Can e-government solutions enhance the work in municipalities?: empirical evidence from case lupapiste

Digitalization and increasing demand of e-government services are not changing only the way the citizens can use public services, but also the nature of work of many municipality employees. At best this kind of digitalization can offer added value in the form of enhancing the work of the municipality personnel. In this paper, we study the effects of adopting an e-government service on work in municipalities. Based on an empirical investigation of five municipalities we propose flow efficiency as a key metric to grasp the added value of digitalization of a public service, as it reveals the most valuable activities as well as the potential bottlenecks. Flow efficiency measurement gives therefore a better indicator to be used in e-government process development than e.g. simple throughput time especially when evaluating the effects of digitalization on knowledge work productivity.
Baltic Sea 2030 - Trends and scenarios

The current Baltic Sea logistics system is a result of an optimisation process by industry, ports, shipowners and other stakeholders, all adapting to changes in the operating environment and building strategies for the future. As a result of this process we see the current logistics system, but the parameters of the optimisation process are changing constantly. Global directions of change are called megatrends and common megatrends include: globalisation and increasing importance of Asia, global political issues but national interest, rising energy demand and increase in alternative energy sources, climate change, increasing pace of technological development and urbanisation.

In this study five trend categories were identified based on the megatrends and considered in terms of their effect on the Baltic Sea logistics system. The trends were also analysed by their significance and affectability by maritime sector in order to give the actors a better understanding of the trends which may and should be affected.

Four scenarios were build based on the trends. The age of growth scenario is characterised by steady economic growth, growing importance of service sector and restoration of trade between Russia and Europe. The age of regulation, on the other hand, is defined by slow economic development due to strict environmental regulation and lack of innovations in heavy industry. The age of locality could be sparked by rapid climate change which would lead to high price of energy and resulting halt in global trade. The age of change would be possible if technological innovations enable rapid transition to renewable energy and Russia integrates closely to Europe as its energy resources lose its geopolitical significance.

The actors may take one of these scenarios and begin to work actively towards it or take another and work against it. Actors may also build their own scenario as a new combination of the factor values presented in the futures table in this article.

General information
State: Published
Ministry of Education publication type: D2 Article in professional manuals or guides or professional information systems or text book material
Organisations: Department of Information Management and Logistics, Research group: Transport Research Centre Verne
Authors: Liimatainen, H.
Number of pages: 15
Pages: 189-203
Publication date: 18 May 2016
Possible impacts of increasing maximum truck weight: Finland case study

General information
State: Published
Ministry of Education publication type: A3 Part of a book or another research book
Organisations: Department of Information Management and Logistics, Research group: Transport Research Centre Verne
Authors: Nykänen, L., Liimatainen, H.
Keywords: (Freight logistics, Energy efficiency)
Number of pages: 13
Pages: 121-133
Publication date: May 2016

Host publication information
Title of host publication: Towards innovative freight and logistics : Research for innovative transports set
Volume: 2
Place of publication: Great Britain
Publisher: Wiley-ISTE
Editors: Blanquart, C., Clausen, U., Jacob, B.
ISBN (Print): 978-1-78630-027-0
ASJC Scopus subject areas: Business and International Management, Environmental Engineering
Links:
http://www.iste.co.uk/index.php?p=a&ACTION=View&id=977
Research output: Scientific - peer-review » Chapter

Liikenteen päästövähennyksissä kannattaa keskittyä tottumusten muuttamiseen

General information
State: Published
Ministry of Education publication type: E1 Popularised article, newspaper article
Organisations: Department of Information Management and Logistics, Research group: Transport Research Centre Verne
Authors: Liimatainen, H.
Number of pages: 4
Pages: 14-17
Publication date: 11 Nov 2015
Peer-reviewed: Unknown

Publication information
Journal: Tie ja Liikenne
Issue number: 7/2015
ISSN (Print): 0355-7855
Original language: Finnish
Links:
http://www.tieyhdistys.fi/binary/file/-/id/61/fid/638/
Research output: General public » Article

Älykäs kaupunkilogistiikka – CityLog
During the spring of 2014 Transport Research Centre Verne from the Tampere University of Technology carried out an urban logistics study, where the current challenges and future development needs of city logistics was studied. In the study, this problem is approached from the perspective of shops and services located into the city centre. A part of the inner city

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**Host publication information**
Title of host publication: The maritime cluster in the Baltic Sea region and beyond
Volume: 1/2016
Publisher: Centrum Balticum
Editor: Liuhto, K.

**Publication series**
Name: BSR Policy Briefing
Links:
Links:
http://www.centrumbalticum.org/julkaisut/bsr-policy-briefing
Research output: Professional » Chapter

**Possible impacts of increasing maximum truck weight: Finland case study**

General information
State: Published
Ministry of Education publication type: A3 Part of a book or another research book
Organisations: Department of Information Management and Logistics, Research group: Transport Research Centre Verne
Authors: Nykänen, L., Liimatainen, H.
Keywords: (Freight logistics, Energy efficiency)
Number of pages: 13
Pages: 121-133
Publication date: May 2016

Host publication information
Title of host publication: Towards innovative freight and logistics : Research for innovative transports set
Volume: 2
Place of publication: Great Britain
Publisher: Wiley-ISTE
Editors: Blanquart, C., Clausen, U., Jacob, B.
ISBN (Print): 978-1-78630-027-0
ASJC Scopus subject areas: Business and International Management, Environmental Engineering
Links:
http://www.iste.co.uk/index.php?p=a&ACTION=View&id=977
Research output: Scientific - peer-review » Chapter

