
Information on: [Department of Transport and Regional Economics](#) /
[Research Centre Freight and Passenger Transport – Steunpunt Goederen- en Personenvervoer](#)

Dear Ms,
Dear Sir,



The [Department of Transport and Regional Economics](#) of the University of Antwerp has a new website, to ease your search for information on research results and training. Experience it now!

The Department had following peer-reviewed **paper publications** issued the latest months:

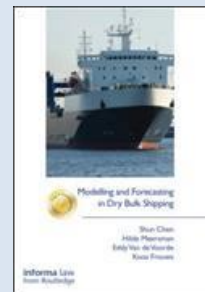
- Meersman, Hilde, Van de Voorde Eddy: "[Port capacity extension. A trade-off between public investment and shipping companies' time losses](#)" (2014), Working paper Faculty of Applied Economics
- Meersman, Hilde, Pettersen-Strandenes Siri, Van de Voorde Eddy: "[Port pricing: Principles, structure and models](#)" (2014), Working paper Faculty of Applied Economics
- Gevaers Roel, Van de Voorde Eddy, Vanellander Thierry: "[Cost modelling and simulation of last-mile characteristics in an innovative B2C supply chain environment with implications on urban areas and cities](#)", Procedia: social and behavioral sciences - ISSN 1877-0428 - 125(2014), p. 398-411

The Department recently had following **new books published** by its members:

- Hilde Meersman, Eddy Van de Voorde, Thierry Vanelslander had a book published on [Port Infrastructure Finance](#) (released on 6 June 2014). This book provides an expert analysis of alternative investments routes and the investment strategies available to the major port players, and is a much-needed guide to expanding the investor base for private debt funding of projects from loan providers to bond investors. Port Infrastructure Finance is an invaluable book for all parties involved in the port and maritime business, as well as investment companies, banks and other financial institutions involved in infrastructure investment.
- Shun Chen, Hilde Meersman, Eddy Van de Voorde and Koos Frouws had a book published on [Modelling and Forecasting in Dry Bulk Shipping](#) (released on 30 April 2014). This book models price behaviour and forecasts prices in the dry bulk shipping market, a major component of the world shipping industry. This book will be extremely useful for shipbuilders, owners and charterers, as well as shipping analysts and policymakers. It will also be of great interest to academics and researchers concerned with the economics of the shipping industry.

Furthermore, following classic book publications from the Department are still available:

- TPR members Thomas Vanoutrive and Ann Verhetsel edited a book in the NECTAR series on Transportation and Communications Networks Research: '[Smart Transport Networks - Market Structure, Sustainability and Decision Making](#)'. Three of the key factors that underpin the relationship between transport and society are analysed in detail from a variety of perspectives, each with an empirical focus: market structure and the allocation mechanisms at work; sustainability, encompassing the characteristics of the

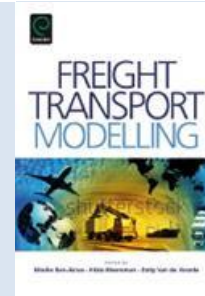


physical environment, the availability of natural resources and the effects of transport activities; and decision making, detailing transport policy and attempts to change transport systems. Practical guidelines on how to effectively deal with complex transport issues are also presented.

- Hilde Meersman and Eddy Van de Voorde, together with Moshe Ben Akiva (MIT), edited a new book on [Freight Transport Modelling](#). The book is complementary to Recent Developments in Transport Modelling - Lessons for the Freight Sector (2008), and provides fully new insights. It addresses the need to develop new freight transport models and scientific tools to counter internal and external economic impacts, and delivers theoretical and empirical input on three levels: global, regional and local (urban). The book presents insightful contributions from respected international experts in transport economics and freight modeling.
- The new and fifth edition of the Handbook on [Transport Economics](#) by Gust Blauwens and Eddy Van de Voorde, together with Peter De Baere, is available for purchase. The book contains updated applications of industrial-economic transport management techniques, aggregate demand and supply analysis and transport policy foundations and measures. More information on content and online purchasing are available through the [book's web page](#).

For other book publications from the Department, please visit the [book publication web page](#).

For other publications by Department members, please check the Department's [academic bibliography](#). For an overview of the research projects currently going on at the Department, and for upcoming deliverables, please have a look at the Department's



[research project pages](#).

