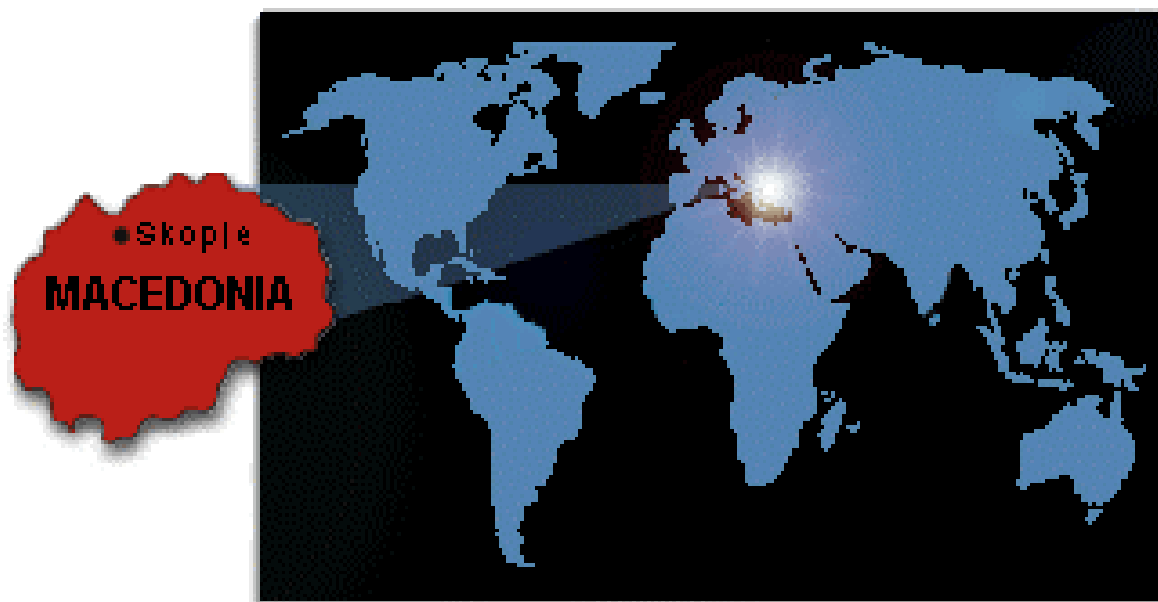


Republic of Macedonia

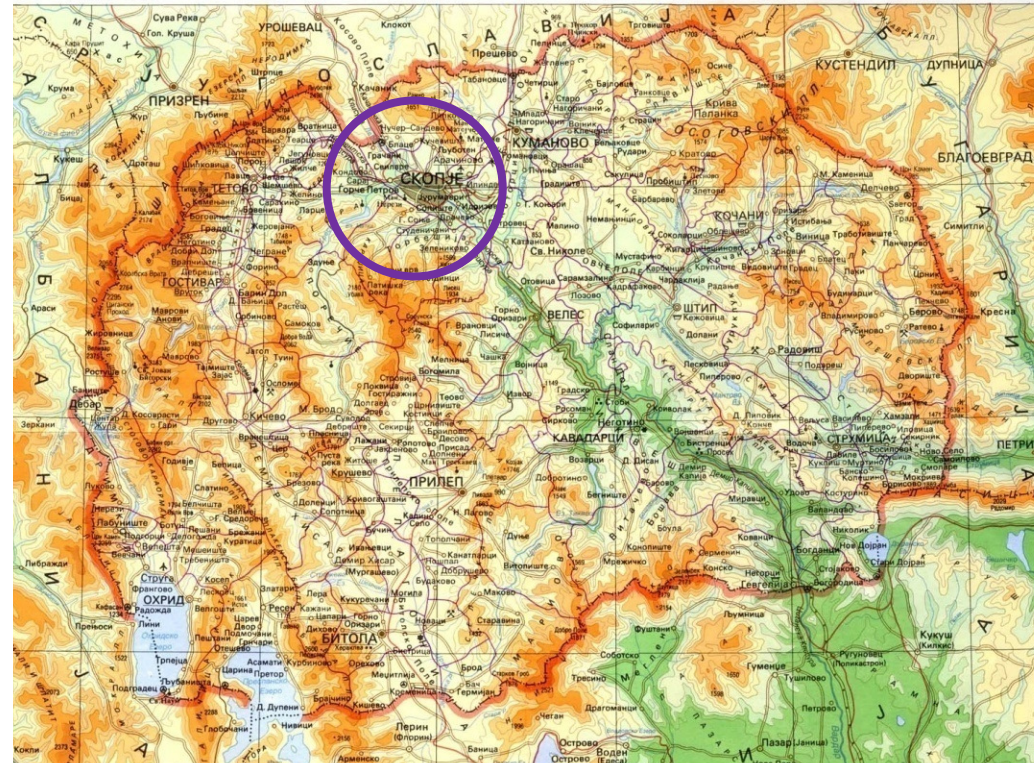
Agency for real estate cadastre



Tasevski Srechko
Stojanovska Brankica

REPUBLIC OF MACEDONIA

- Center of Balkan Peninsula
- Inhabitants: 2.2 milion
- Area: 25 713 km²
- Length of border: 889 km
- Capital city: SKOPJE



AGENCY FOR REAL ESTATE CADASTRE

National Cadastral and Mapping Agency

**Founded in 1947 as Republic Geodetic Authority,
later State Authority for Geodetic works,
now Agency for Real Estate Cadastre – AREC**

Responsibilities:

- **basic geodetic works,**
- **real estate survey,**
- **registration of real estate rights,**
- **establishment and maintenance of real estate cadastre,**
- **production of state topographic maps,**
- **administration of a Spatial Units Register,**
- **establishment, maintenance and public access to the Macedonian NSDI,**
- **supervision over the work of the private geodetic companies.**

SECTOR FOR GEODETIC WORKS

1. Department for geodetic reference networks

- **Conventional networks**
- **Passive networks**
- **Active network**
- **State borders**

2. Department for cartography

3. Department for photogrammetry

Current projects in SECTOR FOR GEODETIC WORKS

- **Transformation of the Macedonian State Coordinate System in to Global Referent System**
- **Project for realization of the new levelling network in R. Macedonia**
- **Project for realization of the new gravimetric network in R. Macedonia**

