Modeling Attainment in Virginia

Nate Johnson Wendy Kang Tod Massa SSHIOCommunity of Practice—Data Mideling and Visualization in Support of State
Attainment Goals

Denver, C January 31, 20





Key Questions the Panel will Address

- How is data central to SCHEV's mission?
- How do visualization and interactivity make data more concrete for users?
- What policy and public choices have been informed by SCHEV data?
- What are tools the state is using to frame and understand attainment challenges?

New SCHEV Dashboard Site

Higher Ed Data for Virginia

Home Big Questions Interactive Charts Topics Institutions FAQs

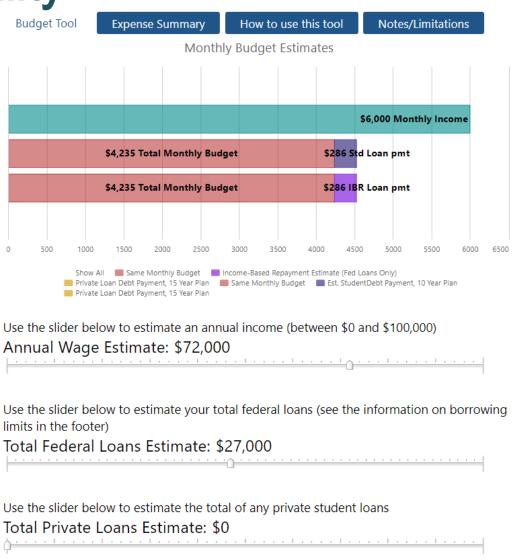
Here you will find data on 15 public four-year institutions; 23 community colleges and one junior college; and 31 private nonprofit colleges.

Students were enrolled in the Commonwealth in the fall semester of 2017-18. There were 48,946 new students from Virginia high schools and 14,511 new transfer students from public two-year colleges.

Learn more...

http://dashboards.schev.edu/

Tool for Understanding Impact of Student I Affordability



Tool for Visualizing Graduate Wage Da

Talent Supply and 2017 Earnings by Locality Number of years following graduation: one to four years ▼ Four-Year Bachelor's Degree Select Degree Level: Disciplines **Broad Programs Specific Programs** Select a program: | Business and Communication Update Below are estimates of the residence and earnings of recent graduates of Virginia public and nonprofit institutions for each locality in the Commonwealth, for which information is available. Median Wage Variation by Locality \$25,001 to 35,000

Tool for Making the Case for College

The Value of College

Why should I go to college?

10 years after graduating Virginia high schools, your earnings will likely be higher.



http://dashboards.schev.edu/why

-college

Informing Policy with Data

- Overview infographic (link?)
- HS Feedback
- Attainment gaps and underrepresented populations
- Enrollment and degree projections

Tools for Policy Chakeral Overview

VIRGINIA HIGHER EDUCATION SNAPSHOT STATE COUNCIL OF HIGHER EDUCATION FOR VIRGINIA



Institutions and Students

15 Public Four-Year Institutions

Medical

School

Public Two-Year Institutions 5 Regional Higher **Ed Centers**

Private, Nonprofit Colleges & Universities For-Profit, Out-Of-State or Vocational Institutions

2017-18 Fall Headcount

Public/Private

169,034 2-year Public Institutions

4-year Public 219,300 Institutions

Private, Non-profit 133,110 Institutions

Student Outcomes

Awards Earned in 2017-18 (diplomas, degrees, certificates)

119,980

Virginia's higher education institutions have the second-highest public four-year graduation rate in the nation.

Median Wage 5 Years After Graduation

\$46,409

\$34,467

Bachelor's Degree

Associate Degree

Cost of Higher Education

2018-19 Average Total Charges

(Tuition, all mandatory fees and room and board where applicable)

4-Year Public Institutions

2-Year Public Institutions (community colleges)

\$24,003

\$4,620

Need and Value



Of the 11.5 million new jobs created since the great recession, 99% require workers with more than a high-school education.

Virginia Student Debt (2016-17)

Bachelor's Degree



75th Percentile	\$37,393		
Median	\$26,720		
25th Percentile	\$17,690		

Lifetime Earnings

\$2.3 million

Bachelor's

Associate

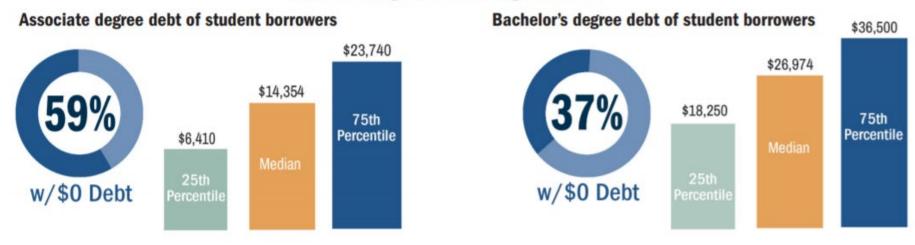
Tools for Policy Trappier Specific

Q: What is the debt of a Virginia graduate?

A: Debt is rising overall, but remains at zero for many.

