

Having Three Commercial Airports is a Key Regional Asset

 Historically, three airports with three distinct markets

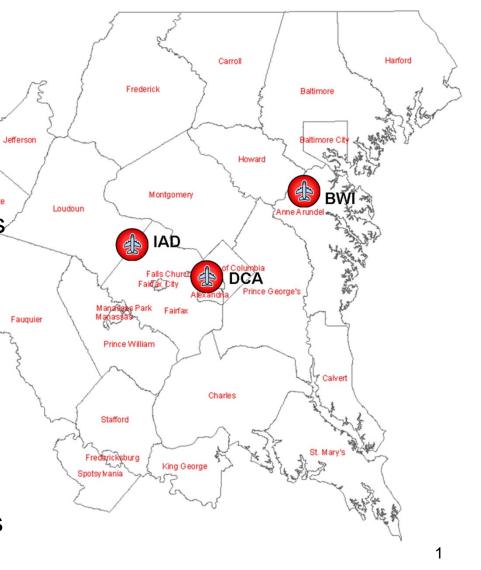
Serve air passengers and air cargo

Multimodal ground access

 COG (with MWAA and BWI) conducts regional air passenger surveys every two years

 COG also prepares airport ground access forecasts, monitors ground access travel time, and prepares a regional air system plan (including an air cargo element)

Aviation Technical Subcommittee has oversight of the CASP Work Program

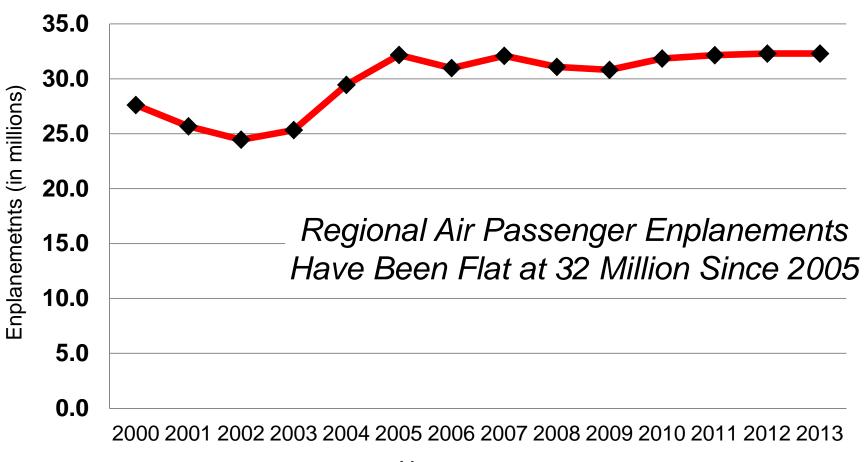


Air Passenger Survey Background

- A random sample of approximately 673 flights (592 domestic and 81 international)
- Survey started on Wednesday, October 9th, and ended on Tuesday, October 22nd 2013

	No. of		Actual No. of	
	Flights	Rev. Pass	Completed	Response
Airport	Surveyed	Count	Surveys	Rate
D		27.101	0.700	~~.
BWI	225	25,101	8,790	35%
DCA	221	17,639	6,639	38%
IAD	227	26,320	9,313	35%
Total	673	69,060	24,742	36%

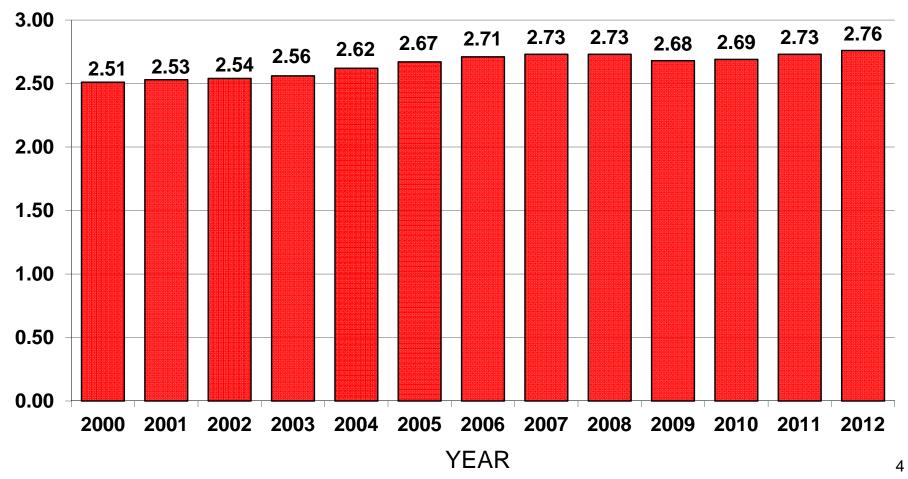
Regional Air Passenger Enplanements Trend (2000 – 2013)



