## WASHINGTON-BALTIMORE REGIONAL AIR PASSENGER SURVEY - 2017

### **General Findings Report Highlights**

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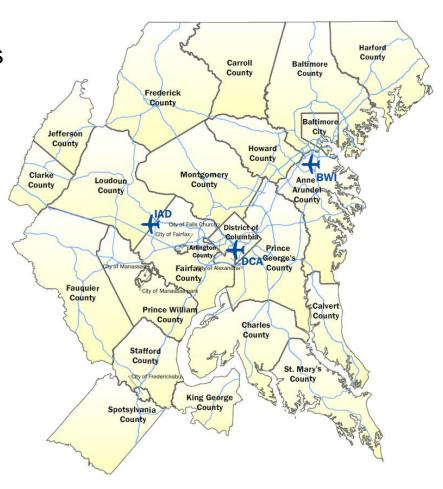






### **Overview**

- Collect information on changing travel patterns and demographics
- Help determine airport terminal and groundside needs
- Survey every two years at region's three commercial airports
- Random sample of domestic and international flights during twoweek period in October
- Passengers surveyed at departure gates while waiting to board flights





## **Survey Partners**

- Metropolitan Washington Council of Governments (COG)
- National Capital Region Transportation Planning Board (TPB)
- Aviation Technical Subcommittee includes:
  - Maryland Aviation Authority (MAA)
  - Metropolitan Washington Airports Authority (MWAA)
  - District Department of Transportation (DDOT)
  - Federal Aviation Administration (FAA)
  - Virginia Department of Aviation (DOAV)
  - Washington Airports Task Force
  - Other interested groups



## **Key Findings**

- 657 Surveyed Flights: 582 Domestic, 75 International
- Response Rate Decline: 27.4% in 2017, down from 31% in 2015
- TNC Mode Share Increase: Taxis & TNCs reversed share of use by 5%, respectively \*TNCs= mobility service providers like Uber, Lyft
- User Preference: Main reason for choosing primary means of transportation was Ease of Use (46.6%)
- Dominant Travel Purpose by Airport

Business: DCA

Families: BWI

Vacation: IAD



## **Key Findings Continued: Enplanements**

- Annual air passenger enplanements in 2017 were 2.4 million higher (36.5 million) than in 2015 (34.1 million)
- Local origin enplanements increased at all airports:
  - BWI: +5%
  - DCA: +1.3%
  - IAD: +10%
- Connections increased at BWI and DCA, declined at IAD:
  - BWI: + 25%
  - DCA: + 29%
  - IAD: -1.4%



## SURVEY PROTOCOL

Survey development, sample selection, distribution, and response rate



## **Survey Development**

### The 2017 Regional Air Passenger Survey asked the following:

- Primary mode of transportation to airport
- Reason for selecting mode of transportation
- Ground Access Origin
- Ground Access Length of Travel Time
- Airport Origin and Destination
- Reasons for Airport Selection
- Airport Preference
- Trip Purpose
- Curbside drop-off and parking
- Check-in and bag check (curbside, kiosk, ticket agent)



## Sample Selection

- Acquired flight schedule data (FlightGlobal/diio) for month of October for all three airports
- Arrivals eliminated from schedule data
- Conducted sampling selection process based on seats and market segmentation
- Conducted two random sample draws
- Resulted in a sample of 657 surveyed flights
  - 582 domestic
  - 75 international



## Flight Sample by Strata and Destination

|         | Domestic |         | Interna | International |        | Total   |  |
|---------|----------|---------|---------|---------------|--------|---------|--|
| Airport | Strata   | Flights | Strata  | Flights       | Strata | Flights |  |
| BWI     | 96       | 223     | 7       | 13            | 103    | 236     |  |
| DCA     | 96       | 222     | 5       | 9             | 101    | 231     |  |
| IAD     | 85       | 137     | 42      | 53            | 127    | 190     |  |
| Total   | 277      | 582     | 54      | 75            | 331    | 657     |  |

Strata were developed based on Origin, Airline, and Destination segmentation (ie: frequency)



## **Survey Responses: By Type & Rates**

| Survey                     | 514// |       |       |           |
|----------------------------|-------|-------|-------|-----------|
| Response                   | BWI   | DCA   | IAD   | Total     |
| At Airport Survey Response | 8,668 | 6,235 | 7,335 | 22,238    |
|                            | 99.5% | 99.2% | 99.6% | 99.4%     |
| Web Response               | 37    | 51    | 26    | 114       |
|                            | 0.4%  | 0.8%  | 0.4%  | 0.5%      |
| Mailback Response          | 8     | 1     | 3     | 12        |
|                            | 0.1%  | 0.0%  | 0.0%  | 0.1%      |
| Total                      | 8,713 | 6,287 | 7,364 | 22,364    |
|                            | 100%  | 100%  | 100%  | 100%      |
| Response Rate              | 29.0% | 26.8% | 26.5% | 27.4%     |
|                            |       |       | (     | (Average) |



