

Echoes from the Boom:

The Impact of Population Growth on Maryland Higher Education

**Association for Institutional Research
Boston, MA**

June 1, 2004

MD Joint Workgroup, AIR 2004

Membership

**Institutional research professionals from:
University System of Maryland (USM)
Maryland community colleges**

**Representatives from private institutions
and the Maryland Higher Education
Commission (MHEC) provided input and
feedback**

Our Goal

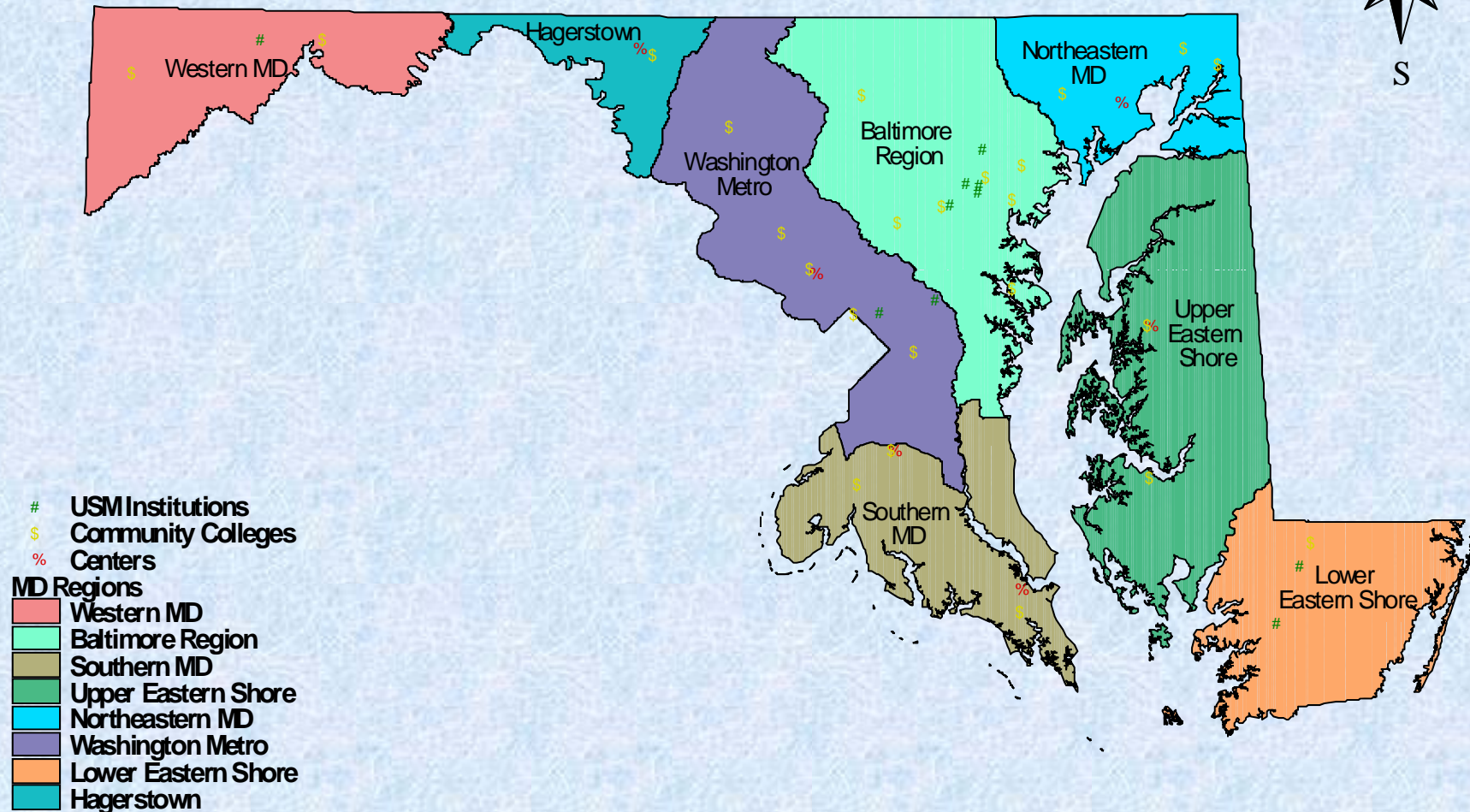
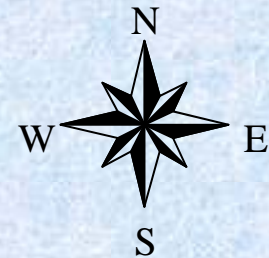
**To characterize the demand for, access to, and capacity of higher education in Maryland.
Specifically:**