Regional Employment 2000-2012

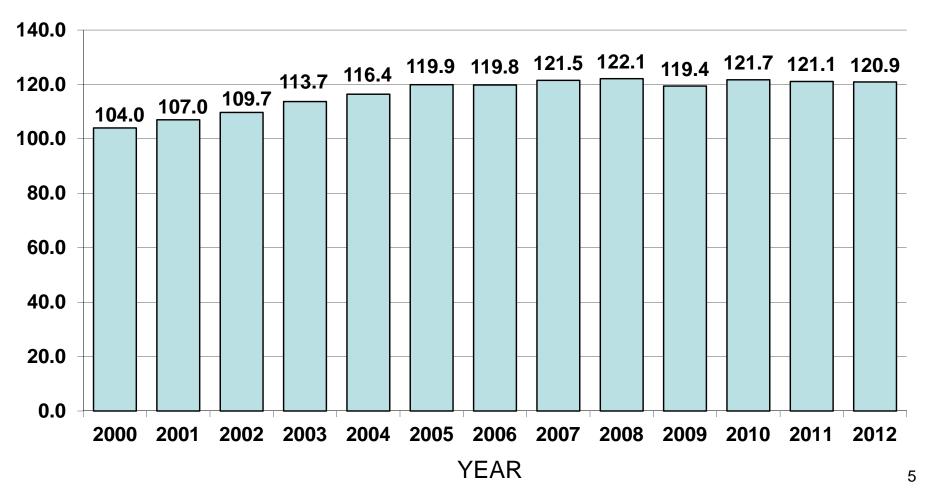
(Wage & Salary Employment in Millions)

Source: Bureau of Labor Statistics, Quarterly Census of Employment and Wages

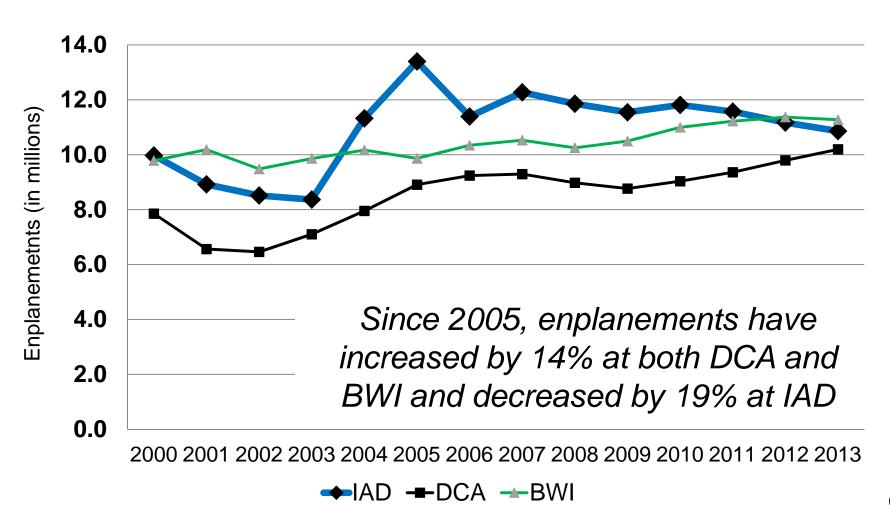


Regional Trend 2000-2012 Daily Vehicle-Miles of Travel

(VMT in Millions)

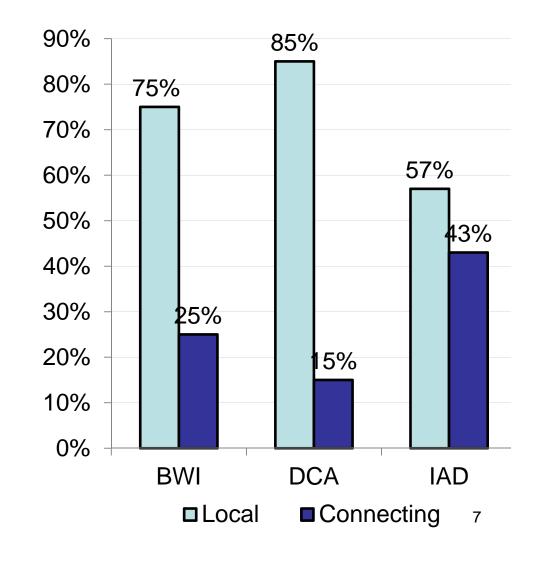


Regional Air Passenger Enplanements Trend (2000 – 2013) by Airport

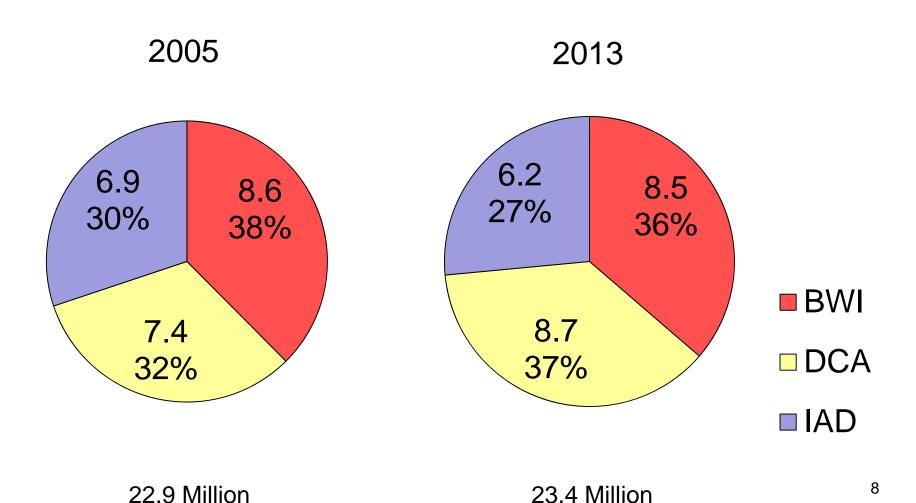


Locally Originating vs. Connecting Passengers (2013)

