

The background of the slide features a hand in a white shirt cuff pointing upwards. The background is a collage of financial data visualizations, including line graphs, bar charts, and a world map, all in a light blue and white color scheme. The overall theme is business and finance.

# TREDPLAN-Regions

*Gain the Competitive Advantage  
Using TREDPLAN-Regions*

July 2018

# The TREDPLAN Concept

**Global economies** and technologies are changing



**These factors** can create gain & loss possibilities for ports & regions



**The stakes** for infrastructure investment are significant



**TREDPLAN** assesses a facility or region's relative future position

# A Unique Tool for Future Planning

## Scenario Planning Process:

Address factors that we **can** affect,  
via planning + investment decisions



*Impact models (TREDIS)*

## Future Planning:

Address factors we **cannot** affect,  
which are driven by external factors.



**TREDPLAN**

# TREDPLAN Products

1. PORTS (international trade)  
(freight: airports, seaports, trans-border facilities)

## **2. REGIONS**

(freight: states, metro areas, multi-state regions)

3. ECONOMY – Coming Soon!  
(workforce and business development)

## What TREDPLAN-Regions Can Do

1. Understand composition and drivers of **regional economic growth**
2. Identify and **compare regional competitors**
3. Assess how **your freight markets** will shift in future
4. Assess your relative **reliance** on domestic and international trading partners
5. Evaluate your **vulnerabilities and opportunities** relative to competitors (as your industries and trading partners change over time; as alternative futures are considered)

### TREDPLAN Metrics:

- Tons
- Value \$
- Modes
- Industries
- Commodities
- Domestic (*counties*)
- International (*countries*)
- Gateways (domestic)
- Risk/volatility

# How does TREDPLAN work?

## 1. Data

- US county level database of industry-economy behavior
- Cross-border commodity flow patterns by mode
- International trade by mode, gateway, country, domestic county
- Global macro-economic predictions to 2045, with alternative futures

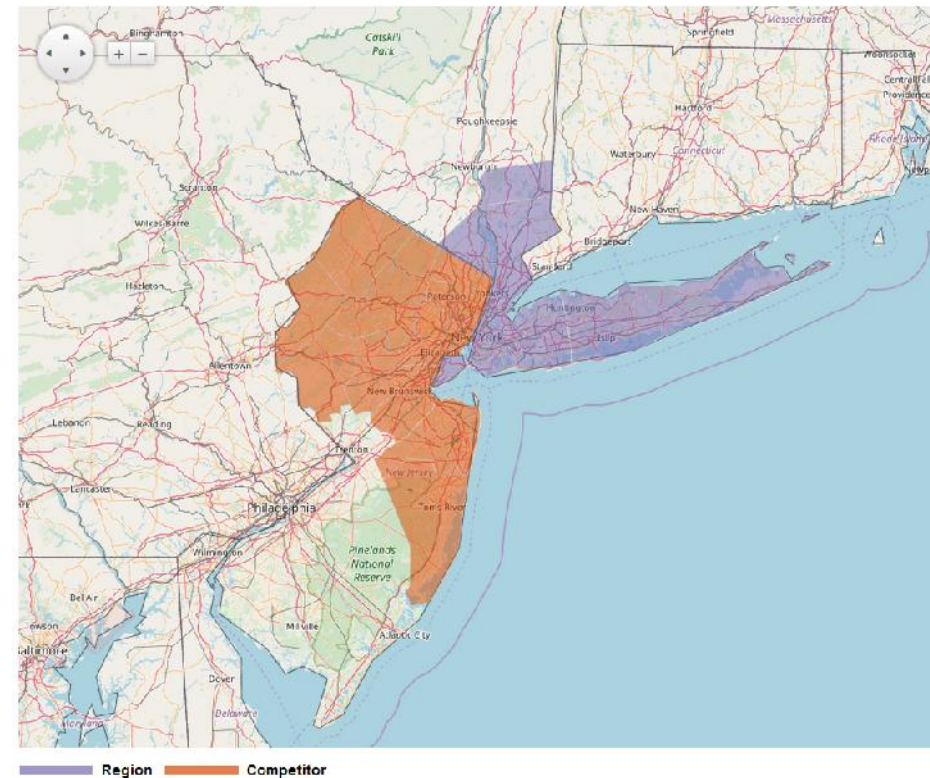
## 2. Analysis

- Shifts in future growth by industry, US county or foreign country lead to changes in production, selling and purchasing levels
- Model allocates origin-destination, mode & gateway activity patterns
- Recursive database search identifies peers/competitors sharing industry, origin and destination patterns
- Visualization/Analysis engine displays relative opportunity/risk effects

