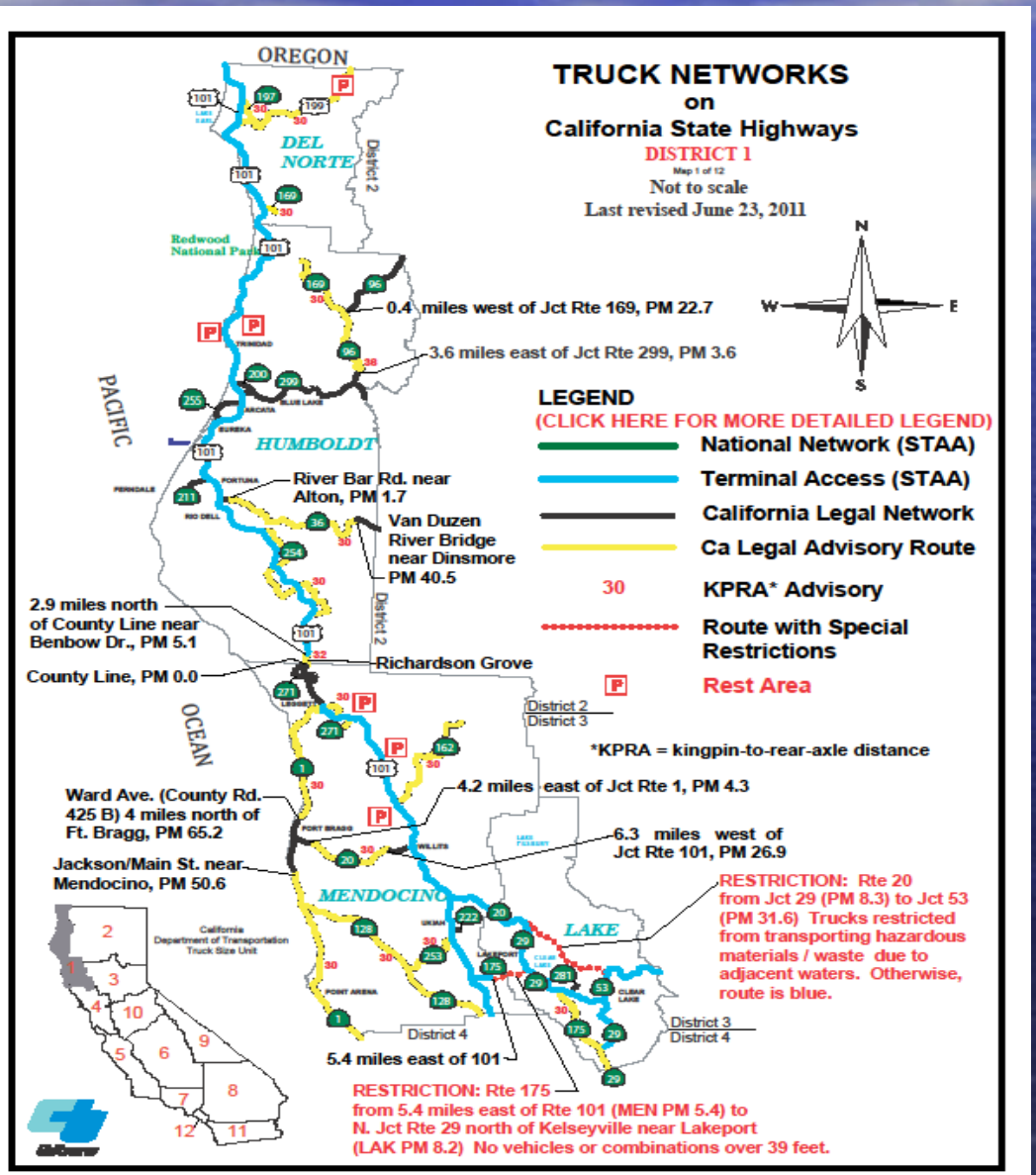
TRUCKING BY WATER

- HUMBOLDT-STOCKTON CONTAINER SHIP SERVICE
- REDUCING FREEWAY SPENDING IN CALIFORNIA
- A NEW, GREEN PARADIGM
- IMPACTING EMISSIONS, ROADS, JOBS, CONGESTION
- SAVING SHIPPERS MONEY

