



Transport, the Environment and Security: Making the Connection

Rae Zimmerman

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'This book is a tremendous information resource, and Dr. Zimmerman is a true data "guru". Informed by her unique combination of interests, Transport, the Environment and Security represents a giant leap forward in understanding this previously understudied confluence of forces, encompassing topics as diverse as how transportation affects the environment and how security problems can affect transportation.'

- Vicki Bier, University of Wisconsin-Madison, US

'Zimmerman's book is a much needed addition to our scientific understanding of the nexus between environment and security within a transportation context. Transportation networks (rail and road) are the quintessential American lifeline and disruptions through episodic natural hazards, terrorist activities, or longer term climate changes will have profound changes on society - presently and in the future. Zimmerman illustrates the synergies between environment, transport networks, security, social justice and urban places in a masterful and thoughtful synthesis that underscores the interdependencies within the transportation infrastructure, the nation's vulnerability to transport disruptions, and offers ideas for increasing the resilience of the transportation infrastructure. It will become a standard reference as we re-imagine transport in the 21st century under changing climate, security, environment, and living conditions.'

- Susan L. Cutter, University of South Carolina, US

'Transportation planning and policy making have followed a particular model for more than fifty years. Rae Zimmerman begins with the premise that we are in a rut and that the old ways of thinking need to be replaced. An enormous amount of evidence is presented that together argues a strong case for the systematic integration of planning for transportation, the environment, and security. While the book does not get us to an integrated process, it points us to one and starts us down a creative path. A great introduction to the complexities of these relationships.'

- Martin Wachs, RAND Corporation, US

Effective means of transport are critical under both normal and extreme conditions, but modern transport systems are subject to many diverse demands. This path-breaking book uniquely draws together the typically conflicting arenas of transport, the environment and security, and provides collective solutions to their respective issues and challenges.

From a primarily urban perspective, the author illustrates that the fields of transportation, environment (with an emphasis on climate change) and security (for both natural hazards and terrorism) and their interconnections remain robust areas for policy and planning. Synthesizing existing data, new analyses, and a rich set of case studies, the book uses transportation networks as a framework to explore transportation in conjunction with environment, security, and interdependencies with other infrastructure sectors. The US rail transit system, ecological corridors, cyber security, planning mechanisms and the effectiveness of technologies are among the topics explored in detail. Case studies of severe and potential impacts of natural hazards, accidents, and security breaches on transportation are presented. These cases support the analyses of the forces on transportation, land use and patterns of population change that connect, disconnect and reconnect people from their environment and security.

The book will prove a fascinating and insightful read for academics, students, and practitioners across a wide

range of fields including: transport, environmental economics, environmental management, urban planning, public policy, and terrorism and security.

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