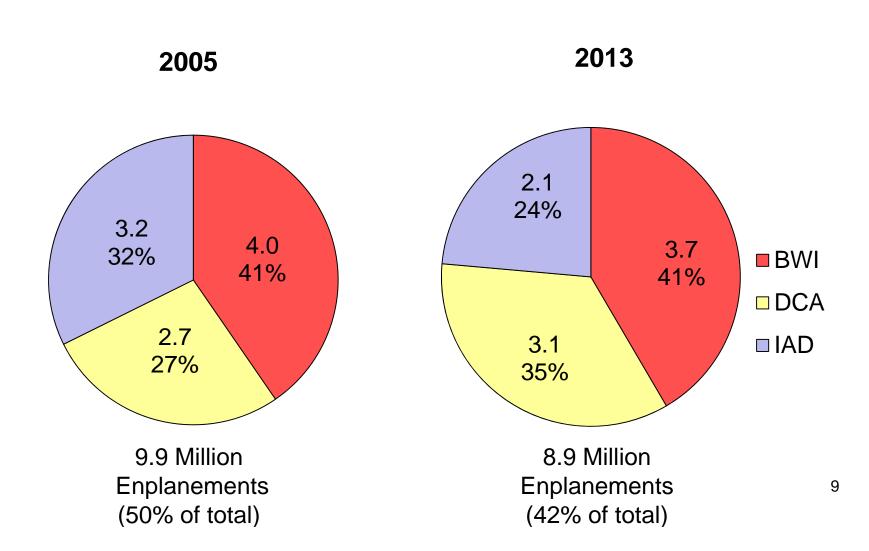
- Locally originating passengers use the regional surface transportation network to access the airport
- Connecting passengers are often flying an airline for which the airport is a hub or focus city



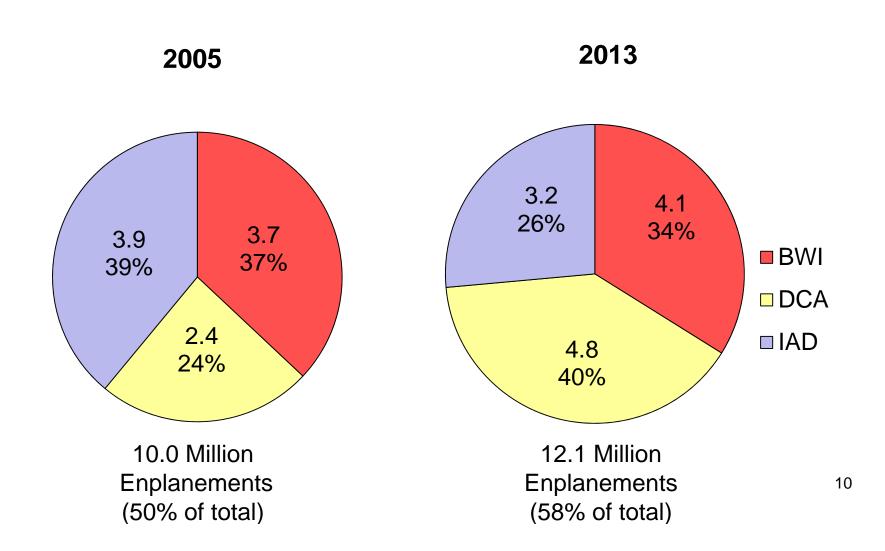
Change in Locally Originating Passengers by Airport



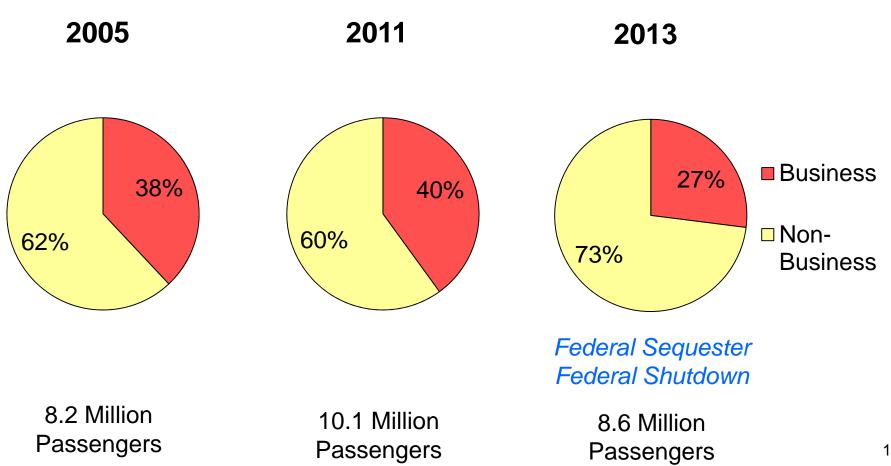
Locally Originating Air Passengers Who Reside in the WashingtonBaltimore Region, by Airport



