



KTIMATOLOGIO S.A.

National Report of Greece

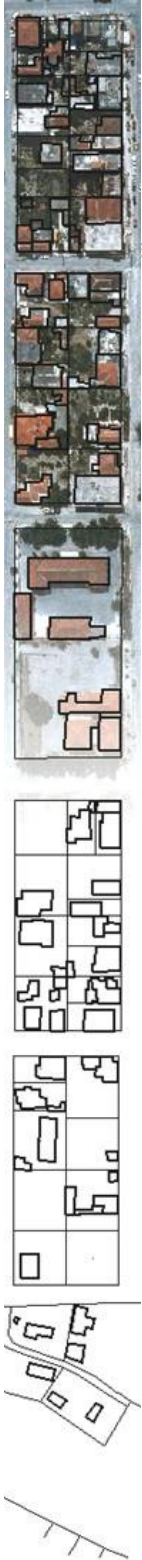
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KTIMATOLOGIO S.A. (Hellenic Cadastre)

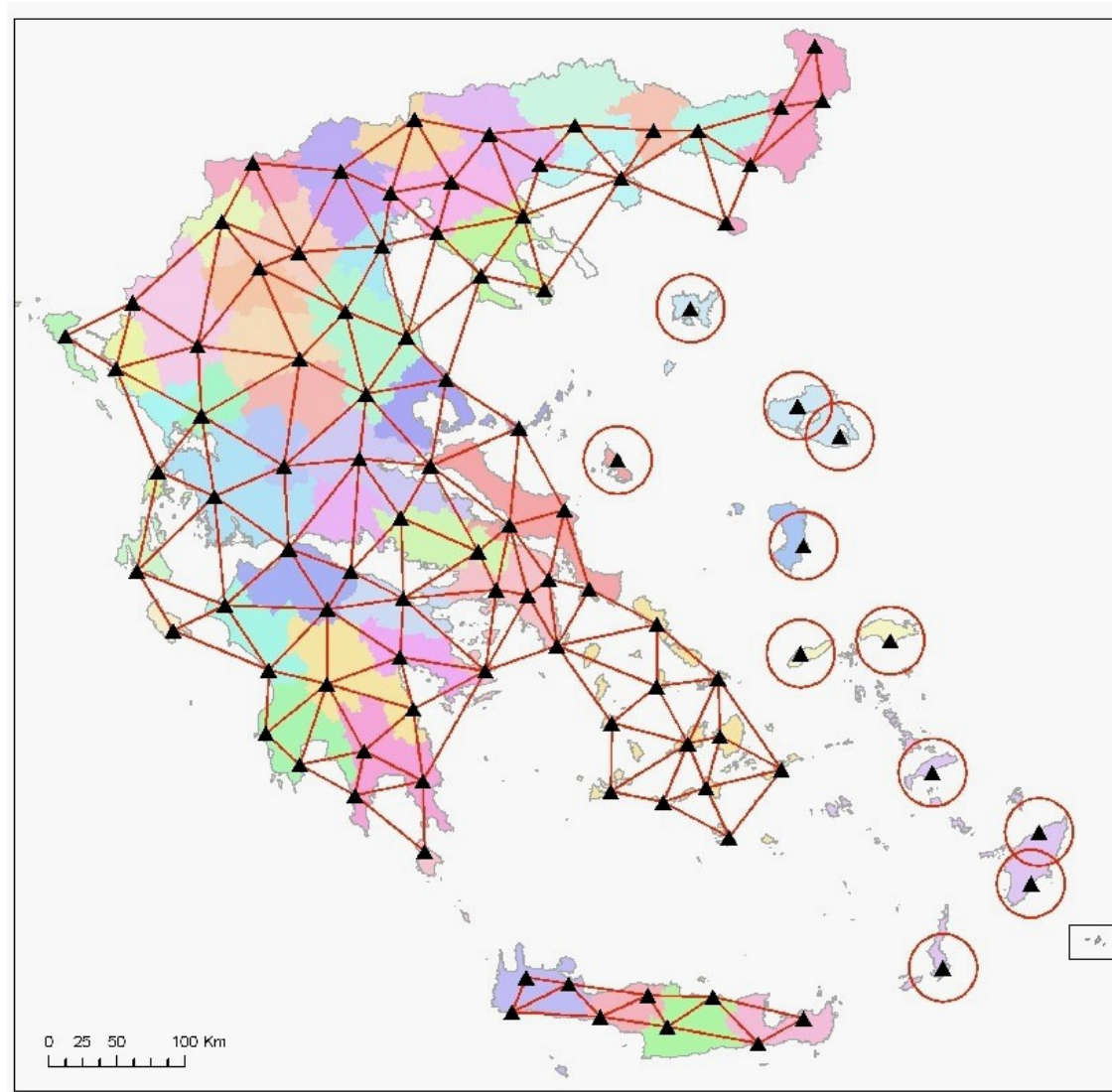


Outline

1. **Operation of HEPOS**
2. **EUREF GR 2007 campaign**
3. **Computation of a geometric geoid model**



