

**EHITUSTEADUSKOND  
LOGISTIKAINSTITUUT  
TEADUS- JA ARENDUSTEGEVUSE AASTAARUANNE 2013**

## **1. Struktuur**

### **Logistikainstituut, Department of Logistics and Transport Instituudi direktori kt Alari Purju**

- Veenduslogistika õppetool (ELV), Chair of Transportational Logistics, Ott Koppel
- Transpordi planeerimise õppetool (ELP), Chair of Transport Planning, Dago Antov
- Tarneahela juhtimise õppetool (ELT), Chair of Supply Chain Engineering, Hele Hammer
- Logistika- ja tarneala juhtimise labor, Innovation Lab of Logistics, Ulrika Hurt

## **2. Teadus- ja arendustegevuse (edaspidi T&A) iseloomustus**

2.1 Struktuuriüksusesse kuuluvad uurimisgrupid (*kõik uurimisgrupid näidatakse aruandes eraldi, järgides alltoodud ülesehitust*).

### **TTÜ Logistikainstituut, Department of Logistics and Transport, Alari Purju**

*Uurimisgrupi all käsitleme üsna hiljuti alustanud logistikainstituuti, mille eesmärgiks on tegutseda olulistest tarneahela juhtimise, logistika ja transpordisüsteemide kavandamise uurimissuundades, pakkudes rahvusvahelisel tasemel tulemusi ning teadmiste ja tehnoloogia siiret; toetada Tallinna Tehnikaülikooli kui rahvusliku tehnika- ja tehnoloogiaülikooli missiooni oma tegevusvaldkonnas. Teisel tegevusaastal jätkati teadusprojektidega transpordi planeerimise, säästvate transpordisüsteemide, tarneahela juhtimise ja logistika valdkondades.*

- uurimisgrupi teadustöö kirjeldus (*inglise keeles*);  
*R&D areas – production and transportation logistics; traffic safety and transport planning; ICT in road engineering and transport; supply chain management*
- uurimisgrupi aruandeaastal saadud tähtsamad teadustulemused (*inglise keeles*);  
*During the second year research projects continued transportation planning, sustainable transport systems, supply chain management and logistics areas.*
  - a) *Multimedia dictionary of logistics and supply chain management in www environment.*  
*Creation of a web-based dictionary with open access that unifies and explains the terminology in the field of logistics in Estonian. In addition to terms and definitions, the dictionary will comprise illustrative materials as photos, drawings, videos, etc. This user friendly web dictionary would be a novel and innovative technological solution in its area that will improve the quality of professional university studies and in-service training provided to adults*
  - b) *Development of MSc-level curricula “Supply chain management” and “Logistics” in cooperation between Tallinn University of Applied Sciences and Tallinn University of Technology based on the requirements of labour market.*  
*The objective of the project is developing and reorganising the MSc-level curricula “Supply chain management” and “Logistics” in Tallinn University of Applied*

*Sciences and Tallinn University of Technology based on the needs of the labour market. The project enhances the visibility of the universities in the Baltic Sea region through organising international intensive courses and engaging foreign students.*

c) *Smart competitiveness for the Central Baltic region environment*

*Smartcomp aims to support environmentally sustainable development, growth, competition and cooperation between maritime clusters, cities and universities in the Central Baltic Sea region. In order to achieve these aims the project provides comprehensive understanding of the current state and future of the region'' s maritime clusters, recognizes the problematic areas hindering the clusters'' growth, identifies best practices and suggests business operation models. Through training and consultation companies get to benefit from these results. Triple helix cooperation will be increased through policy suggestions and development roundtables. The triple helix database created by the project will support achievement of these targets.*

d) *Research agreement concerning cost-benefit analyses for Abeking & Rasmussen.*

1) *Cost-benefit analysis of a 25m Offshore Windpark Crew transfer vessel in relation with the possible operation in high seastate compared to monohull crew transfer vessels and helicopter services;*

2) *Cost-benefit analysis of functional modules on a 25m SWATH for different operational modes, e.g. Search and Rescue, Averages, Maintenance and repair of underwater bodies, etc.*

- uurimisgrupi kuni 5 olulisemat publikatsiooni aruandeaastal.

*Kuhi, K.; Kaare, K. K.; Koppel, O. (2013). Estimation of Missing or Incomplete Data in Road Performance Measurement Systems. World Academy of Science, Engineering and Technology, 82, 79 - 85.*

*Leppiman, A.; Kõrbe Kaare, K.; Koppel, O. (2013). Future Outlook and Current Situation for Security of Gas Supply in Eastern Baltic Region. World Academy of Science, Engineering and Technology, 83, 1287 - 1294.*

*Mäe, R.; Antov, D.; Antso, I. (2013). Jobs created out of Tallinn have not reduced commuting. The Baltic Journal of Road and Bridge Engineering, 8(1), 58 - 65.*

*Tosa, C.; Antov, D.; Köllö, G.; Rõuk, H.; Rannala, M. (2013). A Methodology for Modelling Traffic Related Carbon Monoxide Emissions in Suburban Areas. Transport, 28(2), 1 - 8.*

*Purju, A.; Branten, E. (2013). The Economies of the Baltic Sea Region: Growth Patterns and Foreign Trade Now and in the Future . Journal of East-West Business, 19(1-2), 4 - 15.*

## 2.2 Loetelu struktuuriüksuse töötajate rahvusvahelistest tunnustustest.

*Puuduvad*

## 2.3 Loetelu struktuuriüksuse töötajatest, kes on välisakadeemiate või muude oluliste T&A- ga seotud välisorganisatsioonide liikmed.

*Alari Purju*

*Ameerika Balti Uuringute Assotsiatsioon (AABS);*

*Euroopa Evolutsioonilise Majandusteaduse Selts;*

*Ameerika Majandusteadlaste Assotsiatsioon;*

*Ott Koppel*

*Rahvusvahelise Inseneripedagoogika Ühingu (IGIP);  
Society for the Study of Emerging Markets (SSEM);  
World Conference on Transport Research Society;  
DAAAM International Vienna;*

*Dago Antov*

*International Cooperation on Traffic Safety Concepts and Theories (ICTCT);*

*Kati Kõrbe Kaare*

*Council of Supply Chain Management Professionals  
DAAAM International Vienna;*

*Ulrika Hurt*

*University Association of Contemporary European Studies (UACES);  
DAAAM International Vienna;*

2.4 Soovi korral esitatakse aruandeaastal saadud T&A-ga seotud tunnustused (va punktis 2.3 toodud tunnustused), ülevaade teaduskorralduslikust tegevusest, teadlasmobiilsusest ning hinnang oma teadustulemustele.

*Dago Antov - Autasustatud Siseministri aukirjaga panuse eest üleriigilise planeeringu Eesti 2030+ koostamisel.*