

TRACK AND TRACE SUPPLY CHAIN

Impacts of a Tracking and Tracing System for Containers in a Port-based Supply Chain

Authors:

- **Jesús Muñuzuri**
- **Luis Onieva**
- **Alejandro Escudero**
- **Pablo Cortés**

This paper examines the benefits of implementing a low-cost tracking and tracing system for containers in port-based intermodal supply chains. The system enhances visibility, security, reliability, and efficiency by providing real-time information on container location and condition, which improves operational planning and reduces delays. While the system has clear operational advantages, the lack of historical data limits precise quantification of the economic benefits. The study highlights the competitive advantage it can provide to terminals and the potential for optimizing supply chain processes.

