



ABSTRACT OF PAPER

DISSEMINATION LEVEL: **PUBLIC**
TITLE: **PERFORMANCE MEASURES AND METRICS FOR A HYBRID ON DEMAND TRUCK-TRAILER CONFIGURATION: AN END USER PERSPECTIVE**

DATE: **02/01/2014**
AUTHOR(S): **S. BARBARINO (1), J. KYNCL (2), M. MARTINEZAVILA (1), A.HARIRAM (2)**
1 PROCTER & GAMBLE EUROCOR NV/SA, BELGIUM
2 CZECH TECHNICAL UNIVERSITY IN PRAGUE, CZECH REPUBLIC

The abstract of paper which is presented at the Energy Systems Conference in London

GRANT AGREEMENT N^o: **605170**
PROJECT TYPE: **THEME 7 TRANSPORT – SST GC.SST.2012.1-5: INTEGRATION AND OPTIMISATION OF RANGE EXTENDERS ON ELECTRIC VEHICLES**
PROJECT ACRONYM: **TRANSFORMERS**
PROJECT TITLE: **CONFIGURABLE AND ADAPTABLE TRUCKS AND TRAILERS FOR OPTIMAL TRANSPORT EFFICIENCY**
PROJECT START DATE: **01/09/2013**
PROJECT WEBSITE: **WWW.TRANSFORMERS-PROJECT.EU**
COORDINATION: **VOLVO (SE)**
PROJECT MANAGEMENT: **UNIRESEARCH (NL)**

Title:

Performance measures and metrics for a hybrid on demand truck-trailer configuration: an end user perspective

Authors & affiliations:

S. Barbarino¹, J. Kync², M. MartinezAvila¹, A. Hariram²
¹Procter & Gamble Eurocor NV/SA, Belgium; ²Czech Technical University in Prague, Czech Republic
hariradi@fel.cvut.cz

Abstract: (Your abstract must use **Normal style** and must fit in this box. Your abstract should be no longer than 300 words. The box will 'expand' over 2 pages as you add text/diagrams into it.)

Increasing oil prices affect the financial health of companies whose logistic systems heavily rely on road freight and this in turn affects the road-transport service providers as customers move from road to rail or other multi-modal configurations in order to cut fuel price and consumption. The work aims to define a set of carefully formulated key performance indicators and metrics for evaluating the needs and expectations of the industry, primarily the road-transport service companies and end users (shippers) with respect to hybrid-on-demand truck-trailer configurations for improving the competitiveness and sustainability of the transport system and transport efficiency which is in line with European Commissions targets for reducing the consumption of fossil energy resources, increasing transport - and fuel efficiency as highlighted in one of the key objectives of the 2011 Transport Policy White Paper. The question is whether traditional performance measures can be used and out of them which ones should be given priority for measuring the performance of the new truck system. This research is based on extensive literature survey, brainstorming workshops organized for reported case experiences with the end-users group, telephonic interviews and supplementary questionnaires that were aligned with the principle of Kano model analysis, co-joint analysis, and decision-matrix method in order to identify the dimension on which an indicator may exert its impact. The selected performance indicators will be applied in an actual research for defining/tuning the test case scenarios and assessment for the proposed future truck-trailer configuration with the existing system.

Contact details:



Procter & Gamble
Maximo Martinez Avila
martinezavila.m@pg.com

Acknowledgment



This project is co-funded by the 7th FP (Seventh Framework Programme) of the EC - European Commission DG Research

http://cordis.europa.eu/fp7/cooperation/home_en.html

<http://ec.europa.eu>

PROJECT PARTICIPANTS:

VOLVO	VOLVO TECHNOLOGY AB(SE)
BOSCH	ROBERT BOSCH GMBH
DAF	DAF TRUCKS NV
DAI	DAIMLER AG
FEHRL	FORUM DES LABORATOIRES NATIONAUX EUROPEENS DE RECHERCHE ROUTIERE
FHG	FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V
IFSTTAR	INSTITUT FRANCAIS DES SCIENCES ET TECHNOLOGIES DES TRANSPORTS, DE L'AMENAGEMENT ET DES RESEAUX
IRU	IRU PROJECTS ASBL
P&G	PROCTER & GAMBLE SERVICES COMPANY NV
SCB	SCHMITZ CARGOBULL AG
TNO	NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK (NL)
UNR	UNIRESEARCH BV (NL)
VEG	VAN ECK BEESD BV
VIF	KOMPETENZENTRUM - DAS VIRTUELLE FAHRZEUG, FORSCHUNGSGESELLSCHAFT MBH

DISCLAIMER

The FP7 project has been made possible by a financial contribution by the European Commission under Framework Programme 7. The Publication as provided reflects only the authors' view.

Every effort has been made to ensure complete and accurate information concerning this document. However, the author(s) and members of the consortium cannot be held legally responsible for any mistake in printing or faulty instructions. The authors and consortium members retrieve the right not to be responsible for the topicality, correctness, completeness or quality of the information provided. Liability claims regarding damage caused by the use of any information provided, including any kind of information that is incomplete or incorrect, will therefore be rejected. The information contained on this website is based on author's experience and on information received from the project partners.