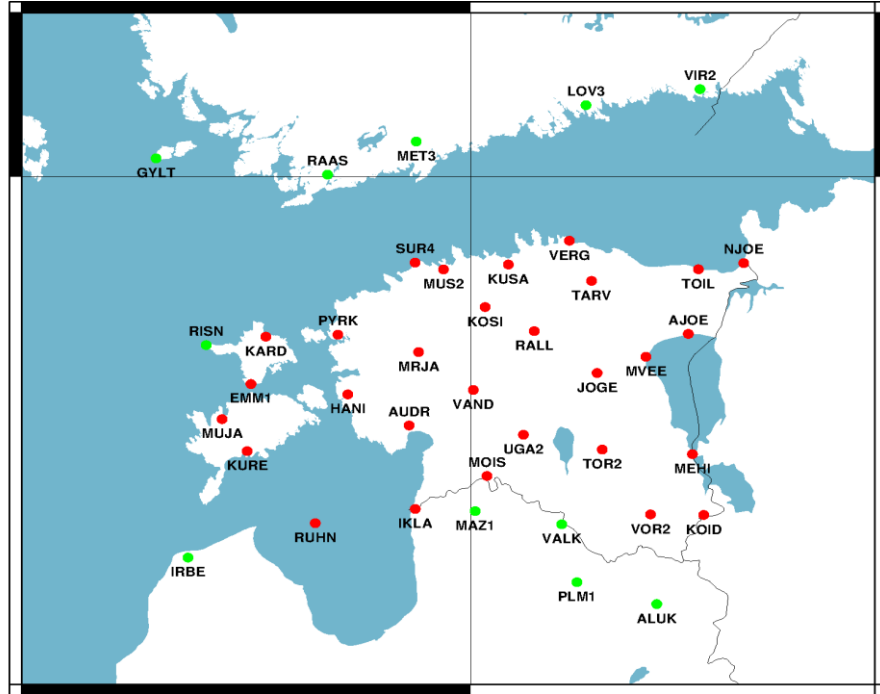
National Report ESTONIA

Jaanus Metsar, Andres Rüdja, Karin Kollo
Department of Geodesy, Estonian Land Board

22.03.2021



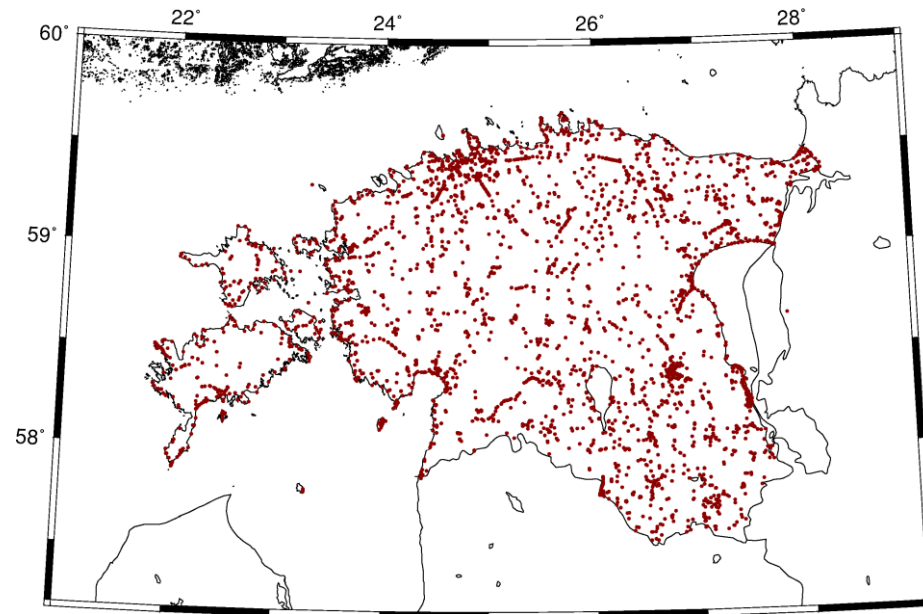
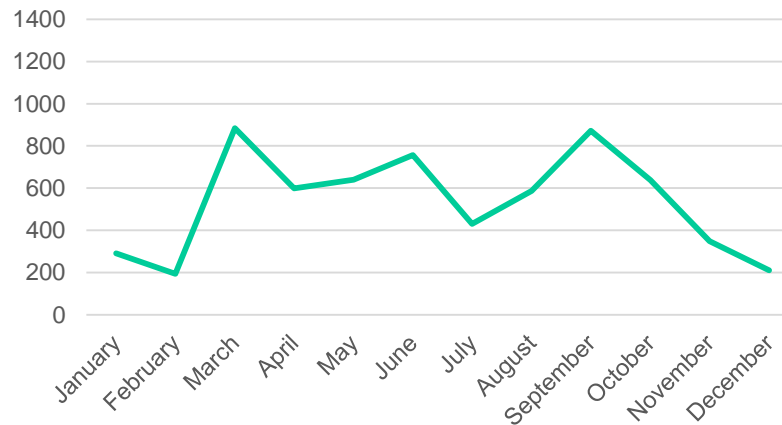
ESTPOS