Liikenteen päästövähennyksissä kannattaa keskittyä tottumusten muuttamiseen

General information
State: Published
Ministry of Education publication type: E1 Popularised article, newspaper article
Organisations: Department of Information Management and Logistics, Research group: Transport Research Centre Verne
Authors: Liimatainen, H.
Number of pages: 4
Pages: 14-17
Publication date: 11 Nov 2015
Peer-reviewed: Unknown

Publication information
Journal: Tie ja Liikenne
Issue number: 7/2015
ISSN (Print): 0355-7855
Original language: Finnish
Links:
http://www.tieyhdistys.fi/binary/file/-/id/61/fid/638/
Research output: General public » Article

**Älykäs kaupunkilogistiikka – CityLog**
During the spring of 2014 Transport Research Centre Verne from the Tampere University of Technology carried out an urban logistics study, where the current challenges and future development needs of city logistics was studied. In the study, this problem is approached from the perspective of shops and services located into the city centre. A part of the inner city
centre of Tampere was chosen as a case area of the study. The main research methods were survey and expert interviews. According to the results, the biggest challenges in the city logistics from the perspective of shop and service office owners are narrow loading and unloading areas, problems related on delivery time schedules and minor possibilities to affect logistics actions. In general, lack of communication and the sharing of information are seen be poorly used in the city logistics. However, retailers and service carries do not see logistics as their weakness nor their main business area. According to the findings, in future the development of city logistics should be done more with a close relationship with transportation companies and the public sector. The future research and development needs should focus on communication between transport companies and their customers, optimization of loading and unloading areas and the impacts of rapidly increasing e-commerce. Highly automated and real-time communication solutions could offer significant benefits for unconsciousness in delivery times for example. Also the potential of underground logistics connections should be studied together with loading and unloading optimization.

General information
State: Published
Ministry of Education publication type: D4 Published development or research report or study
Organisations: Department of Information Management and Logistics, Research group: Transport Research Centre Verne
Authors: Nykänen, L., Kallionpää, E., Liimatainen, H.
Keywords: (city logistics, urban logistics, intelligent transport system, e-commerce, future transport system)
Number of pages: 20
Publication date: Sep 2015

Publication information
Publisher: Tampereen teknillinen yliopisto. Liikenteen tutkimuskeskus Verne.
Original language: Finnish
ASJC Scopus subject areas: Engineering(all)

Publication series
Name: Tampereen teknillinen yliopisto. Liikenteen tutkimuskeskus Verne. Tutkimusraportti
ISSN (Print): 2242-3486
Electronic versions:
alykas_kaupunkilogistika_citylog
Links:
Research output: Professional › Commissioned report

Liikenteen energiatehokkuustoimenpiteet osana EU:n 2030 ilmasto- ja energiatavoitteiden saavuttamista: vaikutukset, kustannukset ja työnjakos

The European Commission has proposed an EU-level climate and energy target for the year 2030 to reduce greenhouse gas (GHG) emissions with 40% compared to 1990 levels. The overall target is shared between a 43% reduction by sectors covered in the EU emission trading system (EU ETS) and a 30% reduction by non-ETS sectors (including transport) compared to 2005 levels. The latter target will be defined separately for each Member State. For Finland, an emissions reduction target up to 36% has been projected.

This study examined energy efficiency measures of the transport sector in terms of transport related feasibility (changes in transport volumes, modal shares), economic feasibility (investment and external costs) and GHG reduction potential. The feasibility factors constitute the preconditions for transport emission reduction potential in Finland and consequently also for reaching the EU-level target. Secondly, the study assessed the impacts of the measures on transport safety and public health. Finally, the roles and responsibilities of municipalities and the state in implementation and financing of the energy efficiency measures were analysed.