- 1) Examine access for transfer students**
- 2) Describe the demand for higher education using a pipeline model**
- 3) Estimate the impact of demand on capacity and affordability**

Regional Issues

- **Regional data were examined to analyze student access and enrollment needs**
- **Using Geographic Information Software the state was divided into regions associated with educational institutions**
- **The regions were further refined to reflect students historical enrollment patterns**

USM Institutions, Community Colleges, and Centers by Maryland Regions



70 0 MD Joint Workgroup, 70R 2004 140 Miles

DRAFT
March 5, 2003

Access for Transfer Students

- Describe the access for transfer students
- Limited to USM institutions
- Examined Fall 2001 cohort
- Assumptions:
 - Last institution was a MD CC
 - “No Action” existed

ACCESS: Transfer Students

- **7,808 applications (Comm. College to USM)**
 - **82% accepted**
 - **73% of those accepted actually enrolled**
 - **8% rejected**
 - **10% no action**
- **636 multiple applicants; 10 rejected altogether**

Access by Discipline

Fall 2001

MD Community College Transfer Student Applications Intended Major

Intended Major	Applied	Accepted #	Accepted %	Rejected #	Rejected %	No Action #	No Action %	Enrolled #	Enrolled % Of Admits
Business and Management	1,255	1,072	85.4	70	5.6	113	9.0	791	73.8
Computer and Information Sciences	1,000	851	85.1	65	6.5	84	8.4	636	74.7
Education	788	659	83.6	44	5.6	85	10.8	482	73.1
Social Sciences	581	474	81.6	43	7.4	64	11.0	355	74.9
Health Professions	569	406	71.4	102	17.9	61	10.7	305	75.1

