TRAIL

Research School for Transport,
Infrastructure and Logistics

Course
Transport Innovations

Date:	**27 October 2017 (follow up day to be determined)**
Time:	**Day 1: 09.30 – 17.00 h. (& date to be determined: 10.00 -12.00 h)**
Location:	**TU Delft, TPM, Jaffalaan 5**
Room:	**Instructiezaal F**
Course leaders:	**Prof. dr. Harry Geerlings, Dr. Jan Anne Annema, Dr. B. Wiegmans and Pieter Wouters (Min. IenM)**
ECTS:	**1 (attendance) / 2 (attendance + assignment)**
Days:	**1 (& 2 hours - to present assignment)**
Course fee:	**Free for TRAIL/Beta/OML members, others please contact the TRAIL office**
Registration:	**info@rstrail.nl**

Objectives
To gain an overview of transport and logistics innovations and to learn which factors determine success or failure of an innovation.

Course description
Containerization, from horse to Porsche, from 80 days around the world to just 24 hours: the world of transportation and logistics innovations is fascinating. This course gives an introductory overview of past, current and future transport innovations. Road pricing, public transport chip card, electric vehicles, biofuels, Intelligent Speed Adaptation (ISA), freight transport innovations, etc., will be used as examples.

This course aims to improve the participants' knowledge of:
- Past, current, and future technological developments of transport innovations;
- Success and failure conditions of transport innovations;
- Technological and societal conditions for the implementation of transport innovations;
- Innovation theories and methodological approaches in order to give PhD candidates some baggage which they might use in their thesis. Because, let's face it, most theses aim to contribute to something 'new'.

Program
09.30 - 10.30 h.: Transport innovation theory (Harry Geerlings)

10.45 - 12.00 h.: A vision on sustainable fuels for transport: the role of policymaking (Pieter Wouters - MinIenM)

12.00 - 12.15 h.: Debate, questions and lessons learned from the morning session (interactive)

Lunch

13.00 – 14.00 h.: Transport innovation: different real-world cases discussed (Bart Wiegmans)

14.15 – 15.30 h.: Transport technology policy making: success and failure factors (Jan-Anne Annema)

15.30 – 16.00 h.: Debate, questions and lessons learned from the afternoon session and total wrap-up (interactive)

During the day the students will get a mix of lectures and exercises.

Assignment
Each student has to deliver an assignment to complete the course.
The objective of the assignment is that each student assess his/her own PhD study, reflects to what extent the PhD-study contains innovative elements (hardware or process oriented).

The questions to be addressed in the assignment should be: what is the possible societal impact of the PhD-study, and what strategy would be opportune to take care that these innovative elements (or element) will actually be used by parties (either governments, business or consumers, or any combination). Paramount in this analysis is to try to identify potential success and failure factors (based on theory and practice as taught during the course) for your innovation and ways how to deal with these. It is important that the assignment reflects the theoretical notions presented in the course.

The assignment should contain around 2000 words (+/- 10%) including references.

The assignment has to be send to the TRAIL office: info@rstrail.nl (date to be determined).

Each student is expected to give a brief presentation on his/her assignment on <date to be determined> to the classmates and the course leaders. After the presentation the course leaders will give their comments on the assignment.

Course material
Distributed during the class.

Prerequisite
None