Energy efficiency measures, identified in this context, include six categories of measures: (1) promotion of public transport in urban areas, (2) promotion of public transport over long distances, (3) promotion of walking and cycling, (4) measures related to the urban form development, (5) promotion of alternative propulsion for road transport and (6) promotion of low-emission passenger cars. The results of the study show that public transport, walking and cycling measures integrated in urban transport plans of large and medium-sized cities in Finland hold approximately a 30% CO2 emission reduction potential between 2014 and 2030. This would indicate GHG emission reduction of approx. 0.6 million tons. The assessment covers both the impacts of modal shift and technological development of vehicles and fuels. Measures promoting public transport, walking and cycling are however not particularly cost-effective, if considered exclusively from the climate policy perspective. In fact, emission reductions of these measures are rather achieved as a positive by-product of essential transport system development.
Based on the study, promotion of public transport would seem to reduce traffic accidents in urban areas, but an increase in walking and cycling to increase them. The safety of walking and cycling is strongly dependent on the types of routes the new transport volumes are directed to and the intensity of the growth. Public health benefits of walking and cycling are high and affect therefore significantly the economic efficiency of the planned measures and the costs of CO2 emission reductions. Long-distance public transport between the largest cities in Finland is currently undergoing significant changes both in pricing and supply as a result of changes in the legislation at national and EU-level. New operating models and services in public transport supply have emerged, and the development continues. For the first time in decades the use of public transport is more affordable than the use of a passenger car. Between the major urban areas there is potential with modal and market shifts for the benefit of public transport. Assuming that about 1.5% of long-distance trips made by private car would shift to public transport, 0.5 million tons of GHG emissions could be reduced between 2014 and 2030. Also this estimate includes the technology development dimension. Urbanisation and population growth in growing urban regions reduce the average mobility need of the population in the future. Based on the zonal approach analysis, reductions in the average carkilometres can be reached, if the new housing development will adhere to zones where daily trips can be made on foot, by bike or by public transport. Through the measures related to the urban form development, it is possible to reduce the amount of daily passenger-kilometres by approximately 6%, the impact of which is around 3 - 4% (ca. 0.2 million tons) on CO2 emissions of domestic passenger transport. Infill development is one of the most powerful measures related to urban form. It can affect both new housing locations and creation of conditions for improved public transport services. Economic instruments (e.g. tax deductions on commuting and road pricing) can significantly affect the location decisions of residents and companies as well as their mobility behaviour. It is essential that urban form supports transport measures in reducing emissions by enabling sustainable mobility choices and services. On the basis of economic modelling, domestically produced biofuels are economically the most favourable option of the future alternative propulsion in road transport. Biofuels do not limit economic growth, their emission reduction potential is large and the economic value of emission reduction covers the incurred costs of subsidies to biofuel product development, production and distribution chain. The maximal CO2 reduction of biofuels is estimated up to more than 5 million tons (2015 to 2030), which makes them more cost-effective (if considered exclusively from the climate policy perspective) than measures promoting public transport, walking and cycling. CO2 limit values for new cars set by the EU legislation and national CO2-based vehicle taxes have also been cost-effective measures. Because of them, fuel consumption and carbon dioxide emissions of Finnish car fleet have decreased since 2008. Planning and preparation of energy efficiency measures is often agreed between the state and municipalities e.g. through legislation, but challenges have been identified in their implementation. Examples of these are national-level strategies, implementation of which requires shared funding. In case the other party lacks funding, or funding is delayed, the projects will be postponed or not realised at all. Also deficiencies in instructions to municipalities on the implementation of energy efficiency measures (e.g. directive on the procurement of clean vehicles) can slow down or even prevent the realisation of the projects.

The projected EU non-ETS sectors emissions reduction target (-36% by 2030) would mean a reduction of CO2 emissions of transport by 4.6 million tonnes from the 2005 level in Finland. Based on the results above, measures promoting public transport, walking, cycling and urban form development could possibly cover approx. 28% (1.3 million tonnes, 2014-2030) of the total reduction target. The contribution is clearly less than the contribution of road traffic vehicle fleet and fuel technology measures (approx. 5 million tonnes reduction, 2014-2030), but its value should not be underestimated because of other benefits to be achieved. These include positive impacts on congestion, air quality, road safety and also to a significant extent on public health. Technology measures contribute to, through new fleet and fuel alternatives, the effectiveness of other energy efficiency measures, and consequently the different types of measures complement each other in achieving the goals of sustainable urban mobility.

General information
State: Published
Ministry of Education publication type: D4 Published development or research report or study
Organisations: Department of Information Management and Logistics, Research group: Transport Research Centre Verne, VTT Technical Research Centre of Finland
Authors: Tuominen, A., Tervonen, J., Järvi, T., Mäkelä, K., Liimatainen, H., Nykänen, L., Rehunen, A.
Keywords: (TRANSPORT, CO2)
Publication date: 2015

Publication information
Publisher: Valtioneuvoston kanslia
Original language: Finnish
ASJC Scopus subject areas: Environmental Science(all)
Pyöräväylien tiedot ja laatutaso

In recent years, cycling has become increasingly popular in Finland. Finnish municipalities tend to have extensive cycling networks, but those networks also have quality defects that reduce the smoothness, speed and safety of cycling. Since the entire cycling network cannot be reconstructed at once, it must be repaired one section at a time. This calls for a method that enables an assessment of the quality of the cycling network. Such an assessment would, in turn, enable an estimation of the need for measures.

Cycling network quality classification would facilitate planning and contribute, in a number of ways, to the municipality-level development goals set for cycling. Several municipalities have supported cycling by defining goals for a better cycling network structure and hierarchical classification. This preliminary survey proposes a three-tier functional classification of cycling routes, which should also be used in the national guidelines for the planning of pedestrian and cycling routes: main network, regional network and local network (Finnish Transport Agency 2014). A shared data model would encourage municipalities to perform hierarchical classifications, while also providing a common platform for storing such data.

The data model would also contribute to the goal set in the National Strategy for Walking and Cycling, of increasing the amount of cycling by 20% by 2020. For example, the data model will enable the generation of precise cycling maps of an area, in order to improve maintenance and the availability of parking and to support the development of new applications that support cycling.

The quality classes have been developed to help define the quality of the cycling network; they comprehensively describe the quality of the routes based on a range of properties. Each quality class is divided into three parts: static, dynamic and perceived properties. These three parts can be used to calculate a numerical grade for each section of the route network. Static route properties are permanent, created by means of planning and related measures. Dynamic properties, on the other hand, change over time, for example as materials wear out. Ensuring the quality of these properties requires monitoring and continuous maintenance. Finally, perceived properties consist of any characteristics of the routes or the surrounding environment.
that affect cyclists' experiences.
In order to ensure the progress of the cycling data model's development, this preliminary survey also includes a proposal for a pilot project for creating a digital description of the cycling network for a limited area. For example, the pilot would consist of the following parallel subsections: defining the content of the first version of the data model and investigating the connection between the OpenStreetMap and the Digiroad database model. Another subsection would involve the piloting of new data generation models and tools.

