

Usage and Upgrade of the CROatian POsitionig System - CROPOS

Marinko Bosiljevac, dipl.ing., Prof.dr.sc.Željko Bačić
dr.sc. Marijan Marjanović

FIG Working Week 2011
Marakesh, Morocco, 18 – 22 May 2011

State Geodetic Administration

- National mapping and cadastral agency
- Legal, financial and inspection tasks
- Cadastre
- State survey
- > 1150 employees
- Central office in Zagreb, 20 regional cadastral offices and 92 local branch offices

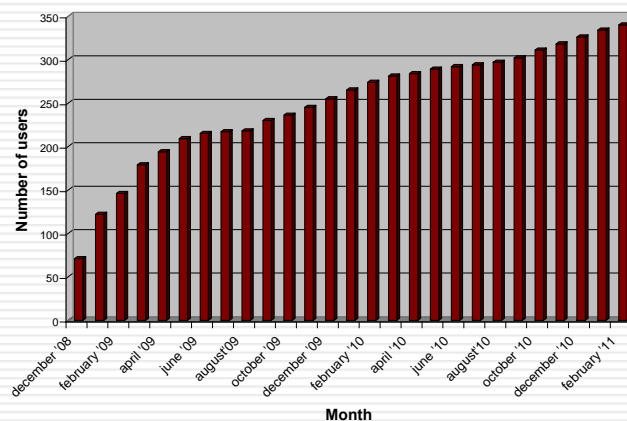


Importance of CROPOS

- CROPOS launched on 9th Decembar 2008
- Introduction and application of a new geodetic datum of the Republic of Croatia
- Homogenization of coordinate system
- Same accuracy of coordinate determination at the entire territory of the Republic of Croatia
- Implementation of the unique measurement methods-standardization in performing of geodetic works
- Faster and more efficient performing of geodetic works

CROPOS - users

CROPOS System - company registration - total 340



CROPOS – users support

- CROPOS flier
- 4 regional CROPOS workshops
- CROPOS brochure
- CROPOS web page - www.cropos.hr
- CROPOS usermanual
- CROPOS newsletter
- CROPOS video
- 1. CROPOS users conference (Zagreb, 2009)
- 2. CROPOS user conference (Zagreb, 2011)



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CROPOS – usage of the system

CROPOS monthly usage - VPPS and GPPS service

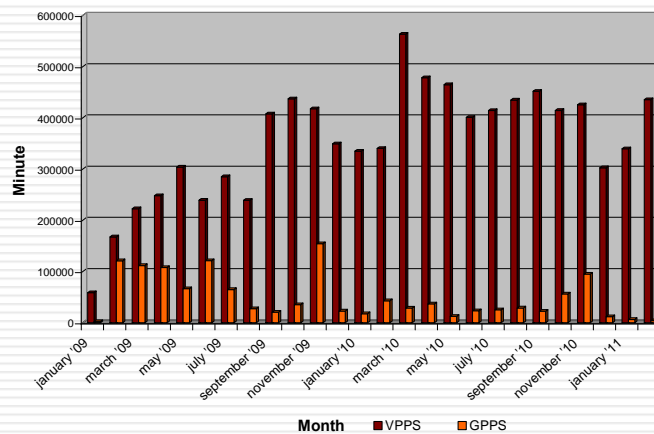


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CROPOS - networking

- 43 GNSS stations included in CROPOS network solution

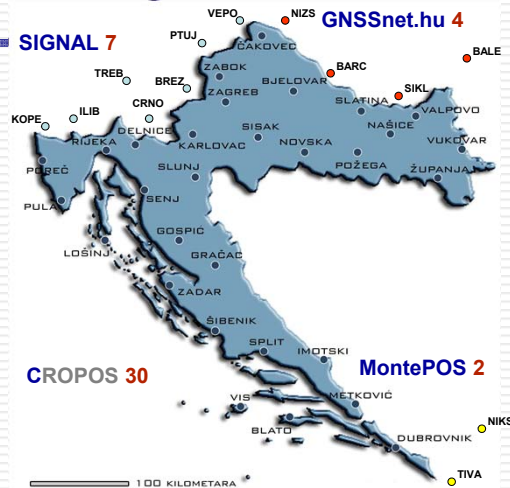


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CROPOS – upgrade

- Unique transformation model T7D - HTRS96<> HKDS
 - uniform, reliable and simple transformation system, primarily available to all users
 - GRID transformation for the whole Croatian territory, consisting of 7-parameter transformation and a proper raster predicted values of distortion, both in plane coordinates and height
- Implementation of T7D – model in CROPOS – Trimble Transformation Generator
- New on-line transformation services > update CROPOS source table
 - CROPOS_VRS_HTRS96 – running
 - HTRS96/TM –on-line geoid model
 - CROPOS_VRS_HDKS – in test phase, in official work in June 2011
 - HDKS –datum transformation & on-line geoid model
- RTCM 3.1

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CROPOS - conclusion

- CROPOS project – Success story
 - System design, planning, installation
 - Cooperation with suppliers, Trimble support
 - Implementation of high quality hardware and software products

- User trust – reliable and accepted system
 - high quality and reliability of services
 - rational and reasonable pricing policy
 - continuous investment in upgrading the system

- To ensure maintenance of system on high technical - technological level and reliability

- Introduction of new services allow to users more efficient field work



Thank you for attention!