PASSIVE GNSS NETWORK

32 point from 1st order

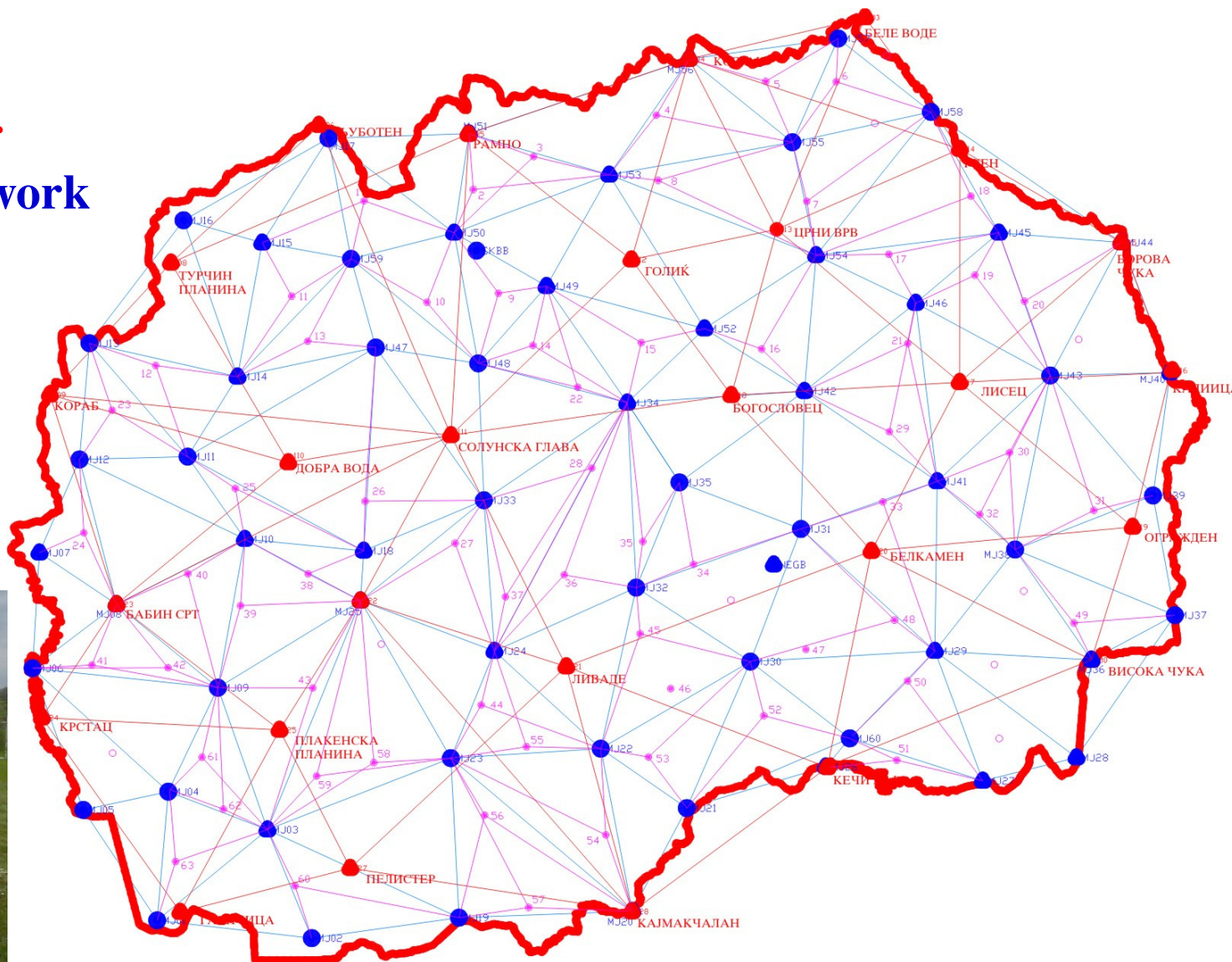
24 point from city network

30 point – 2004

40 point – 2009

64 point – 2010

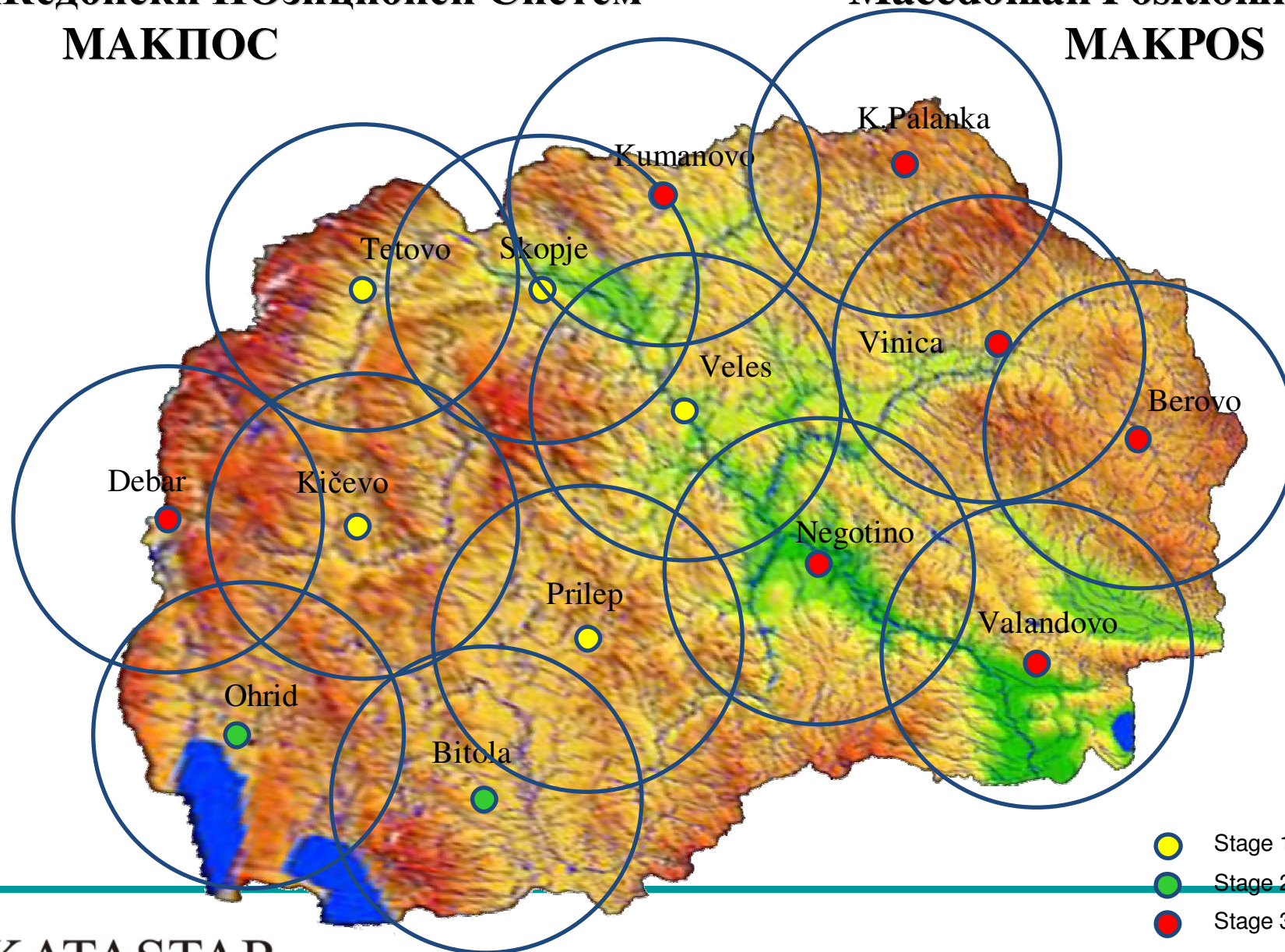