General information
State: Published
Ministry of Education publication type: D4 Published development or research report or study
Organisations: Department of Information Management and Logistics, Research group: Transport Research Centre Verne, Ramboll
Authors: Laitinen, K. K., Mattila, K., Metsäpuro, P., Nykänen, L.
Keywords: (laatuluokka, tietomalli, pyöräily)
Number of pages: 72
Publication date: 2015

Publication information
Place of publication: Helsinki
Publisher: Liikennevirasto
Volume: 24
Edition: 2015
ASJC Scopus subject areas: Civil and Structural Engineering
Research output: Professional › Commissioned report

Sustainable and responsible freight transport through public-private collaboration: Finnish road freight responsibility model
Purpose
In aviation, maritime and rail transport safety management systems are well adapted and they are fixed part of daily practices and the minimum requirements for systems are set in European regulations. However, this does not apply a road freight sector. In 2013, Finnish Transport Safety Agency (Trafi) started to develop a road freight responsibility model, which was intended to enhance safety, quality and environmental management in the Finnish road freight transport sector. The aim of this paper is to introduce the Finnish model and to summarize the main findings from the responsibility model.

Approach
This paper includes data and knowledge from several separate but related projects which studied responsibility and sustainability in the Finnish road freight sector. The paper combines information from several methods, but the main research method was a case study with transport companies. Complementary methods used in this paper are workshop and online survey.
Findings
Transport companies have different practices and attitudes related to the responsible business and the size of the company or the main service sector of the company do not always explain the differences. According to the results, this kind of new voluntary basis approach has a demand in the road freight sector and it will provide help for transport companies to develop their business.

Value
The paper represents a new approach of the national transport agency to develop the road freight sector. With the responsibility model Trafi aims to promote sustainable and responsible business of all sizes of transport companies with a voluntary basis approach.
and fixed car cost savings, associated with measures affecting urban form, modla split and social car use.

General information
State: Published
Ministry of Education publication type: D4 Published development or research report or study
Organisations: Department of Information Management and Logistics, Research group: Transport Research Centre Verne, Suomen ympäristökeskus SYKE - Finnish Environment Institute, University of Helsinki
Authors: Liimatainen, H., Nykänen, L., Rantala, T., Rehunen, A., Ristimäki, M., Strandell, A., Seppälä, J., Kytö, M., Purola, S., Ollikainen, M.
Number of pages: 95
Publication date: 2015

Publication information
Publisher: Suomen ilmastopaneeli
Original language: Finnish
ASJC Scopus subject areas: Environmental Science (all)
Links: http://www.ilmastopaneeli.fi/uploads/selvitykset_lausunnot/TARVE,%20TOTTUMUKSET,%20TEKNIIKKA%20JA%20TAUS%20%E2%80%93%20ILMASTONMUUTOKSEN%20HILLINN%C3%84N%20TOIMENPITEET%20LIIKENTEES%C3%84.pdf
Research output: Professional › Commissioned report

Yhteiskunnan korvaamien kuljetusten tehostaminen – esiselvitys Pirkanmaan alueella

General information
State: Published
Ministry of Education publication type: D4 Published development or research report or study
Organisations: Department of Information Management and Logistics, Research group: Transport Research Centre Verne
Authors: Liimatainen, H., Metsäpuro, P., Nykänen, L.
Number of pages: 45
Publication date: 2015

Publication information
Publisher: Pirkanmaan liitto
Original language: Finnish
ASJC Scopus subject areas: Engineering (all)
Research output: Professional › Commissioned report

Analysis of a city-region from the knowledge perspective: Tampere, Finland
Purpose - The paper aims to evaluate the knowledge-based urban development (KBUD) dynamics of a rapidly emerging knowledge city-region, Tampere region, Finland. Design/methodology/approach - The paper empirically investigates Tampere region's development achievements and progress from the knowledge perspective. Findings - The research, through qualitative and quantitative analyses, reveals the regional development strengths, weaknesses, opportunities and threats of Tampere region. Originality/value - The paper provides useful suggestions based on the lessons learned from the Tampere case investigation that could shed light on the KBUD journey of city-regions.

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Information Management and Logistics, Research group: Novi, Queensland University of Technology QUT, School of Management
Authors: Yigitcanlar, T., Lönnqvist, A., Salonius, H.
Keywords: (City-region, Finland, Knowledge-based urban development, Regional development, Tampere)
Number of pages: 22
Pages: 445-466
Publication date: 5 Aug 2014
Peer-reviewed: Yes
ASJC Scopus subject areas: Computer Science Applications, Library and Information Sciences

Publication information
Journal: VINE
Volume: 44
Decarbonizing road freight in the future - Detailed scenarios of the carbon emissions of Finnish road freight transport in 2030 using a Delphi method approach

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Information Management and Logistics, Life Cycle Effectiveness of the Built Environment (LCE@BE)
Authors: Liimatainen, H., Kallionpää, E., Pöllänen, M., Stenholm, P., Tapio, P., McKinnon, A.
Number of pages: 15
Pages: 177-191
Publication date: 2014
Peer-reviewed: Yes