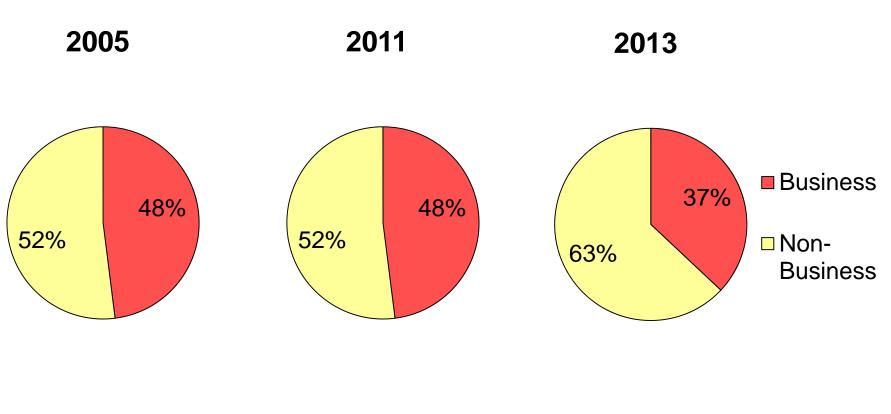
Locally Originating Air Passengers Who Do Not Reside in the WashingtonBaltimore Region, by Airport



Trip Purpose for Air Passengers Who Reside in the Washington-**Baltimore Region**



Trip Purpose for Air Passengers Who Do Not Reside in the Washington-Baltimore Region



11.5 Million Passengers

12.0 Million Passengers

Factors Influencing Airport Choice by Trip Purpose (2013)

	Business	Non- Business	All
Closest airport	59%	53%	55%
Better public ground transportation	2%	3%	3%
Better access roads and parking	3%	3%	3%
More convenient flight times	9%	8%	8%
Only airport with direct flight	7%	6%	6%
Less expensive airfare	10%	19%	16%
Frequent flyer with specific airline	4%	3%	3%
Only airport serving market	3%	2%	2%
Other	3%	3%	3%

Factors Influencing Airport Choice for Business Travelers – by Airport (2013)

	BWI	DCA	IAD	All
Closest airport	58%	70%	45 %	59%
Better public ground transportation	1%	4%	1%	2%
Better access roads and parking	4%	2%	5%	3%
More convenient flight times	8%	8%	13%	9%
Only airport with direct flight	5%	4%	14%	7%
Less expensive airfare	15 %	5%	10 %	10%
Frequent flyer with specific airline	4%	3%	5%	4%
Only airport serving market	2%	2%	5%	3%
Other	4%	4%	3%	3%

Factors Influencing Airport Choice for Non-Business Travelers – by Airport (2013)

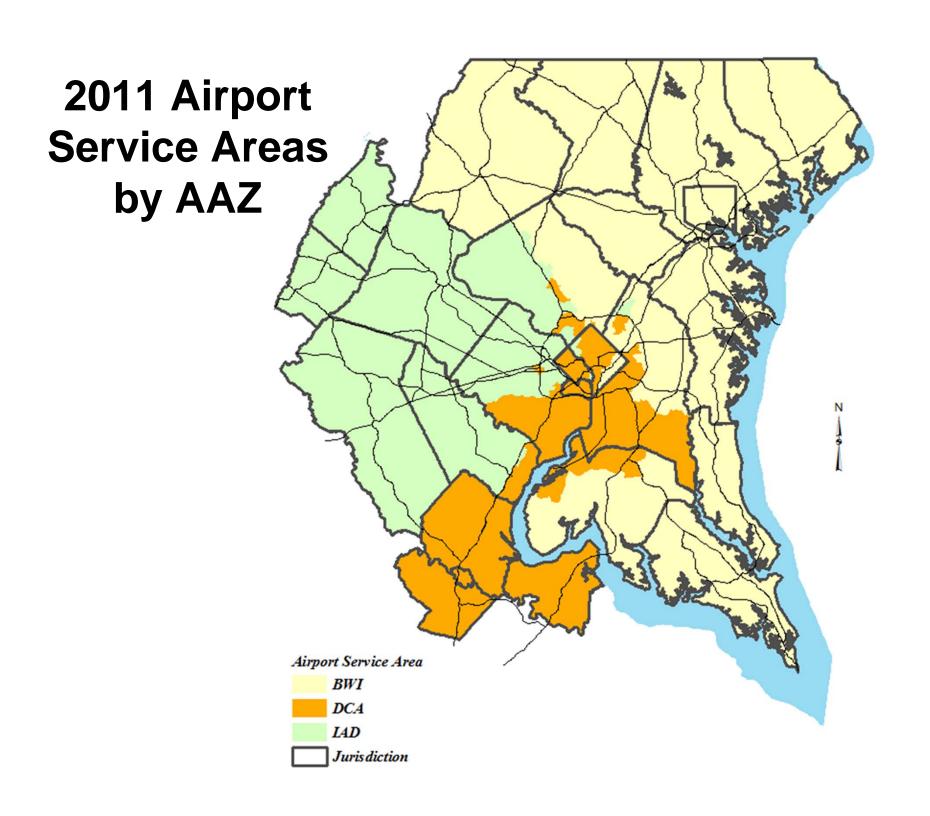
	BWI	DCA	IAD	All
Closest airport	55%	58%	42 %	53%
Better public ground transportation	1%	6%	1%	3%
Better access roads and parking	3%	2%	5%	3%
More convenient flight times	6%	8%	12%	8%
Only airport with direct flight	4%	4%	12 %	6%
Less expensive airfare	24%	15 %	18%	16%
Frequent flyer with specific airline	3%	2%	4%	3%
Only airport serving market	2%	1%	5%	2%
Other	2 %	4%	3%	3%

