Item 4

# **Update on Air Systems Planning Activities**

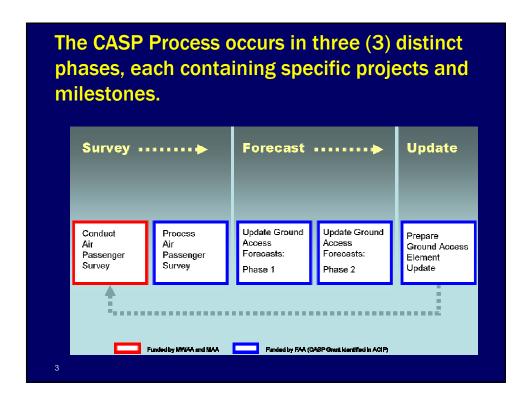
Briefing to the Travel Forecasting Subcommittee Timothy Canan, AICP

July 18, 2008

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# COG has conducted metropolitan airport systems planning for 30 years through the Continuous Airport Systems Planning (CASP) Program.

- Purpose: provide a regional process that supports planning, development and operation of airport and airport-serving facilities in a systematic framework for the Washington-Baltimore region
- CASP planning activities are carried out in cooperation with (1) Federal Aviation Administration (FAA), (2) Maryland Aviation Administration (MAA), (3) Virginia Department of Aviation (VDOA), (4) District of Columbia Office of Planning (DCOP), (5) District Department of Transportation (DDOT), and (6) Metropolitan Washington Airports Authority (MWAA).
- The Transportation Planning Board's Aviation Technical Subcommittee develops, implements and monitors CASP Program activities.



# Recent accomplishments of the CASP Program

- 2007 Washington-Baltimore Regional Air Passenger Survey
- Washington-Baltimore Origin-Destination Forecasts (based on 2005 AP Survey)
- 2008 Washington-Baltimore Region Air Cargo Study

## 2007 Washington-Baltimore Regional Air Passenger Survey

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## **Survey Background**

• 685 flights composed randomly-selected sample

606 domestic	227 at BWI
79 international	212 at DCA
	246 at IAD

 Survey conducted early October through early November 2007

33 Airlines	114 Destinations	
17 domestic	82 Domestic	
16 international	32 International	

#### The 2007 air passenger survey yielded a favorable 49 percent response rate.

	BWI	DCA	IAD	Total
Actual No. of Completed Surveys Mail-back Total	6,987	4,718	7,312	19,017 157 19,174
No. Survey Completed  (With Passenger Factor)	10,042	6,745	10,526	27,313
Revenue Passenger Count	21,277	14,825	19,422	55,524
Response Rate	47%	45%	54%	49%

#### The 2007 regional air passenger survey examined 10 major factors.

- Airport use
- Airport preference
- Trip purpose
- Trip origin

- Air travel characteristics
- Resident status
  - Age
- Income
- Mode of access
   Ticket purchase method

# Annual air passenger enplanements increased 5 percent to 32 million between 2005 and 2007.

- 8.4 million connecting passengers
  - Increased by 3.8 million from 2002
- 23.6 million local originating passengers
  - Increased by 4 million from 2002

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## **Airport shares of passengers**

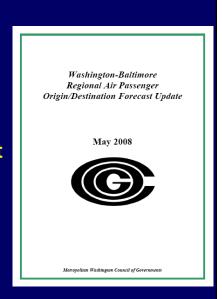
Airport	Share of locally- originating passengers (change from 2005)	Share of connecting passengers (change from 2005)
BWI	37% (-1)	20% (+3)
DCA	35% (+3)	11% (+0)
IAD	27% (-3)	69% (-3)

### **Status of project and Next Steps**

- Geocoding using Google Earth completed
- Draft report reviewed by Aviation Technical Subcommittee
- Final report due in September
- Geographic findings report due later in fall

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Washington-Baltimore Regional Air Passenger Origin/Destination Forecast Update



