

# Transportation Research Board

CMTS Panel Discussion

June 27<sup>th</sup>, 2012

## What performance metrics do you find to be the most useful or insightful?

- EIA data – weekly
- USDOT
- Freight Commodity Statistics
- Investment House Data
  - Morgan Stanley
  - Thomson-Reuters
  - Macroeconomic and commodity forecasts & views
  - Railroad ([www.aar.org](http://www.aar.org)) performance
  - Trucking performance

## How are these performance metrics applied in your decision-making process?

- Order book planning
- Fleet optimization
  - Vessels
  - Crews
- Asset pre-placement

# What metrics related to commercial freight transportation would be useful to you?

- Tonnage
  - By commodity
  - By type of carrier
  - By type of asset (containers, trailers, etc)
  - Average tons per carload, barge, truck
  - Average tons per transit (train, tow, multi-trailer)
  - SMSA tons by commodity at origin and destination
- Empty moves (backhaul)
- Dwell or port time
- Avg. miles load to destination (pull ratios by carrier type)
- Avg. duration (load to unload)
- Efficiency per ton mile (gal/ton/mile)
- Pollutants per ton mile
- Tons (import and export) by port by commodity, by carrier type (e.g. rail, marine, truck)

# What metrics related to commercial freight transportation would be useful to you?

- Cost/other ratios
  - Employees per ton
    - Office worker
    - Field worker
  - Labor cost per ton
    - Wages
    - Full burden
  - Miles served by carrier
    - Track
    - River
    - Road
  - Injuries per ton mile
  - Taxes paid by ton mile, by type

## What metrics related to commercial freight transportation would be useful to you?

- Assets
  - Planned retirements by type
  - Planned builds by type
  - Engine overhauls/replacements by type
  - Quantity in service and capacity by type, by period (wkly, mthly, etc.)
  - Quantity not in service and capacity by type, by period (wkly, mthly, etc.)
  - Utilization rate of asset by % total available and % total

# What are the knowledge gaps in developing freight performance metrics?

- Industry wide standards
  - Nomenclature
  - Metrics
  - Cross carrier product ID standards
- Data from USACOE
  - Timeliness
  - Accuracy
  - Consistency across districts
- Historical data
  - River stages
  - Lock delays
  - Other delays

## **What performance indicators facilitate multi-modal freight movement?**

- Very little information is available
- Industry not yet mature to support multi-modal ?