Usage and Upgrade of the CROatian POsitioning System - CROPOS

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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

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www.cropos.hr
Importance of CROPOS

- CROPOS launched on 9th December 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

![Chart showing the number of CROPOS users from December 2008 to December 2011](chart.png)

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)

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

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
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

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Thank you for attention!