CROPOSO
CROatian POsitioning System

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EUREF 2007, 6th – 9th June 2007, London
The goal of the project is to establish a unique national system of reference GNSS stations of the Republic of Croatia - CROPOS.

CROPOS system will have following basic characteristics:

- collecting the data from the reference stations that will be placed at 30 locations at the territory of the Republic of Croatia
- reference station real-time GNSS data exchange with the neighbouring countries
- networking and computing the real-time correction parameters
- distribution of measuring data and real-time correction parameters to the users
- monitoring of the system operation and users support
- 24/7 service availability
ACTIVITÉS (1)

• Project started (2004)

• Feasibility study - GTZ support (2004/2005)

• PHARE 2005
  • Project Fiche

Modernization and Capacity Building of Integrated Land Administration System in Croatia and Harmonization in the Pilot Area

R3: CROPOS System

• Project approvement (September 2005)
• Financial agreement (December 2005)
ACTIVITES (2)

• Network design – reference station locations
• Installation of antenna carriers (65% finished)
• IT/ITC infrastructure project
• Tender documentation and technical specifications
• Tender launched – 4th May 2007 (Open: 16th July 2007)
• Contract sign – September 2007
• CROPOS in full functionality – September 2008
## SERVICES

<table>
<thead>
<tr>
<th>CROPOS service</th>
<th>Procedure/ Method</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DPS</strong></td>
<td>code network solution in real time</td>
<td>±0.3 m to ±0.5 m</td>
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<td>differential positioning</td>
<td></td>
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<tr>
<td><strong>VPPS</strong></td>
<td>phase network solution in real time</td>
<td>±2 cm (2D)</td>
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<tr>
<td>highly precise positioning</td>
<td></td>
<td>±4 cm (3D)</td>
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<tr>
<td><strong>GPPS</strong></td>
<td>post-processing</td>
<td>±1 cm (2D, 3D)</td>
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<tr>
<td>geodetic highly precise positioning</td>
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ANTENNA CARRIER
KARLOVAC

ČAKOVEC
IMPLEMENTATION PROGRAM

- Establishment of permanent GNSS-network of the Republic of Croatia - CROPOS (A1)
- Elaborating of unity transformation model HTRS96/HDKS (A2)
- Elaborating of new geoid model (A3)
- Renewal and establishment system of maintaining ordinary geodetic sites of basic horizontal geodetic networks (A4)
- Control measurements of basic network (A5)
The CROPOS system will influence future surveying in Croatia because it should provide:

- introduction and application of a new geodetic datum of the Republic of Croatia
- homogenization of coordinate system
- the same accuracy of measurement and coordinate determination at the entire territory of the Republic of Croatia
- utilization of the unique measurement methods
- standardization in performing of geodetic works
- faster and more efficient performing of geodetic works