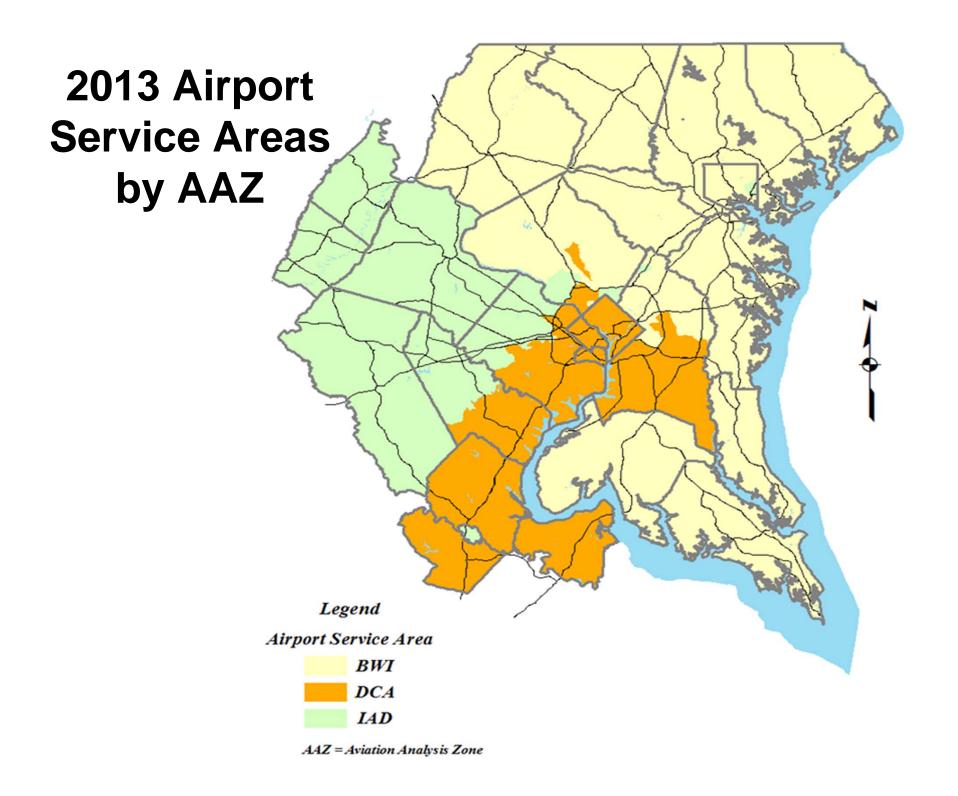
Airport Ground Access Trip Origin (All Airports)

Trip Origin	2009	2011	2013
Private			
Residence	56%	60%	60%
Hotel / Motel	29%	27%	30%
Place of			
Employment	10%	11%	9%
Other	4%	2%	2%
Total	100%	100%	100%

Airport Ground Access Trip Mode of Access (2013)

Travel Mode	BWI	DCA	IAD	
Private Car	64%	34%	50%	
Rental Car	14%	9%	17%	Is this how you usually get to this airport?
Taxi	5%	31%	16%	get to this airport:
Rail Transit	3%	15%	0%	
Airport Bus /				22%
Limo	8%	6%	9%	
Hotel/Motel Bus	5%	4%	4%	■ YES
Metrobus/MTA Bus	1%	1%	2%	81% = 123 NO
Other	1%	1%	1%	
Total	100%	100%	100%	17