Regional Access

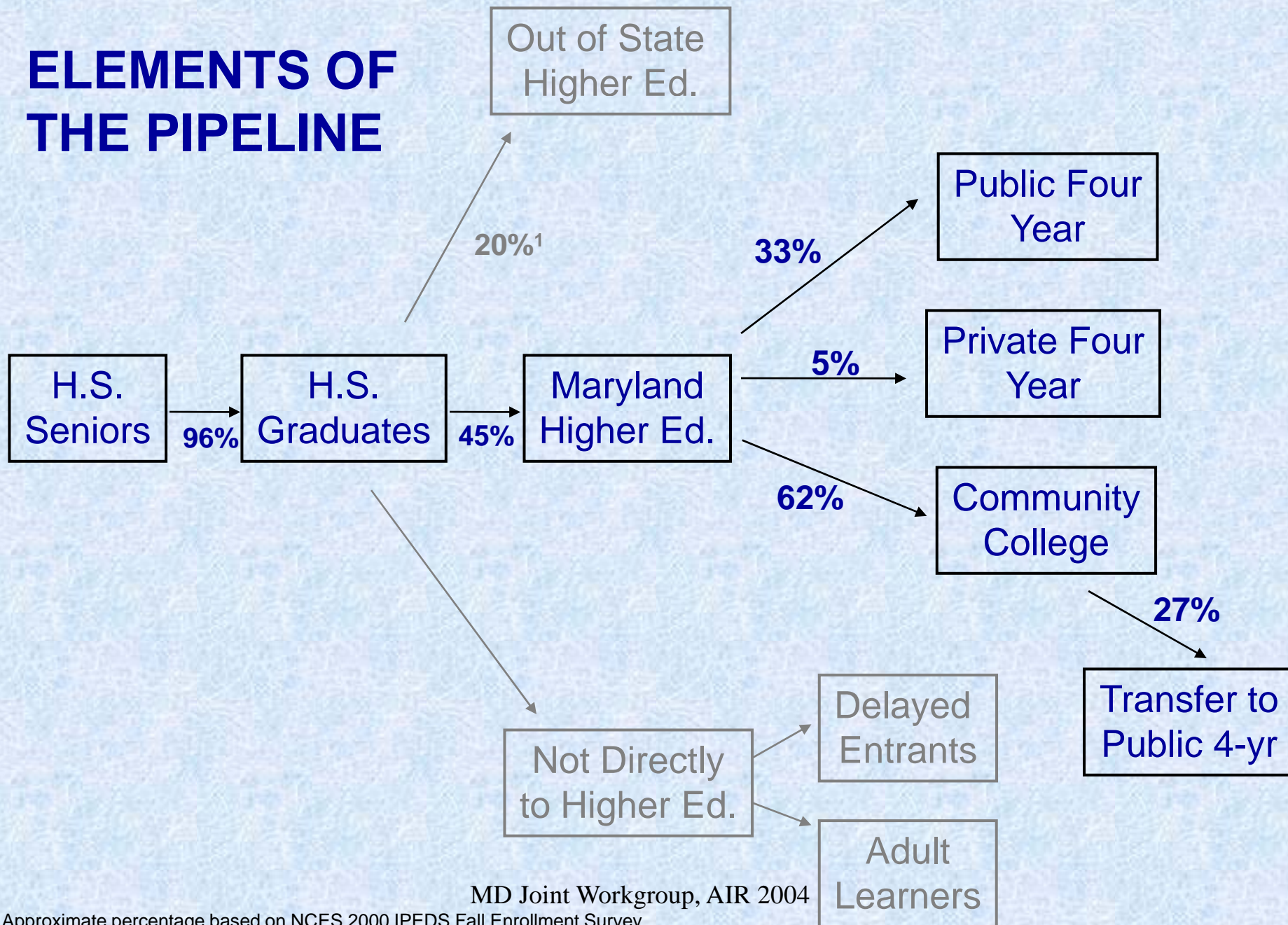
Fall 2001

	Applied	Accepted #	Accepted %	Rejected #	Rejected %	No Action #	No Action %	Enrolled #	Enrolled % Of Admits
Western MD	133	124	93.2	3	2.3	6	4.5	110	88.7
Hagerstown	136	118	86.8	5	3.7	13	9.6	74	62.7
Baltimore Metro	3,217	2,631	81.8	257	8.0	329	10.2	1,894	72.0
Washington Metro	3,194	2,543	79.6	315	9.9	336	10.5	1,868	73.5
Northeastern MD	368	317	86.1	13	3.5	38	10.3	228	71.9
Southern MD	504	447	88.7	24	4.8	33	6.5	318	71.1
Upper Eastern Shore	125	86	68.8	9	7.2	30	24.0	64	74.4
Lower Eastern Shore	131	115	87.8	9	6.9	7	5.3	102	88.7
All Institutions	7,808	6,381	81.7	635	8.1	792	10.1	4,658	73.0

Enrollment Projections

- **Official state projections**
- **Demand model examines the flow of students at the state level**
 - **3 streams**
 - **varied assumptions**
- **Two sets of projections form a range**

ELEMENTS OF THE PIPELINE



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¹ Approximate percentage based on NCES 2000 IPEDS Fall Enrollment Survey

Projected Demand from Entering Undergraduates

	Actual Fall 2001	Projected		Difference			
		2005-06	2010-11	Actual - FY06		Actual - FY11	
				Number	Percent	Number	Percent
Entering Community Colleges (First-time)	26,686	32,363	36,280	5,677	18%	9,594	36%
Entering Public Four Years	20,443	21,065	23,839	622	3%	3,396	17%
Total	47,129	53,428	60,119	6,299	12%	12,990	28%

Note: Actuals represent fall 2001 first-time students and transfer students who were enrolled in public four-years during fall 2001 after enrolling in a community college in fall 2000. Fall numbers may under-represent total fiscal year entrants.