Publication information
Journal: Technological Forecasting and Social Change
Volume: 81
ISSN (Print): 0040-1625
Ratings:
Publication Forum (2017): 2
Scopus rating (2016): 1.247 1.635
Publication Forum (2016): 2
Web of Science (2015): 2.678 3.005 5.8 0.714 0.00756 0.681
Publication Forum (2015): 2
Scopus rating (2014): 1.291 1.781
Web of Science (2014): 2.058 2.634 6.1 0.363 0.00717 0.722
Publication Forum (2014): 3
Scopus rating (2013): 1.281 1.739
Publication Forum (2013): 3
Scopus rating (2012): 1.507 2.009
Publication Forum (2012): 3
Scopus rating (2011): 1.094 1.582
Scopus rating (2010): 1.018 1.47
Scopus rating (2009): 0.838 1.589
Scopus rating (2008): 0.848 1.502
Scopus rating (2007): 0.628 1.377
Scopus rating (2006): 0.568 1.171
Scopus rating (2005): 0.527 1.614
Scopus rating (2004): 0.343 0.897
Scopus rating (2003): 0.409 0.97
Scopus rating (2002): 0.431 1.007
Scopus rating (2001): 0.609 0.843
Scopus rating (2000): 0.209 0.304
Scopus rating (1999): 0.272 0.986
Original language: English
DOIs: 10.1016/j.techfore.2013.03.001

Bibliographical note
Siirretty portfolio13.sta<br/>Contribution: organisation=tlo,FACT1=1<br/>Portfolio EDEND: 2014-05-31<br/>Publisher name: Elsevier
Source: researchoutputwizard
Source-ID: 940
Research output: Scientific - peer-review › Article
Hybridibussit: kokemuksia käyttöönotosta, liikennöinnistä ja energiankulutuksesta

General information
State: Published
Ministry of Education publication type: D4 Published development or research report or study
Organisations: Department of Information Management and Logistics
Authors: Liimatainen, H., Metsäpuro, P., Ikonen, M., Wahlsten, R., Lajunen, A.
Number of pages: 41
Publication date: 2014

Publication information
Place of publication: Tampere
Publisher: Tampereen Teknillinen Yliopisto
Original language: Finnish

Publication series
Name: Tampereen teknillinen yliopisto. Liikenteen tutkimuskeskus Verne. Tutkimusraportti
Publisher: Tampereen teknillinen yliopisto
Links: http://www.tut.fi/verne/wp-content/uploads/Hybridibussit-kokemuksia-k%C3%A4ytt%C3%B6notosta-liikenn%C3%B6innist%C3%A4-ja-energiankulutuksesta_taitto.pdf

Bibliographical note
Contribution: organisation=tlo,FACT1=1<br/>Portfolio EDEND: 2014-07-14
Source: researchoutputwizard
Source-ID: 941
Research output: Professional › Commissioned report

Ilmakuljetusten huoltovarmuuden tilannekuvan muodostaminen

General information
State: Published
Ministry of Education publication type: D4 Published development or research report or study
Organisations: Department of Information Management and Logistics
Authors: Pöllänen, M., Kaartinen, K., Mäkelä, T., Rauhamäki, H., Mäntynen, J.
Joukkoliikenteen valtakunnalliset taksavyöhykkeet

General information
State: Published
Ministry of Education publication type: D4 Published development or research report or study
Organisations: Department of Information Management and Logistics
Authors: Kalenoja, H., Rissanen, R.
Number of pages: 100
Publication date: 2014

Publication information
Place of publication: Helsinki
Publisher: Liikennevirasto
ISBN (Print): 978-952-255-420-8
Original language: Finnish

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Name: Liikenneviraston tutkimuksia ja selvityksiä
Publisher: Liikennevirasto
No.: 9
ISSN (Print): 1798-6664
ISSN (Electronic): 1798-6656
Links:
http://www.liikennevirasto.fi

Bibliographical note
Contribution: organisation=tlo,FACT1=1<br/>Portfolio EDEND: 2014-12-30
Source: researchoutputwizard
Source-ID: 1288
Research output: Professional › Commissioned report

Knowledge Utilization and the New Transport Paradigm

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Information Management and Logistics
Authors: Myllärniemi, J., Metsäpuro, P., Nykänen, L., Rantala, T., Wallander, J.
Number of pages: 5
Pages: 176-180
Publication date: 2014

Host publication information
Place of publication: Tallinn, Estonia
Kuluttajan mahdollisuudet vähentää liikkumisen kasvihuonepäästöjä

General information
State: Published
Ministry of Education publication type: D4 Published development or research report or study
Organisations: Department of Information Management and Logistics
Authors: Seppälä, J., Salo, M., Laurikko, J., Nissinen, A., Liimatainen, H.
Number of pages: 18
Publication date: 2014

Publication information
Publisher: Suomen Ilmastopaneeli
Original language: Finnish

Bibliographical note
Contribution: organisation=tlo,FACT1=1<br/>Portfolio EDEND: 2014-12-31
Source: researchoutputwizard
Source-ID: 1479
Research output: Professional › Commissioned report

Kuorma-autojen mitta- ja massarajoitusten korotusten vaikutukset tieliikenteeseen

General information
State: Published
Ministry of Education publication type: D3 Professional conference proceedings
Organisations: Department of Information Management and Logistics
Authors: Nykänen, L., Liimatainen, H.
Number of pages: 4
Pages: 1-4
Publication date: 2014

Host publication information
Publisher: Suomen Tieyhdistys

Publication series
Name: Väylät & Liikenne
Publisher: Suomen Tieyhdistys

Bibliographical note
Contribution: organisation=tlo,FACT1=1<br/>Portfolio EDEND: 2014-09-18
Source: researchoutputwizard
Source-ID: 1169
Research output: Professional › Conference contribution
Kävelystä elinvoimaa

General information
State: Published
Ministry of Education publication type: D4 Published development or research report or study
Organisations: Department of Information Management and Logistics, Research group: Transport Research Centre Verne
Authors: Rantala, T., Luukkonen, T., Karhula, K., Vaismaa, K., Mäntynen, J., Metsäpuro, P.
Number of pages: 142
Publication date: 2014

