



INDUSTRIAL MANAGEMENT



## Seminario Permanente en Diseño, Gestión y Optimización de Procesos Industriales y de Servicios

*Seminar on Design, Management and Optimization of Processes in Industry and Services*

### “Design and Planning Supply Chains Towards Sustainability”

*Prof. Ana Povoá*

Department of Engineering and Management, Instituto Superior Técnico, University of Lisbon, Portugal

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**Summary:** Supply chain are complex systems involving a set of entities located around the world and whose main objective is the supply of products to the final consumers at a minimum cost. The management of such systems is complex due to the large multiplicity of materials and information involved and the varied characteristics of the associated entities. In any organization supply chain play a crucial role as they dictate the availability of the products to the final consumer and consequently the financial success of the involved companies. Consequently, supply chain ought to be flexible, resilient and efficient while guaranteeing costumers demands at minimum costs. Additionally, as supply chains are often associated with a high level of natural resources consumption and may be linked to high environment and societal burdens a special care should be devoted to sustainability concerns when designing, planning and operating such systems. The emergence of the sustainable supply chain area is nowadays a reality in both academic and industry communities where several challenges are still to be resolved. To help answering some of these challenges the usage of operations research methods is as a path to follow as they allow the support of supply chain decisions while accounting for sustainability concerns. In this talk we explore the use of operations research methods, i.e. optimisation, to address the design, planning and operation of supply chain towards the management of sustainable supply chain.

**ANA POVOA** is Full Professor of Operations and Logistics at the Department of Management and Engineering and Centre for Management Studies (CEG-IST) of Instituto Superior Técnico (IST), University of Lisbon. She holds a PhD from Imperial College of Science Technology and Medicine. Ana is the leader of the of Operations and Logistics at CEG-IST and the director of the PhD program in Engineering and Management at IST. Her research interests are on the areas of Operations and Supply Chain Management where she has been exploring the optimization of global systems accounting for economic, environmental and social concerns. Ana has published widely in these areas and supervised several Master and PhD students. She has been coordinating several scientific projects, some of them in close collaboration with industry.