Following **lectures and conference presentations** have recently been given by Department members:

- On 19-20 June 2014: 'Smart and intelligent supply chains and logistics of the future' by Thierry Vanelslander at 11th International Conference on Logistics & Sustainable Transport 2014, Celje – view [presentation](#)
- On 17 June 2014: 'Cooperation vs Competition between Persian Gulf Ports' by Department PhD fellow Khosro Saraie at Iranian Maritime Organizations Seminar, Tehran
- On 4 June 2014: 'Goederenvervoer per spoor' by Tom Pauwels at Flemish Department of Mobility and Public Works, Brussels
- On 4 June 2014: 'Flemish-Dutch Delta monitor 2014' by Joost Hintjens and Thierry Vanelslander, together with Bart Kuipers and Martijn van der Horst, at Flemish-Dutch Delta Steering Group, Bergen-op-Zoom
- On 24 May 2014: 'Effect of geometric parameters variation in propeller blade response and excitation' by Department PhD fellow Saeed Javdani at Wärtsilä seminar, The Netherlands
- On 23 May 2014: 'Presentation Indicatorenboek Duurzaam Goederenvervoer' by Christa Sys at Mobiliteitsraad Vlaanderen, Brussels
- On 19-21 May 2014: 'Is New Emission Legislation Stimulating the Implementation of Sustainable (Retrofitting) Maritime Technologies?' by Christa Sys, Edwin van Hassel and Thierry Vanelslander; 'Logistics innovation networks for ports' sustainable development: the role of the Port Authority' by Department PhD fellow Marcella De Martino at IFSPA 2014 Conference, Hong Kong
- On 15 May 2014: 'Trends en innovatie in transport en logistiek' by Hilde Meersman, Eddy Van de Voorde, Thierry Vanelslander



and Ann Verhetsel at Business Update Sessions TEW Alumni, Antwerp – view [pictures](#) and [presentation](#)

- On 11 May 2014: '*Biomimicry for coastal Eco-cities (towards a carbon neutral port city)*' by Department PhD fellow Saeed Javdani at London City University seminar, London

- On 8 May 2014: '*De impact van economische en ecologische trends op de logistieke keten*' by Edwin van Hassel at Scheldecongres 2014, Antwerp – view [pictures](#) and [presentation](#)

- On 6-8 May 2014: '*Sustainable development strategies of the Port Authority: the network Approach*' by Department PhD fellow Marcella De Martino at 1st International Symposium "New Metropolitan Perspectives. The integrated approach of Urban Sustainable Development through the implementation of Horizon/Europe2020, Reggio di Calabria



Further details on the own conferences of the Department are available on the [Department's website](#). Requests for copies of the various presentations should be addressed to the organizers, as publishers of the respective proceedings.

Department members have given a series of **press interviews** during the latest months. Full details, and related textual, audio and video material is available through [the Department's media page](#).

The Department is proud to announce the [program](#) for its next **Air Transport Colloquium** which will be taking place on Thursday 4 December 2014. This year you can expect many interesting contributions from academics as well as the Air Transport sector on the topic "The European Aviation Business in 2014 and beyond: how to turn challenges into opportunities?" This year we will for the first time also include some interesting and interactive workshops in the program. So [register now](#) for the Air Transport Colloquium 2014! If you register before 1 October 2014, you can take advantage of an early bird registration fee.



COST Action TU1001 on Public Private Partnerships in Transport: Trends & Theory (P3T3) will share and discuss findings and activities with the academic community, as well as policy-makers and practitioners in its **final conference** bringing together all interested parties on 8 and 9 October 2014 in Brussels. The action was initiated in January 2011 to address the theoretical basis for PPPs in the transport sector considering (i) the decision-making process; (ii) the assessment and monitoring of PPP performance; and (iii) the implications of the external environment with respect to efficiency. The national and modal perspective was also to be addressed, thus forming a matrix for the consolidation of knowledge. There are no attendance fees. [View the draft program](#) online. [Register here](#) now!



The Department is pleased to announce the [call for papers](#) for the **26th International Conference on the History of Cartography (ICHC 2015)** to be held in Antwerp (Belgium), 12-17 July 2015. Proposals are welcome on all aspects of the history of cartography, listed in the [conference themes](#). Abstracts should be submitted no later than Wednesday 15 October 2014.



In the framework of the **VISIONS project** (Valorisation of organic side streams), an inventory has been made of all organic side streams available in Flanders. Tom Pauwels contributed to this report. The inventory is now available for purchase (in Dutch only).

The booklet can be ordered (750 € excl. VAT) by sending [an email](#).



