



CLGE Mission Report

Subject	Geoinformatics PosKEN meeting Internet link http://www.clge.eu/events/details/181
Date	24th - 25th November 2015
City / Country Code	Zagreb, Croatia
Invited by	EuroGeographics / PosKEN / State Geodetic Administration of the Republic of Croatia Danko Markovinovic
Participants	See annexed list
CLGE Delegation	Danko Markovinovic, Mairolt Kakko

Executive Summary

The goal of the second PosKEN meeting was to exchange experiences about the GNSS Permanent Networks within different Countries.

Participants are coming mainly EuroGeographics members, representatives of National Mapping and Cadastral Authorities (NMCAs), participating or being in charge of provision of GNSS related services, especially administrators of DGNSS/RTK networks, but also from CLGE, GSA and EUPOS as EUREF was not represented.

See agenda, program and report below.



Objectives of the meeting:

- Brief on national developments in GNSS and geodesy related activities;
- Observe perspectives and issues applying GALILEO;
- Discuss pan-European demands on delivering of positioning services;
- Discuss and agree PosKEN workplan for 2016

Agenda

Day One

<i>Time</i>	<i>Item</i>	<i>Presenter</i>
13:30-13:45	Welcome, Agenda, Introductions	Chair
13:45-14.15-	Host presentation	Chair
14:15-14:30	EuroGeographics presentation: update, collaborative aspects in PosKEN	Saulius Urbanas
14:30-14:45	CLGE presentation: update, collaborative aspects in PosKEN	Mairolt Kakko
14:45-15:00	EUREF presentation: update, collaborative aspects in PosKEN	tbc
15:00-15:15	EUPOS presentation: update, collaborative aspects in PosKEN	Branislav Droscak
15:15-15:45	Coffee break	
15:45-16:30	Implementation of GALILEO programme and the available GALILEO services	Michal Babacek, (EC)
16.30-18:00	National presentations (based on the slide template)	All
18.00	End of the Day One	
19:30	Dinner	

Day Two

<i>Time</i>	<i>Item</i>	<i>Presenter</i>
9:30-10:30	Continue of National presentations (based on the slide template) or Discussion based on the Day One outcomes	All
10:30-11:00	Coffee break	
11:00-11.30	Pan-European demands on delivering of positioning services	Marijan Marjanovic
11:30-12:30	Discussion on PosKEN workplan	Chair
12:30-13:00	AOB and Summary	
13:00	End of the meeting	



Report

PosKEN meeting 24-25.11 was the second time to meet with Positioning Knowledge Exchange Network. Meeting was well chaired and hospitably hosted by Danko Markovinic, Director of State Geodetic Administration Republic of Croatia.

PosKEN is one of eight Knowledge Exchange Networks of Eurogeographics. It has 5 members of coordinating committee and 26 members from 17 countries of Europe. The Positioning KEN is composed of experts in GNSS systems and services from EuroGeographics members, as well as representatives of 3 European organizations: CLGE, EUPOS and EUREF. It focuses in different aspects of GNSS positioning – from determination of the reference system, scientific analyses of GNSS data, through various types of services provided to the users of GNSS on different levels of accuracy and reliability, ending with a large variety of applications – coordinated and developed by national, regional and pan-European authorities.

PosKEN strategy currently focuses on the following topics:

1. Provide a networking platform for experts,
2. Establish the European Positioning System,
3. Coordinate GNSS service and policies developments,
4. Create standards, guidelines and recommendations,
5. Harmonize the position of GNSS network operators and users,
6. Advertise the use of ETRS89 in Europe.

On the meeting, each representative organization and each Country gave its presentations about the current position inside the organization as well as situation by Countries.

Saulius Urbanas (Lithuania, Eurogeographics) presented update, collaborative aspects in PosKEN. He gave an overview about the EG activities and other KEN's. In addition, EuroDEM Project on the borders of Germany, Poland and Czech Republic was announced as well as plans for European Positioning System.

Author of this report represented CLGE position. CLGE represents wide platform of GNSS users within its member countries. The most valuable for PosKEN other members that CLGE can give could be feedback from thousands of every day's users. On the other hand, Surveyors in CLGE member organizations are waiting for better quality, reliability and precision of the GNSS services to have more success with competition to other measurement technologies. These goals could be reached with more cooperation within PosKEN.

Branislav Droscak (Slovakia), member of the EX-Board, represented EUPOS. His presentation focused on three working groups inside the EUPOS, common standard for RTK Network Surveying and RTK user guide. In addition, Mr. Droscak mentioned that EUPOS needs an educated and active person to maintain EUPOS relationships with GPS. This activity shall be covered on voluntary basis.

As EUREF unfortunately couldn't attend the meeting, guest from GSA (European GNSS Agency) Michal Babacek had opportunity to introduce implementation of GALILEO programme and the availability of GALILEO services. Galileo launches its last satellites at the begin of 2018 and from 2020 the system must be fully operational with 30 satellites. Service levels planned for Galileo are: Open

Service, Publicly Regulated Service, Search and Rescue Service, Commercial service, Precise Positioning with triple frequency. Mr Babacek presented also Market report, which underlines fact that GNSS positioning services are so far used only 4,5% for Surveying as main activities are still positioning and navigation with smartphones and other navigational devices. Slightly over 50% of existing GNSS receivers in Europe are compatible with Galileo. First drafts of pricing strategy will soon be available. Also there was assertion that Galileo satellite trajectories are more appropriate for better positioning in Europe.

On the discussion panel, compability issues between different manufacturers were discussed.



PosKEN meeting, photo: author.

The second half of meeting was fulfilled with national presentations. Countries like Croatia, Estonia, Finland, Latvia, Ireland, Sweden, Slovakia, The Netherlands, Bosnia and Hercegovina, Poland and Czech Republic gave its presentations. Each Country shared its experience with establishing, maintenance and use of National GNSS-Network and its status within Country. In addition, technical, financial and legal aspects were announced in many presentations.

Presentations were highly interesting and called out many open discussions. All presentations as well as presentation videos are published on PosKEN website

<http://www.eurogeographics.org/content/posken-positioning>

During the final discussions, several future ideas were put on the table: Hardware and software issues, State vs Private networks, surveys and knowledge exchange. EUREF topics to continue, regional Projects as Struve Arc and support for Albania and Kosovo who are just establishing their GNSS networks.

Plans are need for new formulating of the working plan between 4 parties of PosKEN, organized access to RTCM (The Radio Technical Commission for Maritime Services). Next meeting place was proposed for next autumn, probably in Czech Republic.

The meeting was followed also by webinar, simultaneously by 5...10 people.



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