Similar to national trends, total debt and the number of borrowers in Virginia has increased steadily over the last 20 years. However, many students graduate with no debt at all. Of those who borrow, median debt in Virginia remains under \$15,000 for an associate degree and \$30,000 for a bachelor's.

Debt of Virginia's 2015 graduates



http://schev.edu/docs/default-source/virginia-plan/Reports-and-Updates/debtaccessible.pdf

Tools for Policy Trappier Specific

Q: Does higher education pay?

A: Wages increase with educational attainment.

After graduation, individuals with degrees experience better wage Bachelor's outcomes over time than those \$54,554 with high-school diplomas alone. **Associate** (Technical) \$45,571 Associate (Transfer) \$45,000 H.S. Diploma \$27,223 Median wages, 10 years post-graduation

http://schev.edu/docs/default-source/virginia-plan/Reports-and-Updates/wagesaccessible.pdf

Tools for Secondary Education

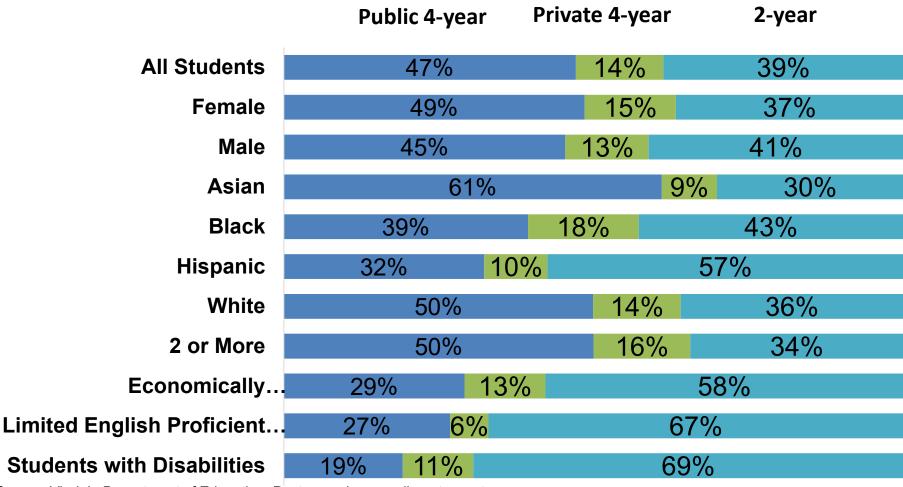
40 school divisions showing high and recognized need for postsecondary-access resources (based on 2014 data)



^{*} Divisions demonstrating "persistent need"

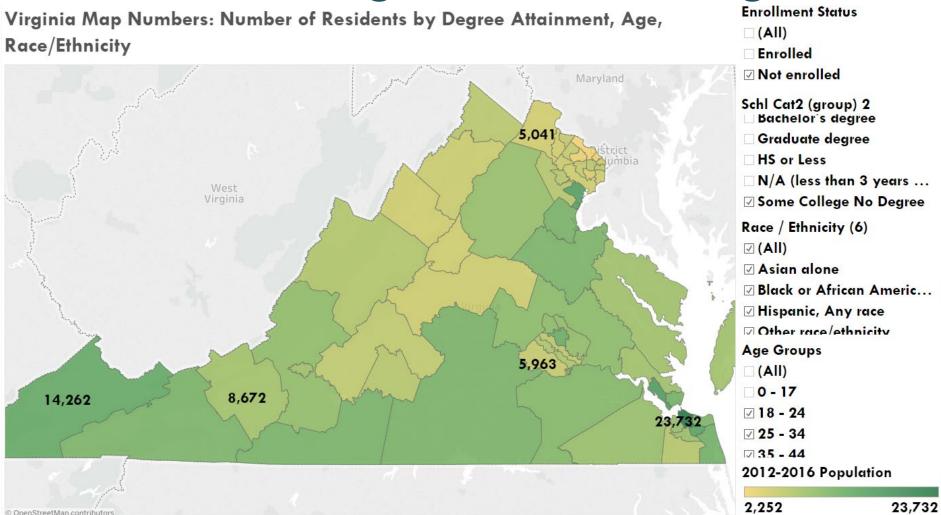
Tools for Secondary Education

Where Did 2015 HS Graduates Go to College?



Source: Virginia Department of Education. Postsecondary enrollment report https://p1pe.doe.virginia.gov/postsec_public/postsec.do?dowhat=LOAD_REPORT_C11

Understanding and Visualiziegtslon



https://public.tableau.com/views/VirginiaACSExample/VirginiaMapNumbers?:embed= y&:display_count=yes&publish=yes

Understanding and VisualiziegtNon

Employment and Income: Percent Employed with Income at or Above \$40,000

		Degree Status				
		Associate or higher		No degree		
		% of 2012-2016 Population	2012-2016 Population	% of 2012-2016 Population	2012-2016 Population	
Employed	Income at or above	54%	298,562	19%	112,247	
	Income below	32%	178,008	53%	319,788	
Unemployed or not in labor force	Income at or above	1%	4,204	0%	2,760	
	Income below	13%	69,064	28%	167,288	