The research conducted in the frame of the **BNP Paribas Fortis Chair on Transport, Logistics and Ports** coordinated by the University of Antwerp, involves industry and students of the Maritime Technology seminar at the Department. The aim is to gain a better and deeper understanding of the possible and upcoming port-related innovations that make the transport supply more efficient. Preliminary results shows that innovations are divers in terms of typology even though not equally distributed round 70% having the aim of market change through a combination of technological, managerial, organisational and cultural rethinking. Another revealed fact is that the private initiatives are in a good percentage open to the wide use of interested parties. In the study, most cases are of type 'incremental' or incremental innovations that are not based on new technologies. More information can be found on the [project website](#).



The European 7th framework project **RETROFIT** was launched end of 2011 and will be completed in late 2014. RETROFIT looks into the future of retrofitting ships with appropriate (green) technologies at minimum cost and lead time. The latest deliverable, which will be available soon through the [project website](#), presents a comparison of the performance of different



ship retrofit solutions, enabling the choice of the best-performing technological option. From an economic, energy and environmental point of view, speed reduction shows a high performance. The second best solution is voyage optimization (weather, waves, etc.). In another, forthcoming deliverable, the sailing profile of the reference vessel will be taken into account to simulate the transit voyages and port approach.

On 19 May, Katrien De Langhe of the Department hosted an **expert meeting on urban rail freight**. The aim of the meeting was twofold:

- to get feedback from the academic and industry field on the research that has been done
- to get insights in foreign examples to apply later on to the Belgian context

The scope of the meeting was international. Several academic contributions were presented, and discussed with dedicated sector and policy representatives and with the wider audience. [View pictures online](#).

On 3 April 2014, **Claudia Pani successfully defended her joint PhD** with University of Cagliari, under co-promotorship of Thierry Vanelslander, on the topic of 'Managing vessel arrival uncertainty in container terminals: a machine learning approach'. The PhD is [available for download](#).

Eddy Van de Voorde was a member of the jury that judged on the winner of the **2015 Onassis prize** – [view picture](#). The meeting was hosted by Prof. Costas Grammenos at London City University.

Eddy Van de Voorde got awarded the 2013-2014 '**Gobelijntje**', the award for the best professor at the Faculty of Applied Economics – [view picture](#).



Eddy Van de Voorde was also appointed member of the board of the airport development company at **Antwerp Airport**.



Thierry Vanelslander was a member of the **habilitation jury of dr. Laurent Guihéry** of TransportNET partner University of Lyon on 16 June.

From 5 till 16 May 2014, **Trevor Heaver** (University of British Columbia) had a visiting stay at the Department. He gave guest lectures on 'The use of KPIs within a seaport as a tool for collaboration between service providers', 'The Economics of Corporate Structures' and 'Geography and Politics in Transport Economics'.



On Tuesday 20 May 2014, **Allan Woodburn** (University of Westminster, UK) gave a business economics seminar at the Department on 'The European policy focus on rail freight corridors and networks: the experience of the Strategic Freight Network in Britain'.

As part of the **CityLab II Course**, students made an excursion through Antwerp suburbs by tram, on 23 April 2014, guided by Ann Verhetsel.

On 5 June 2014, the Department hosted the **IMarEST lecture** on ship engines.



Department alumna **Feliciano Monteiro** had her PhD on 'Productivity in the Container Port Business - Focus on the Mediterranean Range', which she successfully defended in 2013, published. The book is now [available online for sale](#).

On 9 May 2014, students of the course Maritime and Port Economics of the Department played the **Maritime Business Game**, which gives them insight into the functioning of the shipping market.

On 28-31 July 2015, Rosário Macário, from TransportNET partner University of Lisbon, and guest professor at the Department, will host the 14th **International Conference on Mobility and Transport for Elderly and Disabled persons** in Lisbon. The program hosts very challenging topics and subtopics and offers the opportunity of engaging in rewarding networking with academics, practitioners and citizens coming from all over the world. Registrations are open and you can submit your contribution in the [TRANSED web site](#).



Moshe Ben-Akiva, co-editor of the book on 'Freight Transport Modelling' with Hilde Meersman and Eddy Van de Voorde, will be teaching this summer **a one-week course at MIT: [Modeling and Simulation of Transportation Networks, July 28 – August 1, 2014](#)**. The course studies theories and applications of transportation network demand and supply models and simulation techniques. It provides an in-depth study of the world's most sophisticated traffic simulation models, demand modeling methods, and related analytical techniques, including discrete choice models, and their application. One full-tuition scholarship will be awarded to an outstanding doctoral student in the course. Partial (50%) tuition scholarships are also available for junior faculty, postdocs, and doctoral students in both courses.