1. Operation of HEPOS

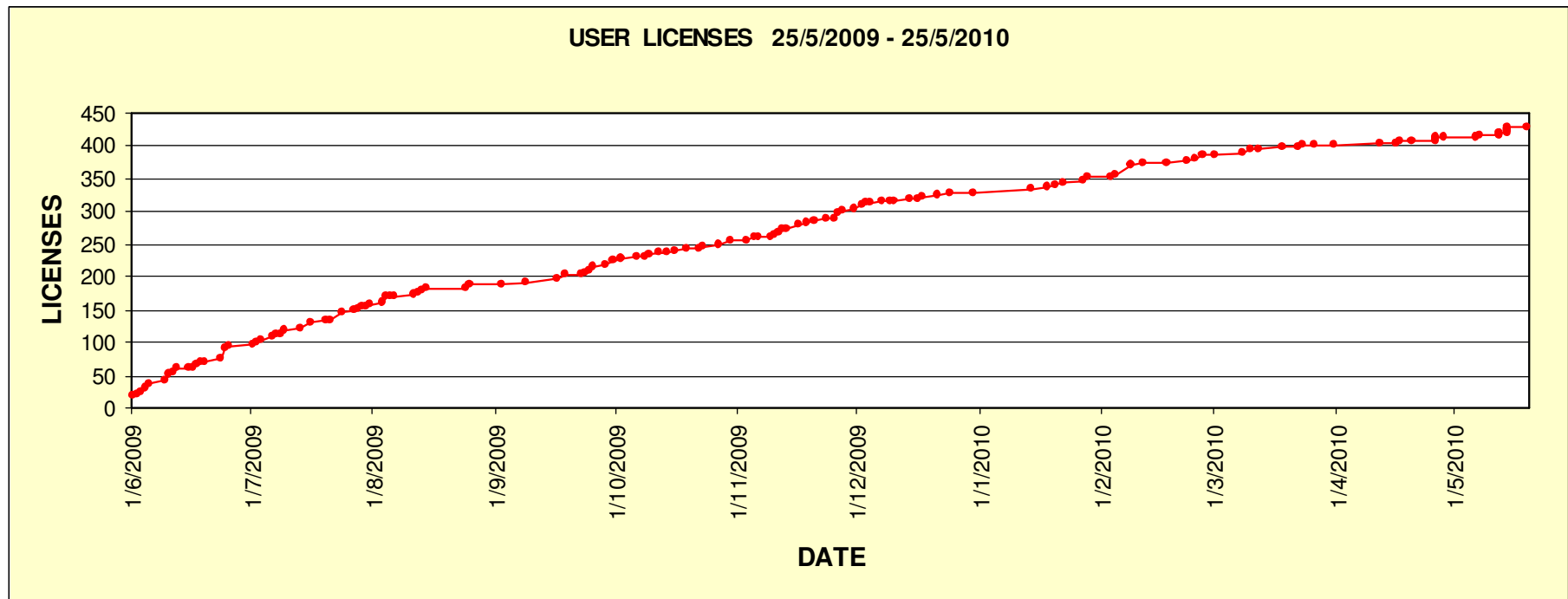


98 Reference stations:

- 87 supporting network- based techniques (VRS - FKP - MAC)
- 11 for Single- base positioning

