

The GRID system consists of:

- 1) the SuperDock™, a new Ship-to-Shore patent-pending platform designed to speed ship and train loading;
- 2) a 137-mile freight pipeline circuit underneath freeways to Los Angeles and the Inland Empire, allowing automated container trains, powered by linear electric motors, to operate "out of sight, out of mind" between the Ports and inland container terminals; and
- 3) strategically located "Feeder Terminals" designed to transfer containers between the freight pipeline and "last mile" truck deliveries to and from local warehouse clusters.

Each of these components is a new configuration of existing best available technologies.

See our video at: www.gridinc.biz

The GRID system benefits:

- Ship loading and unloading: reduced vessel dwell times by up to 75% for all ships.
- Train processing: reduced Class 1 train discharge/load-back time by up to 90%.
- The pipeline and hub-and-spoke truck feeder terminals will reduce regional port-related highway truck traffic by up to 70%. Remaining truck fleets performing last mile delivery can be electric or natural gas.
- San Pedro Bay (SPB) will become the fastest, most attractive port in the world for handling all ships, including 18,000+ TEU ships (too large for the enlarged Panama Canal). This will reverse the downward trend in SPB container freight volume.
- GRID system will allow SPB container freight volumes to double without requiring any freeway expansion.
- System will be built separated from and without interfering with existing port, rail, or highway traffic.
- Total project cost estimated at \$18B, and will be self-financing with no new taxes or increased transportation costs. Estimated time to complete project from shovel to ground - 6 years.
- Half (~2500 acres) of SPB port property will be released from existing terminal leases and available for new developments.
- Freight pipeline system is expandable and suitable for non-port-related SoCal freight.
- Assuming the project takes 6 years to build at an annual cost of approximately \$3B, it is estimated* an additional 51,000 jobs would result. Following construction, transportation costs for all goods flowing through SPB will be lower and the reliable speed of goods movement faster.
- The totally electric system will virtually eliminate local port-related air pollution.
- At full deployment, the system will create a net increase of current job numbers for the Longshoremen at ILWU.



New Port Complex requires half the land area (in blue) currently utilized by the separately operating ports of Los Angeles and Long Beach



137-Mile Freight Pipeline Route. Pipeline feeder terminals are the Green dots. Blue dots show port related consolidation warehouse clusters.

GRID System Endorsed by: Sierra Club, LiUNA, LA/OC Building Trades, Teamsters, Inland Empire Building Trades, and the International Union of Operating Engineers.



* Robert Pollin & Heidi Garrett-Peltier, "The U.S. Employment Effects of Military and Domestic Spending Priorities: An Updated Analysis", University of Massachusetts-Amherst, October 2009.