Publication information
Place of publication: Tampere
Publisher: Tampereen teknillinen yliopisto. Liikenteen tutkimuskeskus Verne.
Original language: Finnish
Links:
Research output: Professional › Commissioned report

Liikenteen päästöjä ei vähennetä vain teknikalla

General information
State: Published
Ministry of Education publication type: E1 Popularised article, newspaper article
Organisations: Department of Information Management and Logistics
Authors: Liimatainen, H.
Number of pages: 1
Publication date: 2014
Peer-reviewed: Unknown

Publication information
Journal: Talouselämä
Issue number: 34
Original language: Finnish

Bibliographical note
Contribution: organisation=tlo,FACT1=1<br/>Portfolio EDEND: 2014-11-12
Source: researchoutputwizard
Source-ID: 938
Research output: General public › Article

Possible impacts of increasing maximum truck weight - Case Finland

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Information Management and Logistics
Authors: Nykänen, L., Liimatainen, H.
Number of pages: 10
Pages: 1-10
Publication date: 2014

Host publication information
Title of host publication: Transport Research Arena 2014, TRA2014, 14.-17.4.2014, Pariisi, Ranska
Publisher: Ifsstar

Publication series
Name: Transport Research Arena

Bibliographical note
Contribution: organisation=tlo,FACT1=1<br/>Portfolio EDEND: 2014-10-30<br/>Publisher name: Ifsstar
Road freight energy efficiency and CO2 emissions in the Nordic countries

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Information Management and Logistics, Life Cycle Effectiveness of the Built Environment (LCE@BE)
Authors: Liimatainen, H., Arvidsson, N., Hovi, I. B., Jensen, T. C., Nykänen, L.
Number of pages: 9
Pages: 11-19
Publication date: 2014
Peer-reviewed: Yes

Publication information
Journal: Research in Transportation Business & Management
Volume: 12
ISSN (Print): 2210-5395
Ratings:
Publication Forum (2017): 1
Scopus rating (2016): 0.395 0.919
Publication Forum (2016): 1
Scopus rating (2015): 0.785 1.033
Publication Forum (2015): 1
Scopus rating (2014): 0.598 0.841
Scopus rating (2013): 0.53 0.755
Scopus rating (2012): 0.191 0.496
Original language: English
DOIs:
10.1016/j.rtbm.2014.08.001

Bibliographical note
Contribution: organisation=tlo,FACT1=1<br/>Portfolio EDEND: 2014-11-19<br/>Publisher name: Elsevier BV
Source: researchoutputwizard
Source-ID: 939
Research output: Scientific - peer-review › Article

Suomen matkailu 2030

General information
State: Published
Ministry of Education publication type: D1 Article in a trade journal
Organisations: Department of Information Management and Logistics
Authors: Mäntynen, J.
Number of pages: 1
Pages: 5-5
Publication date: 2014
Peer-reviewed: Unknown

Publication information
Journal: Ikkunapaikka
Volume: 26
Issue number: 5
ISSN (Print): 0786-7867
Original language: Finnish

Bibliographical note
Contribution: organisation=tlo,FACT1=1<br/>Portfolio EDEND: 2014-10-14<br/>Publisher name: Travision
Source: researchoutputwizard
Source-ID: 1028
Research output: Professional › Article

Synergies and conflicts between safety and environmental measures in transport

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Information Management and Logistics
Authors: Pöllänen, M., Liimatainen, H.
Number of pages: 10
Pages: 1-10
Publication date: 2014

Host publication information
Title of host publication: Transport Research Arena 2014, TRA2014, 14.-17.4.2014, Pariisi, Ranska
Publisher: IFSTTAR

Publication series
Name: Transport Research Arena
Links:

Bibliographical note
Contribution: organisation=tlo,FACT1=1
Portfolio EDEND: 2014-10-30
Publisher name: Ifsttar
Source: researchoutputwizard
Source-ID: 1289
Research output: Scientific - peer-review › Conference contribution

The role of corridor development in boosting the European industrial future based on Northern Scandinavian mines

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Information Management and Logistics
Authors: Eckhardt, J., Rantala, J.
Number of pages: 9
Pages: 1-9
Publication date: 2014

Host publication information
Title of host publication: Transport Research Arena 2014, TRA2014, 14.-17.4.2014, Pariisi, Ranska
Publisher: IFSTTAR

Publication series
Name: Transport Research Arena
Links:

Bibliographical note
Contribution: organisation=tlo,FACT1=1
Portfolio EDEND: 2014-10-30
Publisher name: Ifsttar
Source: researchoutputwizard
Source-ID: 272
Research output: Scientific - peer-review › Conference contribution

Tietoliikenteen tavarankuljetusyritysten vastuullisuusmalli - kokeilututkimus

General information
State: Published
Ministry of Education publication type: D4 Published development or research report or study
Organisations: Department of Information Management and Logistics, Department of Industrial Management
Authors: Liimatainen, H., Nykänen, L., Hyytinen, T., Vasara, J.
Number of pages: 58
Publication date: 2014
Tieliikenteen toimintaympäristö ja liikkuminen vuonna 2030 - neljä skenaariota

General information
State: Published
Ministry of Education publication type: D4 Published development or research report or study
Organisations: Department of Information Management and Logistics
Authors: Pöllänen, M., Nykänen, L., Liimatainen, H., Wallander, J.
Number of pages: 76
Publication date: 2014

