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4th CROPOS Conference



Twenty Years of Cadastral Survey in Našice



Presentation of the monograph „Herzegovina on maps and plans“



4th CROPOS Conference

University in Zagreb, Faculty of Geodesy – Zagreb, 22. May 2015

The State Geodetic Administration and the Faculty of Geodesy are organising the **4. CROPOS Conference** that will be held on **22. May 2015** at the Faculty of Geodesy, University in Zagreb.

The State Geodetic Administration put the service CROPOS – Croatian Positioning System – into official use on 9. December 2008. During six years of system operation, 674 companies have registered and have been thus given the possibility to use GNSS measuring technologies in simpler, more efficient and more reliable way. The total number of user names that the companies use to connect to the system was 1768 on 9. December 2014, out of which 999 use VPPS service (Highly Precise Positioning Service), 23 of them use DPS (Differential Positioning Service) and 746 use the service GPPS (Geodetic Precise Positioning Service). Along with the number of users, the usage of the system services is continuously increasing. From the beginning of the system operation, VPPS services (RTK) have been used for 38,754,138 minutes, and GPPS services (post-processing) for 2,117,175 minutes. There are altogether 51 reference GNSS stations (33 from Croatia, 7 from Slovenia, 4 from Hungary, 2 from Monte Negro, and 5 from Bosnia and Herzegovina) included into the networked solution of the CROPOS system and into the calculation of correction parameters.

The goal of the Conference is to improve the application of CROPOS system, to encourage the state authority bodies, public companies and economic subjects use the system more and more, and to get the participants acquainted with the activities on maintaining and upgrading of the system.

The number of the Conference participants, regarding the hall capacities, is limited to 300, and the applications will be received until all seats are taken. The registration fee for the participation at the Conference is 625,00 KN ((VAT included) for those who apply until 31. March 2015, i.e. 750,00 KN (VAT included) for those who apply after that date.

The Conference is included into the Programme of Professional Development of Chartered Engineers of Geodesy for the Year 2015 run by the Croatian Chamber of Chartered Engineers of Geodesy. The 4. CROPOS Conference was awarded 12 points for life-long professional development. The information about registration and the draft of the Conference Programme can be found on web pages of the Conference www.cropos-konferencija.org.

www.cropos.hr in new design

On 27. 2. 2015, a new web page of CROPOS system was put into operation providing additional various functionalities as related to the previous version, as well as better and faster informing of users. A very important novelty is the possibility to check the accessibility of the system on home page and also the notification of running of each permanent station and data availability through web server.

Martina Ciprijan



The project Developed land

Twenty Years of Cadastral Survey in Našice

This article offers the insight into the plan and into the implementation of the cadastral surveying plan, completed cadastral documents and new land registries at the territory of Našice. It also illustrates the practical application of these documents that have been in official use all these years without any objections related to cadastral data being the product of the cadastral surveys. The development of technology makes it possible to have the technical part of cadastral survey performed very quickly, and geodesists can address the issue of planning the processes with more attention and improve the production of cadastral documents and land registry records in collaboration with court employees to put them in practical use for all citizens and investors as soon as possible and in order to encourage the real estate transactions and to prove cadastral document and land registry record worthy.

The organisation of land registry records and cadastral documents and their coordination with the situation in the field has always been the fundamental task of the state offices. The largest areas were rearranged in our territory by means of land consolidation in the period between 1968 and 1992. The last land consolidation for the cadastral municipality Feričanci was completed in 1992. Until then, 15 cadastral municipalities were surveyed in the procedure of land consolidation. Since that procedure was no longer used, I believed that one should continue developing the land because the statistical data indicated that the organisation and coordination of land registry and cadastral documents has been completed in the amount of only 18% at the level of the Republic of Croatia.

After we have been established as a County Office in the independent state Croatia, I improved the qualification structure of the employees, and thus, there were 5 engineers of geodesy out of 11 employees, and one computer science engineer, as well as five cadastral office clerks. Apart from human resources, I had to provide technological equipment as well, which we managed to do by requiring the funds for equipment and software from the County budget. The next step was the

introduction of relevant subjects connected directly with these problems. We have prepared the study of cadastral survey necessity in the first cadastral municipality Đurđenovac indicating that the cadastral plans date back to 1862, that they are not complete, and also damaged, that the cadastral documents are not coordinated with the land registry records, and that all that is not coordinated with the situation in the field. We presented this study to municipal and city councils, and pointed out the significance of cadastral survey and of correct land registry procedure. After that, we met the competent people in the State Geodetic Administration (SGA), the County authorities, court presidents, land registry managers and state attorneys, as well as the employees who work on spatial development and in civil engineering.

