

# Workshop of Thales project: ASPASIA

Saturday 23rd May 2015

Room 319, 3<sup>rd</sup> Floor, Department of Economic Sciences,  
Aristotle University of Thessaloniki

**Project "Thales – Aristotle University of Thessaloniki –  
Analysis of Supply and Production Systems: An Integrated Approach"**

## Workshop Program

**10.00 - 10.15** : Opening of the Workshop

**10.15 -- 11.00** : Introduction and summary of the work of each of the 4 Greek Groups by the coordinators (Chrissoleon Papadopoulos – AUTH, Michael Georgiadis – UWM, Stella Sofianopoulou – UniPi, Agapios Platis - UA)

**11.00 -- 11.20** : **WP 1. Literature Review and Research of Supply Chain Production and Distribution Networks in Greece** (Vassilia Peppas, UniPi, Skype)

**11.20 -- 12.00**: **WP 2. Strategic Design of Integrated Supply Chain Production and Distribution Networks**

- Task 2.1: Optimal design of Generalized Supply Chain Networks (Magda Kalaitzidou, UWM)
- Task 2.2: Integration of Financial Aspects in the Optimal Design of Production and Distribution Networks (Pantelis Longinidis, UWM)
- Task 2.3: Carbon-Efficient Supply Chains (Dimitris Psychoyios/E. Missou, UniPi, Skype)
- Task 2.4: Engaging Sustainability at Strategic Level Planning (Aristides Matopoulos, AUTH, Skype)

**12.00 -- 12.50** : **WP 3. Tactical Design of Integrated Supply Chain Production and Distribution Networks**

- Task 3.1: Optimization of vehicle fleet/transportation modes in supply chain production and distribution networks (George Kozanidis, UWM, Skype)
- Task 3.2: Combined freight transport optimization via OR algorithms (Christina Arampantzi, UA.)



- Task 3.3: Managing inventories in multi echelon supply chains in serial production- inventory systems with continuous review (S, s) policies, random external demand, lost sales and stochastic replenishment lead times: Vendor Managed Inventory versus autonomous inventory decision philosophy (Michael Vidalis, AUTH)
- Task 3.4: Advisability and configuration of product classification procedures and procurement, production and inventory management in reverse and hybrid production systems subject to uncertain returned products quality (Christos Zikopoulos, AUTH.)
- Task 3.5: Solving the inventory routing problem (Stella Sofianopoulou, UniPi)

#### **12.50 -- 13.30 WP 4. Operational Issues for the Analysis of Integrated Supply Chain Production and Distribution Networks**

- Task 4.1: Models of integrated manufacturing systems and supply networks (Chrissoleon Papadopoulos AUTH)
- Task 4.2: Analysis of a push-pull merge-split system with multiple suppliers, an intermediate finite buffer and a production/distribution center with parallel machines/channels (Alexandros Diamantidis AUTH.)
- Task 4.3: Conventional and Intelligent computation techniques for solving selected optimization problems in production and operations management: Applications in (i) resource availability optimization and (ii) performance measurement in serial production lines (Christoforos Salagaras and Konstantinos Boulas, UA)
- Task 4.4 : Analyzing and Making Operational Decisions in Integrated Supply Chain Production and Distribution Networks, using Fuzzy Cognitive Maps (Athanasios Tsadiras, AUTH)

#### **13.30 -- 13.40: WP 5. Project Assessment** (Chrissoleon Papadopoulos, AUTH)

**13.40 -- 14.10: Invited talk, Cathal Heavey, Guest Researcher,** University of Limerick, Ireland (Skype)

**14.10 -- 14.20: WP 6: Dissemination** (Chrissoleon Papadopoulos AUTH)

**14.20 -- 14.40 : Round Table Talk. Closing of the Workshop**

No break in between.

15.00 : Meal at Navarinou Square, Thessaloniki.

17.00 : Departure

