









Overview

- The New Castle County Transit Origin-Destination (O-D)
 Study was conducted to understand the travel behavior of existing DART First State transit customers.
- Total Daily DART bus ridership (boardings) = 32,004
- Total Daily Riders = 16,002
- Target sample size for statistical validity = 1,784 (11.1%)











Overview

- Target Surveys = 1,784
- Actual Surveys Distribution = 5,198
- Surveys Returned = 4,490 (27%)
 - Exceeded the required amount required for statistical validity





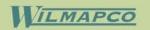






Origins / Destinations

- Surveys Returned = 4,490
- Valid O-D Matches = 2,394
 - Valid responses exceeded the required sample size of 1,784



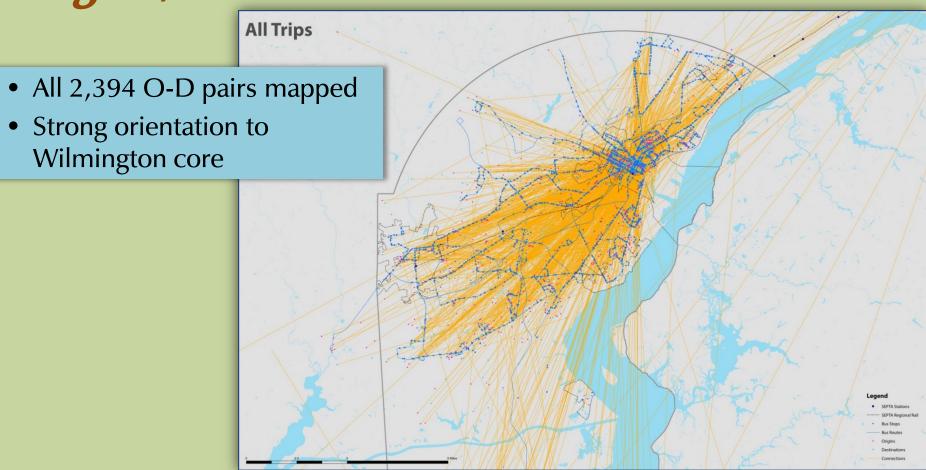








Origins / Destinations













Transfers

- Surveys Returned = 4,490
- Surveys usable for Transfer Analysis = 4,392

Did Not Transfer	2,581	58.8%
Did Transfer	1,811	41.2%
Total	4,392	100%











Transfer Locations

Estimated Transfers Location Type Location **Percentage Rodney Square** 60% Other Downtown 9% Christiania Mall 10% Other Suburban 21%











Transfers

- Of the returned surveys, 2,581 of the respondents did not transfer (58.8%).
- Of the returned surveys that did not transfer, 1,418 had a valid O-D match. Of these returned surveys:
 - 1,017 had an origin or destination in Downtown Wilmington;
 - 166 had an origin or destination in Wilmington, but outside the Downtown; and,
 - 235 had an origin and destination outside of Wilmington.













Corridor Transfer Rates

Corridor # Surveys	# Surveys	Did not	Transfer within the	Transfer to Another Corridor	
	Transfer	Corridor	Number	Percent	
Philadelphia Pike	909	494	67	348	38.3%
Concord Pike	269	175	13	81	30.1%
Penn Ave & Lancaster Pike	407	251	10	146	35.9%
Kirkwood Highway	415	268	14	133	32.0%
Maryland Ave	386	208	14	164	42.5%
Market, DuPont, New Castle	954	548	85	321	33.6%
Christiana Mall	532	341	42	149	28.0%
Bear / Glasgow	325	163	13	149	45.8%
Downstate	162	119	7	36	22.2%
Total	4,392	2,581	269	1,542	35.1%





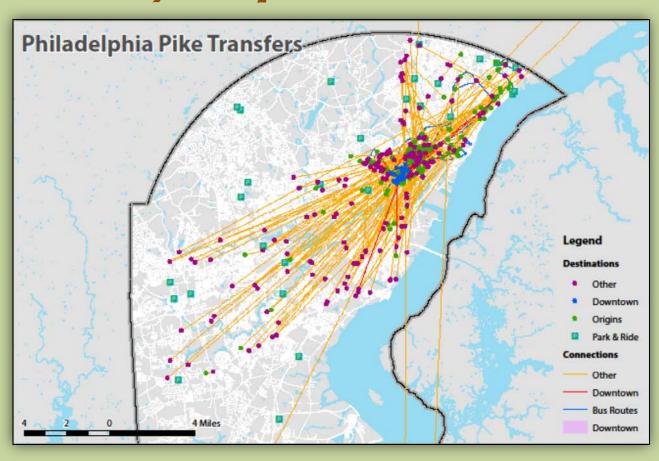






Example of O-D Survey Output

- This map illustrates the transfer trips that started on routes 1, 3, 11, 12, 24, and 38.
 - It shows some trips to the Concord Pike and New Castle Corridors that might be made without a transfer, if thru routes were established.
- The O-D study includes similar maps for each corridor.
- These maps and other
 O-D data can be used as
 input for more detailed
 analysis by DTC in the
 next phase of work.









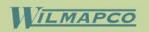






Key Findings - Trip Purpose

Purpose	# of Surveys	Percentage
Home to Work	2,151	47.9%
Home to Other	813	18.1%
Home to School	382	8.5%
Home to Home	296	6.6%
Workplace to Other	265	5.9%
Workplace to Workplace	243	5.4%
Other to Other	184	4.1%
Workplace to School	90	2.0%
School to School	58	1.3%
School to Other	8	0.2%
Total	4,490	100.0%











Summary and Conclusions

- O/D Survey provided usable results and statistically valid sample size to represent DTC bus service
- O/D Survey results were an important tool in the development of Principles and Opportunities by the Project Management Committee
- O/D Survey has detailed information that will be a valuable tool in the development of more detailed, and route specific, changes to DTC bus service in the next phase of work after the Wilmington Transit Moving Forward Study