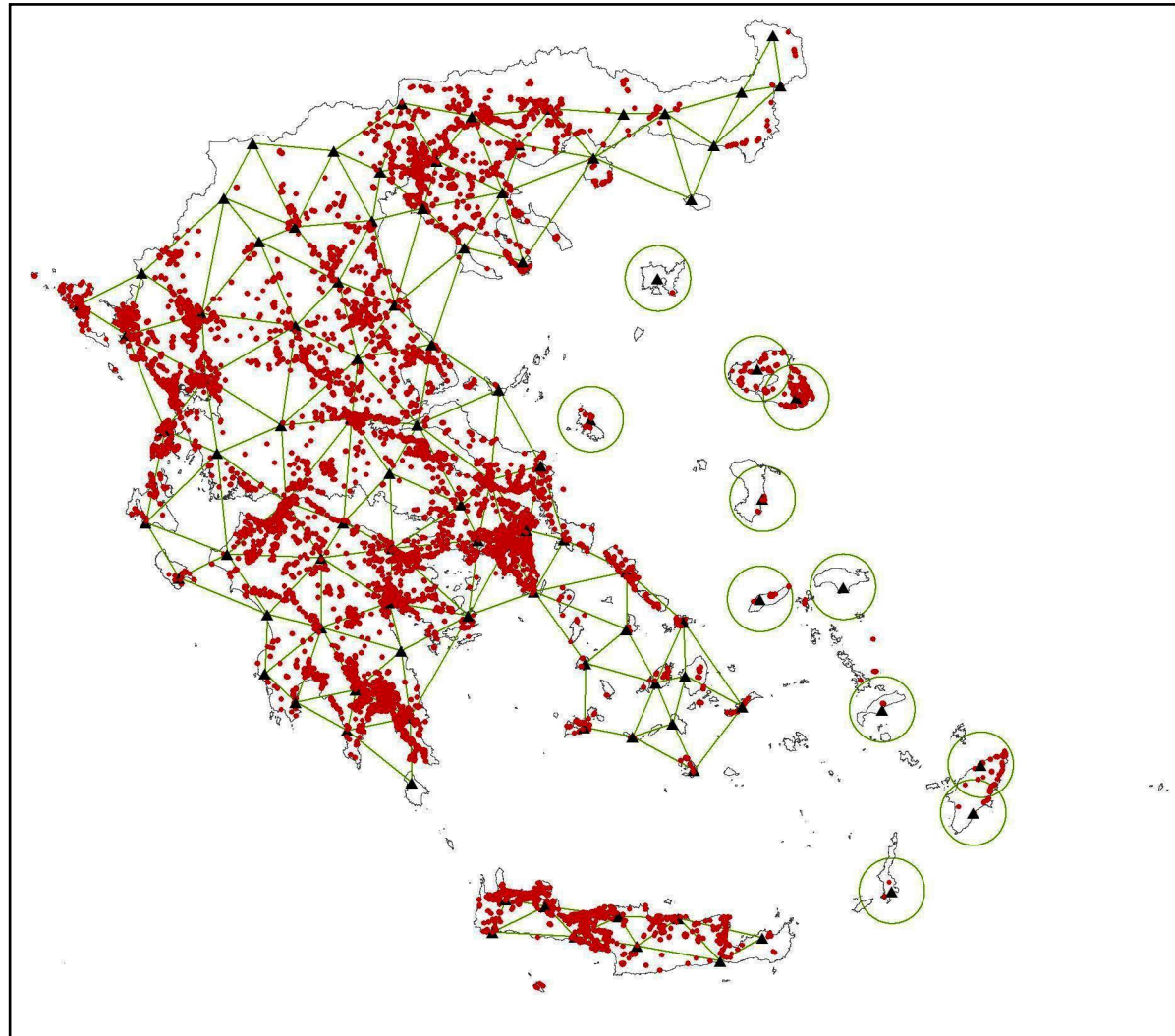
1. Operation of HEPOS

- HEPOS services are available to the users since 25/5/2009
- Within the first year of operation 430 user licenses have been issued
- The number of users increases



1. Operation of HEPOS

Usage of RTK services (25/5/2009 – 25/5/2010)





2. EUREF GR 2007 campaign

Observations used

14 days of observations (7-20 October 2007)

3 additional days (17-19 November 2007)

to include in the solution station 018B, which replaced station 018A.



2. EUREF GR 2007 campaign

Computations

Computations are made:

- in May 2010
- by IGN-Spain*
- using Bernese 5.0
- following the latest **EUREF standards, i.e.:**
 - “Specifications for reference frame fixing in the analysis of a EUREF GPS campaign” Ver. 7, 24/10/2008
 - “Guidelines for EUREF Densifications”, Ver. 1, 26/05/2009

* KTIMATOLOGIO S.A. procured the establishment of HEPOS as a turn-key solution including the computation of the station coordinates. This task was assigned by the contractor (Trimble Europe B.V.) to IGN-Spain.



2. EUREF GR 2007 campaign

Validation of the campaign

The campaign has been validated by the TWG of EUREF during the 53th TWG Meeting (June 1, 2010, Gävle).



