Freight Supply Chain Resilience Study
Hillsborough TPO ITS Committee Meeting

July 14, 2022
**Study Purpose**

Identify key supply chains in Hillsborough County and how they could be impacted or disrupted under certain disaster scenarios. The study will:

- Map the supply chains of 5 commodities / services
- Identify potential supply chain vulnerabilities due to disruptions
- Recommend actions that can mitigate impacts and strengthen supply chain resilience
- Establish ongoing engagement with key supply chain partners and communities
Timeline

Task 1
Commodity / Service & Disaster Scenario Selection
February – March 2022

Task 2
Commodity Flow Analysis & Supply Chain Resiliency Analysis
March – July 2022

Task 3
Supply Chain Resiliency Recommendations
May – August 2022

- Stakeholder Small Group Interviews
  April 2022

- Stakeholder One-on-One Interviews
  June – July 2022

- Large Stakeholder Group Meeting
  (Hillsborough County Local Mitigation Strategy Working Group)
  August 2022
Selection of Top 5 Commodities

Water & Wastewater Utilities

Food / Groceries

Housing Material

Urgent Healthcare Services & Medicine

Fuel Distribution Systems
Selection of Disaster Scenarios

Cyber Attack

Transportation Event – Sabotage / Major Roadway Accident

Flooding/Wind Event

Climate Change
## Stakeholder & Community Outreach

### Task 1

#### Stakeholder Small Group Interviews

- 6 Group Interviews
  - Resilience
  - Transportation
  - Communications & Utilities
  - Economic & Land Use
  - Emergency Management & Medical
  - Freight

#### Community Sessions

- 2 Sessions
  - Corporation to Develop Communities of Tampa, Inc.
  - University Area Community Development Corporation

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### Supply Chain Disruptions/Challenges

- Price Inflation (gas, food)
- Panic Buying/Shortages (food, toiletries)
- Reduced Store/Pharmacy Hours
- Hospitals at Capacity/Clinic Closures
- Increased Housing Costs
- Disrupted Communication Systems
- Road and Bridge Closures

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**Lack of:**

- Workforce
- Building Materials
- Power (no water, no cooking, no perishable foods)
- Potable Water (for drinking & medical needs)
- Sterilization Chemicals (for water treatment & medical use)
- Transportation Options for Extended-Shift Workers
Supply Chain Disruption Methodology

Task 2

Framework

Scenario Event

Cyber Incident  Transportation Incident  Flooding/Wind

Resources

Literature  Case Studies

Project Phoenix Model  HAZUS Model

Outcome

Climate Change

Observations of Impacts, Implications, & Level of Severity

Actionable Recommendations

Stakeholder & Community Input
One-on-One Stakeholder Interviews

Task 2

Conducting interviews with key agency and private stakeholders:

- Pepsi
- Tampa International Airport
- SERT
- Publix
- Port Tampa Bay
- Hillsborough County Sheriff's Office
- Chad Chronister, Sheriff
- City of Tampa
- The Home Depot
- Highway Patrol
- FDOT
- CSX
Next Steps

- Complete 1-on-1 interviews with key agency and private stakeholders

- Develop preliminary actionable recommendations
  - Transportation-related
  - Infrastructure and Policy-related (outside transportation sphere)

- Present findings / recommended actions at Hillsborough County Local Mitigation Strategy Working Group Meeting (large stakeholder meeting) and at Hillsborough TPO CAC & TAC Committees and Board in August 2022

- Finalize recommendations and Freight Supply Chain Resilience Study (including associated Executive Summary and supporting technical memorandums)
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Freight Supply Chain Resilience Study Website:
https://planhillsborough.org/freight-supply-chain-resilience-study/