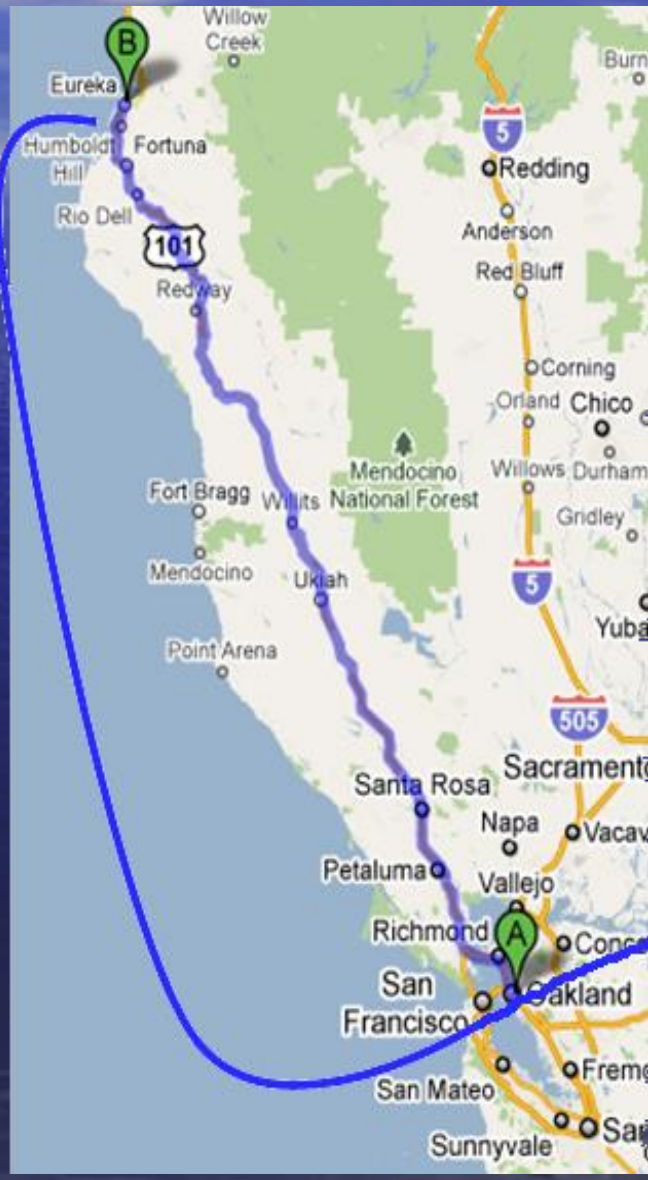
HOW SHIPS CAN REDUCE 101 HIGHWAY SPENDING AND SAVE CALIFORNIA BILLIONS*



*Willits ByPass =$300M

HUMBOLDT- STOCKTON CONTAINER CARRIER WILL REDUCE FUEL COSTS, EMISSIONS AND SAVE SHIPPERS MONEY

- One small ship can carry 120 truckloads per voyage and cost $30M
- The small ship carrying 120 containers can reduce trucking costs by 10%
- Emissions and fuel consumption are reduced by 66% versus truck
- Reduce future freeway project along #101