3. Computation of a geometric geoid model

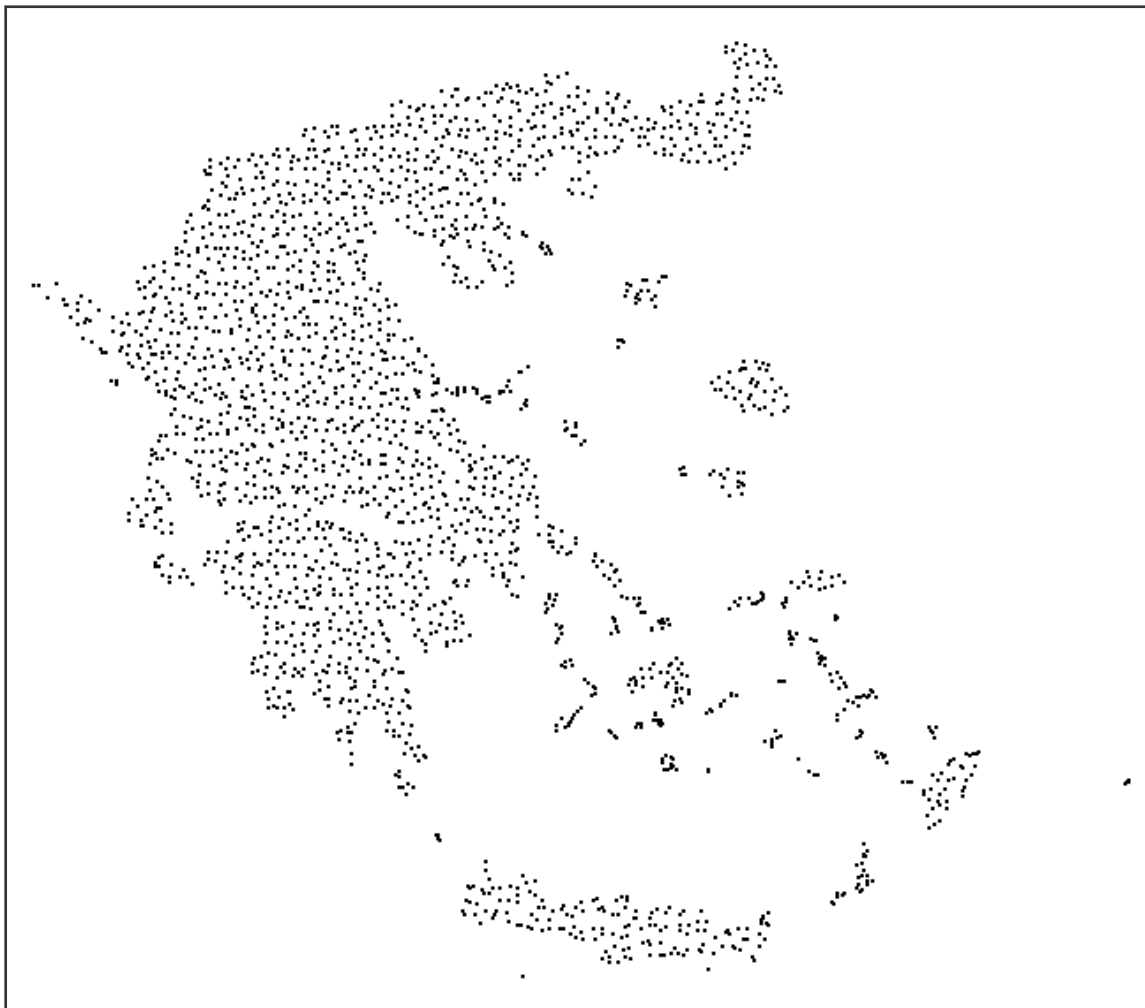
HEPOS is already being widely used by a large number of professional geoscientists.

The users often need to determine precise (orthometric) heights.

KTIMATOLOGIO S.A. is currently working on the computation of a geometric geoid model.



3. Computation of a geometric geoid model



2470 points of the national GPS campaign

Points that will be used:

- **2470 trigonometric points measured during the national GPS campaign conducted in 2007**
- **additional trigonometric points measured within other cadastral projects**
- **Selected leveling points**

Acknowledgments

IGN-Spain is acknowledged for the computation of the HEPOS network.

The HEPOS project is part of the Operational Program “Information Society” and is co-funded by the European Regional Development Fund.

