

Commonwealth Graduate Engineering Program (CGEP)

Where Are We Going?

Presentation to SCHEV

Dr. Glenda Scales – CGEP State Chair

Virginia Tech

March 22, 2016

Williamsburg, VA



CGEP Directors



Dr. Glenda Scales



Dr. James Ames



Dr. William Guilford



Dr. Linda Vahala



Dr. Stephen Nash



CGEP ADVISORY BOARD

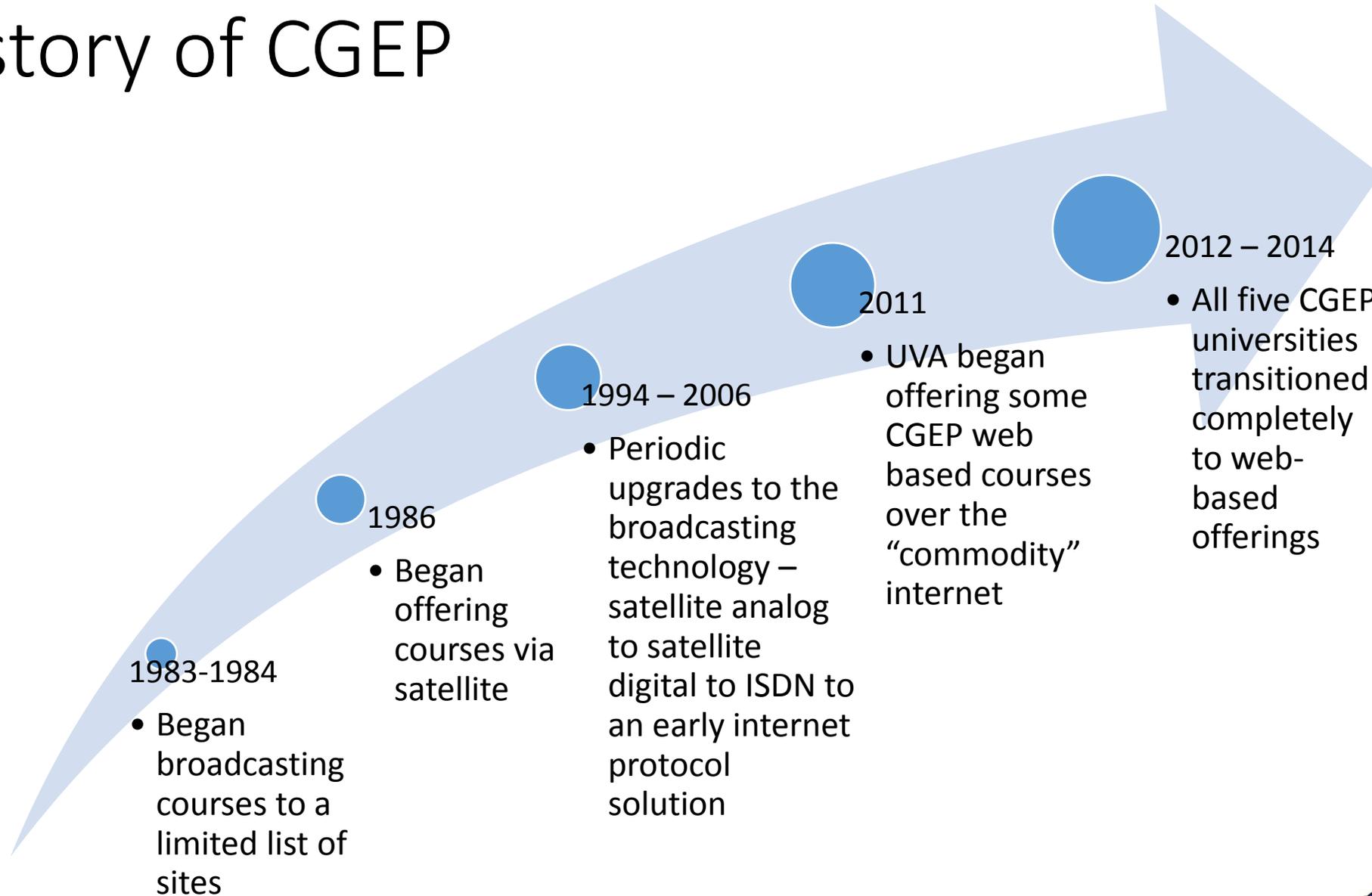


Purpose of Today's Presentation

- Identify and discuss the connections between CGEP outcomes and the Virginia Higher Education Strategic Plan
- Update SCHEV on the current and planned future activities of CGEP
- Brief overview and awareness of the opportunities to grow CGEP



History of CGEP



CGEP Vision, Mission and Outcomes

Vision: Economic development and social well-being through advanced engineering and science post-baccalaureate educational opportunities to the citizens of Virginia.

