



Supply Chain Analysis

ORNL has a staff with extensive experience in supply chain analysis and automated support for supply chain systems.

- provide increased value to the customer.
- Use of state-of-the-art supply chain software and technologies.
- Experienced staff focused on solving the customer's problems.

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

ORNL's Capabilities

- Optimization modeling for supply chain systems, including:
 - ⇒ Facility location analysis,
 - ⇒ Distribution network configuration,
 - ⇒ Reverse logistics, and
 - ⇒ Inventory levels and positioning.
- Integration of supply chain processes with RFID technologies for enhanced information exchange and in-transit visibility;
- Security analysis for supply chains; and
- Business case analysis to support the implementation of new technologies or processes.

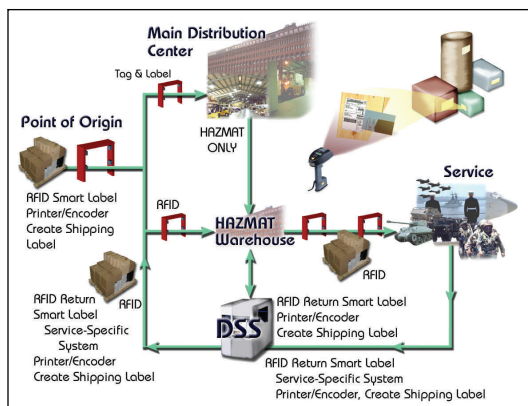
Experience

ORNL staff has worked with the Defense Logistics Agency to do an analysis of the supply chain operations of the Defense Distribution Center. The analysis included a review of suppliers, distribution centers, and customer locations and operations. The study reviewed the transportation operations between these facilities and the inventory levels at each distribution center. The results suggested revisions to inventory levels, transportation supply operations, and distribution center operations.

ORNL staff are also assisting the Defense Logistics Agency in the implementation of their RFID policy at the Defense Distribution Center locations. This effort has included the evaluation of commercial RFID tags, printers, and readers. It also involved the implementation of RFID readers at some of the distribution center locations to identify the RFID tags on shipments as they are off-loaded from the truck.

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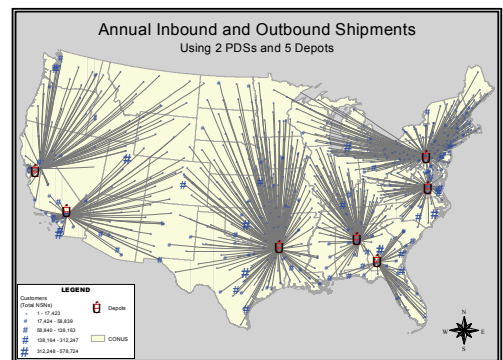
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Supply Chain with RFID Portals

ORNL's Comparative Advantage

- Knowledgeable staff who provide unbiased analysis and recommendations.
- Able to leverage our experience to



Distribution Center Location Analysis

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For more information regarding this research contact Glen Harrison, Center for Transportation Analysis, Oak Ridge National Laboratory, phone (865) 946-1312 or email harrisonig@ornl.gov.