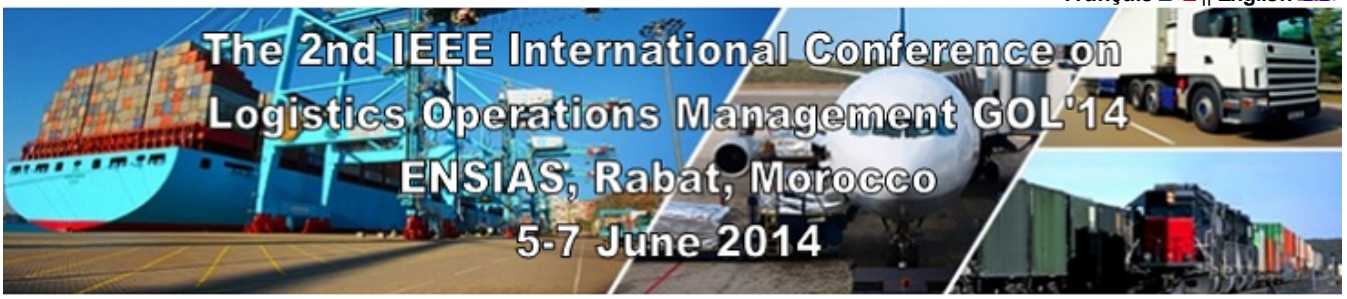
Français || English



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Plenary Sessions

Logistics, Lever for Development

M. Mohamed Najib Boulif, Deputy Minister of Transport in the Ministry of Equipment, Transport and Logistics

Abstract

The development of logistics is essential to challenge economic stakes and to enhance economic competitiveness. For this purpose, Morocco has developed a strategy for the development of logistic competitiveness in order to reduce the ratio of logistics costs to GDP from 20% to 15%, to accelerate the GDP growth from 3 to 5 pointsand to contribute to sustainable development of the country, through the reduction of CO2 emissions by 35% and the decongestion of roads and towns. This intervention will be an opportunity to present an overview on the challenges of logistics, emphasize the importance of logistics performance in economic growth, and highlight the measures taken in Morocco to promote the logistics.

Perspectives on City Logistics

Teodor Gabriel CRAINIC, Professor, School of Management of the University of Québec, Montreal, Canada.

Abstract

City Logistics is an innovative concept where freight transportation within dense and sensitive urban areas is considered from a systemic point of view as an integrated "logistics" system, with the goal of simultaneously reducing the footprint of freight transportation on the city (congestion, pollution, etc.) and providing [illegible] transportation system sustaining its economic development. Cooperation among stakeholders, consolidation of loads of different stakeholders within the same vehicles, and the optimization of the integrated system are the main pillars of this field. A number of divers projects and system deployments have been undertaken around the world, and the pace of development of methods to evaluate and plan such systems is quickening. Many significant challenges still remain, however. We will first recall the main ideas and concepts of City Logistics and briefly survey the applications and scientific literature. We will then discuss a number of challenging issues in planning multi-tiered systems and present methodological developments aimed at addressing them.

Logistics Shortfalls as Opportunities for Innovation

Agostino Bruzzone, Professor in DIPTEM, University of Genoa.

Abstract

Logistics is currently a key driver in a World that is really proceeding at different speed along time and in different geographic areas; due these reasons it emerge necessary to address the Logistics Shortfall

as Opportunities to innovate. The presentation will address the use of innovative models for supporting design of new solution and dynamic management of logistics networks able to deal with the current world situation and with futre challenges.

System Dynamics for Supply Chains

Henri Pierreval, Professor at the French institute of mechanical engineering (IFMA), Clermont-Ferrand, France.

Abstract

The performance of supply chains is a major concern, which is studied by numerous researchers. Modeling and simulation approaches can greatly assist the analyst of these systems in understanding their complex dynamic behavior, so that decision makers can take better decision about their management. If several types of supply chains can be adequately modeled using discrete-event models, when the supply chain deals with numerous types of products, and high quantities, then this modeling world view can be not relevant. System Dynamic principles, introduced by Forester can turn out to be much more suited, in particular at tactical or strategic levels (macroscopic simulations), to take sustainability into consideration and to deal with certain human issues. The presentation will highlight its benefits for modeling the flow of products. A methodology, illustrated by case studies, will be introduced. Relevant research directions that can be addressed using systems dynamics will be highlighted.