## **Response Rate: 2015 vs. 2017**

Response Rate Decline: 27.4% in 2017, down from 31% in 2015

| 2015<br>Airport | Revenue<br>Passengers | Completed Surveys | Response Rate |
|-----------------|-----------------------|-------------------|---------------|
| BWI             | 27,894                | 8,509             | 31%           |
| DCA             | 27,298                | 8,240             | 30%           |
| IAD             | 23,918                | 7,816             | 33%           |
| Total           | 79,110                | 24,565            | 31%           |

| 2017<br>Airport | Revenue<br>Passengers | Completed Surveys | Response Rate |
|-----------------|-----------------------|-------------------|---------------|
| BWI             | 30,412                | 8,808             | 29.0%         |
| DCA             | 23,767                | 6,362             | 26.8%         |
| IAD             | 24,564                | 6,517             | 26.5%         |
| Total           | 78,743                | 21,687            | 27.5%         |



### **Distribution**

- At-gate lobby interview (voluntary)
- Survey interviewers arrive 60-90 minutes prior to scheduled flight boarding
- Questionnaires distributed and collected before boarding
- Additional surveying options:
  - Online survey (smartphone, tablet, laptop)
  - Mail-back with pre-addressed/stamped envelope



# TRENDS IN AIRPORT GROUND ACCESS

Ground trip origin, Mode of access, Mode selection, and Airport selection



## **Annual Air Passenger Trip Originations**

| Enplanement Type   |         | BWI    | DCA    | IAD    | REGION |
|--------------------|---------|--------|--------|--------|--------|
|                    |         |        |        |        |        |
| Local originations | Number  | 8,910  | 10,499 | 7,245  | 26,653 |
| (came by ground    | Percent | 67%    | 88%    | 64%    | 73%    |
| transportation)    |         |        |        |        |        |
|                    |         |        |        |        |        |
| Connected from     | Number  | 4,305  | 1,458  | 4,062  | 9,826  |
| another flight     | Percent | 33%    | 12%    | 36%    | 27%    |
|                    |         |        |        |        |        |
| Total Enplanements | Number  | 13,215 | 11,957 | 11,307 | 36,479 |
|                    |         |        |        |        |        |
| Percent of Region  |         | 100%   | 100%   | 100%   | 100%   |

#### Notes:



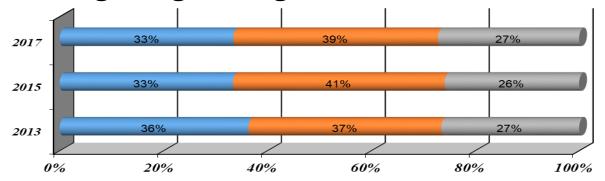
<sup>\*</sup> Numbers are in Thousands

<sup>\*</sup> Totals may not add due to rounding

<sup>\* &</sup>quot;Total Enplanements" includes passengers on domestic scheduled, commuter and international flights

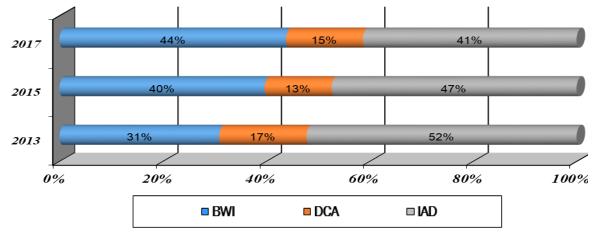
## Airport Share of Locally Originating and Connecting Passengers

