SCIENCESPRINGDAY



UNIDEMI - Research Unit in Mechanical and Industrial Engineering

LARGESCM (MIT Portugal Program); EMS

Research Team POM





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2003: PhD in Systems Engineering

Main research areas:

- Supply Chain Management
- Logistics
- Management Support Systems

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Objectives

LARGESCM (MIT-Pt/EDAM-IASC/0033/2008, 2008-2013): Supply chains (SC) are confronted with an increased number of management paradigms, such as Lean, Agile, Resilient and Green (LARG), that recognize new opportunities for SC Management improvement. The objective of this research is to develop a management integrator model to increase the SC competitiveness.

EMS: Companies' competitiveness is not only determined by the performance of their products and services, but also by the corresponding production processes. The principal aim of European Manufacturing Survey (EMS) is monitoring the technical and organisational modernisation of manufacturing industry via a written survey addressed to firms.

Methodology

LARGESCM: i) Identify the LARG management practices; ii) Define the influence of each management practice in each paradigm; iii) Define the contribution of each management practice in SC competitiveness; and iv) Determine the degree of implementation of each practice for each SC entity to maximize supply chain competitiveness.

EMS: The focus of the survey is on technical, organisational, and managerial manufacturing innovation, their pre-requisites and consequences in manufacturing firms. The underlying philosophy is to keep a set of questions constant over time, change others according to changing issues in manufacturing innovation and leave some space for (related) new or customer-specific topics.

Expected Results

LARGESCM: A Management Integrator Model to help SC managers to react quickly and efficiently to the effects of disruptions that can occur in a SC, sustaining a high service level to customers and to merge the necessary information to mitigate plans if the disruption became repetitive.

EMS: i) To improve scientific state of knowledge and policy counseling for evaluating technological and economic measures, and information of associations and trade unions in the participating countries; ii) To execute multinational comparative analyses; iii) To constitute the basis for an informative performance benchmark offering companies the opportunity to benchmark themselves nationally as well as internationally with other companies.

Depote 1,3

Weakly orders

Dispote 2,3

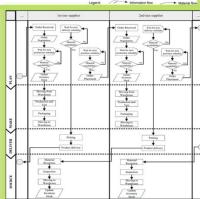
Weakly orders

Dispote 2,3

Dispote 2,3

Day orders

Day order



EMS network:

Alemanha: ISI, Karlsruhe; Áustria: AIT, Foresight & Policy Development Department, Vienna; Brasil: UFRGS, Porto Alegre; Croácia: University of Zagreb, Economic Faculty, University of Split, Technology Faculty; Dinamarca: University of Southern Denmark, Mads Clausen Institute and Institute for Marketing & Management, Sønderborg and Odense; Eslovénia: Maribor University, Faculty of Mechanical Engineering; Espanha: University of Girona, Polytechnics School, Department of Business Administration and Product Design; Federação da Rússia: State University - Higher School of Economics, ISEK. Moskow; Finlândia: VTT Technical Research Centre of Finland; França: IAE Lyon; Holanda: Nijmegen School of Management; Itália: ITIA-CNR, Milan; Portugal: UNIDEMI, FCT/UNL; Reino Unido: Leeds University Business School, University of Leeds; República Checa: CES, University of Economics and Management, Prague; República Popular da China: IPM, Division of S&T Policy, Bejing; Suécia: University of Gävle, Jönköping University, Chalmers and Luleå University; Suica: Hochschule Luzern - Wirtschaft, IBR

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