The Game Changing Environmentally Superior Alternative that Improves Air Quality with Zero Emissions Goods Movement
Global Trade’s 50 year solutions to increased container volumes

Thousands of acres in landfill development

Millions of increased freeway truck deliveries

Longer trains up to two miles in length

Vastly larger container ships and cranes
“Busier than it looks”

RAIL TRAFFIC CHOKE POINT

Near Dock Rail Yard
Intermodal Container Transfer Facility (ICTF)

ALAMEDA

710 FREEWAY

FREeways TRAFFIC CHOKE POINT ONLY
SOLUTION IS TO WIDEN

TRAIN
TRUCK

CONSOLIDATED FREIGHT SERVICE (CFS) FACILITY

OVER 6 MILLION TRUCK TRIPS EACH YEAR ON THESE FREEWAYS

CONSOLIDATED FREIGHT SERVICE (CFS) FACILITY

2 MORE On Dock Rail Yard

Terminal Operator (EXPANSION)
All top row logistics occur redundantly at 12 Container Terminals.

If not enough containers in yard to justify train delivery, a truck delivers.

Millions of Rail Container freeway trips for rail designated cargo each year.

Trains meet to be connected.

Trains fully built from Terminals.

Full Profiled Train Built for City Destination Train Turn Time from Port to Rail Terminal 36 – 42 Hours.
PORT MODERNIZED ZERO EMISSION CONTAINER SUPPLY CHAIN FOR CLASS I RAILROADS

Ship to SuperDock

With Rail Designated Containers

Fully Profiled Train Built for City of U.S. Destination

Train Turn Time from SuperDock Terminal to Railroad custody

2 – 4 hours
What happens when Alameda Corridor is over capacity?

Start thinking of expanding the GRID
Improved Logistics
Replacing the Freeway Trucking Component to the Container Supply Chain through Transshipment

ALAMEDA CORRIDOR
ZERO EMISSIONS RIGHT OF WAY (R.O.W.)

SUPERDOCK
SURFACE & UNDERGROUND FREIGHT PIPELINE

FEEDER TERMINALS
INLAND

FUTURE EXTENSION OPPORTUNITIES
6 Horizon Projects Combined
Estimated Costs; From $8 to $10.75B

- I-710 Widening Project  EST. $6.8B
- Union Pacific ICTF          $0.5B
- BNSF SCIG ICTF            $0.5B
- POLA Expansion            $1B
- POLB Mid-Harbor Project   $0.75B

ALL PROJECTS LINKED TO FUTURE CONTAINER TRAFFIC CAPACITY
The GRID SuperDock will reduce truck trips off of the freeways.

Most profound effects to Logistics results from the same electrified truck performing multiple deliveries due to the rapid turn time involving delivery because average distance of delivery has been reduced by over 80%.

Data from 2008 METRANS Project #07-01 “Integrating Inland Ports into the Intermodal Goods Movement System for Ports of Los Angeles and Long Beach”
Beyond GRID: Guideway Opportunities

Freight guideway opportunities using existing rights-of-way (ROW):
- Railroad corridors
- Under utilized freeway ROW
- Flood Control Channels
- Power Transmission Lines
- Combination of all the above
- No demolition of homes or businesses to build

ZERO EMISSIONS TRUCK DELIVERY ZONES
An additional freight guideway using pipeline construction

Cost –effective to build with similar costs to that of a Water Transmission Project in order to establish a 21st Century Green freight guideway when built along the river corridor.
GRID Project (Legacy)
Burial of Power Transmission Towers

Transferring overhead power lines underground yielding thousands of acres of So. California prime real estate for smarter land usage
Imagine beyond...
Questions/Comments

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Thank You