### **Local Originating Passengers**



- 26.6 Million Passengers
- 25.4 Million Passengers
- 23.4 Million Passengers

### **Connecting Passengers**



- 9.8 Million Passengers
- 8.6 Million Passengers
- 8.9 Million Passengers



## **Ground Trip Origin: By Airport and Year**

| Ground Trip Origin        |       | BWI   |       |       | DCA    |        |       | IAD   |       |        | REGION |        |
|---------------------------|-------|-------|-------|-------|--------|--------|-------|-------|-------|--------|--------|--------|
|                           | 2013  | 2015  | 2017  | 2013  | 2015   | 2017   | 2013  | 2015  | 2017  | 2013   | 2015   | 2017   |
|                           |       |       |       |       |        |        |       |       |       |        |        |        |
| Private residence         | 5,676 | 5,380 | 5,985 | 4,398 | 4,440  | 4,940  | 3,760 | 3,800 | 4,385 | 13,834 | 13,620 | 15,310 |
|                           | 67%   | 65%   | 70%   | 51%   | 44%    | 49%    | 61%   | 61%   | 64%   | 60%    | 56%    | 60%    |
|                           |       |       |       |       |        |        |       |       |       |        |        |        |
| Hotel/motel               | 1,864 | 2,071 | 1,652 | 3,161 | 4,090  | 3,755  | 1,940 | 1,884 | 1,716 | 6,965  | 8,045  | 7,123  |
|                           | 22%   | 25%   | 19%   | 37%   | 41%    | 37%    | 32%   | 30%   | 25%   | 30%    | 33%    | 28%    |
|                           |       |       |       |       |        |        |       |       |       |        |        |        |
| Passenger's regular place | 328   | 258   | 332   | 349   | 465    | 488    | 180   | 195   | 256   | 857    | 918    | 1,076  |
| of employment             | 4%    | 3%    | 4%    | 4%    | 5%     | 5%     | 3%    | 3%    | 4%    | 4%     | 4%     | 4%     |
|                           |       |       |       |       |        |        |       |       |       |        |        |        |
| Another place of          | 403   | 340   | 404   | 511   | 727    | 747    | 203   | 268   | 332   | 1,117  | 1,335  | 1,483  |
| business                  | 5%    | 4%    | 5%    | 6%    | 7%     | 7%     | 3%    | 4%    | 5%    | 5%     | 5%     | 6%     |
|                           |       |       |       |       |        |        |       |       |       |        |        |        |
| Other                     | 160   | 193   | 228   | 209   | 269    | 252    | 58    | 110   | 126   | 427    | 572    | 606    |
|                           | 2%    | 2%    | 3%    | 2%    | 3%     | 2%     | 1%    | 2%    | 2%    | 2%     | 2%     | 2%     |
|                           |       |       |       |       |        |        |       |       |       |        |        |        |
| TOTAL                     | 8,431 | 8,242 | 8,601 | 8,628 | 9,991  | 10,182 | 6,141 | 6,257 | 6,815 | 23,200 | 24,490 | 25,598 |
| Total Including Non-      |       |       |       |       |        |        |       |       |       |        |        |        |
| Respondents               | 8,498 | 8,484 | 8,910 | 8,687 | 10,367 | 10,498 | 6,214 | 6,596 | 7,245 | 23,399 | 25,447 | 26,653 |



## **Ground Trip Origin: By Resident Status**

| Ground Trip Origin        |         | Resident | Non-Resident | Total  |
|---------------------------|---------|----------|--------------|--------|
| Private residence         | Number  | 7,256    | 4,830        | 12,086 |
|                           | Percent | 89%      | 41%          | 61%    |
| Hotel/motel               | Number  | 109      | 5,154        | 5,263  |
|                           | Percent | 1%       | 44%          | 26%    |
| Passenger's regular place | Number  | 583      | 315          | 898    |
| of employment             | Percent | 7%       | 3%           | 5%     |
| Another place of          | Number  | 107      | 1,076        | 1,183  |
| business                  | Percent | 1%       | 9%           | 6%     |
| Other                     | Number  | 75       | 361          | 436    |
|                           | Percent | 1%       | 3%           | 2%     |
| TOTAL                     | Number  | 8,130    | 11,736       | 19,866 |
|                           | Percent | 100%     |              | 100%   |

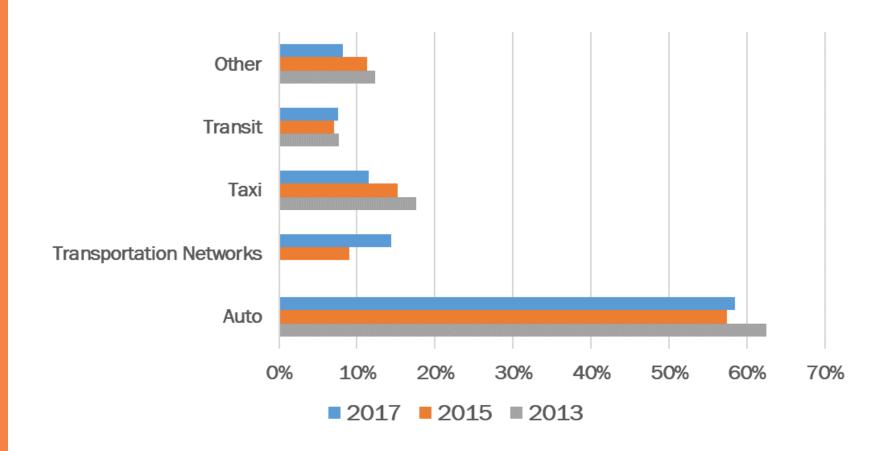


### **Mode of Access**

- The most common mode of access to airport continued to be the automobile, accounting for 84% of total trips to all airport
- Metrorail usage at DCA increased to 13% from 12% in 2015
- 14% of the region's air passengers accessed the airport by TNC
  - 21% to DCA almost double IAD and triple BWI
  - TNC users to DCA accounted for 60% of the regional total
  - The decline in taxicab and rental car trips to DCA could be attributed to TNCs



### Mode of Access: 2013, 2015, 2017





## Mode of Access: By Airport

| Mode of Access              |         | BWI   | DCA   | IAD   | REGION |
|-----------------------------|---------|-------|-------|-------|--------|
|                             |         |       |       |       |        |
| Private car                 | Number  | 5,299 | 2,889 | 2,866 | 11,608 |
|                             | Percent | 63%   | 29%   | 28%   | 47%    |
|                             |         |       |       |       |        |
| Rental car                  | Number  | 1,193 | 853   | 1,015 | 2,883  |
|                             | Percent | 14%   | 9%    | 10%   | 12%    |
|                             |         |       |       |       |        |
| Taxi                        | Number  | 303   | 1,783 | 2,481 | 2,845  |
|                             | Percent | 4%    | 18%   | 25%   | 11%    |
|                             |         |       |       |       |        |
| Transportation Network      | Number  | 633   | 2,057 | 1,394 | 3,561  |
| Companies (Uber, Lyft, etc) | Percent | 8%    | 21%   | 14%   | 14%    |
|                             |         |       |       |       |        |
| Metrorail                   | Number  | 0     | 1,263 | 1,173 | 1,298  |
|                             | Percent | 0%    | 13%   | 12%   | 5%     |
|                             |         |       |       |       |        |
| Rail service                | Number  | 217   | 62    | 11    | 304    |
|                             | Percent | 3%    | 1%    | 0%    | 1%     |