- 29 ELB operated stations
- 10 stations from neighbouring countries
- 1 station from Maritime Administration
- GPS+GLONASS+GALILEO
- 14 meteosensors



2020

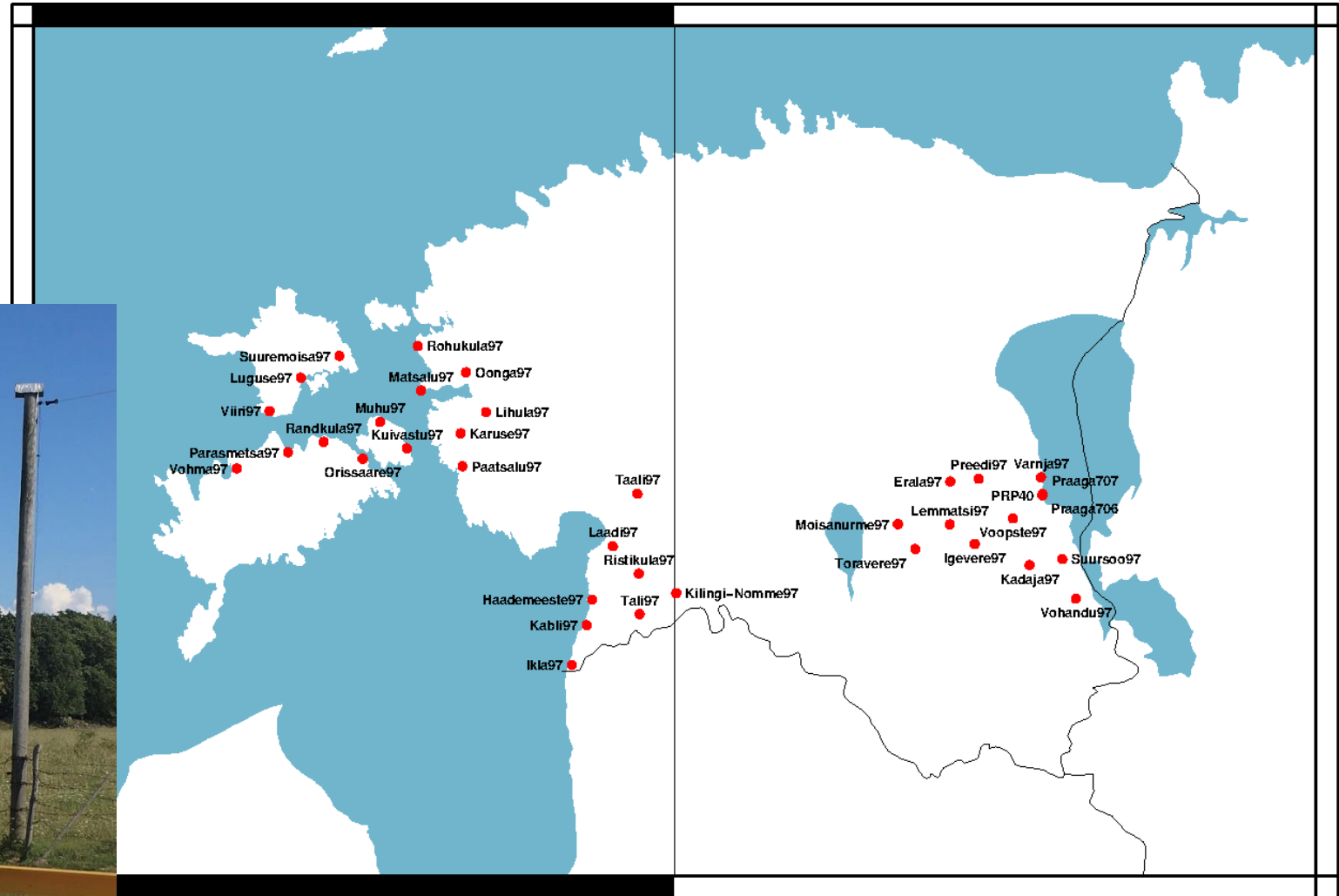




MAA-AMET 30

Remeasurement of national network points

- Summer/fall of 2020
- Static GNSS, 6h sessions
- 3 campaigns



25°



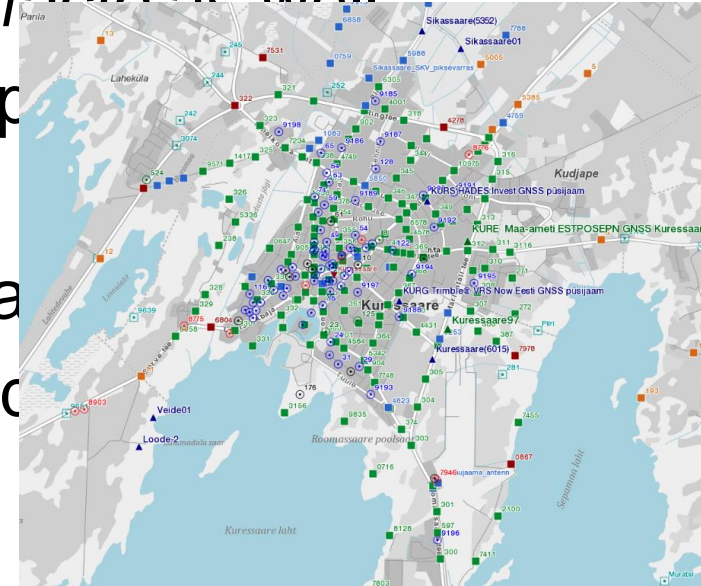


Geodetic data and local networks

- Information of about 35 000 geodetic marks is available in Estonian geodetic point database, incl points from national (45%) and local (55%) networks
- *de jure*, local authorities are obliged to take decisions on geodetic infrastructure

now ELB is willing to guide them to take actions *de facto* as well

- appropriate technical guidelines have been prepared by the Land Board to support LA
- however, decisions on the need for geodetic marks are made by LA, they also cover the costs related to the given works