On 16 June 2014, the [Research Centre on Commodity and Person Transport](#) | Op 16 juni 2014 organiseerde het [Steunpunt Goederen- en Personenvervoer](#)

[passenger Flows](#) hosted a **Round Table on the cost of congestion**. This research is part of the research stream 'integration logistics chains' and is aimed at gaining a better insight into the total cost of congestion. Next to transport costs, emission costs and other (logistics) costs e.g. re-planning costs are taken into account. The Round Table allowed the Research Centre's researchers to validate their methodology and intermediary results with experts from the field. Furthermore, the participants were asked for input regarding missing data. Researchers from universities and research institutes, policymakers, the police and other experts participated to the Round Table. An article about the meeting was published by OTM and can be downloaded [here](#).

[personenvervoer](#) een **Rondetafelgesprek rond de kostprijs van congestie**. Dit onderzoek situeert zich binnen de onderzoeksstroom 'integratie logistieke keten' en heeft als doel een beter inzicht te krijgen in de totale kostprijs van congestie. Naast de transportkosten wordt ook rekening gehouden met andere (logistieke) kosten zoals herplanningskosten en met de kosten van extra uitstoot. Via de expertenbijeenkomst werden de onderzoeksaanpak en tussentijdse resultaten gevalideerd met de praktijk en werd aan de deelnemers input gevraagd over ontbrekende en/of onvolledige data. De deelnemers bestonden uit universiteiten, overheid, onderzoeksinstituten, bedrijven, politie en andere experts. Een artikel over de bijeenkomst verscheen reeds op website van OTM en kan [hier](#) gedownload worden.



On 28 May 2014, the Research Centre hosted an **expert meeting on the lack of and shortcomings in freight transport data** that ensue. The meeting also framed into the work that the Department executes as part of the monitoring of transport and logistics for the Flemish-Dutch Delta. At the meeting, all relevant parties were asked that are involved in freight transport data related to seaports and hinterland transport modes (road, rail, inland navigation and pipelines). The goal was to verify whether no data are being overlooked, and whether there are no ways

Op 28 mei 2014 organiseerde het Steunpunt een **expertenbijeenkomst rond het ontbreken van en tekortkomingen aan goederenvervoerdata** die daaruit naar voor komen. De bijeenkomst was ook gekaderd in het werk dat het Departement uitvoert in het kader van de monitoring van transport en logistiek voor de Vlaams-Nederlandse Delta. Op de bijeenkomst werden alle relevante partijen gevraagd die betrokken zijn bij goederenvervoerdata m.b.t. zeehavens en hinterlandmodi (weg, spoor, binnenvaart en pijpleiding). Het doel was na te gaan of er

that may already be applied for judging freight transport performance via proxy data.

The Research Centre also released **two new policy-supporting papers**. The reports are available in Dutch, but English spin-offs are to be found in the Research Centre's [publication section](#).

The first policy-supporting paper that was released is entitled '**The effectiveness of Park+Ride**' and is written by Toon Zijlstra, Thomas Vanoutrive and Ann Verhetsel. This research is aimed at carefully examining the effectiveness of P+R with respect to various formulated objectives. Effectiveness is the extent to which the objectives are realised. Next to investigating the P+R concept and its history as a policy instrument, different types of P+R systems and its objectives (at national and international level) are discussed. Furthermore, the methodology, data and research results are described. The conclusions also include a number of policy recommendations. The paper can be downloaded [here](#).

geen beschikbare data over het hoofd worden gezien, en of er geen manieren bestaan en evt. al worden toegepast om via proxy-data toch iets te zeggen over goederenvervoerprestaties.

Het Steunpunt Goederen- en personenvervoer publiceerde ook **twee nieuwe beleidsondersteunende papers**. De rapporten zijn beschikbaar in het Nederlands, maar Engelstalige spin-offs zijn te vinden in de [publicatiesectie](#) van het Steunpunt.

De eerste vrijgegeven beleidsondersteunende paper, getiteld '**De Effectiviteit van Park+Ride**' is van de hand van Toon Zijlstra, Thomas Vanoutrive en Ann Verhetsel. De doelstelling van dit onderzoek is het zorgvuldig documenteren van de effectiviteit van P+R ten aanzien van de diverse geformuleerde doelstellingen. Effectiviteit is daarbij de mate waarin de doelstellingen gerealiseerd worden. Naast een toelichting van het P+R concept en de geschiedenis van P+R als beleidsinstrument, worden de verschillende types P+R systemen besproken alsook de doelstellingen die nationaal en internationaal gehanteerd worden als argumenten bij P+R initiatieven. Vervolgens wordt inzicht gegeven in de gevolgde methode, de gebruikte data en de resultaten van het onderzoek. In de conclusies worden ook beleidsaanbevelingen gegeven. De paper kan [hier](#) gedownload worden.