## Mode of Access: By Airport - Continued

| Made of Assess           |          | BWI   | DCA    | IAD    | REGION |
|--------------------------|----------|-------|--------|--------|--------|
| Mode of Access           | <b>.</b> |       | _      |        |        |
| Light Rail (BWI)         | Number   | 53    | 0      | 0      | 53     |
|                          | Percent  | 1%    | 0%     | 0%     | 0%     |
|                          |          |       |        |        |        |
| Airport bus/Van/Limo     | Number   | 188   | 172    | 325    | 503    |
|                          | Percent  | 2%    | 2%     | 3%     | 2%     |
|                          |          |       |        |        |        |
| Hotel/motel courtesy bus | Number   | 269   | 467    | 600    | 983    |
|                          | Percent  | 3%    | 5%     | 6%     | 4%     |
|                          |          |       |        |        |        |
| Metrobus/MTA Bus         | Number   | 94    | 16     | 73     | 223    |
|                          | Percent  | 1%    | 0%     | 1%     | 1%     |
|                          |          |       |        |        |        |
| Other                    | Number   | 151   | 243    | 130    | 549    |
|                          | Percent  | 2%    | 2%     | 1%     | 2%     |
|                          |          |       |        |        |        |
| TOTAL                    | Number   | 8,399 | 9,805  | 10,068 | 24,809 |
|                          | Percent  | 100%  | 100%   | 100%   | 100%   |
|                          |          |       |        |        |        |
| Non-Respondents          |          | 511   | 291    | 640    | 640    |
| Total Originations       |          | 8,910 | 10,096 | 10,708 | 25,449 |



# Annual Originating Air Passengers by Mode of Access and Trip Purpose

| Mode of Access         |         | Work  | Non-Work | Unknown | Total  |
|------------------------|---------|-------|----------|---------|--------|
|                        |         |       |          |         |        |
| Private car            | Number  | 3,324 | 7,951    | 332     | 11,608 |
|                        | Percent | 35%   | 54%      | 46%     | 47%    |
|                        |         |       |          |         |        |
| Rental car             | Number  | 1,297 | 1,509    | 78      | 2,883  |
|                        | Percent | 14%   | 10%      | 11%     | 12%    |
|                        |         |       |          |         |        |
| Taxi                   | Number  | 1,590 | 1,159    | 95      | 2,845  |
|                        | Percent | 17%   | 8%       | 13%     | 11%    |
|                        |         |       |          |         |        |
| Transportation Network | Number  | 1,663 | 1,821    | 77      | 3,561  |
| (Uber, Lyft, etc)      | Percent | 18%   | 12%      | 11%     | 14%    |
|                        |         |       |          |         |        |
| Metrorail              | Number  | 528   | 736      | 35      | 1,298  |
|                        | Percent | 6%    | 5%       | 5%      | 5%     |
|                        |         |       |          |         |        |
| Rail service           | Number  | 96    | 203      | 5       | 304    |
|                        | Percent | 1%    | 1%       | 1%      | 1%     |



# Annual Originating Air Passengers by Mode of Access and Trip Purpose

| Mode of Access           |         | Work  | Non-Work | Unknown | Total  |
|--------------------------|---------|-------|----------|---------|--------|
| Light Rail (BWI)         | Number  | 20    | 31       | 2       | 53     |
|                          | Percent | 0%    | 0%       | 0%      | 0%     |
|                          |         |       |          |         |        |
| Airport bus/Van/Limo     | Number  | 225   | 258      | 19      | 503    |
|                          | Percent | 2%    | 2%       | 3%      | 2%     |
|                          |         |       |          |         |        |
| Hotel/motel courtesy bus | Number  | 441   | 501      | 41      | 983    |
|                          | Percent | 5%    | 3%       | 6%      | 4%     |
|                          |         |       |          |         |        |
| Metrobus/MTA Bus         | Number  | 54    | 159      | 11      | 223    |
|                          | Percent | 1%    | 1%       | 1%      | 1%     |
|                          |         |       |          |         |        |
| Other                    | Number  | 216   | 303      | 30      | 549    |
|                          | Percent | 2%    | 2%       | 4%      | 2%     |
|                          |         |       |          |         |        |
| TOTAL                    | Number  | 9,454 | 14,630   | 725     | 24,809 |
|                          | Percent | 100%  | 100%     | 100%    | 100%   |
|                          |         |       |          |         |        |
| Non-Respondents          |         | 546   | 888      | 411     | 1,844  |
| Total Originations       |         | 9,999 | 15,518   | 1,136   | 26,653 |