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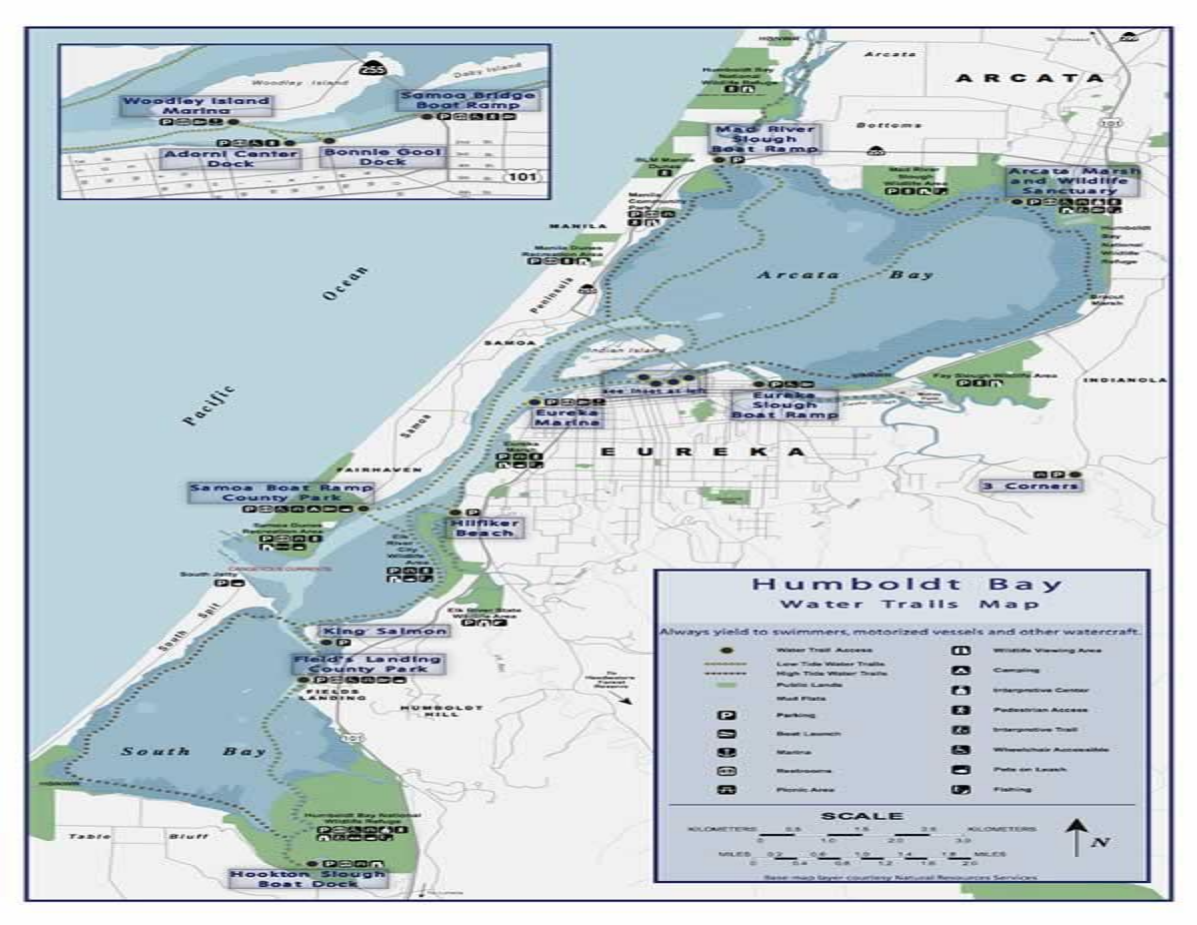