Bibliographical note
Contribution: organisation=tlo,FACT1=0.5<br/>Contribution: organisation=tta,FACT2=0.5<br/>Portfolio EDEND: 2014-09-09
Source: researchoutputwizard
Source-ID: 943
Research output: Professional › Commissioned report

Valhdetta isommalle: Pyöräilyn potentiaalin hyödyntäminen

General information
State: Published
Ministry of Education publication type: D4 Published development or research report or study
Organisations: Department of Information Management and Logistics, Research group: Transport Research Centre Verne
Authors: Metsäpuro, P., Vaismaa, K., Karhula, K., Luukkonen, T., Mäntynen, J., Rantalä, T.
Valkakunnallinen henkilöiliikennetutkimus 2016

General information
State: Published
Ministry of Education publication type: D4 Published development or research report or study
Organisations: Department of Information Management and Logistics
Authors: Pastinen, V., Kalenoja, H., Kiiskilä, K., Rantala, A., Lehto, H., Tiikkaja, H.
Number of pages: 74
Publication date: 2014

Publication information
Place of publication: Helsinki
Publisher: Liikennevirasto
ISBN (Print): 978-952-255-045-3
Original language: Finnish

Publication series
Name: Liikennevirasto
Publisher: Liikennevirasto
Links:

Bibliographical note
Luonnos tutkimussuunnitelmasta<br/>Contribution: organisation=tlo,FACT1=1<br/>Portfolio EDEND: 2014-10-13
Source: researchoutputwizard
Source-ID: 1237
Research output: Professional › Commissioned report

Baltic Sea 2030 - trends and scenarios

General information
State: Published
Ministry of Education publication type: B1 Article in a scientific magazine
Organisations: Department of Information Management and Logistics
Authors: Liimatainen, H.
Number of pages: 1
Pages: 4-4
Publication date: 2013
Peer-reviewed: No

Publication information
Journal: Baltic Rim Economies
Issue number: 4
ISSN (Print): 1459-9759
Ratings:
Publication Forum (2017): 0
Publication Forum (2016): 0
Publication Forum (2015): 0
Original language: English
Links:
Design measures of effectiveness of welfare service system

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Information Management and Logistics
Authors: Sillanpää, V.
Number of pages: 25
Pages: 1-25
Publication date: 2013

Host publication information
Title of host publication: 7th Conference on Performance Measurement and Management Control, September 18-20, 2013, Barcelona, Spain
Place of publication: Brussels, Belgium
Publisher: European Institute for Advanced Studies in Management, EIASM

Publication series
Name: Conference on Performance Measurement and Management Control
ISSN (Print): 2295-1660
Links:
http://www.eiasm.org/frontoffice/event_announcement.asp?event_id=903

Ekosysteemiatjattelu ja sote-soppa

General information
State: Published
Ministry of Education publication type: D1 Article in a trade journal
Organisations: Department of Information Management and Logistics
Authors: Laihonen, H., Jalonen, H.
Number of pages: 2
Pages: 61-62
Publication date: 2013
Peer-reviewed: Unknown

Publication information
Journal: Talouselämä
Issue number: 33
Original language: Finnish
Links:
http://www.talouselama.fi

Bibliographical note
Contribution: organisation=tlo,FACT1=1<br/>Portfolio EDEND: 2013-10-29<br/>Publisher name: European Institute for Advanced Studies in Management, EIASM
Source: researchoutputwizard
Source-ID: 3422
Research output: Scientific - peer-review › Conference contribution
Energiatehokas ja älykäs raskas ajoneuvo - HDENIQ - Vuosiraportti 2012

General information
State: Published
Ministry of Education publication type: D4 Published development or research report or study
Organisations: Department of Information Management and Logistics
Number of pages: 142
Publication date: 2013

Publication information
Place of publication: Espoo
Publisher: VALTION TEKNILLINEN TUTKIMUSKESKUS
Original language: Finnish

Publication series
Name: VTT Tutkimusraportti
Publisher: Valtion teknillinen tutkimuskeskus
Volume: VTT-R-08344-12

Bibliographical note
Contribution: organisation=tlo,FACT1=1<br/>Portfolio EDEND: 2013-11-29
Source: researchoutputwizard
Source-ID: 2121
Research output: Professional › Commissioned report

Junamatkustajien kokema täsmällisyys

General information
State: Published
Ministry of Education publication type: D4 Published development or research report or study
Organisations: Department of Information Management and Logistics
Authors: Kalenoja, H., Aalto, E., Salkonen, R.
Number of pages: 110
Publication date: 2013

Publication information
Place of publication: Helsinki
Publisher: Liikennevirasto
Original language: Finnish

Publication series
Name: Liikenneviraston tutkimuksia ja selvityksiä
Publisher: Liikennevirasto
No.: 54
ISSN (Print): 1798-6664
Links:
http://www.liikennevirasto.fi

Bibliographical note
Contribution: organisation=tlo,FACT1=1<br/>Portfolio EDEND: 2013-12-29
Source: researchoutputwizard
Source-ID: 2465
Research output: Professional › Commissioned report

Kaavan vaikutukset yhdyskuntarakenteeseen : Opas arviointiin

General information
State: Published
Ministry of Education publication type: D5 Text book, professional manual or guide or a dictionary
Nuorten joukkoliikennematkustus kasvussa Tampereen seudulla

General information
State: Published
Ministry of Education publication type: D1 Article in a trade journal
Organisations: Department of Information Management and Logistics
Authors: Kalenoja, H.
Number of pages: 2
Pages: 20-21
Publication date: 2013
Peer-reviewed: Unknown

Publication information
Journal: Paikallisi liikenne
Issue number: 2
ISSN (Print): 0788-6365
Original language: Finnish
Links:
http://www.paikallisi liikennelitto.com/lehti/2_2013/

Bibliographical note
Contribution: organisation=tlo,FACT1=1<br/>Portfolio EDEND: 2013-12-29
Publisher name: Suomen paikallisi liikennelitto
Source-ID: 2464
Research output: Professional › Article

Onko Pyöräilymäärien lisääntyminen uhka turvallisuudelle?