# Annual Originating Air Passengers by Mode of Access and Trip Origin

| Mode of Access         |         | Home   | Non-Home | Unknown | Total  |
|------------------------|---------|--------|----------|---------|--------|
|                        |         |        |          |         |        |
| Private car            | Number  | 10,077 | 1,465    | 65      | 11,608 |
|                        | Percent | 68%    | 15%      | 35%     | 47%    |
|                        |         |        |          |         |        |
| Rental car             | Number  | 735    | 2,116    | 33      | 2,883  |
|                        | Percent | 5%     | 22%      | 17%     | 12%    |
|                        |         |        |          |         |        |
| Taxi                   | Number  | 862    | 1,961    | 22      | 2,845  |
|                        | Percent | 6%     | 20%      | 12%     | 11%    |
|                        |         |        |          |         |        |
| Transportation Network | Number  | 1,862  | 1,662    | 37      | 3,561  |
| (Uber, Lyft, etc)      | Percent | 13%    | 17%      | 20%     | 14%    |
|                        |         |        |          |         |        |
| Metrorail              | Number  | 524    | 765      | 10      | 1,298  |
|                        | Percent | 4%     | 8%       | 5%      | 5%     |
|                        | ·       |        |          |         |        |
| Rail service           | Number  | 153    | 151      | 0       | 304    |
|                        | Percent | 1%     | 2%       | 0%      | 1%     |



# Annual Originating Air Passengers by Mode of Access and Trip Origin

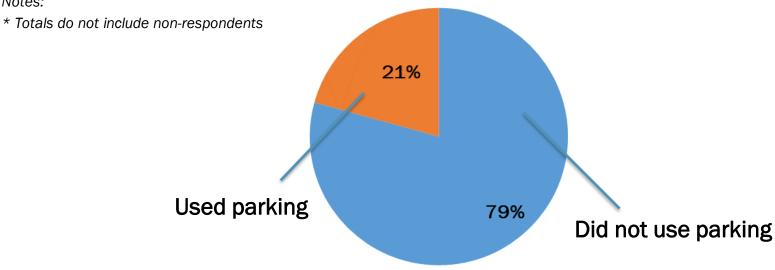
| Mode of Access           |         | Home   | Non-Home | Unknown | Total  |
|--------------------------|---------|--------|----------|---------|--------|
| Light Rail (BWI)         | Number  | 23     | 30       | 0       | 53     |
|                          | Percent | 0%     | 0%       | 0%      | 0%     |
|                          |         |        |          |         |        |
| Airport bus/Van/Limo     | Number  | 194    | 306      | 2       | 503    |
|                          | Percent | 1%     | 3%       | 1%      | 2%     |
|                          |         |        |          |         |        |
| Hotel/motel courtesy bus | Number  | 67     | 907      | 10      | 983    |
|                          | Percent | 0%     | 9%       | 5%      | 4%     |
|                          |         |        |          |         |        |
| Metrobus/MTA Bus         | Number  | 106    | 111      | 6       | 223    |
|                          | Percent | 1%     | 1%       | 3%      | 1%     |
|                          |         |        |          |         |        |
| Other                    | Number  | 183    | 361      | 4       | 549    |
|                          | Percent | 1%     | 4%       | 2%      | 2%     |
|                          |         |        |          |         |        |
| TOTAL                    | Number  | 14,786 | 9,836    | 188     | 24,809 |
|                          | Percent | 100%   | 100%     | 100%    | 100%   |
|                          |         |        |          |         |        |
| Non-Respondents          |         | 525    | 453      | 867     | 1,844  |
| Total Originations       |         | 15,310 | 10,288   | 1,055   | 26,653 |



## **Annual Originating Air Passengers by** Respondent Use of Parking Facilities

| Parking Facility Use  |                   | BWI          | DCA          | IAD          | REGION        |
|-----------------------|-------------------|--------------|--------------|--------------|---------------|
| Used Parking Facility | Number<br>Percent | 2,854<br>35% | 961<br>10%   | 1,335<br>21% |               |
| Not Parked            | Number<br>Percent | 5,417<br>65% | 8,858<br>90% | 5,133<br>79% | 19,408<br>79% |
| TOTAL                 |                   | 8,271        | 9,819        | 6,468        | 24,558        |

#### Notes:





### **Mode Selection**

### Ease of Use as main reason for choosing mode

- Private Car
- Rental Car
- Transportation Networks
- Rail service (Amtrak, Mark)
- Airport Bus / Van/ Limo