PLAN OF CADASTRAL SURVEYS 1994 – 2014, made by my team and me, as it can be seen from the following table.

COUNTY CADASTRAL OFFICE POŽEGA BRANCH-OFFICE NAŠICE Našice, 1. 2. 1994					
PLAN OF CADASTRAL SURVEYS					
Cadastral municipality	Area of c.m. [ha]	Starting year of cadastral survey	Final year of cadastral survey	Year of applying cadastral documents	Year of applying land registry records
Đurđenovac	1222	1994.	1997.	1998.	1998.
Zoljan	2069	1996.	1999.	2000.	2000.
Podgorač	2988	2000.	2003.	2004.	2004.
Bijela Loza	1001	2006.	2007.	2008.	2008.
Ledenik	1036	2006.	2008.	2009.	2009.
Andrijevac	833	2005.	2007.	2008.	2008.
Stipanovci	250	2005.	2007.	2008.	2008.
Kelešinka	246	2006.	2007.	2008.	2008.
Razbojište	576	2005.	2007.	2008.	2008.
Topoline	147	2008.	2008.	2009.	2009.
Normanci	1158	2008.	2009.	2010.	2010.
Gazije	2070	2009.	2011.	2011.	2011.
Vukojevci	1332	2011.	2013.	2014.	2014.
D. Motičina	2222	2013.	2016.	2017.	2017.
Martin	676	2014.	2016.	2017.	2017.
Pribiševci	773	2015.	2017.	2018.	2018.
Total:	18599				

FINANCIAL CONSTRUCTION was organised in such a way that 40% were provided by SGA, 30 % by Osječko-baranjska County, and 30 % by towns and municipalities, and in the case of the cadastral municipality Gazije, Našicecement d.d. also provided a part of funds. The land owners had no expenses at all.

PLAN IMPLEMENTATION ACTORS: Head of the County Cadastral Office Požega, of the County Cadastral Office Osijek, the manager of the Branch-Office Našice, the prefects, the director of SGA and his associates, the mayor of the town Našice, and the mayors of municipalities, Municipal Court Našice, the court president and land registry head, State Attorney's Office in Našice and the State Administration Office of Spatial Development and Civil Engineering.



Team for cadastral survey and preparation of new cadastral documentation: The representatives of SGA, the contractor, Counties and the Branch-Office Našice

PLAN IMPLEMENTATION

The Cadastral Office Našice sent a letter together with the study of cadastral survey necessity to the local self-government. The local self-government initiated and made the Decision about the cadastral survey for every single municipality and provided 30% of funds for cadastral survey. Apart from that, local self-government had reacted well earlier and co-financed the establishment of a homogeneous field of GPS points for the entire territory of the Office. It is interesting that the Town Našice and all other municipalities covered by the Cadastral Office Našice participated in the cadastral survey in their own area. The Town Našice covered the cadastral municipalities Zoljan and Vukojevci. In the Municipality Podgorač, the cadastral survey was made in the cadastral municipalities Podgorač, Stipanovci, Razbojište, Ledenik, Bijela Loza, Kelešinka and Andrijevac. In the Municipality Koška, the cadastral survey was made in the cadastral municipalities Topoline and Normanci. In the Municipality Đurđenovac, the cadastral survey was made in the cadastral municipality Đurđenovac, and in the Municipality Donja Motičina, the cadastral survey was made in the cadastral municipality Donja Motičina. The Decision was sent to SGA that made an agreement about cadastral survey with a town or a municipality. After that, SGA invited tenders and selected the best bidder. The works were performed by Geodetski zavod Osijek d.d., Geoprojekt d.o.o. Zagreb and Geofoto d.o.o.

The Office Našice prepared and created the documents related to the changes of cadastral municipality borders and settlement borders. All these graphic presentations of borders and of their changes, as well as technical and textual descriptions were sent to SGA and to the Ministry of Justice where the decisions on border changes were passed, and the councils of towns, municipalities and counties commented the changes of borders.

There were approximately two documents about the changes of borders prepared for each cadastral municipality, which is not too much considering the fact that we speak about the plans and borders established in 1862. There were 14 cadastral municipalities with the total area of 20 000 ha completed.

All initiated cadastral surveys have been completed, along with the correct land registry procedures. All documents are now in official use, both land registry and cada-

stral. The complaints have been taken in stride leaving no backlogs behind after completing the works. There were about 3% of complaints in each cadastral municipality. The presentations were done by committees appointed by SGA and the Ministry of Justice for the correct land registry procedures. The committee members were the employees of the Cadastral Office Našice and the employees of the Land Registry Office Našice who completed their tasks perfectly and professionally, which can be seen from the plan implementation, as well as from complaints. All clerks in the Office performed the jobs in this field related to our laws and ordinances on cadastral survey, including also the cadastral officers who worked on notices, wrote invitations, solved complaints. The surveyors participated in the work as advisers to parties. The meetings with citizens were organised before the surveys and there were brochures prepared with the instructions about lot description. It should be pointed out the cadastral surveys data presentations have not been interrupted even for one day in the last 20 years. The implementation of cadastral surveys can be seen from the tables, especially when they are both compared.