Total: 190 point



ACTIVE GNSS NETWORK

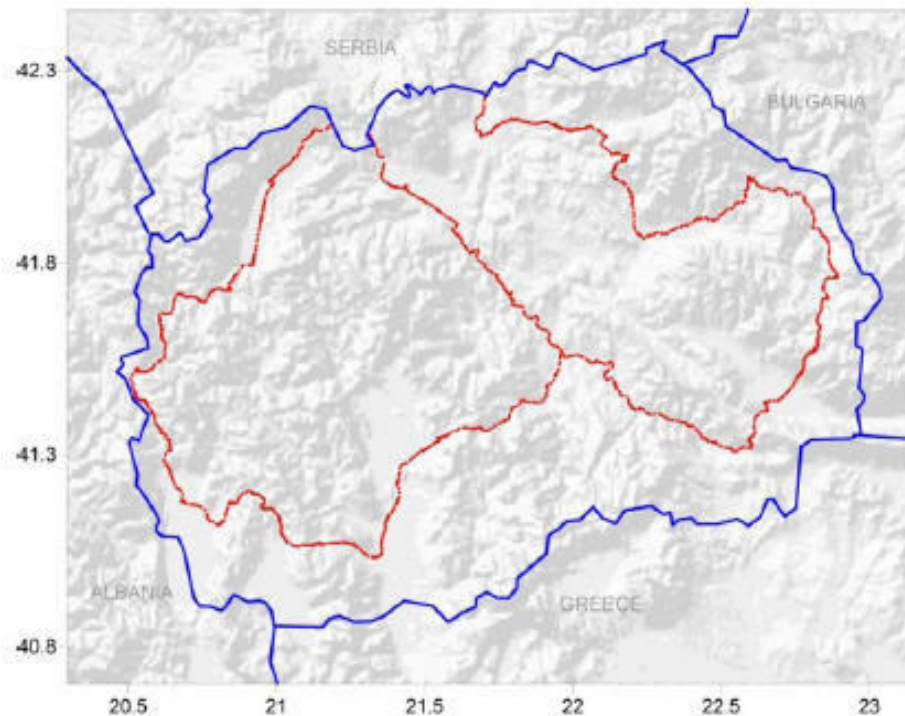
МАКедонски ПОзиционен Систем
МАКПОС

Macedonian Positioning System
MAKPOS

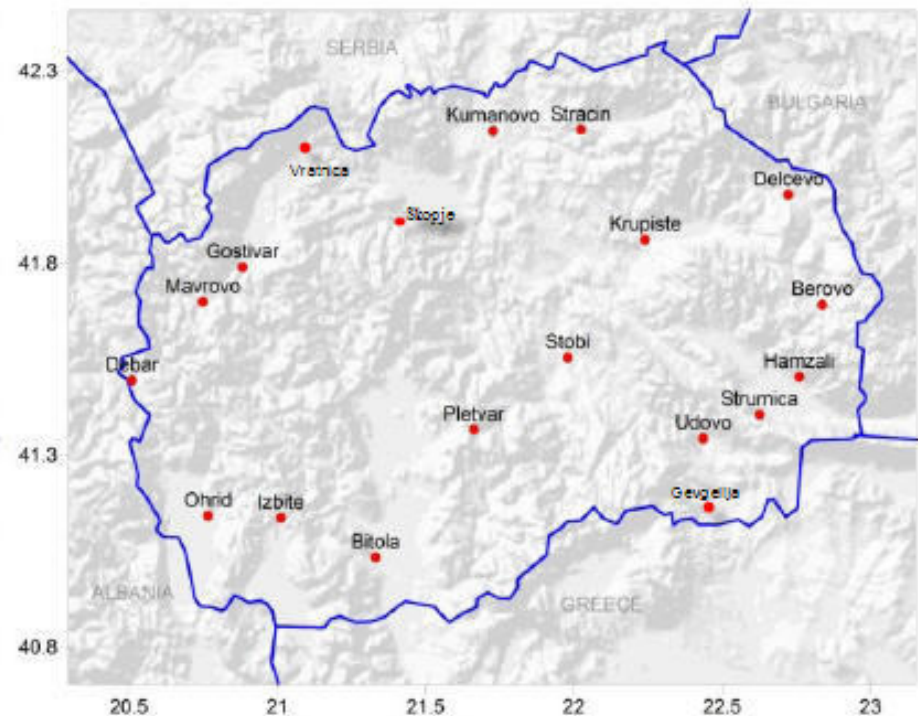


- Stage 1 - 2008