### Travel Time as main reason for choosing mode

- Taxi
- Metrorail
- Light Rail BWI

### Comfort as main reason for choosing mode

Metrobus/MTA Bus



### **Mode Selection**

| Reason for Choosing |         | BWI   | DCA   | IAD   | Total |
|---------------------|---------|-------|-------|-------|-------|
|                     |         |       |       |       |       |
| Cost                | Number  | 526   | 157   | 209   | 892   |
|                     | Percent | 21.7% | 17.5% | 17.2% | 19.7% |
|                     |         |       |       |       |       |
| Reliability         | Number  | 193   | 64    | 79    | 336   |
|                     | Percent | 8.0%  | 7.1%  | 6.5%  | 7.4%  |
|                     |         |       |       |       |       |
| Travel Time         | Number  | 377   | 180   | 225   | 782   |
|                     | Percent | 15.5% | 20.1% | 18.5% | 17.2% |
|                     |         |       |       |       |       |
| Ease of Use         | Number  | 1,154 | 421   | 540   | 2,115 |
|                     | Percent | 47.6% | 47.0% | 44.5% | 46.6% |
|                     |         |       |       |       |       |
| Comfort             | Number  | 81    | 35    | 80    | 196   |
|                     | Percent | 3.3%  | 3.9%  | 6.6%  | 4.3%  |
|                     |         |       |       |       |       |
| Other               | Number  | 95    | 39    | 81    | 215   |
|                     | Percent | 3.9%  | 4.4%  | 6.7%  | 4.7%  |
| TOTAL               |         | 2,426 | 896   | 1,214 | 4,536 |



## **Airport Selection**

#### **Ground Access Considerations**

- Closest airport
- Easy Road Access
- Convenient limo, bus, or rail service
- Good parking facilities

#### **Air Service Considerations**

- More convenient flight times
- Less expensive airfare
- Only airport with non-stop flights
- Only airport that serves market
- Frequent flyer specific airline

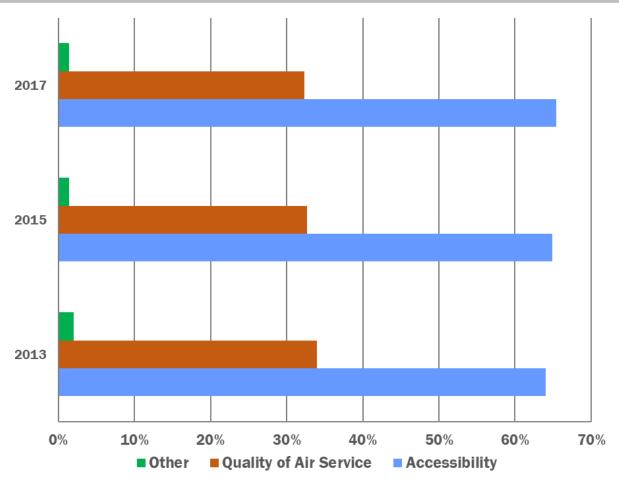


## **Airport Selection: Primary Reason**

| Primary Reason  | BWI  |      |      | DCA  |      | IAD  |      |      |      | REGION |      |      |
|---|------|------|------|------|------|------|------|------|------|--------|------|------|
|   | 2013 | 2015 | 2017 | 2013 | 2015 | 2017 | 2013 | 2015 | 2017 | 2013   | 2015 | 2017 |
| <u>Accessibility</u>  | _    | _    |      |      | _    |      | _    | _    |      |        |      |      |
| Closest airport   | 58%  | 60%  | 59%  | 65%  | 65%  | 70%  | 46%  | 47%  | 47%  | 58%    | 60%  | 60%  |
| Better public ground<br>transportation<br>Better access roads & | 1%   | 1%   | 1%   | 6%   | 6%   | 4%   | 1%   | 1%   | 0%   | 1%     | 3%   | 2%   |
| parking   | 4%   | 5%   | 5%   | 2%   | 2%   | 1%   | 5%   | 3%   | 3%   | 5%     | 2%   | 3%   |
| SUBTOTAL -Accessibility   | 63%  | 65%  | 65%  | 73%  | 73%  | 76%  | 52%  | 50%  | 51%  | 64%    | 65%  | 65%  |
| <b>Quality of Air Service</b>                                   | _    | _    |      | _    | -    |      | _    | _    |      |        |      |      |
| More convenient flight times                                    | 6%   | 6%   | 7%   | 7%   | 7%   | 8%   | 11%  | 14%  | 15%  | 7%     | 9%   | 9%   |
| Only airport with   |      |      |      |      |      |      |      |      |      |        |      |      |
| direct/non-stop flight  | 4%   | 4%   | 4%   | 4%   | 4%   | 4%   | 14%  | 11%  | 11%  | 5%     | 6%   | 6%   |
| Less expensive airfare  | 22%  | 19%  | 19%  | 11%  | 11%  | 8%   | 15%  | 15%  | 16%  | 15%    | 15%  | 14%  |
| Frequent flyer with   | 2%   | 2%   | 2%   | 2%   | 2%   | 2%   | 3%   | 3%   | 2%   | 3%     | 2%   | 2%   |
| specific airline  |      |      |      |      |      |      |      |      |      |        |      |      |
| Only airport serving market  SUBTOTAL –                         | 1%   | 1%   | 1%   | 1%   | 1%   | 1%   | 4%   | 4%   | 4%   | 4%     | 2%   | 2%   |
| Quality of Air Service  | 35%  | 33%  | 34%  | 25%  | 25%  | 23%  | 47%  | 47%  | 47%  | 34%    | 33%  | 32%  |
| OTHER   | 2%   | 2%   | 1%   | 3%   | 3%   | 2%   | 1%   | 2%   | 2%   | 2%     | 1%   | 1%   |
| TOTAL   | 100% | 100% | 100% | 101% | 101% | 100% | 100% | 99%  | 100% | 100%   | 99%  | 99%  |



