Curricula Enrichment for Sri Lankan Universities Delivered Through the Application of Location-based Services to Intelligent Transport Systems

23 June, 10:30 — 12:00 CEST
Categories for Education in Geodesy and Transportation Science

- Understanding travel behavior
- Modelling transport
- Navigation and mobile guides
- Non-navigation assistive systems
- Optimization of traffic flows / transport demand management
- Location based gaming including fitness monitoring
- Other emerging applications such as advertisement, education, logistics goods transportation
Train-the-teachers Courses

• Transportation system planning for smart cities
• Alternative PNT technologies
• Estimation theory and processing of spatial data
• Data and models in transportation
• Smartphone positioning techniques for in- and outdoor localization
• LBS and multi-media cartography
Innovation

• Integration of various aspects of LBS into ITS
• Higher level of interdisciplinarity
• Major aims in education in these domains include:
  (1) Geomatics / Geodesy dealing with PNT and sensors
  (2) LBS including cartography and GIS
  (3) Smart transportation and mobility
• Focus on problem-based learning (PBL) and quality assurance (QA) in teaching
Covid-19 Impact

• Project start with kick-off only virtual
• Virtual meeting was productive, but no personal contact between actors is problematic
• Workshops and train-the-teachers courses must be held mainly hybrid or virtual in dependence on covid-19 situation
• Student involvement and interaction with teachers critical
• But distance learning can bring the benefit for students to be able to participate in courses of other Universities more easily
Lessons Learned

• Progress in blended learning expected

• Requirements for successful implementation:
  (1) Modernization or establishment of e-learning platforms at all participating Universities essential
  (2) Purchase of equipment for better possibilities for live-streaming and video recording of lectures
SMART SURVEYORS FOR LAND AND WATER MANAGEMENT
CHALLENGES IN A NEW REALITY

LBS2ITS
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