


EUPOS
EUROPEAN POSITION DETERMINATION SYSTEM

**INTERREG III C project
EUPOS-Interregional Cooperation
User workshop
Riga, Latvia 2007 05 09-10**

**Lithuanian EUPOS website contribution for
large scale information dissemination**


**Leonardas Marozas and Arunas Buga
Institute of Geodesy, Vilnius Gediminas Technical University,
Sauletekio al. 11,
LT-10223 Vilnius-40, Lithuania,
e-mail: leonardas.m@gmail.com; buga@ap.vtu.lt**



EUPOS
EUROPEAN POSITION DETERMINATION SYSTEM

Main milestones:


- EUPOS as a ground based European regional GNSS augmentation system idea was raised first in March 2002, Berlin, Germany
- Lithuania represented by Institute of Geodesy, VGTU has joined INTERREG III C project EUPOS-Interregional Cooperation in September 2006
- Website eupos.vgtu.lt mainly devoted for the EUPOS Know-how office functions was launched in March, 2007



EUPOS
EUROPEAN POSITION DETERMINATION SYSTEM

Progress on eupos.vgtu.lt website


- ✓ Design completed in February
- ✓ Free Content Management System improved and edited for eupos.vgtu.lt needs in March
- ✓ Programming finished in March
- ✓ Page released for testing and basic usage in March
- ✓ Information uploaded (continuing)



EUPOS
EUROPEAN POSITION DETERMINATION SYSTEM

CMS

- ✓ Free CMS used
- ✓ Modules edited and adapted for eupos.vgtu.lt site
- ✓ Training for users in using CMS arranged
- ✓ Current modules:
 - News* module
 - Simple *text* module



EUPOS
EUROPEAN POSITION DETERMINATION SYSTEM

Currently under Development

- Forum for information exchange
- Lithuanian version of the page
- User authentication for access to non-public areas



EUPOS - Know-How Office - Windows Internet Explorer

http://eupos.vgtu.lt/index.php?page=know-how-office

File Edit View Favorites Tools Help

Open PDF in Word

EUPOS - Know-How Office

EUPOS
EUROPEAN POSITION DETERMINATION SYSTEM

Home
General Information
News
Know-How Office
Regional Development
INTER-REG IBC
User Information
Downloads
Useful Links
LITPOS
Forum
Contacts

News

03/21/07
EUPOS Tender announced
Category: General
Posted by: Elmis
Tender for a study about sustainable high precision applications of the DGNSS reference station services EUPOS which have a significant impact on regional development, on the user community as well as on implementation and investment plans
[More]

03/06/07
EUPOS@-RC Know-how Offices
Category: News

General ideas of EUPOS-IRC Know-How Office

General ideas to establish the **EUPOS@-RC** Know-how office:

- GNSS technology is here for multiple fields of applications in everyday life and in different knowledge based economic processes. To accelerate the application of GNSS technology on regional, national and international level existing expert knowledge should be focused and exploited in a more efficient way.
- Potential and actual GNSS users need technical advice, support and know how on their field of applications in different degrees.
- In order to satisfy these needs the establishment of GNSS Know-how offices is proposed by the project.

The **EUPOS@-RC** Know-how Office is a hub of GNSS related knowledge serving users in a particular region or geographic area by providing expert advice/support for GNSS related developments and applications. Every Know-how Office maintains contacts with similar Offices in the partner regions/countries, with the purpose of mutually coordinating/supporting the activities. By this collaboration a network of Know-how Offices will be established, connecting regions, covering a large geographic area in Europe, making user support inter-regional/international. The Know-how Office can be considered as the precursor of GNSS National Service Centres, since the majority of commitments and duties overlap. After the project terminates the existing and well functioning Know-how Office network can be developed further to an NSC network, making use of the investments in knowledge base, technical expertise and human contacts.


A network of national **EUPOS@-RC** Know-How Offices co-operating with each other will be developed in a coordinated way. The Offices shall be know-how centres for the operation as well as for everybody else, who is interested in applications based satellite positioning technology. The Offices will support the regional aspect of the operation e.g. by making and maintaining contacts to regional development bodies in order to identify corresponding stakeholder and experts as members of a Regional Policy Board and as participants of the regional user workshop and the training course. The Offices support C4 with background information for the studies, personnel support of the demonstration pilots and the show cases. The Offices will produce information material in order to inform about and create awareness for the possibilities and benefits of satellite-based applications. The **EUPOS@-RC** internet presentation will be set up containing all information about the operation. P2 will implement a national **EUPOS@-RC** Know-how Office website.

