BELS: GNSS Bridges between Europe and South East Asia

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BELS - Timeline

- 2009: SEACAL
- 2010: navis Opened!
- 2011: Collaboration with NAVIS
- 2012: BELS
- 2013: GALILEO 1st launch
- 2015: GALILEO 2nd launch
- 2018: GALILEO IOV
- 2018: GALILEO IOC
- 2018: GALILEO FOC
BELS – Stakeholders

Universities

Companies

Research and Technology Transfer Centres

Subcontractor

IGNSS 2016
Why South East Asia?

- Most dynamic region in the world with fast development
- Growing and rather young population keen to use latest ICT technologies
- GNSS applications are considered key for SEA sustainable growth
- Not GNSS Providers
- Best multi-GNSS coverage in the world
- Peculiar environment for ionospheric scintillations

A key focus for EU GNSS policies!
What is already there?

“The mission of Navis is to boost the R&D of satellite navigation technology, especially the European Galileo System, in South-East Asia.”

http://navis.hust.edu.vn

IGNSS 2016
NAVIS Services

- Awareness
- Education and Training
- Support to Public bodies
- Technology Transfer
- Research and Technological Development

IGNSS 2016
NAVIS Strengths

Skilled and experienced personnel

Geographical position

National and international recognitions

Facilities

Staff already familiar with EU environment

Links with national and regional GNSS stakeholders
What BELS do

- Facilitate the **breakthrough of EGNSS technology in South East Asia** through the support to EU Companies to establish links in SEA and test their solutions in that environment.

- Conduct a set of coordinated activities for awareness raising and capacity building to extend and strengthen the links between SEA and EU research institutions.

- Exploit the potentialities of the NAVIS Centre in Hanoi consolidating the results achieved in past years and maximizing the outcomes.
What we do: Promotion of EGNSS Solutions in SEA

1st Call for Expression of Interest
Supports visits of companies aiming to establish links to SEA stakeholders

2nd Call for Expression of Interest
Supports companies aiming to test their GNSS solutions in the NAVIS Centre in Hanoi
European Companies in Hanoi

- 7 companies selected - 6 accompanied in SEA

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What we do: Capacity Building on EGNSS in SEA

• BELS Special Prize in ESNC
  • Reserved to researchers and students from South East Asia
  • To attract smart SEA researchers to EGNSS-based solutions
  • To support their collaboration with EU companies and research centres

25th October in Madrid – ESNC Award Ceremony in 2016 Satellite Masters Conference
What we do: Capacity Building on EGNSS in SEA

- 6 applications received
- 3 researchers funded from Laos, Indonesia, The Philippines
- The call is still open
What we do: Awareness EGNSS in SEA

Member of Multi-GNSS Asia and co-organizer of MGA Conference in Brunei (2015) and Manila (2016)

Short workshops in Indonesia, Laos and the Philippines
Future Perspectives

- Active while Galileo is fully deployed
- It will pave the way to future cooperation between European and SEA stakeholders
- Identify next steps to convert “European links toward South East Asia in the field of GNSS” into a sustainable connection
Thank you!

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