Change in Originating Air Passengers by Jurisdiction 2011-2013

	BWI AIRPORT			NAT	IIONAI	IONAL AIRPORT			DULLES AIRPORT				REGION			
ORIGIN COUNTY				%				%		2222		%				%
	2011			Change	2011			Change				Change	2011			Change
Anne Arundel County	1,394	1,310	-84	-6%	42	36	-6	-15%	97	58	-39	-41%	1,533	1,404	-129	-8%
Baltimore City	1,234	1,230	-4	0%	21	56	35	166%	48	49	1	2%	1,303	1,335	32	2%
Baltimore County	878	863	-15	-2%	27	4	-23	-84%	49	58	9	18%	954	925	-29	-3%
Carroll County	135	165	30	22%	3	11	8	261%	22	19	-3	-13%	160	195	35	22%
Harford County	266	179	-87	-33%	2	4	2	89%	5	20	15	294%	273	203	-70	-26%
Howard County	591	525	-66	-11%	15	24	9	58%	55	59	4	7%	661	608	-53	-8%
SUBTOTAL						200										200
BALTIMORE METRO AREA	4,498	4,273	-225	-5%	110	134	24	22%	276	262	-14	-5%	4,884	4,670	-214	-4%
	-									100			100			
Calvert County	54	48	-6	-11%	4	37	33	823%	15	1	-14	-94%	73	86	5.7	18%
Charles County	77	75	-2	-3%	58	63	5	9%	17	20	3	15%	152	157	5	4%
Frederick County	230	229	-1	0%	36	33	-3	-8%	66	59	-7	-11%	332	321	-11	-3%
Montgomery County	892	837	-55	-6%	876	833	-43	-5%	749	670	-79	-11%	2,517	2,341	-176	-7%
Prince Georges County	519	537	18	3%	402	451	49	12%	174	134	-40	-23%	1,095	1,122	27	2%
SUBTOTAL																
MARYLAND SUBURBS OF DC	1,772	1,726	-46	-3%	1,376	1,418	42	3%	1,021	883	-138	-13%	4,169	4,027	-142	-3%
								24/								
City of Alexandria	81	69	-12	-14%	539	529	-10	-2%	170	180	10	6%	790	778	-12	-2%
Arlington County	153	87	-66	-43%	1,468	1,317	-151	-10%	499	320	-179	-36%	2,120	1,724	-396	-19%
Fairfax County	287	171	-116	-41%	1,219	1,188	-31	-3%	2,252	1,624	-628	-28%	3,758	2,983	-775	-21%
Loudoun County	54	46	-8	-15%	75	123	48	65%		822	-91	-10%	1,042	991	-51	-5%
Prince William County	42	58	16	38%	204	238	34	16%		268	-177	-40%	691	563	-128	-18%
Stafford County	6	10	4	60%	65	60	-5	-8%	64	35	-29	-46%	135	104	-31	-23%
SUBTOTAL																
VIRGINIA SUBURBS OF DC	623	440	-183	-29%	3,570	3,454	-116	-3%		-	-1,094	-25%	8,536	7,144	-1,392	-16%
District of Columbia	676	569	-107	-16%	2,900	3,261	361	12%	1,280	1,038	-242	-19%	4,856	4,867	11	0%
Outlying Areas	133	148	15	11%	138	149	11	8%	187	149	-38	-20%	458	446	-12	-3%
Externals	1,054	1344	290	27%	121	270	149	123%	383	633	250	65%	1,558	2,246	688	44%
Total	8,756	8,500	-256	-3%	8,215	8,686	471	6%	7,490	6,214	-1,276	-17%	24,461	23,400	-1,061	-4%

Data for the Cities of Fairfax and Falls Church are included in the Fairfax County totals, and data for the Cities of Manassas and Manassas Park are included in the Prince William County totals.

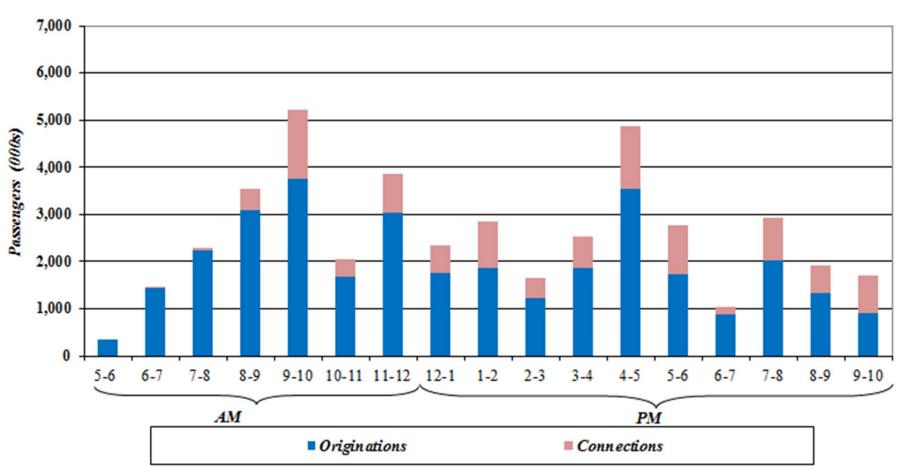
Outlying Areas include Clarke, Fauquier, King George, and Spotsylvania Counties in VA, the City of Fredericksburg VA, St. Mary's County in MD, and Jefferson County WV,

Externals include jurisdictions outside the air system planning region.

