Intermodal Transport: Laying the Path for Economic Development Opportunities

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Intermodal Transportation – Disney World?!?!?
Modal Optimization

Intermodal Transportation

- **General Definition:**
  - Freight movements using two or more transportation modes such as truck and rail or truck and oceangoing vessel.

- **Rail Specific**
  - Freight movements between truck and rail or oceangoing vessel and rail using:
    - 20’ or 40’ international containers on flatcars (COF)
    - 53’ domestic containers on flatcars (COF)
    - Domestic trailers on flatcars (TLOF)
Modal Optimization

Intermodal Strengths

- Seamlessly integrates road, rail and water transportation for truckload quantities
- Works best in markets with large concentrated volumes - inefficient in lower-volume markets
- Service is equivalent to or better than single-driver truck, averaging 400-700+ miles per day
Modal Optimization can best be defined as a shipping mode or mix of shipping modes that best fits a company’s shipping strategy. These modes often rely upon each other to help facilitate a complete and efficient transportation process.
Ocean Carriers and Barges

- Among the most fuel-efficient forms of surface transportation.
- Provide high-capacity transport capabilities, but restricted to the limited number of waterway routes.
- Lower unit costs.
Modal Optimization

Rail Transportation Service Products

- **Intermodal**
  - International Container
  - Domestic
    - Containers
    - Trailers

- **Carload**
  - Direct rail
  - Transload Services
    - Bulk
    - Dimensional
    - Warehouse
Modal Optimization

Trucks

- Flexible and reliable transportation mode
- Best suited for smaller, more time-sensitive shipments traveling shorter distances.
- Often used in tandem with trains through Intermodal service
- Increasingly safer transportation mode--
  - Total truck miles traveled up 42% over past decade, yet tragic accidents at a record low, having dropped 29%.
Modal Optimization

Air

- Fastest mode of shipping
- Well suited for high value, smaller, time-sensitive shipments
- Can be costly
Alliance Logistics Park
Modal Optimization

Cost Effectiveness of Shipping Options

Rail shipment provides the most cost-effective shipping option

Economies of Rail

COST

High

Low

SERVICE SPEED (Door-to-Door)

Faster

Steady

Carload

TOFC

COFC

Single Driver

Team Driver
U.S. Intermodal Volume Growth

Source: IANA