DVRPC Freight Program



2024 Delmarva Freight Summit June 5, 2024

Kristen Scudder Freight Program Manager kscudder@dvrpc.org Daniel Farina, Jr., AICP Senior Transportation Planner dfarina@dvrpc.org



OVERVIEW

The Delaware Valley Regional Planning Commission is the federally designated Metropolitan Planning Organization (MPO) for a diverse nine-county region in two states: Bucks, Chester, Delaware, Montgomery, and Philadelphia in Pennsylvania; and Burlington, Camden, Gloucester, and Mercer in New Jersey.



%dvrpc



DVRPC FREIGHT PLANNING PROGRAM

Promote freight considerations in the planning process to encourage the development and preservation of safe, efficient multimodal transportation systems that maximize Greater Philadelphia's position in the global economy

Improve visibility + availability of freight data Educate planners and the public Encourage smart, multimodal transportation systems

INFORM TRANSPORTATION INFRASTRUCTURE INVESTMENT

%dvrpc

ødvrpc

Our Approach



REGIONAL TRENDS & PERFORMANCE

Data Collection and Development PhillyFreightFinder – Comprehensive Freight Data Program



ENGAGEMENT/ADVOCACY

Goods Movement Task Force, PA Freight Work Group, NJ Freight Advisory Committee, Industry Groups (PMTA, Traffic Club, NJRRA), Eastern Transportation Coalition, TRB Urban Freight



LOCAL TECHNICAL STUDIES & EDUCATION

Downtown Delivery Symposia, Vision Zero Fleet Subcommittee, Urban Freight Studies Local Technical Studies: Freight Access, Grade Crossing Safety Commodity and Supply Chain Profiles



What is PhillyFreightFinder?





- A **web-based resource** for exploring the Delaware Valley's multimodal freight network
- A starting point for understanding freight in the region
- Recently upgraded with a new user interface, improved search, and truck count data

www.dvrpc.org/webmaps/phillyfreightfinder



THE DELAWARE VALLEY GOODS MOVEMENT TASK FORCE | @dvrpc

The DVGMTF is a joint public-private sector initiative that allows the local freight community to participate in formulating regional policies, plans, and programs. The task force is an opportunity for sharing information and technology between public and private freight interests, promoting the region's intermodal capabilities and capacity, and developing and implementing a regional goods movement strategy

2024 Quarterly Meetings

January 18th, March 13th, July 18th, October TBD

Members of the Goods Movement Task Force

County planning, municipal planning, state DOT, and federal partners

Trucking, railroad, port, airport, shipper, freight forwarder, economic development representatives





Recent Reports



Impacts of E-Commerce







Changing Supply Chain

Traditional Supply Chain





Changing Supply Chain

E-Commerce Supply Chain



Forces Driving E-Commerce Warehouse Development

- 1. Consumer adoption of ecommerce
- 2. Consumer desire for speedy delivery
- 3. Proximity to dense workforce
- 4. Low existing industrial supply
- 5. Proximity to infrastructure



Warehouse Typologies

	Distribution Center	Fulfillment Center (Sortable)	Fulfillment Center (Non-Sortable)	Sortation Center	Delivery Station	Micro-fulfillment
Function	Large orders of inventory, ships inventory to fulfillment centers	Receives orders, packages items, ships to sortation center	Bulky items, similar function as sortable fulfillment center	Sorts customer packages for delivery stations	Delivers customer packages within a short radius	Small-scale facility near consumers that serves local deliveries and pick-ups
Size ⁽¹⁾⁽²⁾	> 500 KSF	~800 KSF	600 KSF - 1 MSF	100-500 KSF	50-300 KSF	< 10 KSF
Employees ⁽³⁾	700/ shift 3 shifts	1000/ shift 2 shifts	700/ shift 2 shifts	250/ shift 4 shifts	200	<50
Characteristics	May be high cube, not automated, often cross docked	May be high cube, often automated	May be high cube, not automated	Often cross docked for loading vehicles	Can utilize traditional warehouse space	Often in existing store or warehouse, often automated
ITE Land Use Category ⁽⁴⁾ (11 th Edition)	154: Transload	155: Short-term storage/ fulfillment center	155: Short-term storage/ fulfillment center	155: Short-term storage/ fulfillment center	156: Parcel Hub	156: Parcel Hub

Sources:

(1)"Our Facilities." Our Workplace. Amazon, September 21, 2020. www.aboutamazon.com/workplace/facilities.

(2) "Distribution Warehousing and Goods Movement Guidelines." NJ State Planning Commission Office of Planning Advocacy, September 7, 2022.

nj.gov/state/planning/assets/pdf/warehouse-guidance.pdf.

(3) DVRPC estimation. Not to be used for design purposes.

(4) 2021. Trip Generation. 11th ed. Institute of Transportation Engineers.









Assessing Local Impact



Fiscal	Community		
Local Budget and Taxes	Job Creation		
+	+		
Services and Utilities	Character		



Impacts of E-Commerce



Full report can be viewed at www.dvrpc.org/products/22220.

Lower Bucks Freight Access Study







Falls Township Morrisville Borough Tullytown Borough



South Pennsylvania Avenue



U.S. Steel Site



Port of Bucks



DEVELOPMENT SNAPSHOT

Keystone Trade Center 10-15 Million Square Feet of Distribution and Logistics Development.

- Phase 1 Completed and fully leased. (2.2M SQFT)
- Phase 2 Construction now complete. (3.5M SQFT)
- Phase 3 Remediation and development currently underway

NHS INTERMODAL CONNECTOR

Recommendation Designate Tyburn Rd. as official NHS Intermodal Connector/De-designate S. Pennsylvania Ave.

Completed





TRUCK NETWORK

Recommendation Designate a truck network that will facilitate freight movements along preferred corridors away from residences.



WAYFINDING AND SIGNAGE

Recommendation Implement a consistent, area-wide truck wayfinding system to better guide vehicles on local roads toward freight centers and major routes.



SUPPORTIVE INFRASTRUCTURE

Recommendation Incorporate supportive infrastructure - pedestrian pathways, lighting, EV charging, truck parking, shuttle service - within the redevelopment plans for the Keystone Trade Center.

%dvrpc









SOUTH PENNSYLVANIA AVENUE

Recommendation Incorporate pedestrian safety improvements along S. Pennsylvania Ave. to protect residents and discourage freight traffic.

ødvrpc









LEGEND

Proposed Sign

Tyburn Rd to 1

SOUTH Pennsylvania Ave

- RRFB
- Rumble Strip
- Gateway Median



Lower Bucks Freight Access Study



Full report can be viewed at www.dvrpc.org/products/23134.



Thank you

Kristen Scudder

Freight Program Manager kscudder@dvrpc.org

Daniel Farina Jr., AICP

Senior Transportation Planner dfarina@dvrpc.org

Credits: This presentation template was created by <u>Slidesgo</u>, including icons by <u>Flaticon</u>, infographics & images by <u>Freepik</u>