Source: 2011 and 2013 Washington-Baltimore Regional Air Passenger Surveys

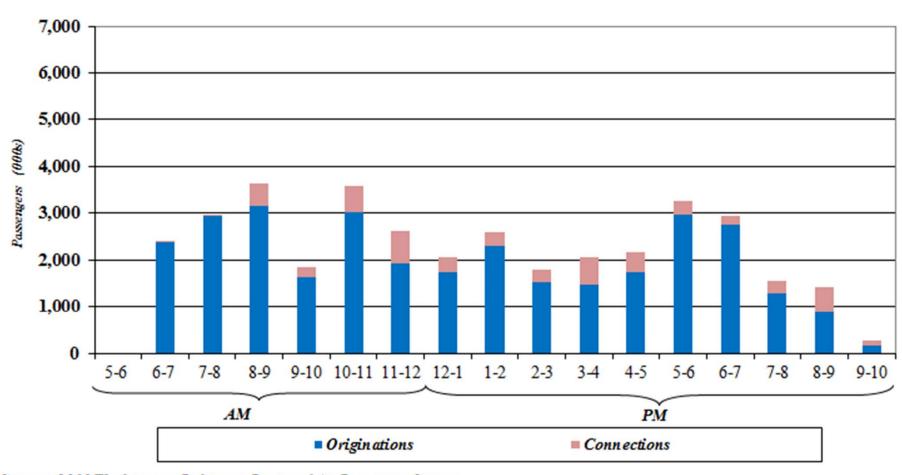
Diurnal Distributions of Air Passenger Activity by Airport

Passenger Activity at BWI is High Through Most of the Day



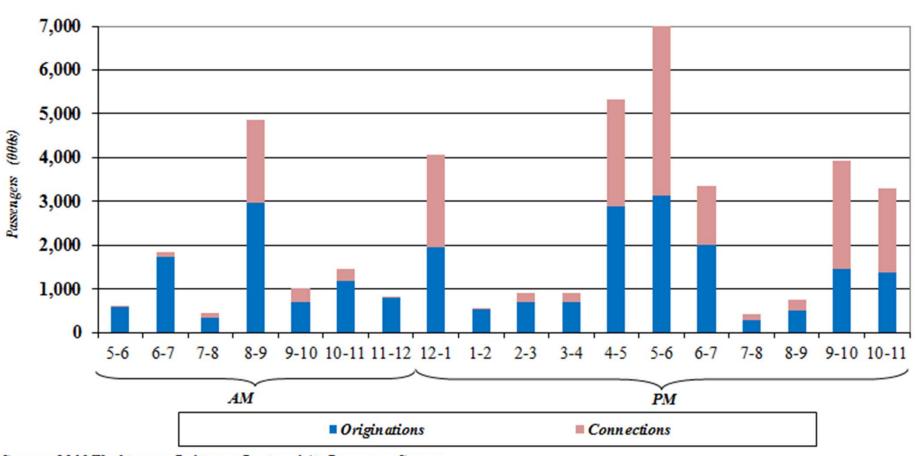
Source: 2013 Washington-Baltimore Regional Air Passenger Survey

Passenger Activity at DCA is Less Peaked Than BWI and IAD



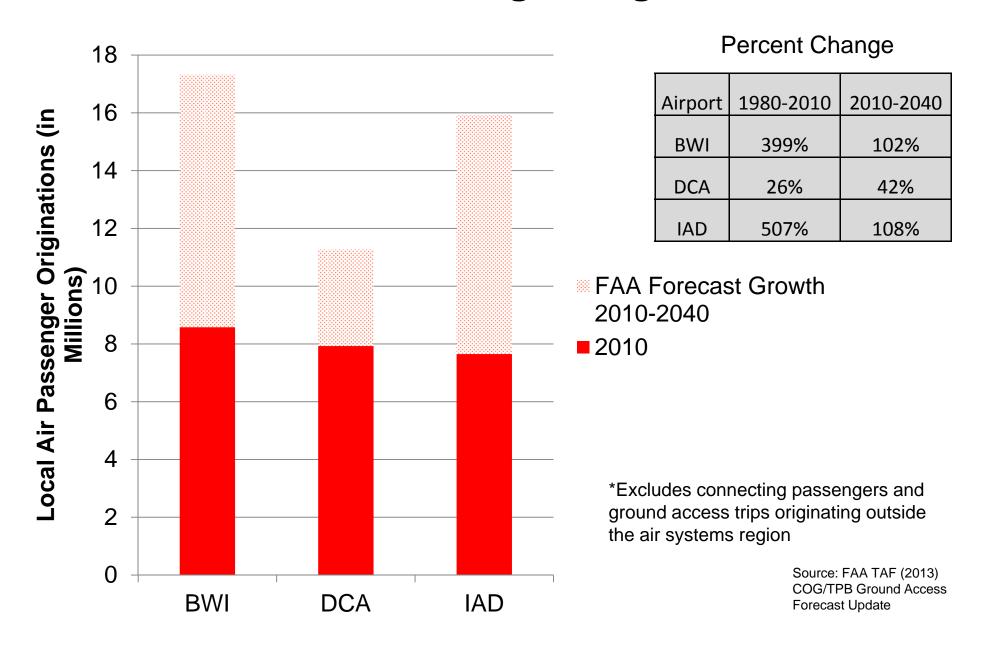
Source: 2013 Washington-Baltimore Regional Air Passenger Survey

