

# Who We Are

The **Office of International Programs** works to discover, share, and promote global best practices and new technologies that improve the safety and efficiency of highway infrastructure. Our understanding of cultural and political nuances and differences between nations and our expertise in managing global relationships foster a culture of collaboration among transportation agencies around the world.

BY THE NUMBERS

MORE THAN

90

TRANSPORTATION  
TECHNOLOGIES  
IMPLEMENTED

35

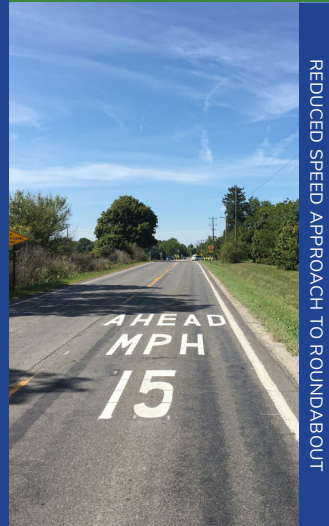
BINATIONAL  
RELATIONSHIPS

24

MULTINATIONAL  
RELATIONSHIPS

94

INTERNATIONAL SCANS AND  
GLOBAL BENCHMARKING  
PROGRAM STUDIES



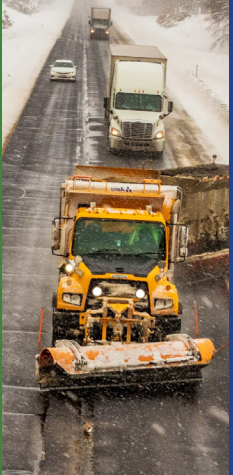
REDUCED SPEED APPROACH TO ROUNDABOUT



CABLE-STAYED BRIDGE



SPMT



TOW FLOW

## Select Learned Technologies and Best Practices From Across the Globe

### How To Connect With Us

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All Images Source: Federal Highway Administration



U.S. Department of Transportation  
**Federal Highway Administration**

Office of International Programs



BRIDGE CONSTRUCTION SITE



ENGINEERING TEAM AT A PREFABRICATED BRIDGE ELEMENT PROJECT

## BRIDGE TECHNOLOGIES



Efficient, high-quality bridge construction and design strategies are critical for ensuring cost efficiency and safety during construction. Common practices include using cable-stayed

bridges and accelerated bridge construction methods like prefabricated bridge elements and systems, movement systems, and self-propelled modular transporters.

**LEARNED FROM:** BELGIUM, DENMARK, FRANCE, GERMANY, ITALY, JAPAN, NETHERLANDS, SWITZERLAND, UNITED KINGDOM

## CONGESTION MANAGEMENT



Active traffic management techniques help to monitor and increase mobility during high-traffic times. Examples include automated queue detection technology, lane control signals, and

variable speed control. These innovations alert drivers of traffic conditions and lane changes, plus help reduce speeding to create steady traffic flow.

**LEARNED FROM:** DENMARK, ENGLAND, FRANCE, GERMANY, GREECE, NETHERLANDS, SWEDEN

## MODERN ROUNDABOUTS



These circular intersections direct drivers to yield to traffic already in the roundabout. They are designed to encourage vehicles to slow down, calm traffic, and reduce conflicts. Modern

roundabouts are a cost-effective way to reduce the frequency and severity of crashes.

**LEARNED FROM:** AUSTRALIA, GERMANY, NETHERLANDS, SWEDEN

## PAVEMENT MATERIALS



Cost-effective, high-quality, environmentally friendly paving solutions can increase safety and vehicle longevity. Innovative technologies include using time- and cost-saving pavement

recycling, energy-saving warm mix asphalt, and rut-resistant, stone-matrix asphalt.

**LEARNED FROM:** BELGIUM, DENMARK, FRANCE, GERMANY, ITALY, NETHERLANDS, NORWAY, SWEDEN, UNITED KINGDOM

## SAFETY



Infrastructure improvements and advanced frameworks for safety can keep drivers, pedestrians, and cyclists protected on roads. Strategies include taking a multidisciplinary, comprehensive approach

to planning and conducting formal road safety audits of future roadway plans, projects, or service facilities.

**LEARNED FROM:** AUSTRALIA, GERMANY, JAPAN, NETHERLANDS, NEW ZEALAND, SWEDEN, UNITED KINGDOM

## TRUCK SIZE AND WEIGHT



Setting and enforcing these regulations lessens the strain on highway infrastructure, impacting roads, drivers, and the economy. Strategies for improving pavement quality and road

safety include weigh-in-motion (WIM) technology, high-speed WIM and video technology, and WIM database management.

**LEARNED FROM:** BELGIUM, FRANCE, GERMANY, NETHERLANDS, SLOVENIA, SWITZERLAND

## WINTER OPERATIONS



Techniques to prepare for and respond to winter weather include anti-icing, fixed automated spray technology, removable legs for trucks, and roadway weather information systems. The Snow and Ice

Pooled Fund Cooperative Program offers a way for highway agencies to share research and testing. These innovations improve winter roadway maintenance, decrease crashes, and reduce operating costs.

**LEARNED FROM:** FRANCE, JAPAN, SWEDEN

## INNOVATIVE CONTRACTING



Examples include methods like using pavement warranties and public-private partnerships, conducting more efficient inspections, accepting alternative bids, and pre-qualifying contractors.

These methods help to reduce construction time, enhance quality, minimize life-cycle costs, and reward new technologies.

**LEARNED FROM:** AUSTRALIA, AUSTRIA, DENMARK, FRANCE, GERMANY, NETHERLANDS, PORTUGAL, SPAIN, SWEDEN, UNITED KINGDOM

## RISK MANAGEMENT



During the planning process, teams can use approaches, concepts, and tools for considering agency, program, and project risk management. This includes frameworks for the risk management

process, risk workshops, quantitative and qualitative analyses, risk management structures, risk registers, risk assessments, risk communication strategies, and risk management plans.

**LEARNED FROM:** AUSTRALIA, ENGLAND, GERMANY, NETHERLANDS, SCOTLAND

## TRAFFIC INCIDENT MANAGEMENT



Approaches for clearing crash scenes and managing congestion can help lessen the impact of incidents on roadways. Some strategies include active traffic management and

traffic incident response.

**LEARNED FROM:** ENGLAND, GERMANY, MEXICO, NETHERLANDS, SWEDEN



ENGINEERING TEAM STANDING ON A BRIDGE CONSTRUCTION SITE