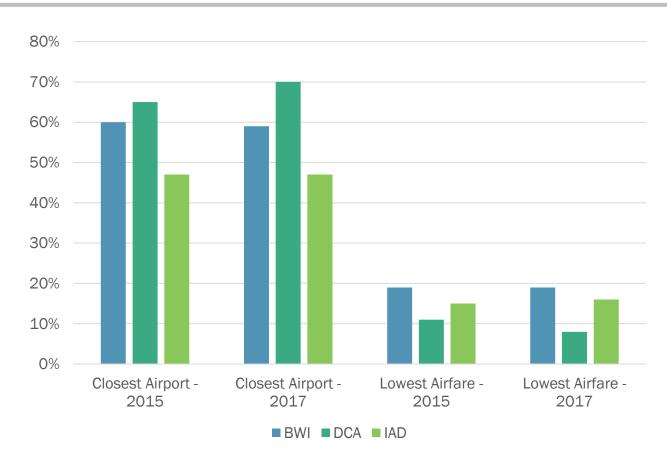
## **Airport Selection: Primary Reason**



Users base airport selection on accessibility over quality of air service



## Primary Reason for Selecting Airport



 Accessibility reasons remained unchanged with 65% when compared with 2015



## AIR PASSENGER CHARACTERISTICS

Age, income, resident status, and trip purpose



### **Air Traveler Characteristics**

- In 2017, the majority of departing air travelers at the region's three major airports were middle-aged, affluent and non-resident
- Non-resident local originating air passengers accounted for 60%
- The share of resident departing passengers increased to 40% in 2017 from 35% in 2015
- The share of departing passengers under the age of 25 years and over the age of 65 years remained unchanged at 23% when compared with 2015 findings



## **Age: By Airport**

| Age Group          |                   | BWI   | DCA           | IAD           | REGION         |
|--------------------|-------------------|-------|---------------|---------------|----------------|
| 18 or Younger      | Number            | 125   | 148           | 108           | 381            |
|                    | Percent           | 2%    | 2%            | 2%            | 2%             |
| 19 to 24 Years     | Number            | 705   | 645           | 407           | 1,757          |
|                    | Percent           | 9%    | 7%            | 7%            | 7%             |
| 25 to 34 Years     | Number            | 1,564 | 1,761         | 1,289         | 4,614          |
|                    | Percent           | 19%   | 19%           | 21%           | 19%            |
| 35 to 49 Years     | Number            | 2,073 | 2,705         | 1,780         | 6,558          |
|                    | Percent           | 25%   | 29%           | 29%           | 28%            |
| 50 to 64 Years     | Number            | 2,489 | 2,881         | 1,717         | 7,087          |
|                    | Percent           | 30%   | 31%           | 28%           | 30%            |
| 65 or Older        | Number            | 1,231 | 1,283         | 913           | 3,427          |
|                    | Percent           | 15%   | 14%           | 15%           | 14%            |
| TOTAL              | Number<br>Percent | · ·   | 9,423<br>100% | 6,214<br>100% | 23,824<br>100% |
| Non-Respondents    |                   | 723   | 1,076         | 1,031         | 2,830          |
| Total Originations |                   | 8,910 | 10,499        | 7,245         | 26,654         |



## **Income: By Airport**

| Annual                |         |       |        |       |        |
|-----------------------|---------|-------|--------|-------|--------|
| Household Income      |         | BWI   | DCA    | IAD   | REGION |
| Less than \$15,000    | Number  | 221   | 212    | 182   | 615    |
|                       | Percent | 3%    | 3%     | 4%    | 3%     |
| \$15,000 - \$24,999   | Number  | 188   | 167    | 129   | 484    |
|                       | Percent | 3%    | 2%     | 3%    | 3%     |
| \$25,000 - \$44,999   | Number  | 439   | 326    | 323   | 1,088  |
|                       | Percent | 7%    | 4%     | 7%    | 6%     |
| \$45,000 - \$79,000   | Number  | 1,056 | 999    | 748   | 2,803  |
|                       | Percent | 16%   | 13%    | 16%   | 15%    |
| \$80,000 - \$119,000  | Number  | 1,334 | 1,443  | 878   | 3,655  |
|                       | Percent | 21%   | 19%    | 18%   | 20%    |
| \$120,000 - \$159,000 | Number  | 1,074 | 1,183  | 703   | 2,960  |
|                       | Percent | 17%   | 16%    | 15%   | 16%    |
| \$160,000 - \$199,999 | Number  | 728   | 923    | 540   | 2,191  |
|                       | Percent | 11%   | 12%    | 11%   | 12%    |
| \$200,000 and up      | Number  | 1,418 | 2,165  | 1,259 | 4,842  |
|                       | Percent | 22%   | 29%    | 26%   | 26%    |
| TOTAL                 | Number  | 6,458 | 7,418  | 4,762 | 18,638 |
|                       | Percent | 100%  | 100%   | 100%  | 100%   |
| Non-Respondents       |         | 2,453 | 3,086  | 2,488 | 8,027  |
| Total Originations    |         | 8,911 | 10,504 | 7,250 | 26,665 |