The EUPOS initiative has planned to install National **EUPOS@-RC** Service Centres (NSCs) in all **EUPOS@-RC** countries with tasks like coordinating the technological development in DGNSS sector, linking involved organizations, bringing together users, public bodies and industry, planning technical infrastructure, monitoring EUPOS reference station systems etc. At the moment no NSC exists; only DGNSS computing centres in the partner countries monitor the reference stations. All other tasks cannot be done due to missing personnel and financial resources as well as due to missing official authorization. The **EUPOS@-RC** initiative is not able to realise the NSCs establishment completely by own resources. Therefore in this Component the NSC establishment shall be prepared by creating implementation concepts and working programmes for the NSCs defining the specific tasks, the roles and the decision-power, the management, the personnel and financial concept. The concepts must also include the administrative roadmap for the NSC establishment. One idea to be examined is to connect the existing DGNSS computing centres with the **EUPOS@-RC** Offices in order to ensure a long-term impact of this operation and to continue the know-how providing in the regions. The work of the **EUPOS@-RC** Know-how Offices will be coordinated by a Working Group (CWG 3) which also will regular meet with representatives from the not involved **EUPOS@-RC** countries in order to ensure the regular information exchange for a common **EUPOS@** development.

In case the regional development high level representatives can be identified and contacted quick enough they will be invited to a Regional Policy Board meeting in order to exchange satellite positioning and regional development experience and to create awareness for the benefits **EUPOS@** based applications can have for the regional development and to create a long-term common work.

Done


start | Total Commander... | Internet Explorer | Microsoft Office... | CWG4_Questions... | Document2 - Mgr... | eupos | EN | 11:05



EUPOS
EUROPEAN POSITION DETERMINATION SYSTEM

Potential fields to attract customers (1)

- Geodetic surveying
- GIS (Decision support system, data bases)
- Transport and fleet management, international cross border transport fleet management
- Machine guiding
- Railway
- Water
- Emergency services
- Public transport (bus, trolleybus, tram, taxi)
- Car navigation maps
- Dangerous goods transportation
- Tracking of agricultural goods
- Container transit



EUPOS
EUROPEAN POSITION DETERMINATION SYSTEM


Potential fields to attract customers (2)

- Tourism (data bases, maps, navigation)
- Hydrology
- Fishing
- Forestry
- Navigation of private helicopters, planes, boats
- Disaster management
- Inventory and real estate evaluation
- Agriculture application for subsidies
- Urban planning
- Height determination (flooding, surveying)
- Environment protection



Liels paldies!

Paldies par jūsu viesmīlību !




EUPOS
EUROPEAN POSITION DETERMINATION SYSTEM

**INTERREG III C project
EUPOS-Interregional Cooperation
User workshop
Riga, Latvia 2007 05 09-10**

**Lithuanian EUPOS website contribution for
large scale information dissemination**


**Leonardas Marozas and Arunas Buga
Institute of Geodesy, Vilnius Gediminas Technical University,
Sauletekio al. 11,
LT-10223 Vilnius-40, Lithuania,
e-mail: leonardas.m@gmail.com; buga@ap.vtu.lt**



EUPOS
EUROPEAN POSITION DETERMINATION SYSTEM

Main milestones:


- EUPOS as a ground based European regional GNSS augmentation system idea was raised first in March 2002, Berlin, Germany
- Lithuania represented by Institute of Geodesy, VGTU has joined INTERREG III C project EUPOS-Interregional Cooperation in September 2006
- Website eupos.vgtu.lt mainly devoted for the EUPOS Know-how office functions was launched in March, 2007



EUPOS
EUROPEAN POSITION DETERMINATION SYSTEM

Progress on eupos.vgtu.lt website


- ✓ Design completed in February
- ✓ Free Content Management System improved and edited for eupos.vgtu.lt needs in March
- ✓ Programming finished in March
- ✓ Page released for testing and basic usage in March
- ✓ Information uploaded (continuing)



EUPOS
EUROPEAN POSITION DETERMINATION SYSTEM

CMS

- ✓ Free CMS used
- ✓ Modules edited and adapted for eupos.vgtu.lt site
- ✓ Training for users in using CMS arranged
- ✓ Current modules:
 - News* module
 - Simple *text* module



EUPOS
EUROPEAN POSITION DETERMINATION SYSTEM

Currently under Development

- Forum for information exchange
- Lithuanian version of the page
- User authentication for access to non-public areas



EUPOS - Know-How Office - Windows Internet Explorer

http://eupos.vgtu.lt/index.php?page=know-how-office

File Edit View Favorites Tools Help

Open PDF in Word

EUPOS - Know-How Office

EUPOS
EUROPEAN POSITION DETERMINATION SYSTEM

Home
General Information
News
Know-How Office
Regional Development
INTER-REG IBC
User Information
Downloads
Useful Links
LITPOS
Forum
Contacts

