

# REGIONAL TRAVEL SURVEY



Planning Our Future Together

# 2017-2018 REGIONAL TRAVEL SURVEY UPDATE

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# Purpose of a Household Travel Survey

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- Household travel surveys provide a critical input for the regional transportation planning process used by many MPOs
  - Input for travel demand models to forecast future travel patterns and vehicle emissions
  - Used by MPO member governments and agencies to inform transportation studies and support other planning activities
- Household travel surveys typically require participating households to complete a travel diary that accounts for all trips made by household members in a given time period (e.g., one day)
- Household travel surveys provide a wealth of information about individual travel behavior, including trip purpose, mode choice, trip distance, and trip duration



# Regional Travel Survey Overview

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- TPB has conducted a regional household travel survey approximately every ten years since 1968 (last HTS was in 2007-2008 which covered 11,000 households)
- Collect demographic and travel information from a representative sample of households in the greater Washington, DC region (TPB model region)
- Primary source of observed data for model estimation, validation, and calibration (both for current trip-based model and future next-generation model)
- Data used for addressing regional growth and transportation planning issues

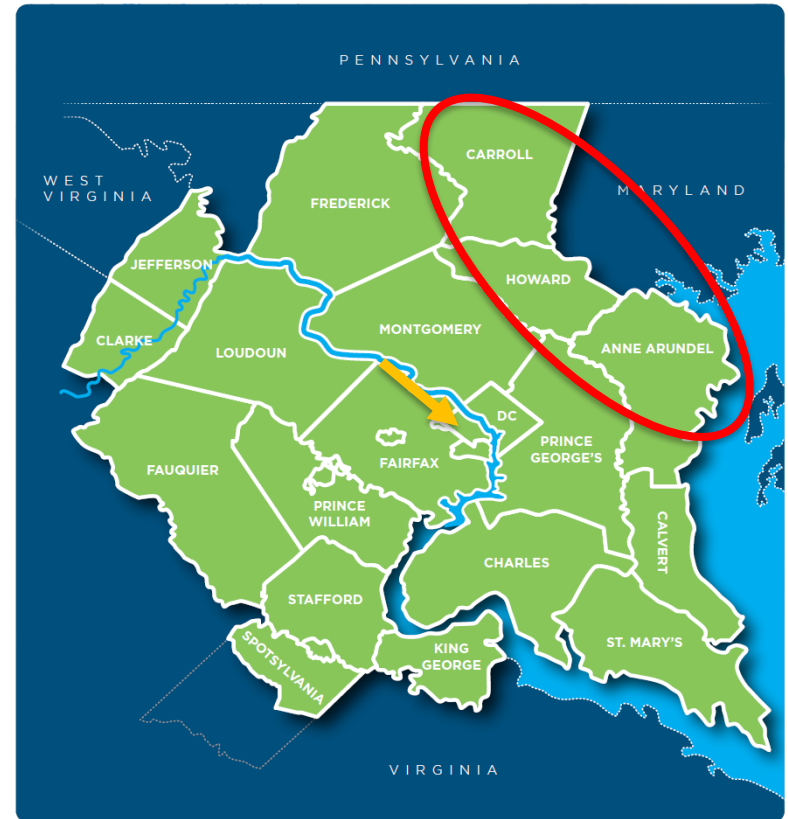
# Survey Design and Methodology (1)

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- Main survey of 16,000 households within the TPB modeled region during October 2017-December 2018
- An 800 household pretest was conducted in February-April 2017
- Survey consisted of a recruitment questionnaire (Part 1) and a one-day travel diary (Part 2)
- Recruitment by mail through invitation letters and reminder postcards with a participation incentive
- Households were randomly selected based on address-based samples drawn quarterly
- Survey was primarily web-based with a telephone option
- Survey was designed to ensure the collection of a sufficient number of transit, walk, and bike trips

# Survey Design and Methodology (2)

- The RTS covered 22 major jurisdictions and 111 geographic strata (PUMAs/Activity Centers)
- 11 TPB member jurisdictions (including Fauquier)
- Coordinated with Maryland Travel Survey for 3 jurisdictions (Anne Arundel, Howard, Carroll)
- Arlington County Activity Center add-on survey
- Hispanic/Latino outreach effort



TPB Modeled Area



# Key Questions/Data Items in the RTS

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- The RTS questions/data items were developed by the COG/TPB survey team with input from travel forecasting and models development staff
- 2007 HTS questionnaire was reviewed to determine which questions to keep or drop for the 2017 RTS
- New questions/data items for the 2017 survey include:
  - Peak period HOV use
  - HOT (Express/Managed Lane) and toll road use
  - Ride-hailing (e.g., Uber, Lyft)
  - Carshare and bikeshare use
  - Types of transit passes used
  - Type of toll transponder in vehicle



# Recruitment and Completion Rates

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- There were 23,011 recruited households who completed the Part 1 survey
- There were 15,976 households who completed the travel diary (Part 2 survey), exceeding the survey goal of 15,000 completed household travel diaries.
- The conversion rate (% of recruited HHs who completed the survey) is 70%
- There were 122,261 completed trips and 45,030 vehicles recorded in the travel diary (Part 2 survey)

# Completes by Survey Strata through 12/31/18

Jurisdictional Strata	Overall Target	Completes thru 12-31-2018	Percent Completed
1 District of Columbia	2,012	2,096	104%
2 Arlington County	800	814	102%
3 City of Alexandria	600	629	105%
4 Montgomery County – In	1,200	1,199	100%
5 Montgomery County - Out	1,004	1,031	103%
6 Prince George's County – In	800	831	104%
7 Prince George's County – Out	1,204	1,265	105%
8 Fairfax County/Cities - In	1,004	1,028	102%
9 Fairfax County/Cities - Out	1,204	1,263	105%
10 Loudoun County – In	204	279	137%
11 Loudoun County – Out	600	631	105%
12 Prince William County/Cities - In	400	393	98%
13 Prince William County/Cities - Out	604	646	107%
14 Fauquier County	200	198	99%
15 Frederick County – In	200	199	100%
16 Frederick County – Out	404	435	108%
17 Charles County – In	100	104	104%
18 Charles County – Out	300	306	102%
Non-TPB Jurisdictions	2,208	2,629	119%
<b>Total</b>	<b>15,048</b>	<b>15,976</b>	<b>106%</b>



Survey has exceeded target goal of completes and all strata targets have been met

“In” = Activity Centers; “Out” = Outside of Activity Centers



# Looking Ahead: Survey Schedule

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- RTS data collection concluded on December 31, 2018
- Post-survey processing (e.g., data cleaning, factoring, weighting) started in January 2019 and will continue through 2019 (FY 2020)
- Public release dataset anticipated in FY 2020

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