# Today's Demonstration



- Approach: freight plan use case
- Show composition of your region's economy and what is driving economic growth
- Based on economic growth, what is the change in composition of freight activity



## Region

- Delaware County
- Dutchess County
- Erie County
- Essex County
- Franklin County
- Fulton County
- Genesee County
- Greene County
- Hamilton County
- Herkimer County
- Jefferson County
- Kings County
- Lewis County
- Livingston County
- Madison County
- Monroe County
- Montgomery County
- Nassau County
- New York County
- Niagara County
- Oneida County
- Onondaga County
- Ontario County
- Orange County
- Orleans County
- Oswego County
- Otsego County
- Putnam County
- Queens County

## Competitor

- NEBRASKA Counties
- NEVADA Counties
- NEW HAMPSHIRE Counties
- NEW JERSEY Counties
  - Atlantic County
  - Bergen County
  - Burlington County
  - Camden County
  - Cape May County
  - Cumberland County
  - Essex County
  - Gloucester County
  - Hudson County
  - Hunterdon County
  - Mercer County
  - Middlesex County
  - Monmouth County
  - Morris County
  - Ocean County
  - Passaic County
  - Salem County
  - Somerset County
  - Sussex County
  - Union County
  - Warren County
- NEW MEXICO Counties
- NEW YORK Counties
- NORTH CAROLINA Counties
- NORTH DAKOTA Counties