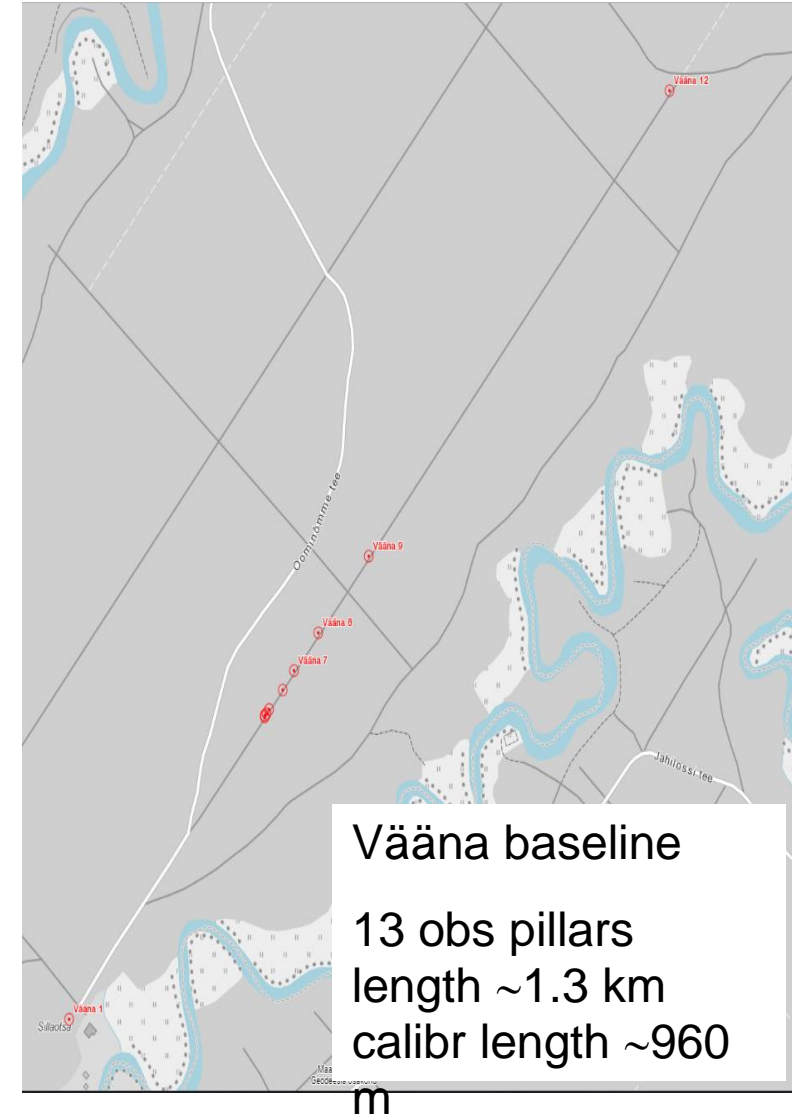




Metrology of geodetic instruments



- Calibration measurements of Total Stations performed in July 2020
- Update of meteosensors (Vaisala) in 2020
- Update of software is in progress
- The status of legal metrology of the Land Board is in the process of work

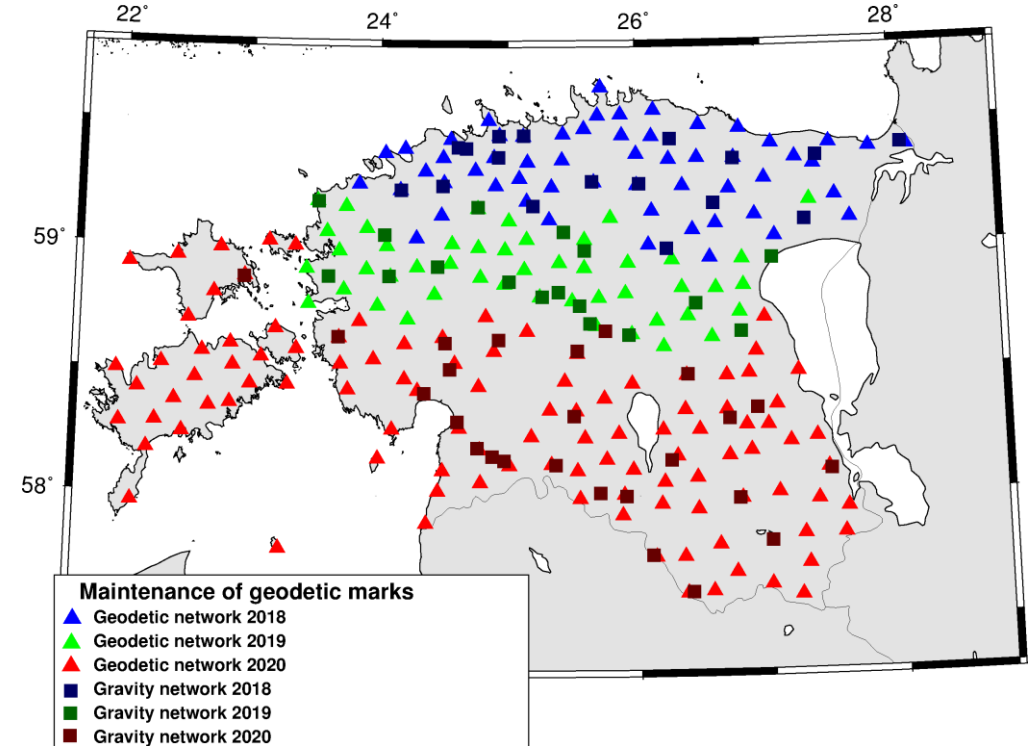




MAA-AMET 3

Maintenance of geodetic marks

- Inspection of geodetic marks
- Maintenance works of geodetic network points (I and II order National Geodetic Network)
- QR codes to identify geodetic mark, direct link to geodetic point database
- Maintenance works finished by the end of 2020