The second policy-supporting paper that was released, is written by Katrien De Langhe, Roel Gevaers and Christa Sys and is entitled '**Waste logistics: challenges and opportunities**'. This publication describes and analyses the results of the interactive debate about waste logistics, organised on 7 March 2013 by the Research Centre together with the Flemish Institute for Logistics. More than 120 participants from the private and public sector, universities and professions came together to discuss about current issues in waste logistics. One of the conclusions of this paper is that one seventh of the trucks in Flanders is transporting waste. In addition, it is possible to optimise the efficiency of waste logistics. Also legal issues impacting waste logistics were discussed. The paper can be consulted [here](#).

De tweede vrijgegeven beleidsondersteunende paper werd geschreven door Katrien De Langhe, Roel Gevaers en Christa Sys en is getiteld '**Afvallogistiek: knelpunten en opportuniteiten**'. Deze publicatie bundelt en analyseert de resultaten van de interactieve debatavond rond afvallogistiek, die het Steunpunt MOBILO samen met het VIL organiseerde op 7 maart 2013. Deze debatavond telde meer dan 120 deelnemers uit de private en publieke sector, de academische wereld en vrije beroepen. Eén van de conclusies van deze publicatie is dat 1/7 van de vrachtwagen in Vlaanderen afval vervoert en dat het mogelijk is om de efficiëntie van afvallogistiek te optimaliseren. Ook wettelijke aspecten rond afvallogistiek komen aan bod. De paper is [hier](#) beschikbaar.



On 20 June 2014 the first meeting of the **Evaluation Commission on long and heavy trucks** ('ecocombi') took place. Evy Onghena represents the Research Centre in this commission. For the Flemish pilot project on long and heavy trucks 10 trajectories will be selected from a large number of applications. Within a few weeks, the Flemish government will publish the names of the companies that will get a permission. The duration of the pilot project is 2 years. During the pilot, the impact of long and heavy trucks on traffic safety will be assessed. Based on the advice of the Evaluation Commission the Minister will decide to extend the pilot project. More information can be found on www.mobielvlaanderen.be.

On 28 May 2014 Evy Onghena participated to the Consultation Group Meeting **Flanders Logistics consultants**. During this meeting the results after one year of working by the consultants were presented. The consultants are paid by the Flemish government to support companies in optimising their logistics chain. The advice is given for free. The results after one year of working show that most of the advices (based on a quick scan) are about transport planning, warehousing analysis and

Op 20 juni 2014 vond de eerste bijeenkomst plaats van de **Evaluatiecommissie Lange en Zwaardere Voertuigen** (LZVs). Evy Onghena vertegenwoordigt het Steunpunt MOBILO in deze commissie. In het kader van het Vlaamse proefproject LZVs worden uit alle aanvragen 10 trajecten gekozen. De Vlaamse overheid maakt binnenkort bekend welke bedrijven een vergunning krijgen. Het proefproject duurt 2 jaar en gaat vooral na welke effect de LZVs hebben op de verkeersveiligheid. Op basis van het advies van de Evaluatiecommissie zal de bevoegde Minister beslissen om het proefproject al dan niet te verlengen. Meer informatie over het proefproject is beschikbaar op www.mobielvlaanderen.be.

Op 28 mei 2014 nam Evy Onghena deel aan de Klankbordgroep **Flanders Logistics-consulenten**. Tijdens deze meeting werden de resultaten voorgesteld na één jaar werking van de consulenten. De consulenten worden ingezet door de Vlaamse overheid om bedrijven te ondersteunen bij het optimaliseren van hun logistieke keten. Het advies van de consulenten is gratis. Na één jaar werking blijkt dat de meeste adviezen (op basis van een quick scan) gaan over transportplanning, magazijnanalyse en kosten/efficiëntie benchmark.

cost/efficiency benchmarking. Projects aimed at reducing costs obtained an average cost reduction of 7.98%. The average degree of implementation is 76% (based on 43 projects that were followed up). More information and contact details of the consultants are available on www.flanderslogisticsconsulenten.be/.

In projecten waar er een kostenbesparing werd bepaald, werd een gemiddelde kostenreductie van 7,98% berekend. De gemiddelde implementatiegraad (op basis van 43 opgevolgde projecten) is 76%. Meer informatie en contactgegevens van de consulenten zijn beschikbaar op www.flanderslogisticsconsulenten.be/.



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