

# COVID-19 and the Supply Chain

MAP Forum Annual Meeting  
December 2020



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# Functional Disruption Tools and Phases

- Toolbox: Coordinate, Collaborate, Communicate
- Phases: React, Retool, Renew



# COVID-19 as a Supply Chain Disruption

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## **Abrupt Increases in Demand**

Examples: Personal Protection Equipment, Cleaning Supplies, Food, Household Items, Ecommerce Provision

## **Sharply Decreased Demand**

Examples: Restaurants and Office Building Supplies, In-Store Retail

# React: Keep Critical Goods Flowing

- Pivot to manage changing product demands and supply chain issues.
  - 94% of the Fortune 1000 companies experienced supply chain issues in February 2020
- Adjust to changing equipment capacity while anticipating future surges.
  - Port of NY/NJ “Blank Sailings” – 25 in June 2020 and 19 in July 2020
- Keep the workforce safe and healthy.
- Enhance information systems connectivity



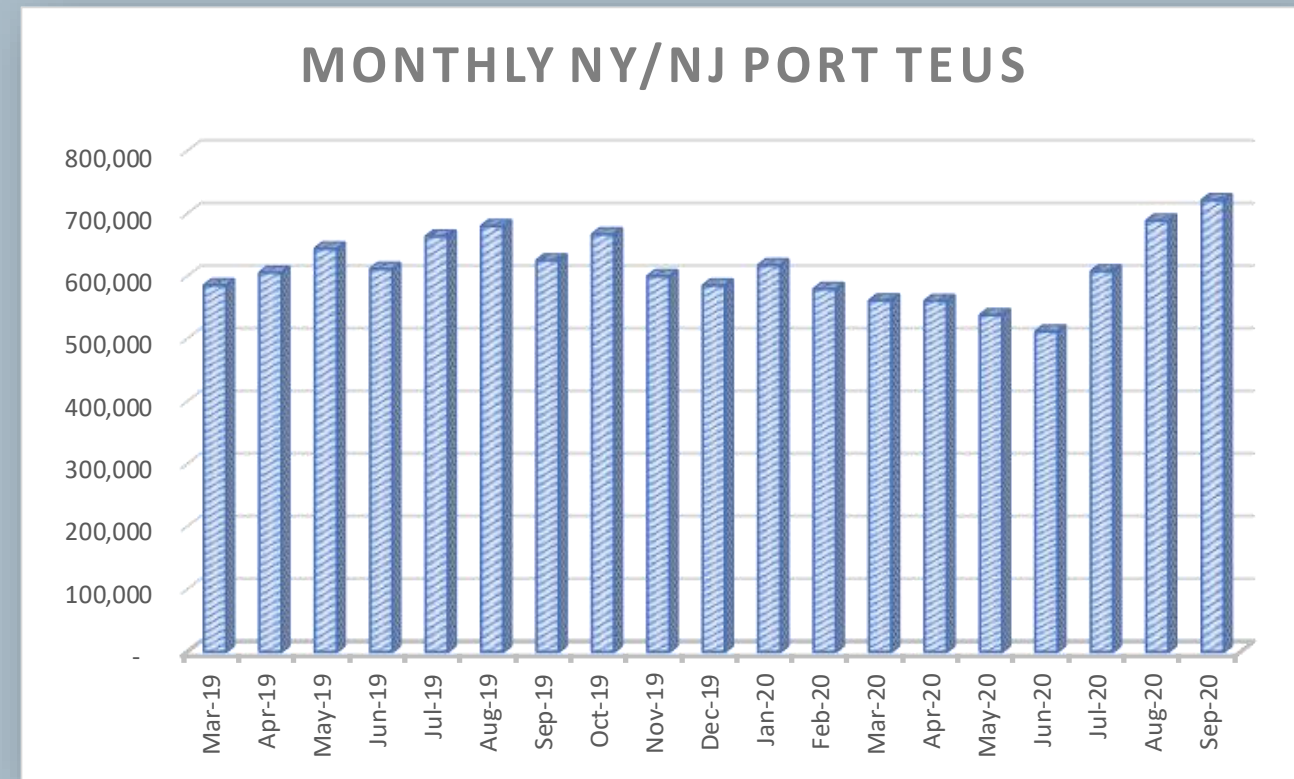
# Collaborate, Coordinate, Communicate

- Activate and/or form public/private sector teams.
- Proactively and immediately address freight movement issues.
- Identify and address the range of resident and business needs.
- Understand and address the multi-state considerations and issues.