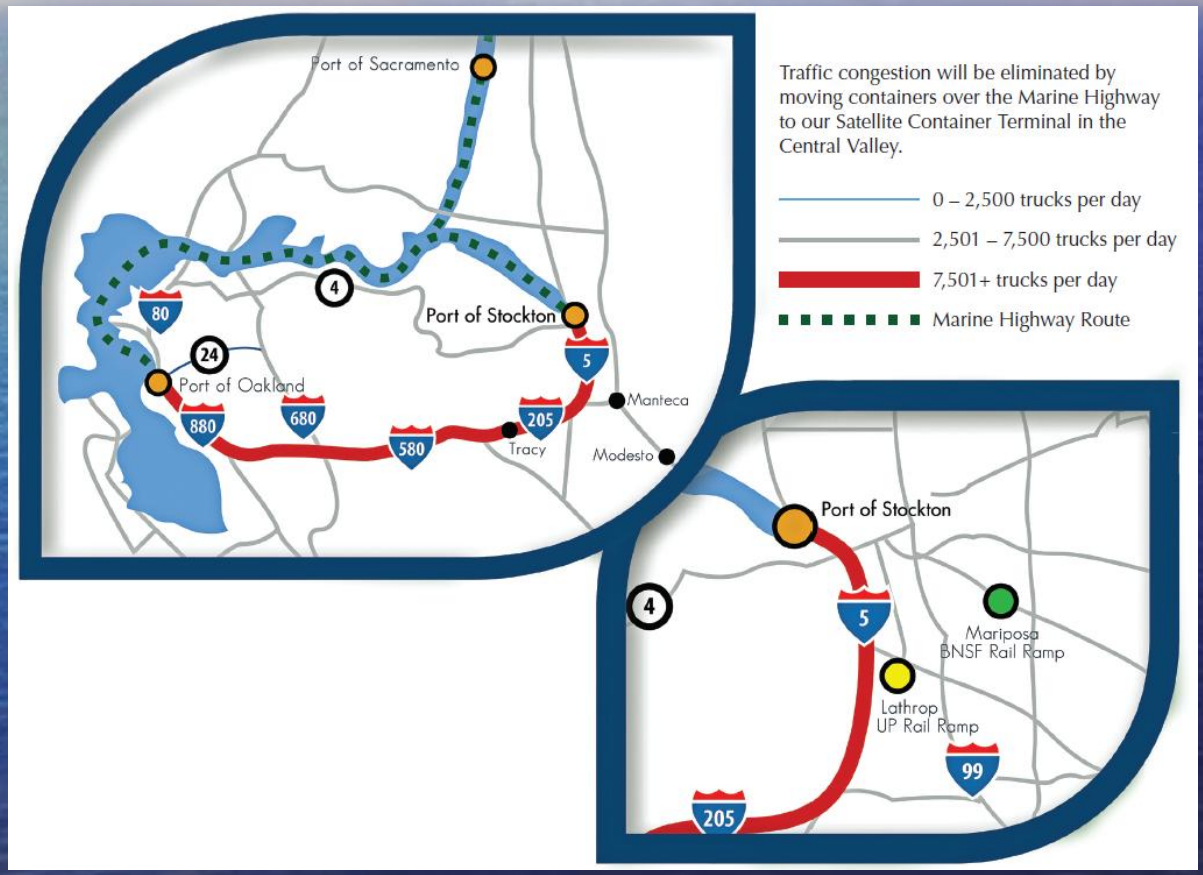
Humboldt Bay



