Innovative Logistics Management

Competitive Advantages
through new Processes and Services

Edited by
Wolfgang Kersten, Thorsten Blecker,
Cornelius Herstatt

With Contributions by
Abbas Afraze, Sabine Bäck, Heinz Bartsch, Anatoli Beifert,
Federica Bianco, Constantin Blome, Mauro Caputo, Tugrul U. Daim,
Soheil Fallahian, Hipolito Martell Flores, Neeran Gautam, V. K. Goyal,
Michael Henke, Sakari Kajander, Florian Kähne, Bernd Kaluza,
Wolfgang Kersten, Julio Macedo, Holger Mattke, Steven Melnyk,
Francesca Michelino, Enzo Morosini Frazzon, Nazak Nobari, Lauri Ojala,
Wolfgang Ortner, Ernst Peßl, Gunnar Prause, Hennariina Pulli,
Alexandre Rodrigues, Hubert B. Schemitsch, Peter Schentler,
Stefen T. Schilz, Nico Schlitter, Bernd Scholz-Reiter, Kirsten A. Schröder,
Meike Schröder, Jörg Schweiger, Amir Shekari, Carolin Singer,
Florian Skiba, Michael Slamanig, Claudine A. Soosay, Ulla Tapaninen,
Martin Tschandl, Kelly Waugh, Herwig Winkler, Francesco Zirpoli,
George Zsidisin, Phanthian Zuesongdham

ERICH SCHMIDT VERLAG
Table of Content

Preface ................................................................................................................................................. V
Table of Content ................................................................................................................................... VII

Innovative Management Concepts

Integration of Information Quality Management and Process –
Quality Management in Supply Chain, a Hybrid Model ............................................................. 3
  Abbas Afrazeh and Heinz Bartsch

An Innovative Concept for the Management of Project Oriented Supply
Chain Networks ....................................................................................................................................... 17
  Herwig Winkler, Hubert B. Schemitsch, and Bernd Kaluza

Managing Supply Chain Processes –
Theoretical Impact on Strategic Supply Chain Management ....................................................... 35
  Kirsten A. Schröder

PEM: Increasing Efficiency and Effectiveness of
Procurement-Processes ..................................................................................................................... 53
  Martin Tschandl, Sabine Bäck, Wolfgang Ortner, Ernst Peßl,
  Peter Schentler, and Jörg Schweiger

Logistic Processes and Innovation:
Systemic Challenges for a Bioethanol Supply Chain ...................................................................... 66
  Bernd Scholz-Reiter and Enzo Morosini Frazzon

The Role of Internet for New Organisational Models in
Supply Chain Management ................................................................................................................. 85
  Federica Bianco, Mauro Caputo, Francesca Michelino,
  and Francesco Zirpoli

Supply Chain Planning and Supply Chain Design

Benefits of Supply Chain Visibility for
Production Planning of Logistics Service Providers .................................................................... 105
  Hennariina Pulli, Sakari Kajander, and Ulla Tapaninen

An Innovative Instrument for the Activity-Based Planning
of Ramp-Up Costs ............................................................................................................................... 117
  Herwig Winkler, Michael Slamanig, and Bernd Kaluza
Combined Approach for Enterprise Modelling:
CIMOSA and SOA as dynamic Architecture in maritime Logistics.........133
Phanthian Zuesongdham

Potentials and Problems of RFID-Based Cooperations in Supply
Chains.................................................................147
Nico Schlitter, Florian Kähne, Stiefen T. Schilz, and Holger Mattke

Designing Innovative Organizational Networks Based on Complex
Supply Chain.............................................................165
Nazak Nobari

Relationship between SCM and Innovations

Logistics and Supply Chain Efficiencies:
the Organizational Capabilities Supporting Innovation.........................181
Claudine A. Soosay

Fast Innovation Reinforcement Supply Chain Performance Evaluation ....199
Julio Macedo

Lead Users as Source for Radical Service Innovations ..........................213
Florian Skiba

Risk and Sustainability Management

Risk Evaluation Applied to Weakness Detection in Chains.
The Case of Containers Throughput in „Le Havre” Port.........................231
Hipolito Martell Flores

Supply Side Supply Chain Disruptions - Does Location Matter? .............249
Alexandre Rodrigues, Steven Melnyk, and George Zsidisin

A New Methodology to Linking Value Engineering & FMEA ..................267
Amir Shekari and Soheil Fallahian

Single Sourcing vs. Multiple Sourcing
in the Viewpoint of Supply Risk Management.......................................281
Constantin Blome and Michael Henke

Impacts of Environmental Awareness on the
Electronics Manufacturing Industry.....................................................295
Kelly Waugh and Tugrul U Daim

Innovative Closed Loop Logistics –
A Tool for Reverse Logistics, Eco-Logistics and De-Distribution ............315
Neeran Gautam and V. K. Goyal
<table>
<thead>
<tr>
<th>Regional Innovations for Logistics Business</th>
</tr>
</thead>
<tbody>
<tr>
<td>Logistics in the Baltic Sea Region ..........327</td>
</tr>
<tr>
<td><em>Gunnar Prause and Anatoli Beifert</em></td>
</tr>
<tr>
<td>Innovative Regional Development for Logistics and ICT –</td>
</tr>
<tr>
<td>The Baltic Sea Region Example ................343</td>
</tr>
<tr>
<td><em>Wolfgang Kersten, Lauri Ojala, Meike Schröder, and Carolin Singer</em></td>
</tr>
<tr>
<td>Authors ..........................................................361</td>
</tr>
</tbody>
</table>