# Reboot: The Intermediate Phase

- Assess Operations:
  - Customer needs, suppliers, production facilities, distribution facilities, transportation, information systems
- Manage Changing Freight Flows
- Ensure Workforce Health



# Renew: Context Changers

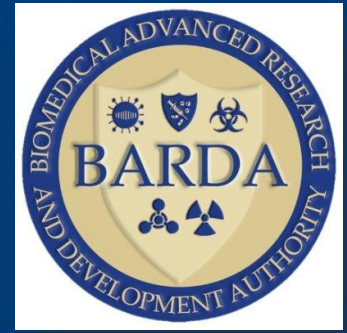
- Increased ecommerce and “buy online pick up in store” (BOPIS)
- Increased online grocery store sales



Source: Forbes



# Renew: Production Facility and Supplier Shifts



## Biomedical Advanced Research & Development Authority Grants:

- \$117M — needles & syringes (Retractable Technologies, Inc; Becton, Dickinson and Company; and Smiths Medical, Inc)
- \$204M — glass tubing and vials (Corning Pharmaceutical Technologies and Corning Incorporated)
- \$143M — high performance glass/plastic vials (SiO2 USA)
- \$49M — sterile injectable drug products (Thermo Fisher Scientific)
- \$700,000 — continuous manufacturing process platform (Snapdragon Chemistry)



# Renew: Context Changers

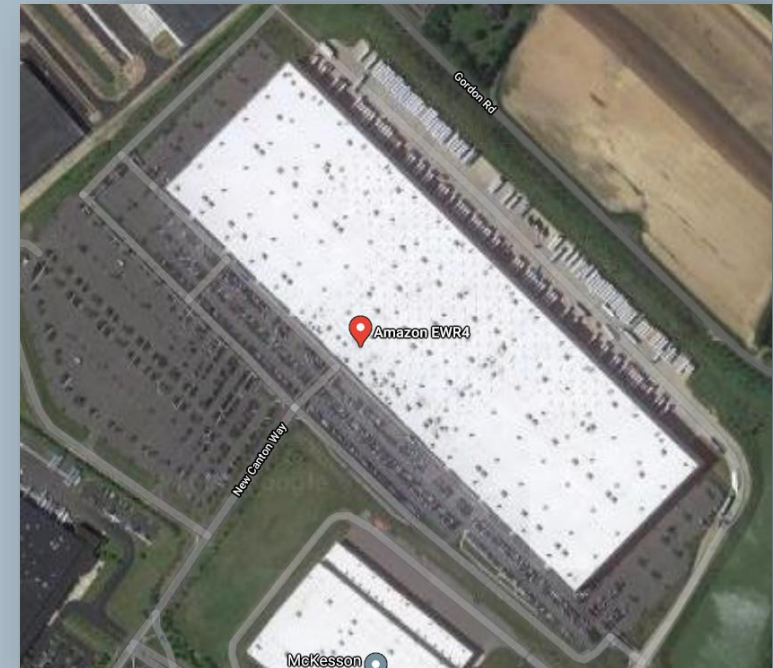
- Shift to having more inventory
- Increased importance of information technologies
- Continuing workforce shortages
- Enhanced deployment of automation



Source: Joliet Herald News

# Implications for the Region

- Pursue potential new production operations
- Anticipate more industrial space requirements
- Address workforce needs and accessibility
- Continue to optimize the multimodal freight system
- Proactively address information and automation technologies requirements



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