



*Center for Transportation Analysis  
Research Brief*

# Oak Ridge National Laboratory

## International Experience in Transportation Analysis and Planning

Center for Transportation Analysis  
(CTA) Research Areas

- Aviation Safety
- Air Traffic Management Analysis
- Data, Statistical Analysis
- Geo-Spatial Information Tools
- Defense Transportation
- Energy Policy Analysis
- Environmental Policy Analysis
- Highway Safety
- Intelligent Transportation Systems
- Logistics Management
- Supply Chain Management
- Modeling and Simulation
- Transportation Operations
- Planning and Systems Analysis
- Transportation Security

Project	Description	Country or Region
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**Vehicle emissions planning for the US Agency for International Development in India.**

ORNL staff helped USAID, the government of India, and the Society of Indian Automobile Manufacturers establish emission standards for two wheel motorcycles.



**Transportation Infrastructure Investment Strategies for Rail, Highway, and Waterway Systems for the World Bank in Bangladesh.**

A benefit-cost model was developed to determine the most economically beneficial transportation investment strategies for Bangladesh.



**Joint Environmental Material Management Service for the Defense Logistics Agency in Okinawa, Japan**

Development of a distribution and disposal system for hazardous materials between different US military bases on Okinawa, Japan.



**Radioactive material transportation regulatory training in association with the IAEA in the People's Republic of China.**

ORNL staff worked with Ministry of Transport of the People's Republic of China to train staff in radioactive materials transportation regulations. Also participated in a number of shipping exercises.

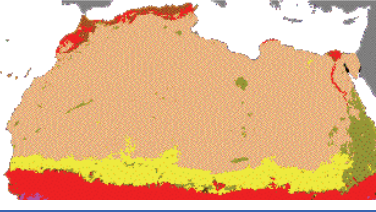





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<p>Famine Relief Transportation Planning in the Sahel region of North Africa for the US Agency for International Development</p>	<p>A team of researchers toured ports and land transport facilities to determine the best routes for the movement of food relief into the Sahel.</p>	
<p>Cocoa supply chain analysis for a confectionary manufacturer in Cote d'Ivoire.</p>	<p>A team of researchers toured cocoa farms, buying stations, bean exporters, bean processors, highway system, and ports in Cote d'Ivoire to assess the cocoa supply chain security, safety, and efficiency.</p>	
<p>US-Russian Materials Protection, Control, and Accounting program sponsored by the US Department of Energy.</p>	<p>ORNL is working with Russian scientists and security staff to implement security measures for the development of a sustainable secure truck and rail transportation system for nuclear materials.</p>	
<p>Management of disused highly active radioactive sources in the Ukraine for the US Department of State.</p>	<p>ORNL is modeling the transportation system that will be used to deliver disused highly active radioactive sources from their current dispersed locations to a centralized storage facility that is being constructed.</p>	
<p>New Zealand hazmat transportation regulation revisions.</p>	<p>ORNL staff provided input to the New Zealand Ministry of Transport on the revision of the hazmat transportation regulations for highway shipments.</p>	