- Stage 2 - 2008
- Stage 3 - 2009

Levelling network

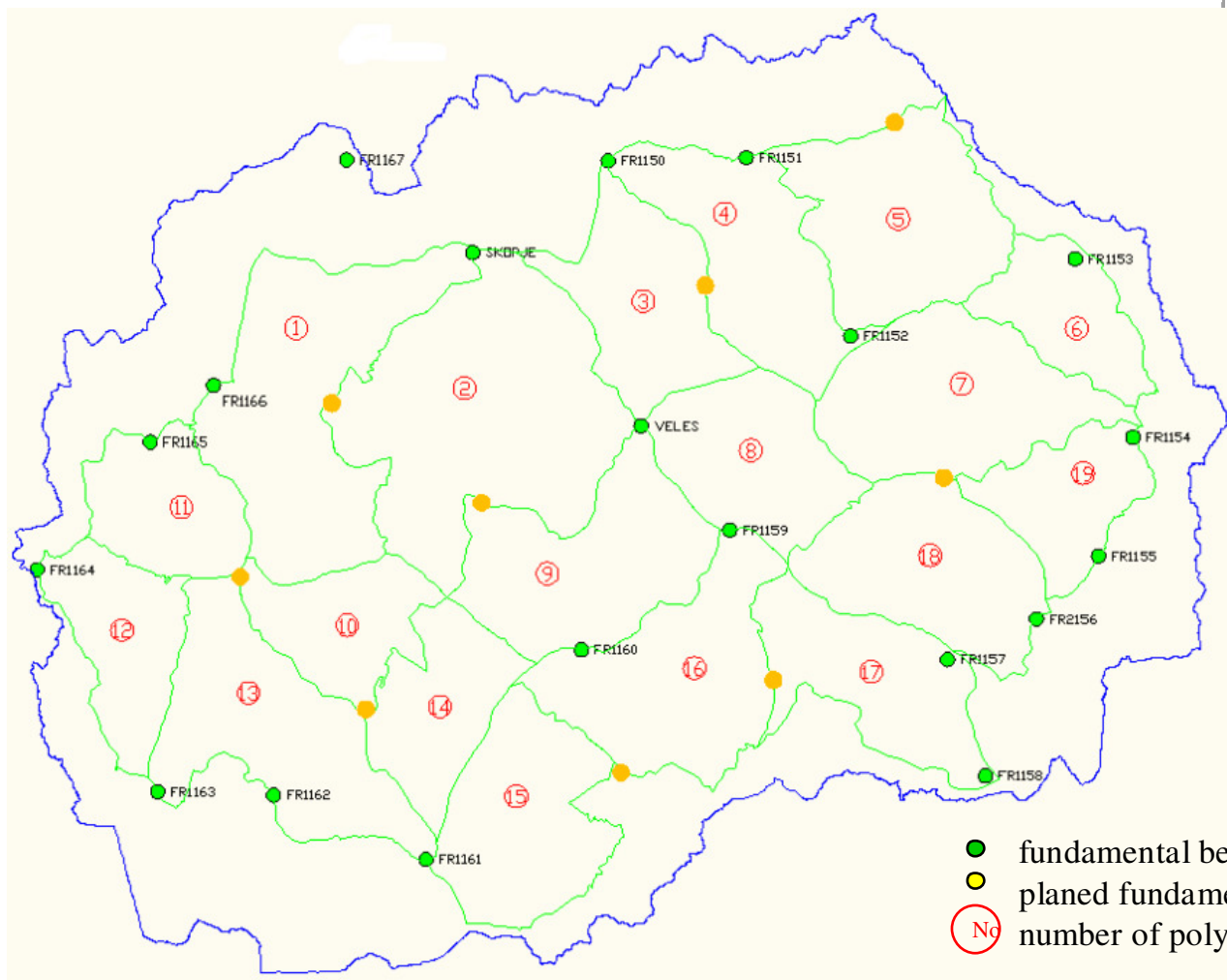


Polygons 5 and 6



**Fundamental benchmarks
(19 points)**

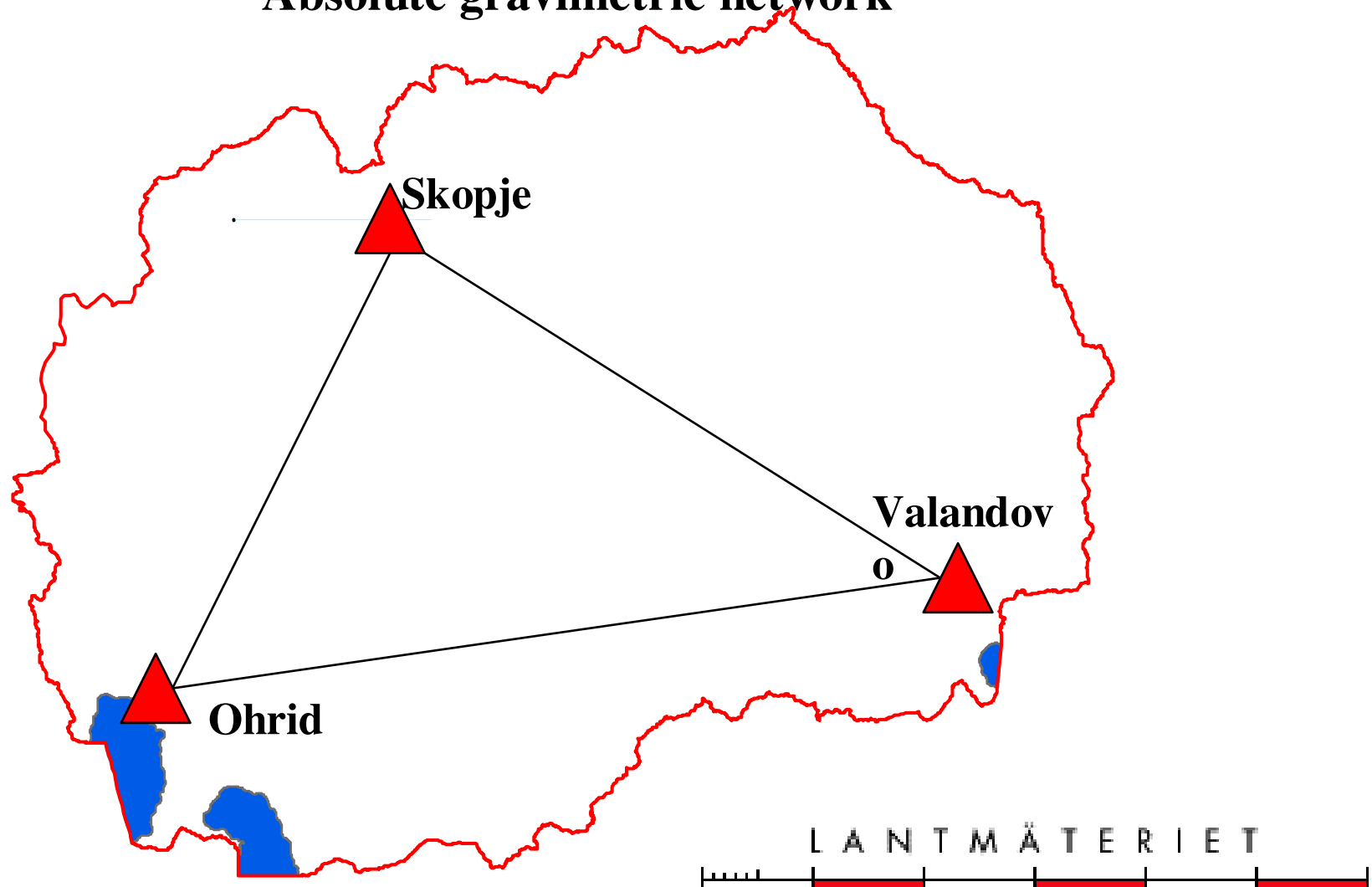
Levelling network



