Break-Out Session 4 – Wednesday 28 October 2015

Research Track and Poster Session Location: Goudriaan I&II

14.00-14.10 Welcome and introductory remarks (Yao-Hua Tan, Delft University of Technology, Wil van Heeswijk, Directorate-General Tax & Customs Union, European Commission)

14.10-14.15 Customs Master. Rotterdam School of Management (Kaals Wassens)

14.15-14.45 Using Container Status Messages to improve targeting of high-risk cargo containers. Aris Tsois, Jose Antonio Cotelo Lema, Michail Makridis and Enrico Checchi

Aris Tsois received his diploma in 1995 from the Electrical and Computer Engineering School of the National Technical University of Athens, Greece. From 1995 to 2005 he worked in Greece in various projects for the private sector, for the ICCS Academic Research Body in several European research projects as well as teaching assistant as the National Technical University of Athens. In 2005 he received his PhD from the same university with a thesis on optimization techniques for data warehouses. Since 2005 he works at the Joint Research Centre as a Scientific Project Officer. In 2014 he has been assigned Project Leader of the ConTraffic project for which he works since 2007. His research interests include databases, data warehouses, artificial intelligence, data mining, knowledge extraction, visual analytics and risk assessment for supply chain security.

14.45-15.10 An initial version of a federated infrastructure implementing the global data pipeline. Wout Hofman

Wout Hofman holds a PhD in information technology on the development of a conceptual model for a software system to support customer driven business process orchestration in transport and logistics. He has a broad experience in interoperability between organisation and systems. Amongst others Wout has worked for the EC (DG Taxud – interoperability design of the Transit system and DG JAI – Architecture of Schengen II) as an IT architect and has written the initial specification of the Rotterdam port system. He has a broad experience in customs and international trade. Recently, he has been responsible for the IT development in EU FP7 SEC Cassandra and currently holds this position for the EU FP7 SEC CORE project. Furthermore, Wout performed a Policy Impact Assessment study for interoperability in eFreight, he supports the Digital Transport and Logistics Forum of EU DG Move and he is member of the WG3 on ICT in multimodal supply chains and logistics of the ETP Alice.

15.10-15.30 Poster presentations

15.30-16.00 Coffee and networking break
**16.00-16.05** Customs Bachelor Degree. Fontys University of Applied Sciences. Thierry Verduijn

**Dr. Thierry Verduijn** is an experienced consultant and researcher in supply chain management. In his career he participated in several projects in supply chain security and the optimisation of border management processes in the Port of Rotterdam en Schiphol Airport. Thierry received his PhD from Erasmus University Rotterdam on the topic of dynamism in supply networks in 2004. Since January 2015 he is associate professor in Supply Chain Management at the Fontys University of Applied Sciences focussing on Trade Compliance and Border Management.

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**16.05-16.30** Increasing X-ray image interpretation competency of cargo security screeners. Stefan Michel, Marcia Mendes, Jaap C. de Ruiter, Ger C. M. Koomen and Adrian Schwaninger

**Marcia Mendes** works as a research scientist at the University of Applied Sciences and Arts Northwestern Switzerland (FHNW) and the Center for Adaptive Security Research and Applications (www.casra.ch) in Zurich. She is a member of the security research team led by Prof. Dr. Adrian Schwaninger and involved in several national and international projects in aviation security. Marcia finished her studies in psychology (work and organizational psychology, health psychology, clinical psychology and public health) at the University of Bremen (Germany) in 2009. In 2015 she completed her doctoral thesis on the topic of human factors in aviation security X-ray screening.

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**16.30-16.55** Feasibility of fully 3-dimensional X-ray tomography of sea freight containers: an implementation study. Theobald Fuchs and Frank Sukowski


From 1995 until 2002, Dr. Theobald Fuchs joined the radiological department of the University Hospital in Erlangen. In 1998, he received his Ph.D. in Medical Physics on reduction methods for beam hardening artifacts in X-ray Computed Tomography.

From 2003 until 2006, Dr. Theobald Fuchs worked as a scientist at the Fraunhofer Development Center X-ray Technology (EZRT) in Fürth, Germany. Since 2006, Dr. Theobald Fuchs holds the position of the Chief Executive Scientist of the EZRT.

Dr. Theobald Fuchs's scientific activities and interests include X-ray physics, radiation detectors, dosimetry and radiation protection, medical imaging in general, Computed Tomography,
reconstruction algorithms, image processing as well as automatic image evaluation for industrial inspection, and thermographic imaging.

He published more than 40 scientific papers and patents.

**16.55-17.20 Control and monitoring in international logistics chains.** Albert Veenstra, Joris Hulstijn and Yao-Hua Tan

Prof. Dr. A.W. Veenstra is scientific director of the Dutch Institute for Advanced Logistics, Dinalog, and part time professor in International Trade Facilitation and Logistics at the Technical University Eindhoven. He was senior business consultant at TNO from 2011 to 2014. Before joining TNO he was assistant professor at the Erasmus University in Rotterdam from 1994 to 2010.

Albert has extensive experience in the field of multimodal freight transport and synchromodality as well as in international freight transport and logistics. Albert was part of the scientific coordination team of a large integrated project in the 7th framework research program of the EU: CASSANDRA; a €15.5 mln project that deals with innovation in compliance of businesses in international trade with rules and regulations of customs and other government agencies. Albert is part of several (informal) networks that determine the research agenda for the European Commission FP7 program, as well as vice chair of Working Group 1 (Supply Chain Management) of the European Technology Platform Alice. Albert is part of the steering committee on synchromodality of the Dutch Topsector Logistics and associate editor of the journal Transportation Research Vol. E.

**17.20-17.45 Human security radar: fully automatic early-warning person screening system for border/Customs checkpoints.** Jan Persson and Dmitrii Vakhtin

Dmitrii Vakhtin is a Senior Research Scientist at APSTEC Systems. He got a degree in nuclear physics in 2002, and his current interests are in the field of decision-making algorithms in automatic threat detection systems.

**17.45-18.00 Concluding remarks (Yao-Hua Tan, Wil van Heeswijk)**

**18.00-19.00 Free time to prepare for Dinner**