

TREDPLAN-Ports

Helping Airports & Seaports Prepare for Global Changes

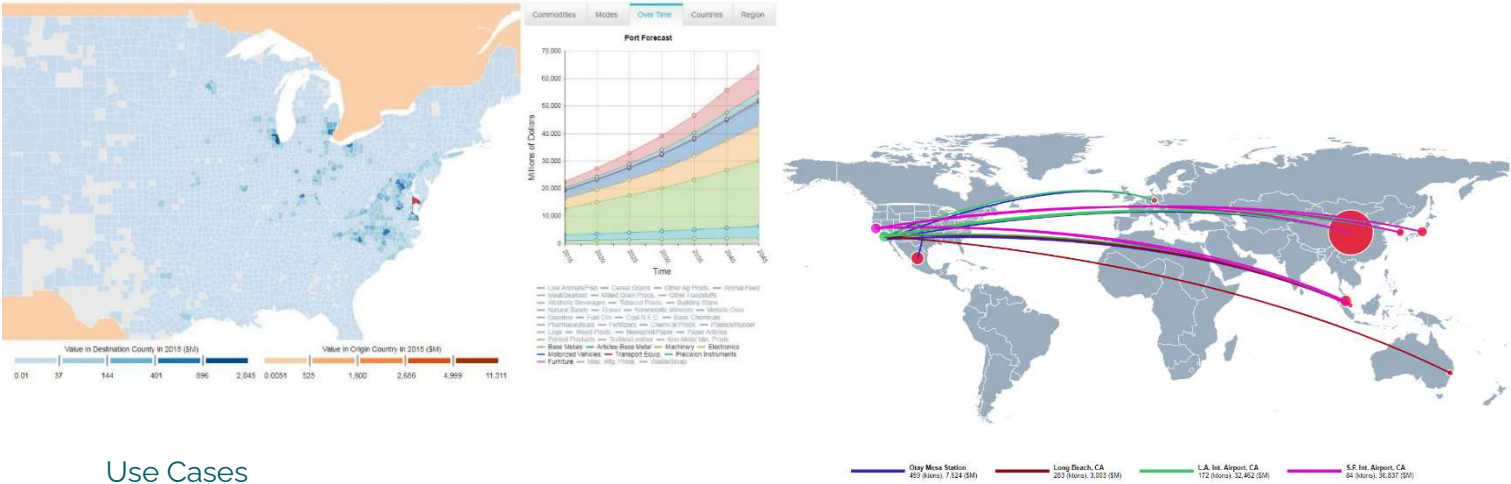
TREDPLAN-Ports™ - Enables an airport or seaport to assess how its freight markets and competitive position will be affected by future changes in the economy, technology, climate and trade.

What can TREDPLAN™ do for your airport or seaport?

- Evaluate vulnerability risks and opportunities for your port, as industries and markets change over time.
- Compare your port to competitors and peers to identify your market position in contested markets.
- Assess how your port's freight markets may change in the future relative to those of competitors and peers.
- Assess your port's relative reliance on various domestic and international trading partners.

Future Scenarios

- Economic Shifts
- Global Trade Shifts
- Technology Change
- Climate Change



Use Cases

- Strategic capital investments
- Coordinating port and area economic development
- Resiliency and risk analysis

Three Versions of TREDPLAN

TREDPLAN-Ports™ Select an air or seaport and assess future shifts in its markets, competitiveness and growth opportunities.

TREDPLAN-Regions™ Select a planning region and assess future shifts in its economy defining future commuter and freight flows.

TREDPLAN-Economy™ Select an economic region, and assess changes in labor, energy and facility investment needs.

TREDPLAN Elements

Areas Covered - TREDPLAN scenarios are generated for all US international airports and seaports, as well as US counties. Customers specify their port of interest. TREDPLAN is configured to identify ports elsewhere in the US that serve similar domestic and international markets and then assess the effect of future scenarios on the port of interest relative to the competing or peer ports.

Scenarios. Use our preset scenarios to 2050, or develop your own:

Economic Trend Scenarios:

- Economy: recession, slump, severe cycles
- Exchange rate shifts - dollar rise or crash
- Energy price shifts - oil and electricity prices

Trade Scenarios

- Tariffs and embargoes for commodities, countries
- Port closures (temporary and long-term)
- Transport fuel and operating costs

Climate Change Scenarios

- Changes in heating and cooling degree-days
- Incidence of tornados, floods and costs
- Sea level rise, air or marine port closures

Technology Change Scenarios

- Energy costs, heating and cooling efficiency
- Autonomous and Connected truck fleets
- E-commerce and supply chain processes
- Education and technology adoption

Outcomes. TREDPLAN can graphically and visually portray effects of alternative future scenarios on:

Facilities

- Terminals - airports, marine ports, intermodal rail
- Connecting ground access corridors - road, rail

Competitiveness and Operating Costs:

- Market shares for international gateways and terminals by commodity and origin/destination
- Market growth/decline relative to competing ports
- Changes in energy and shipping costs
- Market vulnerabilities and opportunities

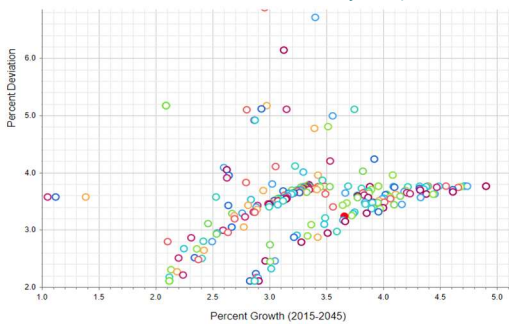
Freight

- Change in demand by origin/destination and mode
- Change in demand by value and tonnage
- Change in demand by TEUs, truckloads

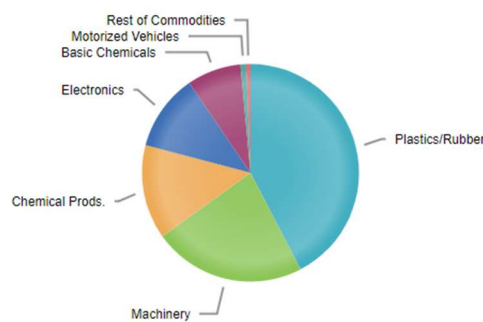
Economy

- Growth/decline in GDP, employment, wages by industry, occupation and area

Port Growth & Volatility (Exports)



Future Growth in Commodity Share



Trading Partners

Country	2015 (\$M)	2045 (\$M)	Delta (\$M)	Percent (%)
Argentina	0.5	1.74	1.24	246.76
Australia and New Zealand	94	323	229	244.25
Brazil	0.47	1.66	1.19	252.35
Canada	0.00034	0.0019	0.0016	461.05
Caribbean	0.041	0.14	0.099	243.76
Central Asia	0.25	0.62	0.37	150.73
Chile	0.62	1.98	1.36	218.62
China	447	1,628	1,181	264.37
Colombia	0.0075	0.02	0.012	160.61
Eastern Africa	0.049	0.12	0.073	151.27

Ports Competition



View future port market shifts under alternative scenarios using our visual querying platform. See something interesting? Just click to learn more.

Answers Questions like:

- Where are our customer markets?
- What is our market share (by value/tonnage)?
- What is our gateway's role in the regional economy?
- How will our market share change as the economy changes?
- How will economic change affect our growth (by commodity and/or market segment)?

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