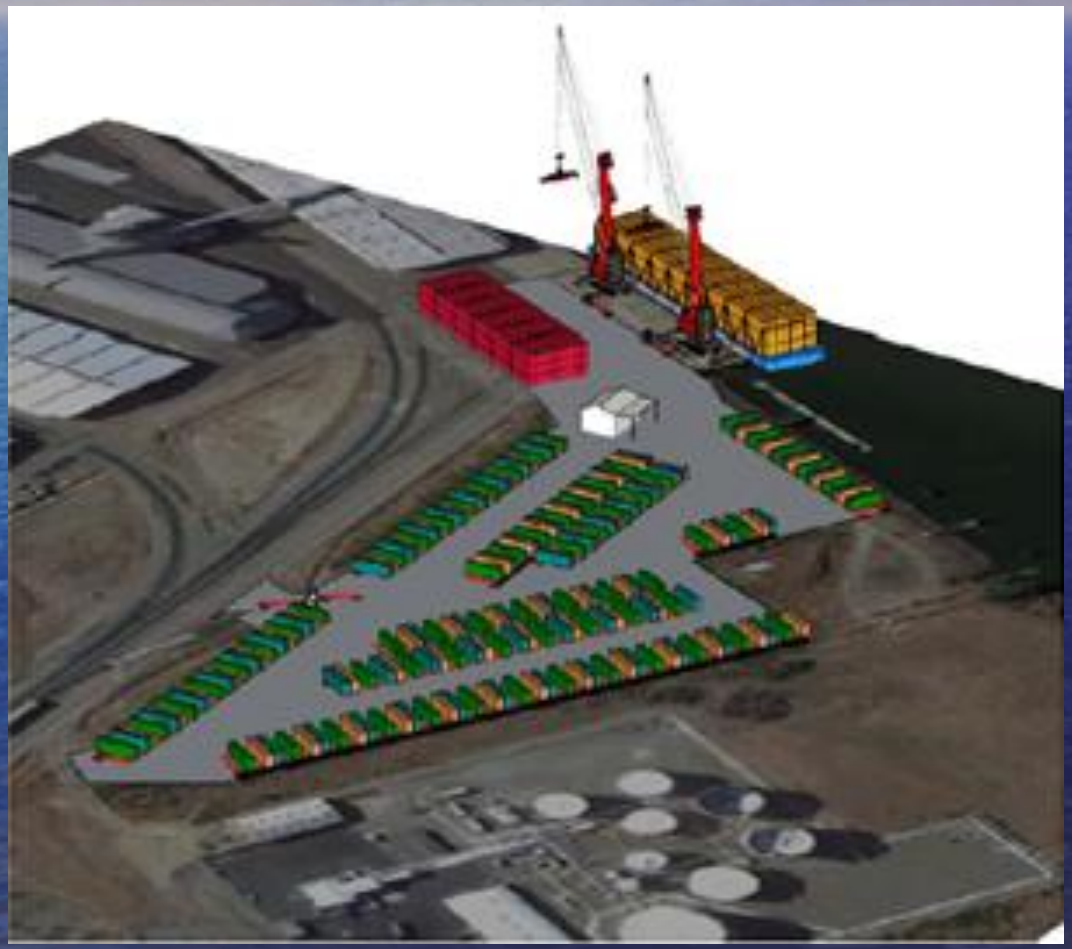
STOCKTON-OAKLAND M580

- Currently moving 70 truckloads per week via tug/barge projecting 200 by Fall
- Reducing truck emissions along #580
- M580 delivers one container = $335 versus truck = $450
- Stockton intermodal chassis/container yard optimizes equipment utilization & cost
- Stockton-Oakland = 75 miles
- Upgrades at Stockton include pier and 2 Liebherr mobile cranes

