

# City Distribution and Urban Freight Transport

Multiple Perspectives

*Edited by*

Cathy Macharis

*Vrije Universiteit Brussel-Research group MOBI, dep. MOSI-  
Transport and Logistics, Belgium*

Sandra Melo

*Faculdade de Engenharia de Universidade do Porto (FEUP)  
and the Institute of Mechanical Engineering (IDMEC) –  
Instituto Superior Tecnico de Lisboa, Portugal*

NECTAR SERIES ON TRANSPORTATION AND  
COMMUNICATIONS NETWORKS RESEARCH

**Edward Elgar**

Cheltenham, UK • Northampton, MA, USA

# Contents

<i>List of contributors</i>	vii
Introduction – city distribution: challenges for cities and researchers	1
<b>PART I THE PROBLEM SITUATION AND POSSIBLE SOLUTIONS</b>	
1 City distribution, a key element of the urban economy: guidelines for practitioners <i>Laetitia Dablanc</i>	13
2 Urban freight transport: the challenge of sustainability <i>H.J. (Hans) Quak</i>	37
3 Characteristics and typology of last-mile logistics from an innovation perspective in an urban context <i>Roel Gevaers, Eddy Van de Voorde and Thierry Vanelslander</i>	56
<b>PART II POSSIBLE METHODOLOGIES</b>	
4 Urban freight policy innovation for Rome's LTZ: a stakeholder perspective <i>Amanda Stathopoulos, Eva Valeri, Edoardo Marcucci, Valerio Gatta, Agostino Nuzzolo and Antonio Comi</i>	75
5 Multi-actor multi-criteria analysis: a case study on night-time delivery for urban distribution <i>Cathy Macharis, Ellen Van Hoeck, Sara Verlinde, Wanda Debauche and Frank Witlox</i>	101
6 Definition of a set of indicators to evaluate the performance of urban goods distribution initiatives <i>Sandra Melo and Alvaro Costa</i>	120
<b>PART III CASE STUDIES OF EUROPEAN CITIES</b>	
7 City logistics in Italy: success factors and environmental performance <i>Carlo Vaghi and Marco Percoco</i>	151

8	Transport of goods to and from the center of Brussels: using the port to improve sustainability <i>Tom van Lier and Cathy Macharis</i>	176
9	Optimization of urban deliveries: evaluating a courier, express and parcel services pilot project in Berlin <i>Julius Menge and Paul Hebes</i>	200
10	The use of rail transport as part of the supply chain in an urban logistics context <i>Jochen Maes and Thierry Vanelslander</i>	217
11	Evaluation of urban goods distribution initiatives: an empirical overview in the Portuguese context <i>Sandra Melo</i>	234
	<i>Index</i>	261