## **Airport Preference by Resident Status**

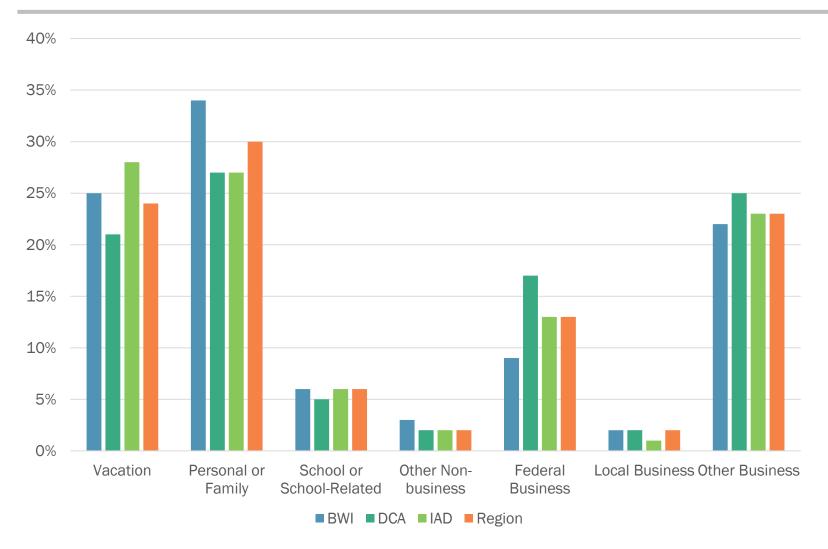
| Preferred Airport |                   | I             | Resident      |               | Non-Resident         |                              |              | Total          |                |                |  |
|-------------------|-------------------|---------------|---------------|---------------|----------------------|------------------------------|--------------|----------------|----------------|----------------|--|
|                   |                   | 2013          | 2015          | 2017          | 2013                 | 2015                         | 2017         | 2013           | 2015           | 2017           |  |
| BWI Marshall      | Number<br>Percent | 3,176<br>36%  | 2,285<br>34%  | 2,631<br>33%  | 2,929<br>25%         | 3,163<br>25%                 | 3,038<br>26% | ,              | 5,448<br>28%   | 5,669<br>28%   |  |
| Dulles            | Number<br>Percent | 1,645<br>19%  | 1,433<br>21%  | 1,515<br>19%  | 1,859<br>16%         | 1,596<br>13%                 | 1,485<br>13% | ,              | 3,029<br>16%   | 3,000<br>15%   |  |
| Reagan National   | Number<br>Percent | 3,330<br>38%  | 2,592<br>38%  | 3,298<br>41%  | <i>4,</i> 181<br>35% | <i>4,</i> 9 <i>42</i><br>40% | 4,903<br>41% | ,              | 7,534<br>39%   | 8,201<br>41%   |  |
| No Preference     | Number<br>Percent | 602<br>7%     | 442<br>7%     | 630<br>8%     | 2,809<br>24%         | 2,793<br>22%                 | 2,397<br>20% | 3,411<br>17%   | 3,235<br>17%   | 3,027<br>15%   |  |
| TOTAL             | Number<br>Percent | 8,753<br>100% | 6,752<br>100% | 8,074<br>100% | •                    | •                            | •            | 20,531<br>100% | 19,246<br>100% | 19,897<br>100% |  |

#### Notes:



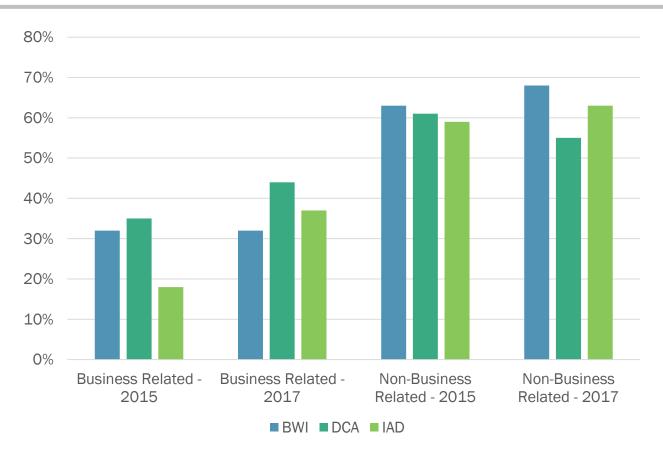
<sup>\*</sup> Totals do not include non-respondents and resident unknown

## **Trip Purpose**





## Trip Purpose: 2015 vs. 2017



 Business related trip purpose overall increased by 9% while nonbusiness related trips 1% between 2015 and 2017



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