

Cyber Security Education

in Virginia Public Colleges and Universities

National Program

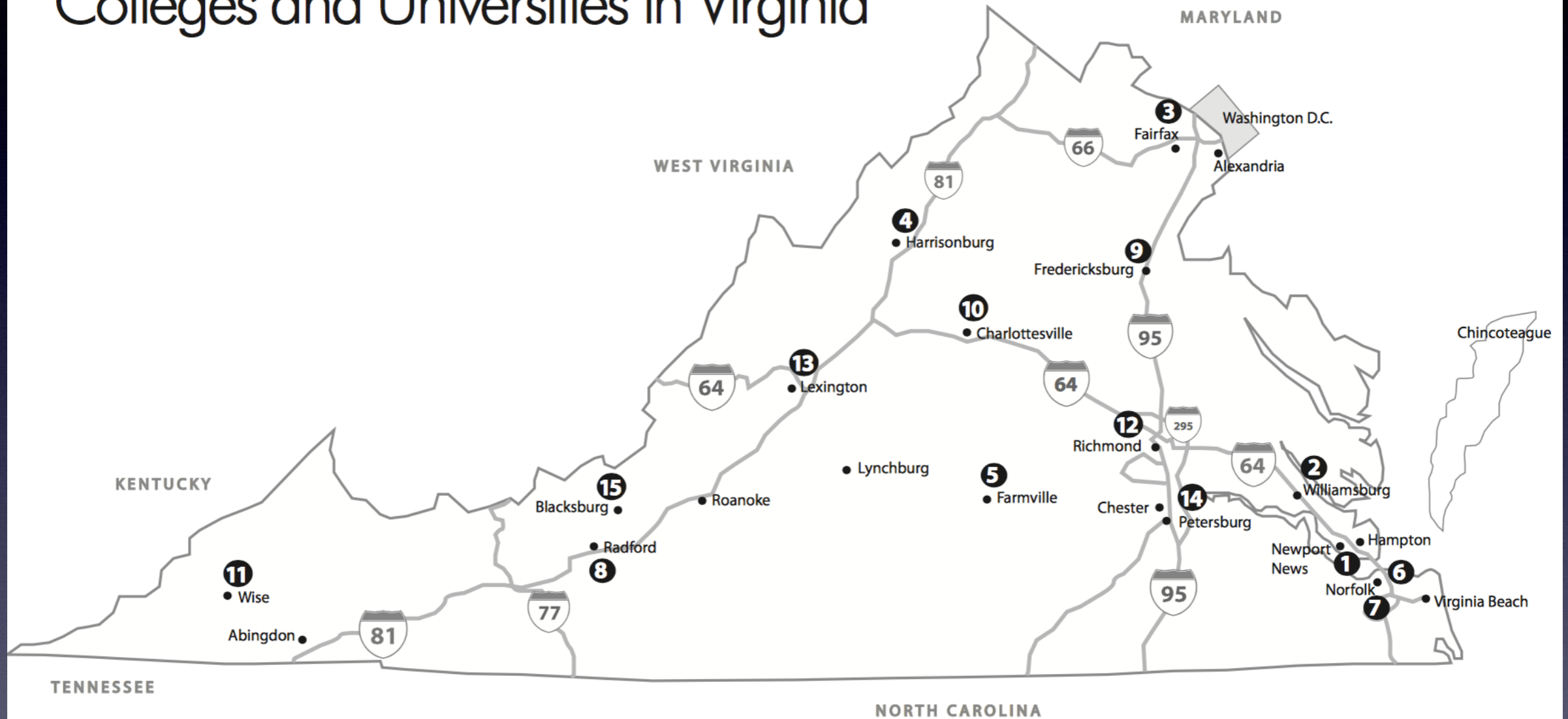
- Academic Centers of Excellence in Information Assurance
- Cyber Corps Scholarship for Service
- Administered by the National Science Foundation, Homeland Security, and NSA

Three Components

- Teaching: 4 year colleges
- Research
- Teaching: 2 year colleges

15 Public Universities and Four Year Colleges in Virginia

Colleges and Universities in Virginia



1. Christopher Newport University
2. College of William and Mary
3. George Mason University
4. James Madison University
5. Longwood University
6. Norfolk State University
7. Old Dominion University
8. Radford University

