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.

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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

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Levelling network

Polygons 5 and 6

Fundamental benchmarks (19 points)
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Levelling network

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total length of lines [km]</td>
<td>1739</td>
</tr>
<tr>
<td>Number of polygons</td>
<td>19</td>
</tr>
<tr>
<td>Average length of polygons [km]</td>
<td>156</td>
</tr>
<tr>
<td>Number of benchmarks – interdistance 2 km</td>
<td>871</td>
</tr>
<tr>
<td>Number of benchmarks – interdistance 1.5 km</td>
<td>1161</td>
</tr>
</tbody>
</table>

- fundamental benchmarks
- planed fundamental benchmarks projected
- number of polygons
Gravimetric networks

Absolute gravimetric network

Skopje
Ohrid
Valandov

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Gravimetric networks

Absolute gravimetric network

Andreas Engfeldt and Robert Odolinski from Lantmäteriet with the AREC team

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THANK YOU FOR YOUR ATTENTION

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