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NUMBER 269

TRANSPORTATION RESEARCH BOARD
OF THE NATIONAL ACADEMIES

TR NEWS

Globalization and Transportation

Changing the World



THE NATIONAL ACADEMIES

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NUMBER 269

JULY–AUGUST 2010

GLOBALIZATION AND TRANSPORTATION: CHANGING THE WORLD

3 INTRODUCTION

Globalization and Transportation: Changing the World

Joedy Cambridge

Starting with an instructive inventory of information, articles in this special issue present historical, national, regional, economic, and policy perspectives on globalization, its multifaceted interactions with transportation, and its manifold impacts.

4 QUIZ

What Do You Know About Globalization and International Transportation?

Mary R. Brooks

This 21-question, true-or-false and multiple choice quiz gauges knowledge of basic information, general and specific, related to globalization and transportation—a quick read of your Global Positioning System coordinates on the subject.

6 Liquid Gold: The Ancient Amphora Delivers Roman Riches

Sarah Murray

An ongoing archaeological dig in Rome reveals clues to a sophisticated, waterborne supply chain delivering olive oil in amphorae—cleverly designed clay shipping containers with logistical stamps and identifying marks—from Spain to Rome and to other markets of the far-reaching empire two millennia ago.

10 Moveable Feasts: From Ancient Rome to the 21st Century, the Incredible Journeys of the Food We Eat

Sarah Murray

12 QUIZ ANSWERS AND RESOURCES

What Do You Know About Globalization and International Transportation?

Mary R. Brooks

The enlightening answers to the quiz are accompanied by citations of readily available resources for additional information and reference.

14 Maritime Freight Transportation, National Economic Recovery, and Global Sustainability: Coordinating a Strategic Plan

Thomas Wakeman and Michael Bomba

The authors note that shifts in the trade and transport environment—at the local, national, and international levels—pose a dynamic challenge and point to the need for a strategic freight plan for the U.S. Marine Transportation System, addressing such issues as intermodal transport capability, energy use, sustainability, and the effects of the expansion of the Panama Canal.

21 Fear of Flying: Globalization, Security, and Terrorism

Richard W. Bloom

Globalization's increase of social interconnectivity multiplies the possibilities for the type, timing, and location of a terrorist attack that eludes the specific technology at an airport or other venue, the author points out; layers of security must protect against ever-changing threats interacting with ever-changing vulnerabilities leading to ever-changing risks.

26 Under the Volcano: The Eyjafjallajökull Eruptions, Globalization, and Lessons Learned

Richard W. Bloom



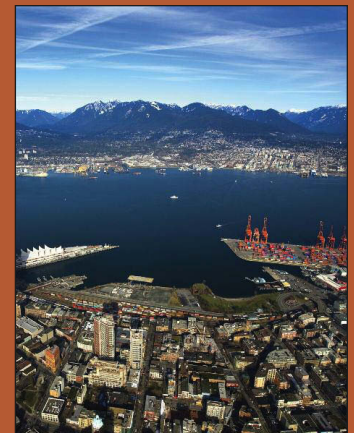
6



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COVER: Port Metro Vancouver terminals on Burrard Inlet, seen from the air. The effects of globalization on transportation include shifts in trade environment, multilayered security considerations, regional development, and new perspectives on port investment. (Photo: Port Metro Vancouver)

TR NEWS

features articles on innovative and timely research and development activities in all modes of transportation. Brief news items of interest to the transportation community are also included, along with profiles of transportation professionals, meeting announcements, summaries of new publications, and news of Transportation Research Board activities.

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Lea Mae Rice, Assistant Editor
Jennifer J. Weeks, Photo Researcher
Juanita Green, Production Manager
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28 Globalization and the U.S. Southeast: Considerations for the Transportation Infrastructure

Bruce Lambert

Globalization is shaping the freight transportation needs of the Southeast United States; the development of gateways, exporters, and foreign direct investment will lead to more traffic on the region's infrastructure and across jurisdictions, the author observes, citing examples, trends, and projections.

35 POINT OF VIEW Investments in Seaports Deliver Goods, Prosperity, and Jobs

Kurt Nagle

U.S. port activities generate more than \$3 trillion in economic activity annually and support more than 13 million workers. The CEO of the American Association of Port Authorities outlines several federal programs and tax incentives related to ports that could assist in job creation, enhance sustainability, and provide long-term economic growth and prosperity for the nation.

38 TRB SPECIAL REPORT Funding Options for Freight Transportation Projects

A National Research Council-appointed committee has issued recommendations about expanding federal financial assistance, system planning, project evaluation, and performance monitoring for freight-related projects that fall outside of established arrangements for highways and facilities directly funded by the federal government.

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C O M I N G N E X T I S S U E

Transportation asset management, including performance measures and performance management, is the focus of articles in the September–October *TR News*. Features highlight practical perspectives on programs in two states and one county, with an overview of the necessary tools; insights into change management; the benefits of asset management for local communities, including improved accountability and transparency, reduced risks, and more informed decisions; the use of visualization for management of transportation assets; choosing the right fix at the right time to increase the service life of assets; and more.



Visualization of surveyed culverts and pavement sections, in the context of the terrain; affordable computer tools can show graphically the relationships between assets, the physical world, and past and planned changes.