General information
State: Published
Ministry of Education publication type: D1 Article in a trade journal
Organisations: Department of Information Management and Logistics
Authors: Vaismaa, K., Luukkonen, T.
Number of pages: 3
Pyöräilyn laatu on safety in numbers -ilmiön avaintekijä

General information
State: Published
Ministry of Education publication type: D1 Article in a trade journal
Organisations: Department of Information Management and Logistics
Authors: Vaismaa, K., Luukkonen, T.
Number of pages: 4
Pages: 10-13
Publication date: 2013
Peer-reviewed: Unknown

Publication information
Journal: Poljin
Issue number: 5
ISSN (Print): 1796-6388
Original language: Finnish

Bibliographical note
Contribution: organisation=tlo,FACT1=1
Portfolio EDEND: 2013-11-29
Publisher name: Pyöräilykuntien verkosto ry
Source: researchoutputwizard
Source-ID: 3632
Research output: Professional › Article

Pyöräilyn lisääntymisen yhteys turvallisuuteen

General information
State: Published
Ministry of Education publication type: D4 Published development or research report or study
Organisations: Department of Information Management and Logistics
Authors: Luukkonen, T., Vaismaa, K.
Number of pages: 91
Publication date: 2013

Publication information
Place of publication: Helsinki
Publisher: Liikenneturva
ISBN (Print): 978-951-560-198-8
Original language: Finnish

Publication series
Name: Liikenneturvan selvityksiä
Publisher: Liikenneturva
Volume: 1
ISSN (Print): 2341-8052
Links:
Road freight energy efficiency and CO2 emissions in the Nordic countries

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Information Management and Logistics
Authors: Liimatainen, H., Arvidsson, N., Hovi, I., Jensen, T. C., Nykänen, L., Kallionpää, E.
Number of pages: 20
Pages: 1-20
Publication date: 2013

Host publication information
Title of host publication: 13th World Conference on Transport Research, WCTR 2014, 15.-18.7.2013, Rio de Janeiro, Brazil

Publication series
Name: World Conference on Transport Research
Links:
http://www.wctr2013rio.com

Bibliographical note
Contribution: organisation=tlo,FACT1=1<br/>Portfolio EDEND: 2014-07-07
Source: researchoutputwizard
Source-ID: 2778
Research output: Scientific - peer-review › Conference contribution

Suomen sisäiset lentokuljetukset ja niiden merkitys huoltovarmuudelle

General information
State: Published
Ministry of Education publication type: D4 Published development or research report or study
Organisations: Department of Information Management and Logistics
Authors: Aalto, E., Mäkelä, T., Pöllänen, M.
Number of pages: 52
Publication date: 2013

Publication information
Place of publication: Helsinki
Publisher: Huoltovarmuuskeskus
ISBN (Print): 978-952-5608-16-8
Original language: Finnish
Links:

Bibliographical note
Contribution: organisation=tlo,FACT1=1<br/>Portfolio EDEND: 2013-11-29
Source: researchoutputwizard
Source-ID: 1860
Research output: Professional › Commissioned report

Tampereen kaupunkiseudun ja Pirkanmaan liikennetutkimus 2012. Henkilöliikennetutkimus

General information
State: Published
Ministry of Education publication type: D4 Published development or research report or study
Tunneli johtaa joko huonoon tai hyvään kehitykseen

General information
State: Published
Ministry of Education publication type: E1 Popularised article, newspaper article
Organisations: Department of Information Management and Logistics
Authors: Wallander, J., Ollikainen, J., Simola, T., Kehtinen, S., Mannila, T., Dobrowski, T., Uitti, T., Wahlroos, J.
Publication date: 2013
Peer-reviewed: Unknown

Publication information
Journal: Tamperelainen, 11.9.2013
Original language: Finnish

Bibliographical note
Contribution: organisation=tlo,FACT1=1
Portfolio EDEND: 2013-11-29
Publisher name: Suomen Tieyhdistys ry
Source-ID: 2883
Research output: Professional › Article

Yhdyskuntarakenteen vyöhykkeet Suomessa - jalankulku-, joukkoliikenneja autovyöhykkeiden kehitys vuosina 1985-2010

General information
State: Published
Ministry of Education publication type: D4 Published development or research report or study
Organisations: Department of Information Management and Logistics
Authors: Ristimäki, M., Tiitu, M., Kalenoja, H., Helminen, V., Söderström, P.
Number of pages: 146
Publication date: 2013

Publication information
Place of publication: Helsinki
Publisher: Suomen ympäristökeskus
ISBN (Print): 978-952-11-4230-7
Original language: Finnish

Publication series
Name: Suomen ympäristökeskuksen raportteja
Publisher: Suomen ympäristökeskus
Volume: 32
ISSN (Print): 1796-1726
Links:
http://hdl.handle.net/10138/41574

Bibliographical note
Contribution: organisation=tlo,FACT1=1
Portfolio EDEND: 2013-11-29
Source-ID: 3275
Research output: Professional › Commissioned report

Kuninkaankolmion asukkaiden näkemyksiä elinympäristöstään

General information
State: Published