Passenger Activity at IAD is Representative of a Long-Haul Airport

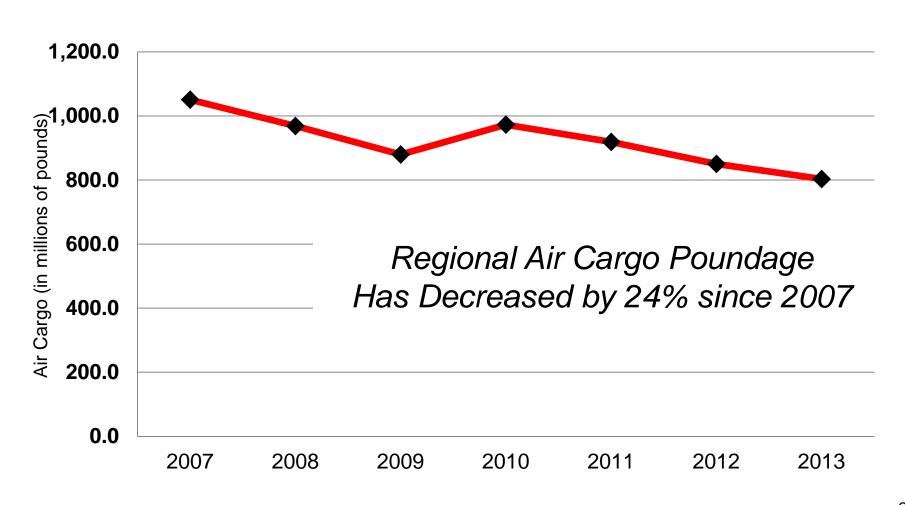


Source: 2013 Washington-Baltimore Regional Air Passenger Survey

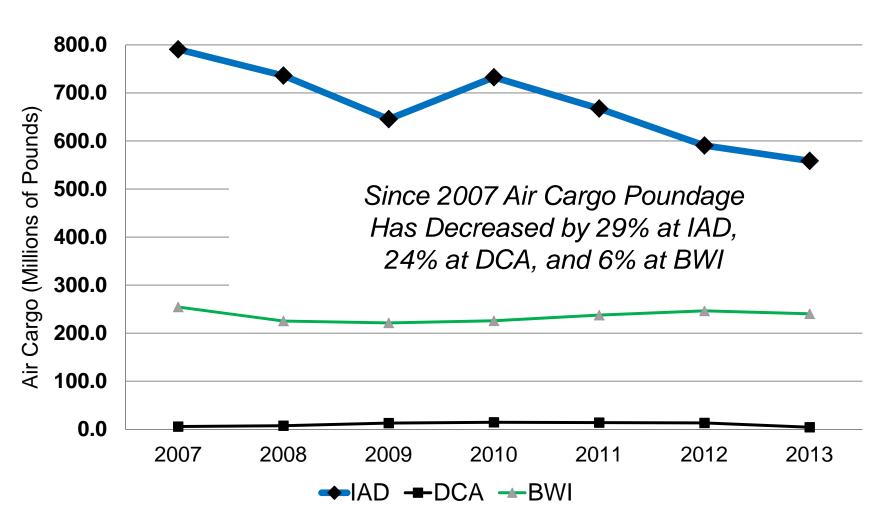
Historic and Forecast Growth in Local Air Passenger Originations*



Regional Air Cargo Trends (2007 – 2013)



Regional Air Cargo Trends (2007 – 2013) by Airport



Air Cargo Forecasts

- Industry forecasts show between 2% and 8% annual growth in air cargo for the next two decades
 - Asian markets forecast for most growth
- Currently, growth in air cargo is slow, and load factors are below 50%
- Update of the Air Cargo Element of the Regional Airport System Plan (just begun) will examine the forecasts in greater detail

Our Region's Airports: Challenges and Opportunities

- 1. Impact of Federal government reductions
- 2. Capacity limits at DCA
- New service from Low Cost Carriers into DCA and IAD
- 4. Air cargo growth initiatives at IAD
- 5. ICC (MD 200) improves access for BWI
- 6. Weekend MARC service improves access for BWI
- 7. Silver Line improves access for IAD
- 8. IAD Western Access

Our Airports' Importance to Our Region's Economy

Economic Impact of BWI

- ▶ \$5.6B in business revenue
- ▶ \$3.6B in personal income
- \$2.0B in local purchases
- \$721M in state/local/aviation taxes
- ▶ 93,791 jobs

Economic Impact of DCA+IAD

- ▶ \$19.8B in business revenue
- \$14.6B labor income
- \$3.1B in state/local/aviation taxes
- ▶ 371,000 total jobs

Sources: The Regional and Local Economic Impacts of the Baltimore/Washington Thurgood Marshall Airport, July 2011; MWAA 2012 Economic Impact Study, May 2014

Summary

- Regional air passenger enplanements have been flat since 2005, but traffic has been shifting between BWI, DCA, and IAD
- Regional air cargo volumes have been decreasing since 2007
- Forecasts indicate future regional growth in both air passengers and air cargo
- Maintaining and improving our airports and ground access connections to our airports is crucial to the region's future economic growth and prosperity
- ▶ The impact of future reductions in the Federal workforce is the biggest challenge to air passenger growth

Next Steps

- Publish final survey report and survey data files next week
- Preparation of Ground Access Forecasts based on 2013 survey data and FAA horizon year data
- Transmit forecasts to Models Development Team for preparation of airport trip tables model input
- Update of Air Cargo Element
- Regional Airports Forum September 26th at noon in Board Room
- Presentation of survey findings to Technical Committee and TPB on October 3rd and October 15th
- Presentation on regional airports infrastructure to COG Board on October 8th