Estonian-Latvian cooperation

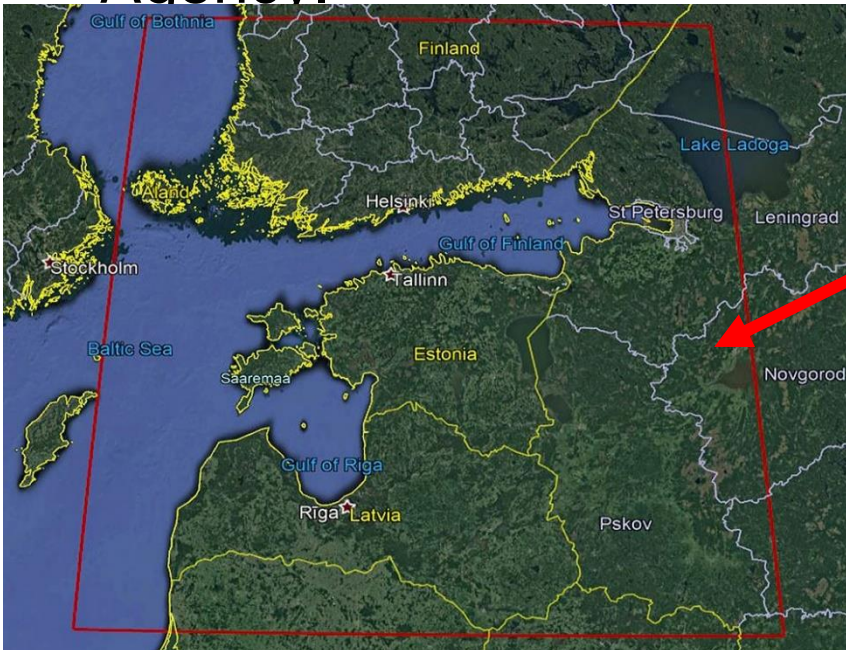
- Interreg V-A Estonian-Latvian programme
- Project „Harmonization of Estonian and Latvian geodetic systems in border areas“ (GeoRefAct)
- Project period 2 years
- Activities:
 - Measurements and computations of national GNSS and levelling networks in border area, local network of twin-city Valga/Valka and gravity survey in Northern Latvia
 - Results: coordinate and height transformation models incl web-based services





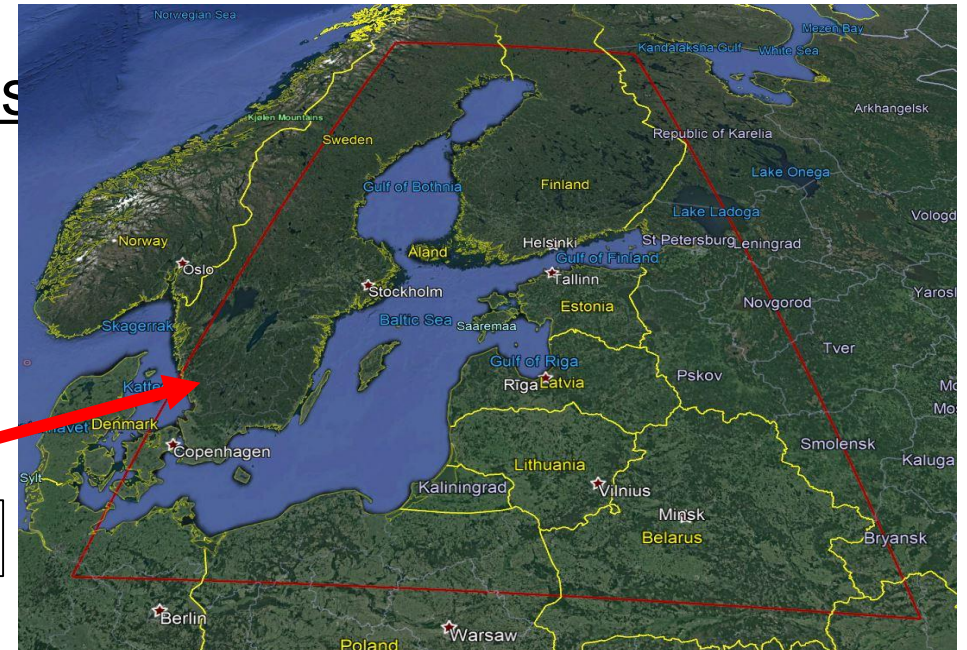
ESTHub and satiladu.maaamet.ee

- ESTHub is a national satellite data centre, which allows users to search and download Copernicus programme data. Data since July 2015. Updated on a daily basis.
- Satellite data is also available to users in the Satiladu web application, which provides access to satellite images of Estonia captured by the European Space Agency.