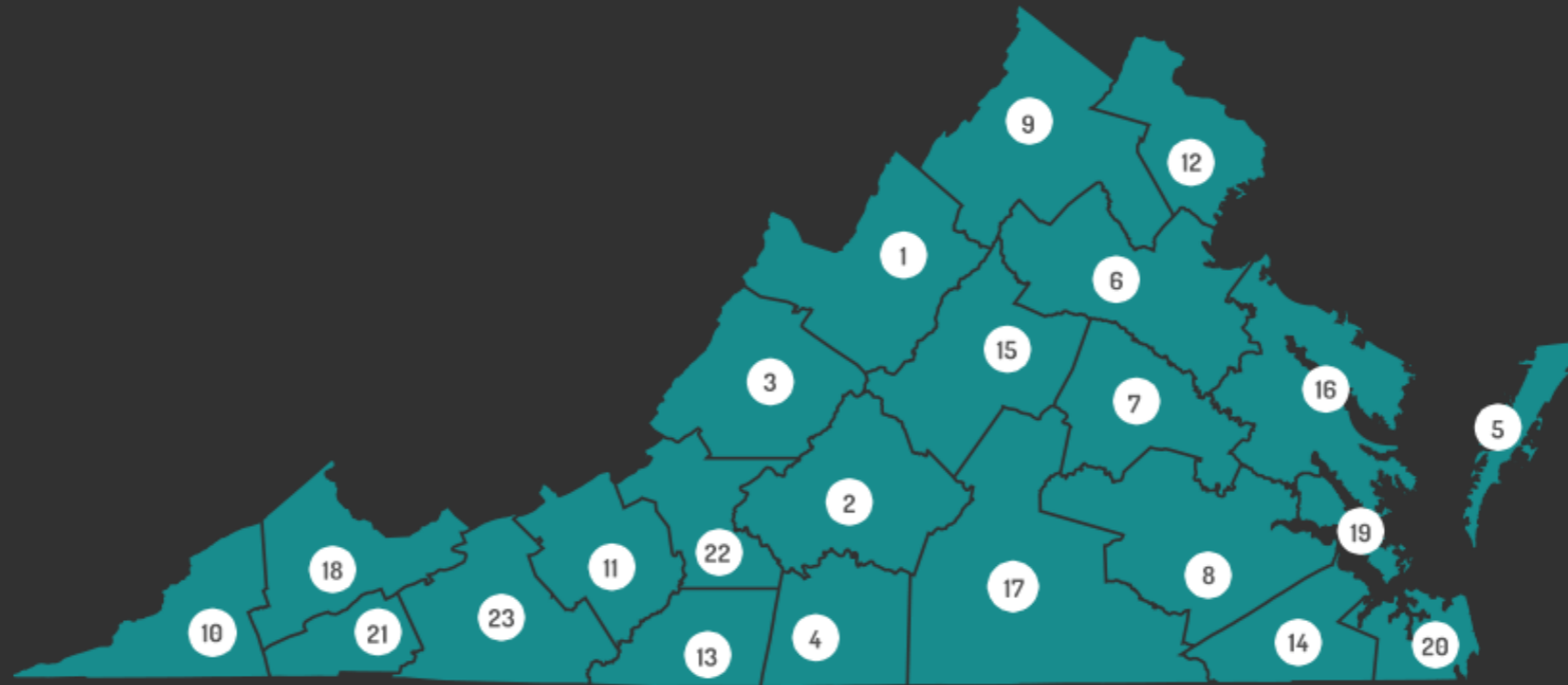
9. University of Mary Washington
10. University of Virginia
11. UVA's College at Wise
12. Virginia Commonwealth University
13. Virginia Military Institute
14. Virginia State University
15. Virginia Tech

State Council of Higher Education for Virginia

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23 Community Colleges on 40 Campuses



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|---|--|----|-------------------------------------|----|--------------------------------------|
| 1 | Blue Ridge Community College | 9 | Lord Fairfax Community College | 17 | Southside Virginia Community College |
| 2 | Central Virginia Community College | 10 | Mountain Empire Community College | 18 | Southwest Virginia Community College |
| 3 | Dabney S. Lancaster Community College | 11 | New River Community College | 19 | Thomas Nelson Community College |
| 4 | Danville Community College | 12 | Northern Virginia Community College | 20 | Tidewater Community College |
| 5 | Eastern Shore Community College | 13 | Patrick Henry Community College | 21 | Virginia Highlands Community College |
| 6 | Germanna Community College | 14 | Paul D. Camp Community College | 22 | Virginia Western Community College |
| 7 | J. Sargeant Reynolds Community College | 15 | Piedmont Virginia Community College | 23 | Wytheville Community College |
| 8 | John Tyler Community College | 16 | Rappahannock Community College | | |

Virginia Participation in Centers of Excellence in Information Assurance

- Teaching four year: 5 (3 of which are Public, GMU, JMU, and Norfolk State)
- Research: 2 (both Public, GMU and VA Tech)
- Community Colleges: 1, NOVA

Comparison of VA and MD Participation in Cyber Sec Teaching Programs

- Univ/Colleges in Programs: VA-5, MD-9
- Public Univ/Colleges in Programs: VA-3, MD-5
- Community Colleges in Program: VA-1, MD-7

Population: VA-8mil MD-6mil

Our Goals for Virginia

- Large Four Year Public Universities: from 2 out of 6 teaching centers now... to all 6 by 2016
- Now: George Mason and James Madison
- Add by 2016: UVA, VA Tech, VCU, Old Dominion

Our Goals for Virginia

- Small-to Medium Four Year Public Universities: from 1 out of 9 teaching centers now to 4 in 2017
- Now: Norfolk State University
- Suggested additions: UVA-Wise College, Christopher Newport, Virginia State University

Our Goals for Virginia

- Community Colleges: from 1 out of 23 now
- To: 6 by 2016, 9 by 2017
- Possible additions by 2016: Mountain Empire, Southside, Lord Fairfax, Thomas Nelson, Tidewater
- Possible additions by 2017: Wytheville, Germanna, J. Sargent Reynolds

To meet our goals...

- Fund new faculty development and certification program, including adjunct faculty
- May need to equip some computer science classrooms and labs
- Recruit students from existing student population... and from high schools, military bases, employers, and general population

Next Steps

- Determine target size of students and faculty per institution
- Discuss with colleges/universities
- Explore federal funding
- Determine Commonwealth contributions needed
- Report back NLT January