New Jersey: The Distribution State in the Leading US Distribution Region
NYMTC Multi-State Freight Working Group
November 2017
A voluntary agreement between nine metropolitan planning organizations (MPOs) and councils of governments (COGs) in four states which acknowledges:

- Socio-economic and environmental interdependence, as evidenced through shared ecosystems, interconnected transportation systems and inter-related patterns of employment and population; and

- That the members are within or are adjacent to a federally-designated Transportation Management Area (TMA) and together constitute one of the nation's largest travelsheds.
Federal Requirements

- The MAP Forum constitutes a multi-state, multi-party agreement which addresses:
  - The requirements of 23 CFR 450.314(d); and
  - Compliance with other relevant provisions of the Fixing America’s Surface Transportation (FAST) Act (Pub. L. No. 114-94)
The MAP Forum ensures coordination in the development of the mandated planning products, as well as:

- Ensuring that the products of each respective member take into account the impacts of the plans and programs developed by the others;
- Helping to avoid duplication of effort;
- Reflecting consistency of approaches where possible; and
- Ensuring the consideration of the interests of all participating members.
Expanded Membership and Partnership

• New member organizations
  – Lehigh Valley Planning Commission (PA)
  – Orange County Transportation Council (NY)
  – South Central Regional Council of Governments and Lower Connecticut River Valley Council of Governments (CT)

• Partner organizations
  – South Jersey Transportation Planning Organization (NJ)
  – Delaware Valley Regional Planning Commission (NJ & PA)
  – Southeastern Connecticut Council of Governments (CT)
New Jersey is the Distribution State

- 814 million square feet of industrial space in NJTPA area, with nearly 8 million under construction.
- Largest Port on the East Coast – 6.3 million TEUs in 2016.
- Robust Rail Freight Network – 2 Class Is, Conrail, shortlines.
- Extensive Roadway Network
- Newark Liberty International Airport – 11th largest in the US
In the NJTPA region:
- Over 100 million SF of industrial space added since 1998.
- Over 20 million SF added since the Great Recession of 2008.
- 15 new buildings added alone in 3Q17.
- A near zero availability rate.
- Some asking lease rates now at $14.00/SF triple net.
Examples in the NJTPA region:
- Wenner Bakery
- Fratelli Beretta
- Damascus Bakeries
- Blue Apron
- Hello Fresh
- AeroFarms
In 2016, the region’s maritime facilities handled:
- Nearly 6.3 million twenty-foot equivalent containers (TEUs).
- Close to 663,000 vehicles.
- Nearly 47.4 tons of bulk cargo.
- Nearly 140,000 tons of breakbulk cargo.
- 260 cruise vessels.

In 2017:
- Bayonne Bridge Clearance Project completed.
- Neo-Panamax vessels immediately start calling.
The Port Industry as an Economic Generator

- 229,000 direct jobs
- 400,000 total jobs in the Region
- Over $25.7 billion in personal income
- More than $64.8 billion in business income
- Close to $8.5 billion in federal, state and local tax revenues, with local and state tax revenues of over $2.8 billion and federal tax revenues of over $5.7 billion

What Keeps Supply Chain Professionals Up at Night? – 2017 Update

- Managing the challenges of a rapidly evolving retail environment.
- “Just in Time Just Isn’t Fast Enough.”
- Maintaining operations and supply chains through disruptive events.
- Having sufficient assets and capacity with growing workforce shortages.

Randall Park Mall:
Source: http://news.yahoo.com/photos/abandoned-mall-that-was-once-the-largest-in-the-world-1421355579-slideshow/
The Rapid Evolution of Retail

- Reshaping Demand
- Reshaping Expectations
- Reshaping Facility and Land Uses
- Reshaping Delivery

Randall Park Mall
http://news.yahoo.com/photos/abandoned-mall-that-was-once-the-largest-in-the-world-1421355579-slideshow/
The Changing Last Mile of Retail

Origination Point
- Fulfillment Center
- Brick and Mortar Store

Transportation Modes & Providers
- Uber-Style: Amazon Flex
- Established Players: FedEx
- New Players: Google/BN
- Example: Target/Curbside
- New Modes

Customer Goes to Store
- Buy Online, Pick Up in Store

Customer Residence or Office

Alternative Destination Point
- Automated Package Lockers
- Alternative Transportation Provider Location
- Alternative Customer Location

Photo sources: A. Strauss-Winder, Inc. (Amazon), Reuters (Target), BarnesandNoble.com, Curbside, Yelp (UPS), DHL, Google, UPS, USPS, FedEx, Gewekwice (Amazon packages), NY Times (Amazon packages), Home Depot, Amazon, YouTube (brands). NJTPA, NBC News
The Changing “Mid-Mile”
Fulfillment Centers and Emerging Workplaces – More Associate Parking and Accessibility
Interior Functions
Advanced Technologies: Destination Maternity
Advanced Technologies: Destination Maternity
Emerging Equipment, Technology and “Disrupters”

How a blockchain works:
1. A wants to send money to B
2. The transaction is represented online as a 'block'.
3. The block is broadcast to every party in the network.
4. Those in the network approve the transaction is valid.
5. The block then can be added to the chain, which provides an indelible and transparent record of transactions.
6. The money moves from A to B.

Sources include Anne Strauss-Wieder (NJTPA), Volvo, Amazon, Daimler, Novartis, Bocusini
Examples of NJTPA Freight Initiatives

- NJTPA’s Freight Initiatives Committee
- Subregion Outreach and Field Visits
- Inventory & Assessment of Waterborne Resources
- Freight Rail Industrial Opportunity (FARIO) Corridors Program
- Pilot Freight Concept Development Program
- Member, Council on Port Performance

Get a New Truck
Grants Available to Eligible Truck Owners to Purchase Newer Vehicles
NJTPA Freight Activity Locator

Try the Freight Activity Locator Tool at [http://www.njtpa.org/freight](http://www.njtpa.org/freight)
The Take Away – The Transforming Context

- Follow the consumer and demand parameters
- Track new technologies and disrupters
- Identify and engage new service providers
- Identify considerations and opportunities
- Go out in the field constantly
- Actively involve the private sector

*The Supply Chain is ever evolving.*
Thank You

Defining the Vision. Shaping the Future.

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