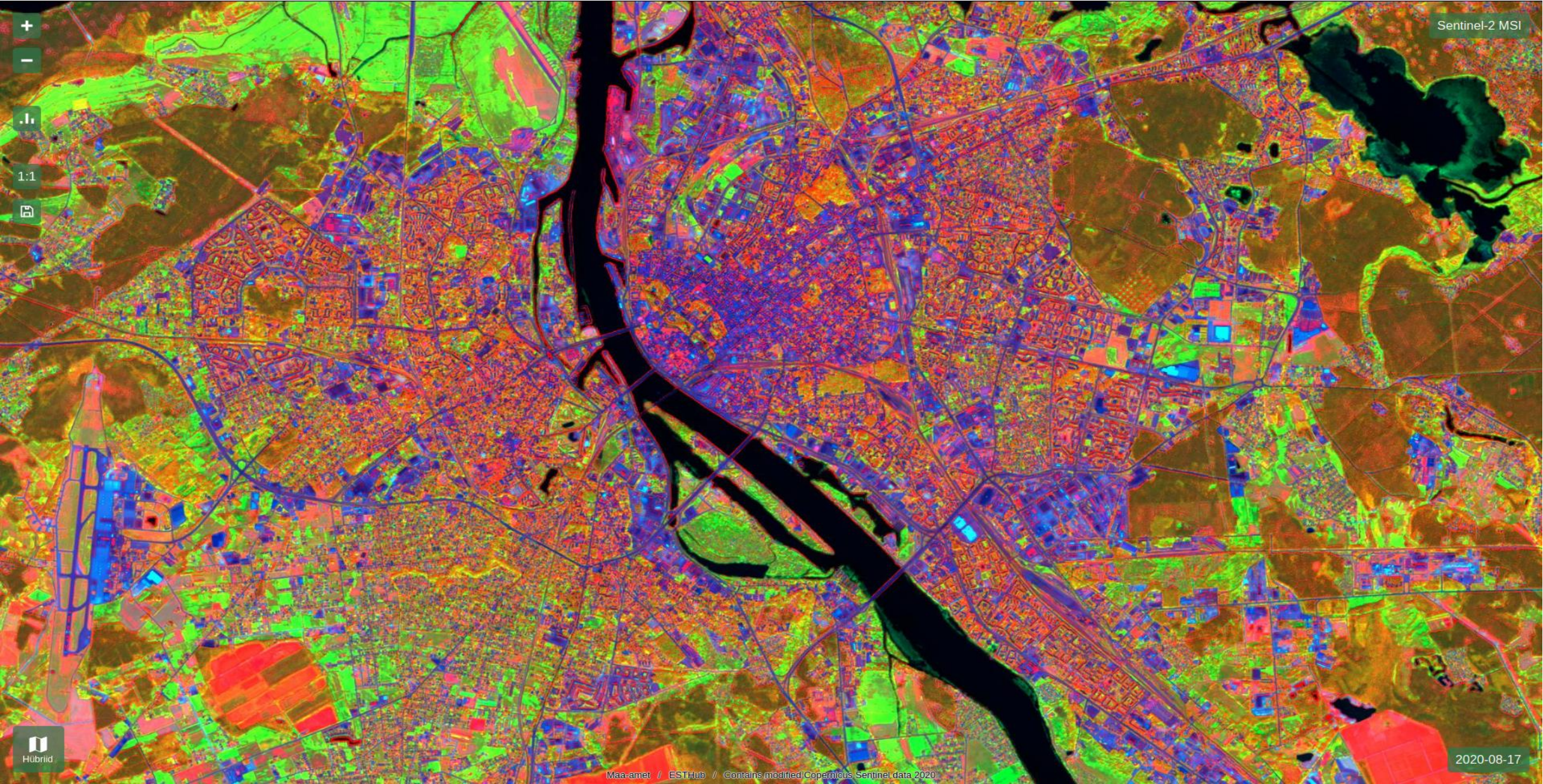


Sentinel 1, 2 and
coverage.

Sentinel 3
coverage.



- Possibility of creating and sharing of original map layers.





MAA-AMET 30 

Thank you!