Current and Projected Undergraduate Enrollment

	Fall 2001	Fall 2005			Fall 2010		
	Actual	Projected	Difference	% Change	Projected	Difference	% Change
Community Colleges	109,411						
MHEC		123,093	13,682	13%	132,361	22,950	21%
Wkgp		125,973	16,562	15%	146,769	37,358	34%
Public Four Years	95,251						
MHEC		105,423	10,172	11%	117,624	22,373	23%
Wkgp		106,189	10,938	11%	121,204	25,953	27%
TOTAL	204,662						
MHEC		228,516	23,854	12%	249,985	45,323	22%
Wkgp		232,163	27,501	13%	267,973	63,311	31%

PROJECTIONS: Regional

	Actual Fall 2001			Projected FY 2011			Difference Actual Fall 2001 to Proj. FY 2011					
	New CC	Transfer	New 4 Yr	New CC	Transfer	New 4 Yr	CC Entrants		Transfer		New Pub 4 Yr	
							#	%	#	%	#	%
Baltimore Metro	11,208	2,916	3,778	14,481	3,572	5,223	3,273	29.2%	656	22.5%	1,445	38.2%
Lower Eastern Shore	736	210	604	871	274	569	135	18.4%	64	30.7%	-35	-5.7%
Frederick/Hagerstown *	2,315	359	437	2,894	571	641	579	25.0%	212	58.9%	204	46.7%
Northeast Maryland	1,762	386	442	2,295	578	556	533	30.2%	192	49.7%	114	25.8%
Southern Maryland	1,416	550	428	2,104	663	662	688	48.6%	113	20.6%	234	54.7%
Upper Eastern Shore	504	143	217	756	235	319	252	50.1%	92	64.3%	102	46.9%
Washington County *	834	111	113	847	156	129	13	1.5%	45	40.5%	16	14.1%
Washington Metro *	8,823	2,773	3,869	14,221	3,480	5,726	5,398	61.2%	707	25.5%	1,857	48.0%
Western Maryland	1,403	168	213	896	196	232	-507	-36.1%	28	16.4%	19	8.9%

Actuals for new students are Fall 2001 new freshmen.

Actuals for transfer students are AY transfers (i.e., those students enrolled in a community college in fall 2000 and enrolled in a public four year in fall 2001).

* Note: The Frederick/Hagerstown Region includes Frederick and Washington counties, both of which are part of other regions. Frederick is also included in the Washington Metro region, and Washington county is its own region.

Accommodating Capacity

- **Defined by facilities and funding**
- **Space: Net Assignable Square Feet**
- **Funding: Operating Budget**
 - **tuition and fees**
 - **local funds**
 - **state appropriations**

Facilities

- **Current deficit at 2.6 million NASF**
- **Expected to grow to 3.3 million NASF**
- **Assumptions:**
 - **CIP is fully funded**
 - **Minimum enrollment growth**

Funding

- **Three points in time**
 - **Base Year, FY06, FY11**
- **Units of analysis**
 - **Total budget need**
 - **Base Year: \$2.2 billion**
 - **\$/FTE**
 - **Base Year: \$11,853**
- **Two models**
 - **Base**
 - **Target**

Funding Estimates

- **Base**
 - **Additional \$1.3 billion in FY11**
 - **Increase of \$3,451 in \$/FTES**
- **Target**
 - **Additional \$3.1 billion in FY11**
 - **Increase of \$10,658 in \$/FTES**

Affordability

- **Uses funding models**
 - **Proportion state, tuition, local**
- **If state funding remains flat to FY 11, tuition revenue will increase**
 - **Base Model 60% - 70%**
 - **Target Model 150% - 200%**
 - **% State funding drops considerably**

Summary and Conclusions

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Transfer Student Access

- **Transfer students have greater access than anecdotal evidence suggested**
- **Students in critical workforce areas are generally accepted to 4 year schools**
- **Recommendations**
 - ✓ **Encourage students to apply to multiple institutions**
 - ✓ **Explore reasons why students are not enrolling**
 - ✓ **Examine application process**
 - ✓ **Examine access in terms of credits transferred**
 - ✓ **Continue to monitor transfer process**

Enrollment Growth

- **Public institutions will need to absorb up to 63,000 new students in Fall 2010**
- **Baltimore and Washington regions expect to see the highest numbers of growth**
- **Recommendations**
 - ✓ **Increase throughput**
 - ✓ **New models**

Impact on Affordability

- **Tuition could double or triple by FY 11 with increases up to 12% annually**
- **Dependent on state and local funding**
- **Recommendations**
 - ✓ **Conduct a thorough review of affordability**
 - ✓ **Increase state support of financial aid**

Wrapping it up ...

Political Framework and Implications

Joint process of segments

Monitor and evaluate

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