



# Logistics and Transportation Security: A Strategic, Tactical, and Operational Guide to Resilience

By Maria G. Burns

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## Logistics and Transportation Security: A Strategic, Tactical, and Operational Guide to Resilience By Maria G. Burns

"Professor Burns has captured the essence of transportation security, one of today's most pressing concerns. As the rate of globalization and world trade increases, security and supply chain resilience are at the core of one's global transportation network. This is a timely and well written contribution to the industry."

—John A. Moseley, Senior Director of Trade Development, Port of Houston Authority

"...a clear and concise book detailing the issues of security in today's post-9/11 era. An invaluable read for those working within the transport and security industries."

—Steven Neuendorff, Head of Americas, HANSA HEAVY LIFT Americas, Inc.

Examining sea, land, and air transportation systems and linkages, **Logistics and Transportation Security: A Strategic, Tactical, and Operational Guide to Resilience** provides thorough coverage of transportation security. Its topics include hazardous material handling, securing transportation networks, logistics essentials, supply chain security, risk assessment, the regulatory framework, strategic planning, and innovation through technology.

This book is not a prescriptive how-to manual. It begins with a discussion of the differences between safety and security before advancing through a developmental learning curve encompassing a wide range of subjects. It

discusses global threats such as terrorism and piracy as well as current regulatory mandates and technological applications, including the latest threat to logistics security, cyber-attack.

The book also examines the benefits of synergy between the public and private sectors, using a number of case studies and interviews to illustrate increasing collaboration and benefits. It assists a broad range of transportation professionals, security professionals, logistics outfits, and policy makers with assessing the benefits of proactive security measures and with verifying security-associated risks and consequences.

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**Logistics and Transportation Security: A Strategic, Tactical, and Operational Guide to Resilience By Maria G. Burns Bibliography**

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### Editorial Review

#### Review

"Professor Burns's thoughtful analysis of transportation security in this book suggests that risk tolerance is a decision based on numerous factors, and does not depend on linear policy analysis. As security professionals, we should maintain that 'big picture' view while simultaneously diving deep into the assessment and management of risk."

?Captain Brian Penoyer, U.S. Coast Guard, sector commander and captain of the port, US Coast Guard Sector, Houston-Galveston, Texas

"Timely and relevant, **Logistics and Transportation Security** is a comprehensive and thought-provoking assessment of the expanding and ever-changing hazards and threats to global supply chains and the transportation industry as a whole. Professor Maria Burns proffers concrete analysis and cogent recommendations to achieve increased security resilience in an increasingly complex threat environment. I heartily recommend Burns's work?it is a very worthwhile read and will serve as a significant resource for leaders in the logistics and transportation industries and for security professionals throughout our nation."

?Kevin Clement, Texas Office of Homeland Security

"Professor Burns has captured the essence of transportation security, one of today's most pressing concerns. As the rate of globalization and world trade increases, security and supply chain resilience are at the core of one's global transportation network. This is a timely and well written contribution to the industry."

?John A. Moseley, senior director of trade development at Port of Houston Authority

"In her new book, Professor Burns covers one of the most important subjects of the 21<sup>st</sup> century: security, as related to transportation and logistics systems and analyzing topics such as global transportation, regulatory framework, infrastructure, hazardous materials, supply chain, risk assessment and analysis, global collaboration, technology and innovation. Professor Burns further covers another extremely important subject, the human factor, in connection with strategic, tactical and operating processes and the future of transportation and supply chain networks. I strongly believe that this book should be in the hands of all transportation related employees and managers."

?Capt. George M. Pontikos, vice president of port operations, Odfjell USA (Houston) Inc.

"Influenced by geopolitics, the importance of maritime security of the supply chain is ever-increasing, though it was always an integral part of commercial shipping. Prof. Burns has shed new light on this complex and evolving field where security of the supply chain is being targeted as a geopolitical tool, breaking it down to the key elements. This outstanding contribution by Maria is an essential read in understanding the various strategic and tactical objectives for every supply chain professional involved in the maritime sector."

?Capt. Anuj Chopra, FNI ExC, VP Americas, RightShip

"Prof. Burns has taken a comprehensive look at the global transportation system, and identified the strengths and vulnerabilities of its security to human life, the environment, and the global economy. She further

presents suggestions for insuring that the importance of security, both physical and cyber, is fully understood so that stakeholders can take prudent action to ensure the viability and continuity of our transportation system."

?Carleen Lyden-Kluss, co-founder/executive director, North American Marine Environment Protection Association (NAMEPA)

"Professor Burns has authored a clear and concise book detailing the issues of security in today's post-9/11 era. An invaluable read for those working within the transport and security industries."

?Steven Neuendorff, Head of Americas, HANSA HEAVY LIFT Americas, Inc.

"Prof. Burns does an outstanding job in presenting the critical importance of ports in the supply chain and the need for security, in a global market that moves 80% of its goods via sea transport, while increasingly depending on digital, high-tech platforms. She discusses the most common forms of attack, actors involved, and procedural gaps and offers a set of new approaches to risk management. Twelve critical issues are identified as the foundations of security and Prof. Burns masterfully explains their complex interaction for security resilience and sustainability, including the collaborative relationship between the state and the private sector that must take place to ensure competitiveness, and their symbiosis with security at both the national and international levels."

?Jorge Durán, Chief of the Secretariat Inter-American Committee on Ports (CIP) Organization of American States, Washington DC

#### About the Author

**Prof. Maria G. Burns** serves as the Director for the Center for Logistics & Transportation Policy, University of Houston, and as Lead of Workforce Development and Researcher in the DHS Center of Excellence for Borders, Trade and Immigration Research, led by the University of Houston. She is the author of the books *Port Management & Operations* (2014), *Logistics & Transportation Security* (2015), and *Energy Security & Critical Infrastructure* (2016). She is an Honorary Member in the US Coast Guard Auxiliary, and Member in the Private Sector Advisory Council (PSAC), whose role is to advise the Governor of Texas in matters of security.

In 2016, Prof. Burns received the "Excellence in Emergency Management Award" by the Emergency Management Association of Texas (EMAT). She has developed a series of training manuals approved by the US Coast Guard NMC. She is a Certified Auditor for Security (ISPS), Safety (ISM), Quality (ISO9001), and the Environment (ISO14001). She serves as Chair in the Supply Chain Security Subcommittee of the National Academies, Washington DC, and Member of the Society of Naval Architects and Marine Engineers (SNAME), and the International Association of Maritime Economists (IAME).

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**Wesley Powell:**

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