PROJECT DEVELOPED LAND					
Initiator of surveys: SGA, Regional Cadastral Office Osijek, Branch-Office Našice					
Study preparation: Head of the Branch-Office Našice					
Investors: SGA, Osječko-baranjska County, Town Našice, Municipalities Đurđenovac, Podgorač, Koška, Feričanci, Donja Motičina and Nexe grupa d.d. Našice					
Result: Cadastral surveys initiated in 1994					
PLAN IMPLEMENTATION - CADASTRAL SURVEYS					
Cadastral municipality	Area of c.m [ha]	SGA decision about cad. doc. application	Land registry in use since	Survey completed - presentation expected	Planned new survey of cad. mun.
Đurđenovac	1222	1998.	1998.		
Zoljan	2069	2000.	2000.		
Podgorač	2988	2004.	2004.		
Bijela Loza	1001	2008.	2008.		
Ledenik	1036	2009.	2009.		
Andrijevac	833	2008.	2008.		
Stipanovci	250	2008.	2008.		
Kelešinka	246	2008.	2008.		
Razbojište	576	2008.	2008.		
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Normanci	1158	2010.	2010.		
Gazije	2070	2011.	2011.		
Vukojevci	1332	2014.	2014.		
D. Motičina	2222			Survey completed	
Martin	676				2016.
Pribiševeci	773				2018.
Total:	18599				



Committee for the presentation of cadastral data and correct land registry procedure: Stjepan Jančula, Marija Mendroš, Sanja Urban, Goran Sikora

Computer technology and improved geodetic instruments used in cadastral survey facilitate and accelerate the surveying performance, which makes it possible to get relatively quickly the documentation needed for the presentation of cadastral data and correct land registry procedure after the survey. The preparation of geodetic documents and land registry records is not that quick. In order to make that part quicker, it is necessary to change the legal regulations and to establish a state authority for single areas that would systematically deal with such problems, and that would consist of geodetic and legal

experts needed to conduct such a process and to be responsible for it. If there is no official decision about cadastral survey in that area, this authority should run individual procedures and correct land registry procedure ex officio or at the request of parties. For that purpose, licensed surveyors should be hired

to prepare geodetic documents needed to solve proprietary relations, which would consequently be to the satisfaction of future investors providing security in financing the projects and construction.

Mirko Walter, dipl. ing. geod.

Presentation of the monograph „Herzegovina on maps and plans“

Within the scope of the 13. annual meeting of the Croatian Cartographic Society in the premises of the “Miroslav Krleža Institute of Lexicography” in Zagreb, the monograph “Herzegovina on Maps and Plans” by Mirko Alilović, graduate engineer of geodesy, a long-time employee of the State Geodetic Administration who is now retired, was presented.

This extensive monograph, the first of that kind for the area of Herzegovina in the Republic Bosnia and Herzegovina, was presented by its chief editor, Prof. Božo Skoko, PhD, an associate professor at the Faculty of Political Sciences, University in Zagreb, by one of the editors, Željko Obradović, graduate engineer of geodesy, the director of the Federal Administration for Geodetic and Property Affairs in the Federation of Bosnia and Herzegovina, by the language editor and reviewer, Prof. Miljenko Lapaine, PhD, a full professor at the Faculty of Geodesy, University in Zagreb, and at the end, by the author himself, Mirko Alilović, graduate engineer of geodesy.

Much credit for the publishing of the monograph goes to the director of SGA, Danko Markovinović, PhD who provided the technical help in the implementation of this project. The employees of SGA, participated in the work on the monograph, i.e. Željka Župan Molak, graduate engineer of geodesy, who designed the cover of the monograph, Igor Vilus, graduate engineer of geodesy, who worked on editing, and Mr. Sc. Ivan Landek as the second editor of the monograph.

About fifty visitors participated at the presentation of the monograph who also used the opportunity to buy the monograph at more convenient prices. The credit for excellent organisation goes to the Croatian Cartographic Society.

At end, we would like to congratulate our colleague, Mirko Alilović, for a really unique and high-quality monograph, and wish him to write another book, but first of all, to live a long and healthy life.

Ivan Landek



From the left: Božo Skoko, Mirko Alilović, Željko Obradović, Miljenko Lapaine