Stockton-Oakland M580

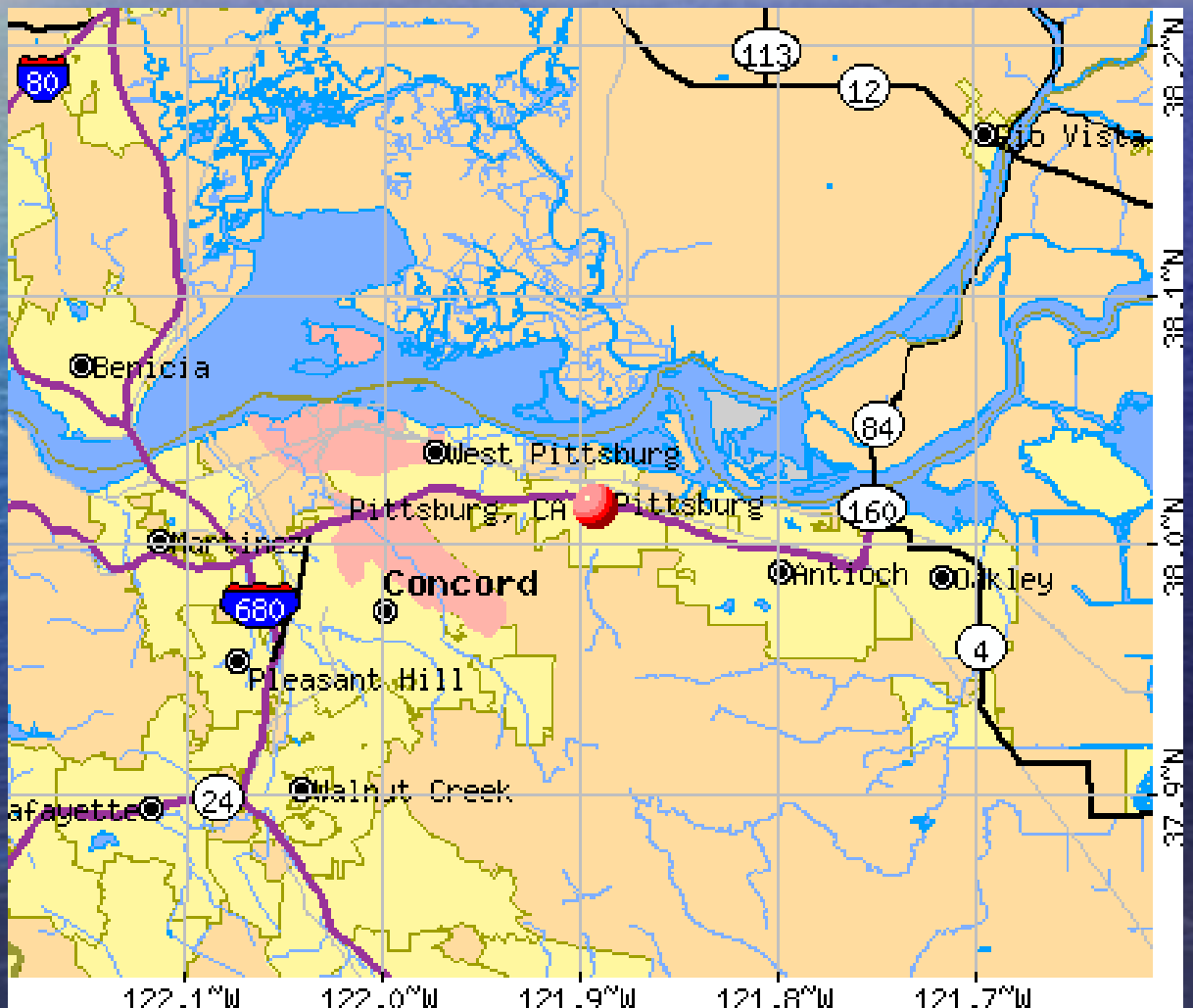


Stockton Container Yard



Humboldt Container Terminal Candidate: Fields Landing

Possible Shipyard Site: Pittsburg, Ca

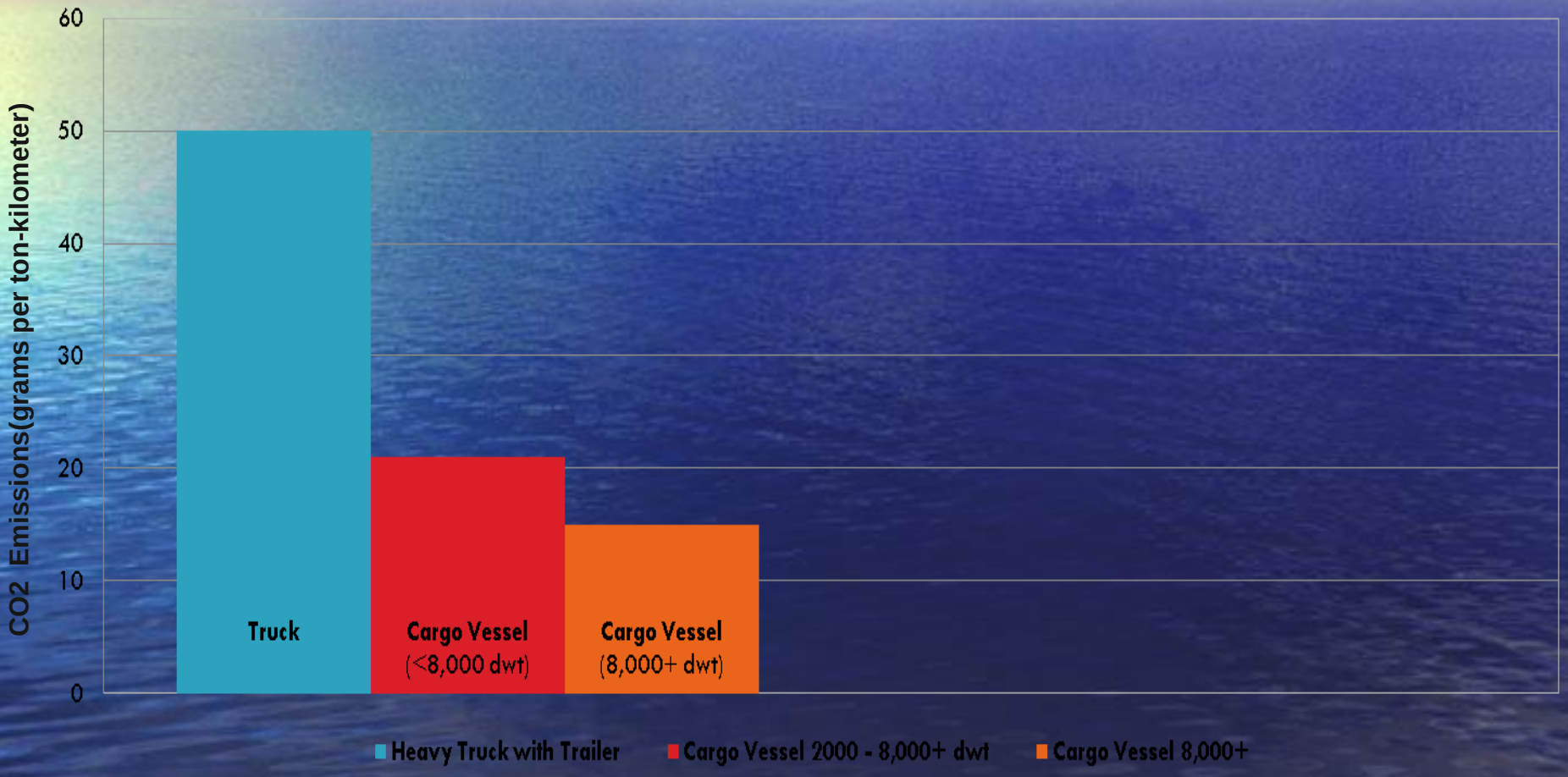


NEW SHIP DESIGNS

New ships will reduce fuel consumption & CO2 emissions by as much as 66%

CLEANER, FUEL-EFFICIENT LNG CONTAINER CARRIER

CO2 EMISSIONS: TRUCK VS. SHIP



** Source: International Chamber of Shipping (US Truck & Trailer = 26 tons maximum)*

HOW THE SHIP SAVES MONEY PER TRUCKLOAD HUMBOLDT-STOCKTON*

TRUCK= $1,500

SHIP = $1,100 (per container x 120)

* ESTIMATES BASED ON PROJECTED SHIP COST+HANDLING+TRUCKING+STOCKTON-EUREKA SAILING COSTS

TRUCKING IS BASED ON ROUND-TRIP +FUEL SURCHARGE JULY 2013

TRUCK TRAFFIC -STOCKTON*

FROM STOCKTON: 400 TRUCKS PER WEEK
FROM EUREKA : 200 TRUCKS PER WEEK
WEEKLY : 600 TRUCKS

*CONSULTANT ESTIMATES

IMPLEMENTATION

- Ports of Humboldt Bay & Stockton joint venture agreement
- Permits CEQA, etc.
- Financing of container terminal, estimated at $10M-15M + 2 Liebherr cranes =$9M
- Financing and shipbuilder RFP for container ship estimated at $30M
- Agreements for: ship operator, terminal, ILWU, logistics operator and sales

CONCLUSION:

- Reduced truck congestion on # 101
- Creates a twice weekly vessel service to Humboldt Bay
- Deploys clean diesel or LNG powered ship with 66% reductions in emissions and fuel consumption
- Creates new jobs in Humboldt Bay
- Creates new revenue for the Port of Humboldt Bay
- Creates new economic development opportunities
- Could eliminate up to 600 truck trips per week
- Reduces freeway investments such as Willits ByPass

FOR MORE INFORMATION

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