Total length of lines[km]	1739
Number of polygons	19
Average length of polygons[km]	156
Number of benchmarks– interdistance 2 km	871
Number of benchmarks– interdistance 1.5 km	1161

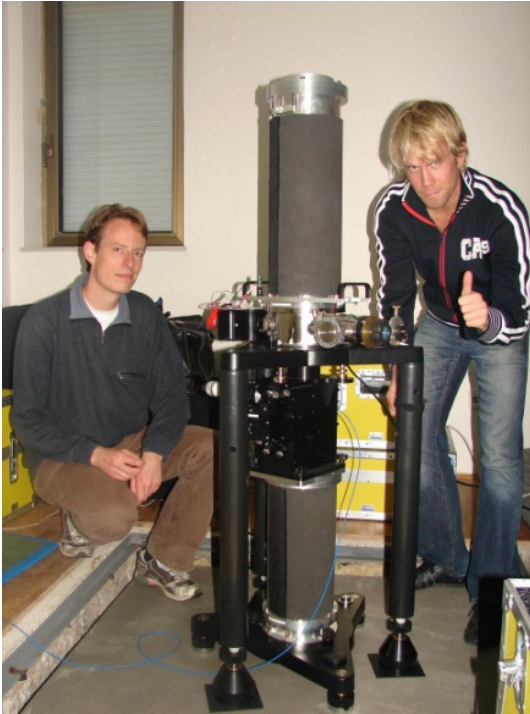
Gravimetric networks

Absolute gravimetric network



Gravimetric networks

Absolute gravimetric network



Andreas Engfeldt and Robert Odolinski from Lantmäteriet with the AREC team



THANK YOU FOR YOUR ATTENTION

