

The Governor's Cyber Security Initiative

Cameron Kilberg

Assistant Secretary and Senior Policy Advisory

Office of the Secretary of Technology

Virginia's Cyber Ecosystem



Virginia's Cyber Ecosystem: Business

- Over 300 cyber security focused companies.
- These companies offer a breadth of technologies and services: network infrastructure, authentication, biometrics, modeling and simulation, encryption products and network security customization, just to name a few.

Virginia's Cyber Ecosystem: Federal Assets

- 10 Federally Funded Research Centers;
- DoD research Centers;
- DARPA;
- NASA Langley Research Center;
- Homeland Security Studies and Analysis Institute;
- Dept of Energy's Thomas Jefferson National Accelerator Facility;
- Navy Cyber Defense Operations Command (NCDOC) (Joint Expeditionary Base Little Creek-Fort Story, Norfolk VA).
- CIA;
- The Pentagon; and
- The U.S. Army Cyber Command (Fort Belvoir).

Virginia's Cyber Ecosystem: Data Centers

- Virginia is a prime location for data centers due to geography, tax benefits, and electricity costs.
- Currently we are home to 50 centers and will have 70 centers by 2022.
- 3 Virginia **Data Center** locations were named to the Ten Best Data Center Sites in the South List (Southern Business & Development magazine—Winter 2011).

Virginia's Cyber Ecosystem: Workforce

- Virginia has the highest concentration of technology workers.
- Also number one for the concentration of Computer Science jobs.
- Ranked #1 in percentage of computer systems analysts & computer software engineers.
- Virginia is 5th in total high tech employment.
- 4th best state for business friendly corporate taxes

Virginia's Cyber Ecosystem: Education

- Producing over 2150 technology graduates a year (600 Associate) from the 15 public and 23 community colleges in the Commonwealth.
- 4 National Centers of Academic Excellence in Information Assurance Education (CAE/IAE): George Mason, James Madison, Norfolk State University, Va Tech.
- 2 Centers of Excellence in Research (CAE-R): George Mason & Va Tech.

Initiatives

- **Funding:** \$1 Million over 2 years.
- **Specific Initiatives:**
- **Marketing:**
 - To continue the message that Virginia is the best place for the cyber industry.
- **Increase of cyber education at K-12 and Higher Education:**
 - Emphasize current STEM initiatives;
 - Working with private companies and cyber challenges to increase cyber education and awareness;
 - Work with Universities to recruit and maintain top cyber researchers.
 - Looking for ways to increase scholarships for cyber education.
- **Company Formation:**
 - Specific focus on cyber security companies at the CIT GAP Fund.
 - National Center of Excellence which will house a business accelerator and testing facility, work to recruit cyber companies to Virginia, and house the Cyber Security Awareness Engine, which will provide a timely, reliable, and trusted means of matching cyber security related solutions, tools, and skills with requirements/issues in both the public and private marketplaces.
 - An advisory board through the Center of Excellence to guide the industry's growth and advise the Governor.