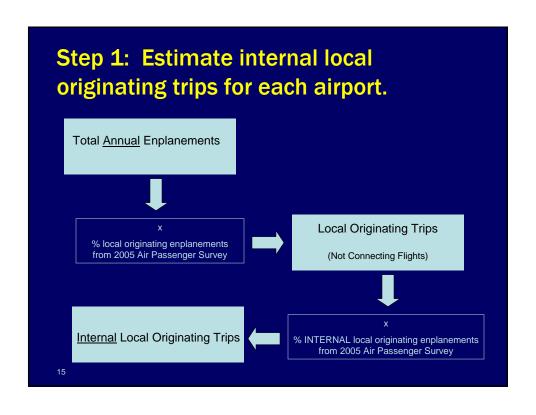
<u>Purpose</u> – develop base and forecast years of local originating internal annual air passenger trips from each Aviation Analysis Zone (AAZ) to the three regional commercial airports

- Incorporate into the regional travel model
- 161 AAZs composed of aggregated TAZs
- Enplanement control totals provided by airports

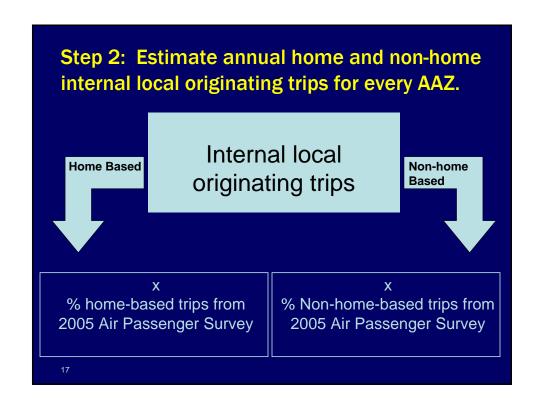
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#### Three (3) principal datasets involved

- 2005 Air Passenger Survey
  - % local originating trips
  - % local originating internal trips
  - % home and non-home local originating trips
- Enplanement forecasts through 2030 for BWI, DCA and IAD provided by airports
- MWCOG (R7.1) and BMC (R7) forecasts of households and employment by TAZ









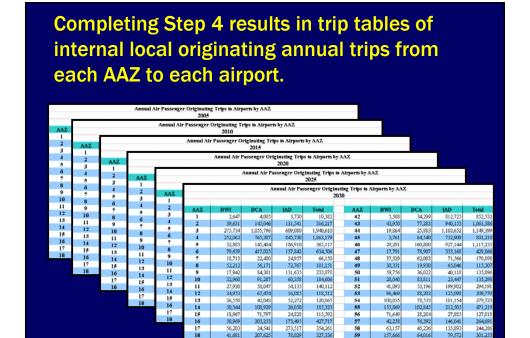
## **Step 4: Estimate annual home and non-home trips from each AAZ to each airport.**

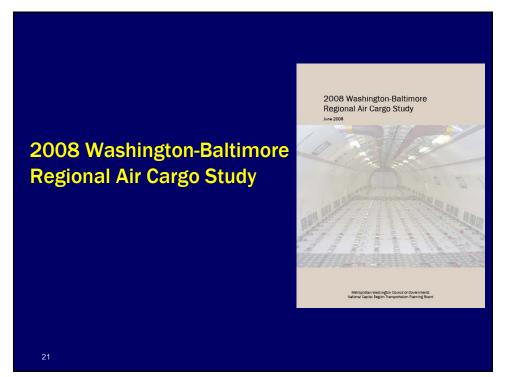
#### Home Based Trips for Airport<sub>A</sub> from $AAZ_X =$

Home-based Trip Origin Rate for Airport<sub>A</sub> AAZ<sub>X</sub> ★ Household AAZ<sub>X</sub> Year<sub>Y</sub>

#### Non-Home Based Trips for Airport<sub>A</sub> from AAZ<sub>X</sub> =

Non-home-based Trip Origin Rate for  $Airport_A AAZ_X \star Employment AAZ_X Year_Y$ 





# **2008 Washington-Baltimore Regional Air Cargo Study**

- Updates the Washington-Baltimore Regional Air System Plan:
   Volume III Air Cargo, last completed in 1997
- Focuses primarily on BWI and IAD
- Provides updated demand information
- Highlights air cargo facilities at BWI and IAD and describes capital improvement projects that support all air operations, including air cargo
- Contains accessibility analysis and maps identifying travel times from the airports to areas in the air system planning region
- Recommendations