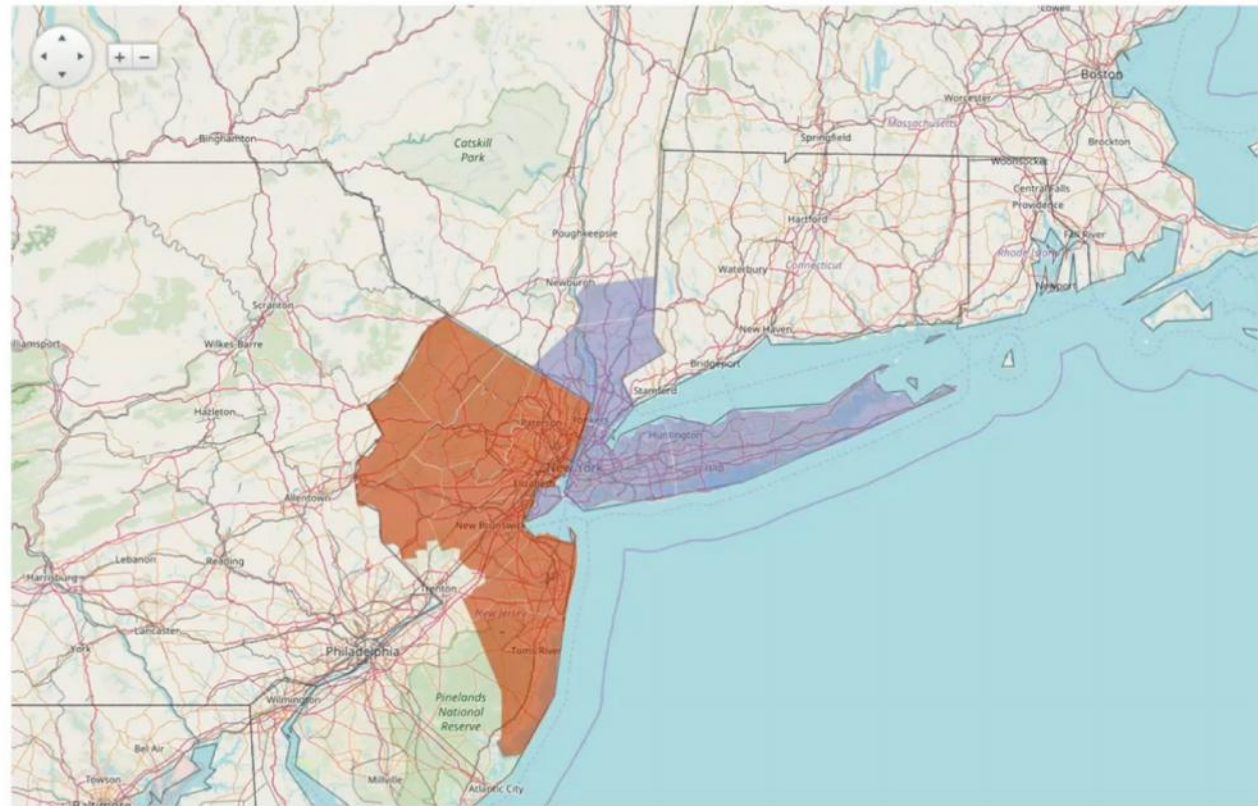
COLLAPSE ALL

MAP IT

Default Moody's Forecast

- Optional First Alternative Forecast -

- Optional Second Alternative Forecast -



Region Competitor

SAVE AND BUILD

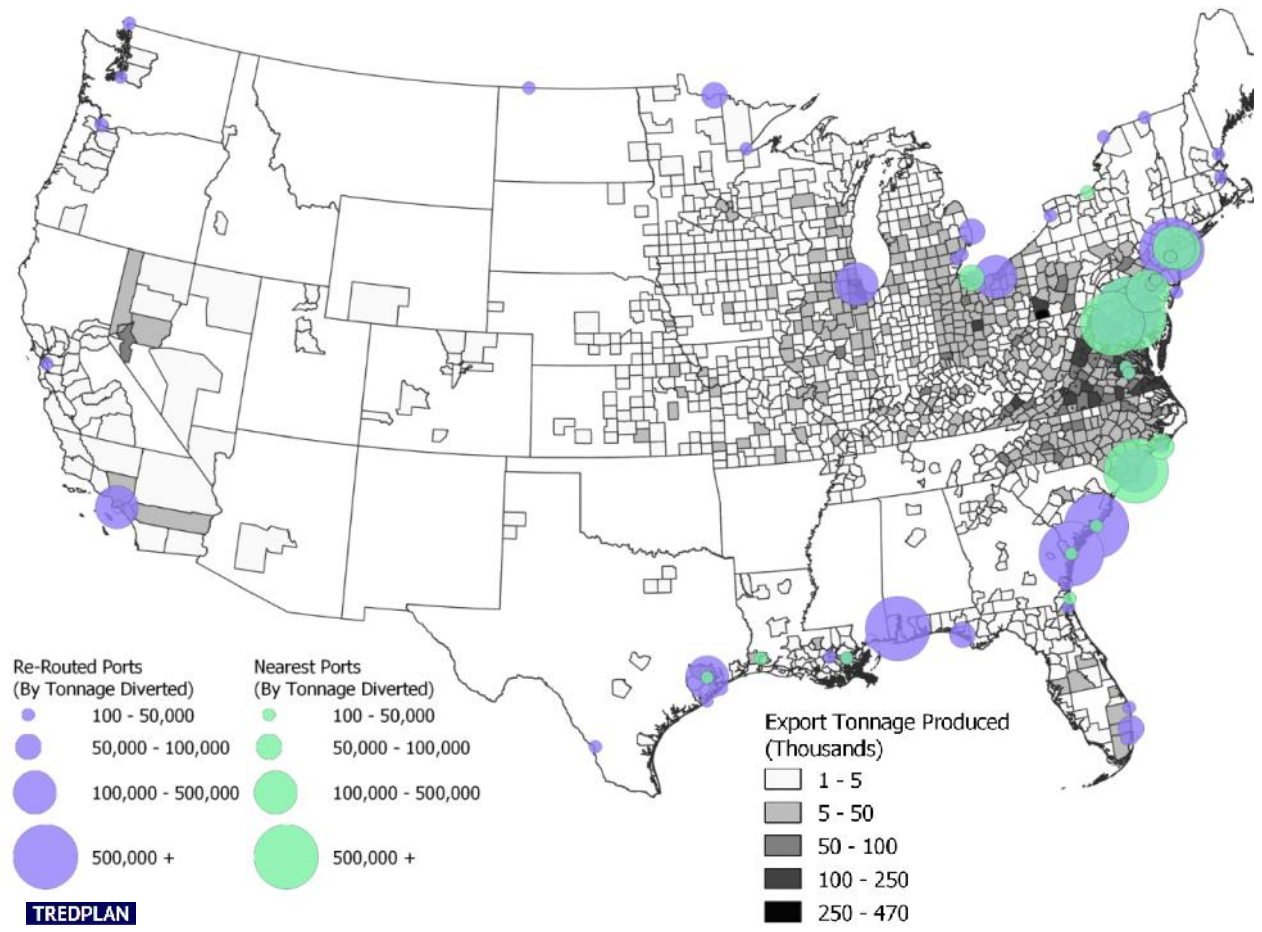


## Wrap-Up

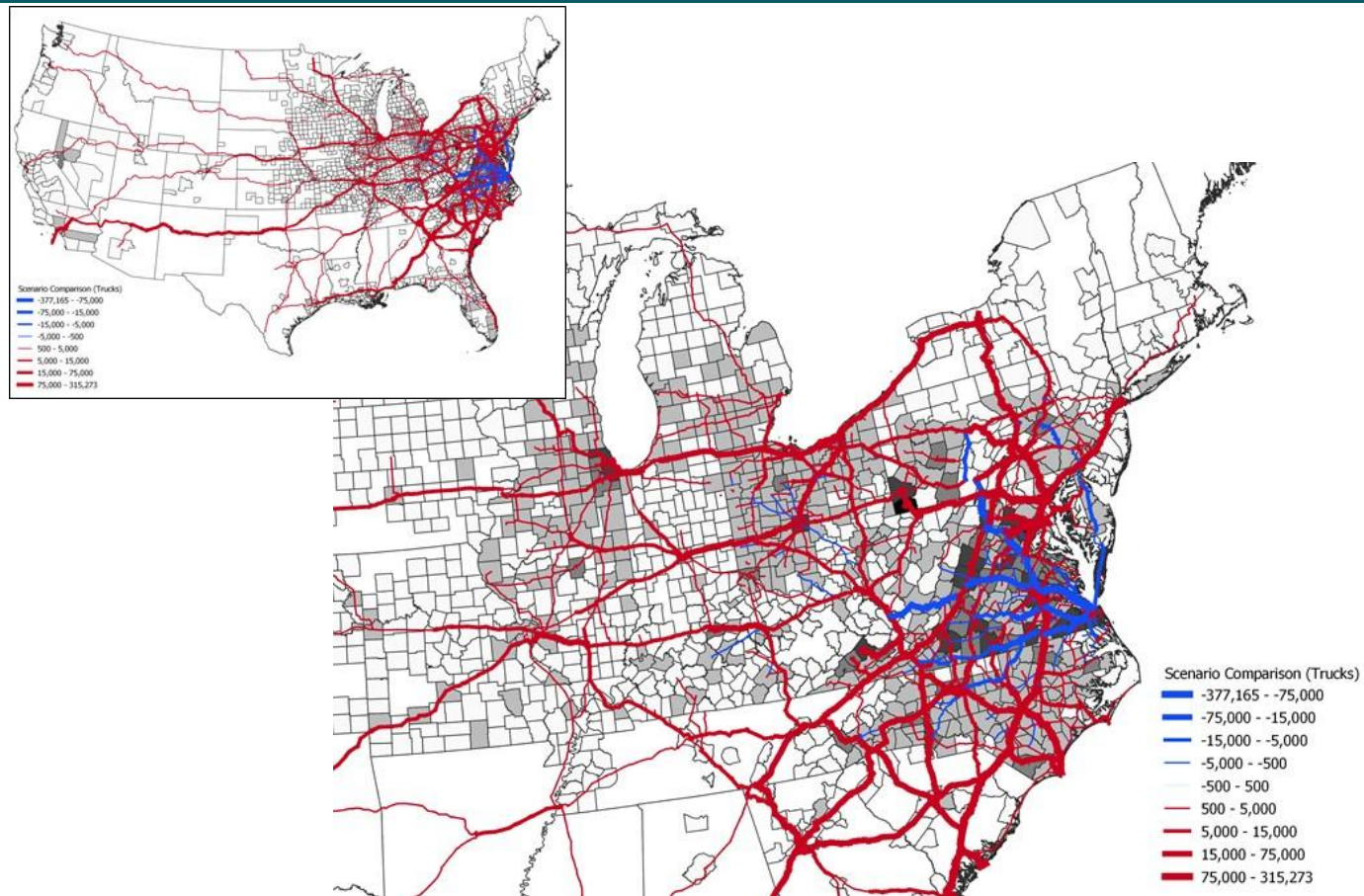


- **TREDPLAN-Region demonstration revealed:**
  - Composition of economy and economic growth
  - Drivers of economic change and relative strengths of NYMTC MPO
  - Changes in the freight market driven by economy
  - Regional points of competition and differences in supply chain
  - Sub-regional freight composition

# Affected Ports and Regions



# Implications for Highway Freight



Source: TREDPLAN with FAF Network

# Questions?



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