News

03/21/07
EUPOS Tender announced
Category: General
Posted by: Elmis
Tender for a study about sustainable high precision applications of the DGNSS reference station services EUPOS which have a significant impact on regional development, on the user community as well as on implementation and investment plans
[More]

03/06/07
EUPOS@-RC Know-how Offices
Category: News

General ideas of EUPOS-IRC Know-How Office

General ideas to establish the **EUPOS@-RC** Know-how office:

- GNSS technology is here for multiple fields of applications in everyday life and in different knowledge based economic processes. To accelerate the application of GNSS technology on regional, national and international level existing expert knowledge should be focused and exploited in a more efficient way.
- Potential and actual GNSS users need technical advice, support and know how on their field of applications in different degrees.
- In order to satisfy these needs the establishment of GNSS Know-how offices is proposed by the project.

The **EUPOS@-RC** Know-how Office is a hub of GNSS related knowledge serving users in a particular region or geographic area by providing expert advice/support for GNSS related developments and applications. Every Know-how Office maintains contacts with similar Offices in the partner regions/countries, with the purpose of mutually coordinating/supporting the activities. By this collaboration a network of Know-how Offices will be established, connecting regions, covering a large geographic area in Europe, making user support inter-regional/international. The Know-how Office can be considered as the precursor of GNSS National Service Centres, since the majority of commitments and duties overlap. After the project terminates the existing and well functioning Know-how Office network can be developed further to an NSC network, making use of the investments in knowledge base, technical expertise and human contacts.


A network of national **EUPOS@-RC** Know-How Offices co-operating with each other will be developed in a coordinated way. The Offices shall be know-how centres for the operation as well as for everybody else, who is interested in applications based satellite positioning technology. The Offices will support the regional aspect of the operation e.g. by making and maintaining contacts to regional development bodies in order to identify corresponding stakeholder and experts as members of a Regional Policy Board and as participants of the regional user workshop and the training course. The Offices support C4 with background information for the studies, personnel support of the demonstration pilots and the show cases. The Offices will produce information material in order to inform about and create awareness for the possibilities and benefits of satellite-based applications. The **EUPOS@-RC** internet presentation will be set up containing all information about the operation. P2 will implement a national **EUPOS@-RC** Know-how Office website.

The EUPOS initiative has planned to install National **EUPOS@-RC** Service Centres (NSCs) in all **EUPOS@-RC** countries with tasks like coordinating the technological development in DGNSS sector, linking involved organizations, bringing together users, public bodies and industry, planning technical infrastructure, monitoring EUPOS reference station systems etc. At the moment no NSC exists; only DGNSS computing centres in the partner countries monitor the reference stations. All other tasks cannot be done due to missing personnel and financial resources as well as due to missing official authorization. The **EUPOS@-RC** initiative is not able to realise the NSCs establishment completely by own resources. Therefore in this Component the NSC establishment shall be prepared by creating implementation concepts and working programmes for the NSCs defining the specific tasks, the roles and the decision-power, the management, the personnel and financial concept. The concepts must also include the administrative roadmap for the NSC establishment. One idea to be examined is to connect the existing DGNSS computing centres with the **EUPOS@-RC** Offices in order to ensure a long-term impact of this operation and to continue the know-how providing in the regions. The work of the **EUPOS@-RC** Know-how Offices will be coordinated by a Working Group (CWG 3) which also will regular meet with representatives from the not involved **EUPOS@-RC** countries in order to ensure the regular information exchange for a common **EUPOS@** development.

In case the regional development high level representatives can be identified and contacted quick enough they will be invited to a Regional Policy Board meeting in order to exchange satellite positioning and regional development experience and to create awareness for the benefits **EUPOS@** based applications can have for the regional development and to create a long-term common work.

Done


start Total Commander... 4 Internet Explorer - Microsoft Office... CWG4_Questions... Document2 - Mgr... eupos EN 11:05



EUPOS
EUROPEAN POSITION DETERMINATION SYSTEM

Potential fields to attract customers (1)

- Geodetic surveying
- GIS (Decision support system, data bases)
- Transport and fleet management, international cross border transport fleet management
- Machine guiding
- Railway
- Water
- Emergency services
- Public transport (bus, trolleybus, tram, taxi)
- Car navigation maps
- Dangerous goods transportation
- Tracking of agricultural goods
- Container transit



EUPOS
EUROPEAN POSITION DETERMINATION SYSTEM

Potential fields to attract customers (2)

- Tourism (data bases, maps, navigation)
- Hydrology
- Fishing
- Forestry
- Navigation of private helicopters, planes, boats
- Disaster management
- Inventory and real estate evaluation
- Agriculture application for subsidies
- Urban planning
- Height determination (flooding, surveying)
- Environment protection



Liels paldies!

Paldies par jūsu viesmīlību !