SMART SURVEYORS FOR LAND AND WATER MANAGEMENT
CHALLENGES IN A NEW REALITY

FIG NL THE NETHERLANDS

e WORKING WEEK 2021
20-25 JUNE

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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

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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

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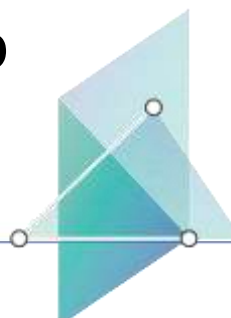PLATINUM SPONSORS Trimble. esri THE SCIENCE OF WHERE

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

Lessions Learned

- Progress in blended learning expected

- Requirements for succesful 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