Mission: Serve as the Virginia on-line learning provider of post-baccalaureate education for practicing engineers and scientists who want to maintain and enhance their skills

Provide
Affordable
Access for All

Optimize
Student Success

Drive
Change through
Innovation

Advance
Economic
Prosperity



The Opportunity

The opportunity exists to transition CGEP to the next phase of serving Virginia's engineering and scientific community.

- More closely align CGEP with Virginia's Strategic Plan for Higher Education outcomes of
 - Access
 - Student success
 - Innovation
 - Economic prosperity
- Take full advantage of the current state of on-line learning technology
- Develop a coherent strategic approach to the changes and challenges facing graduate engineering education in the Commonwealth



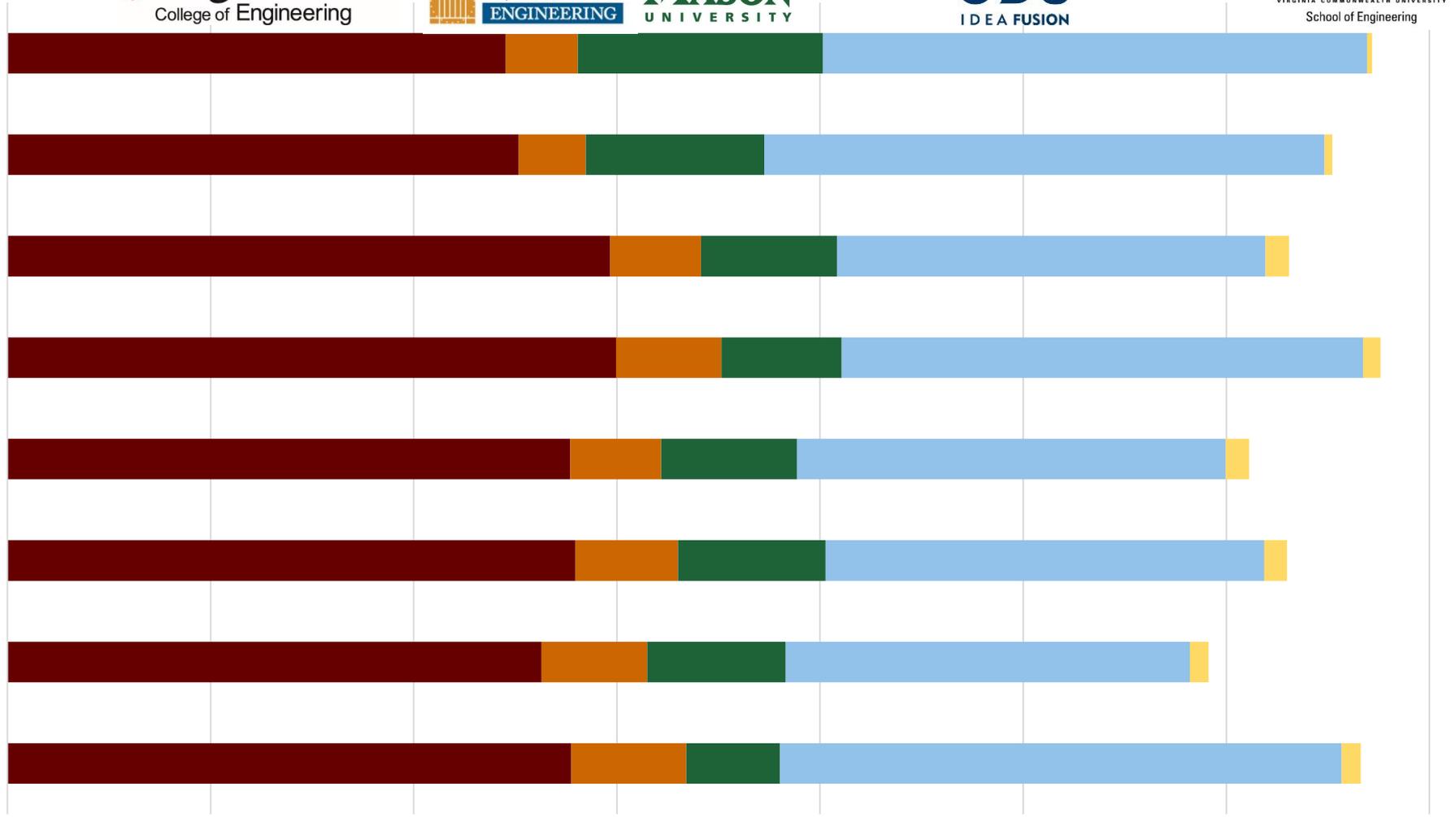
Degrees Available Through CGEP

	VT	UVA	GMU	ODU	VCU
Chemical Engineering					
Civil Engineering					
Computer Engineering					
Computer Science					
Electrical Engineering					
Engineering Management					
Environmental Engineering					
Industrial Engineering					
Modeling and Simulation Engineering					
Material Science and Engineering					
Mechanical and Aerospace Engineering					
Systems Engineering					
Telecommunications					





2014-2015
 2013-2014
 2012-2013
 2011-2012
 2010-2011
 2009-2010
 2008-2009
 2007-2008

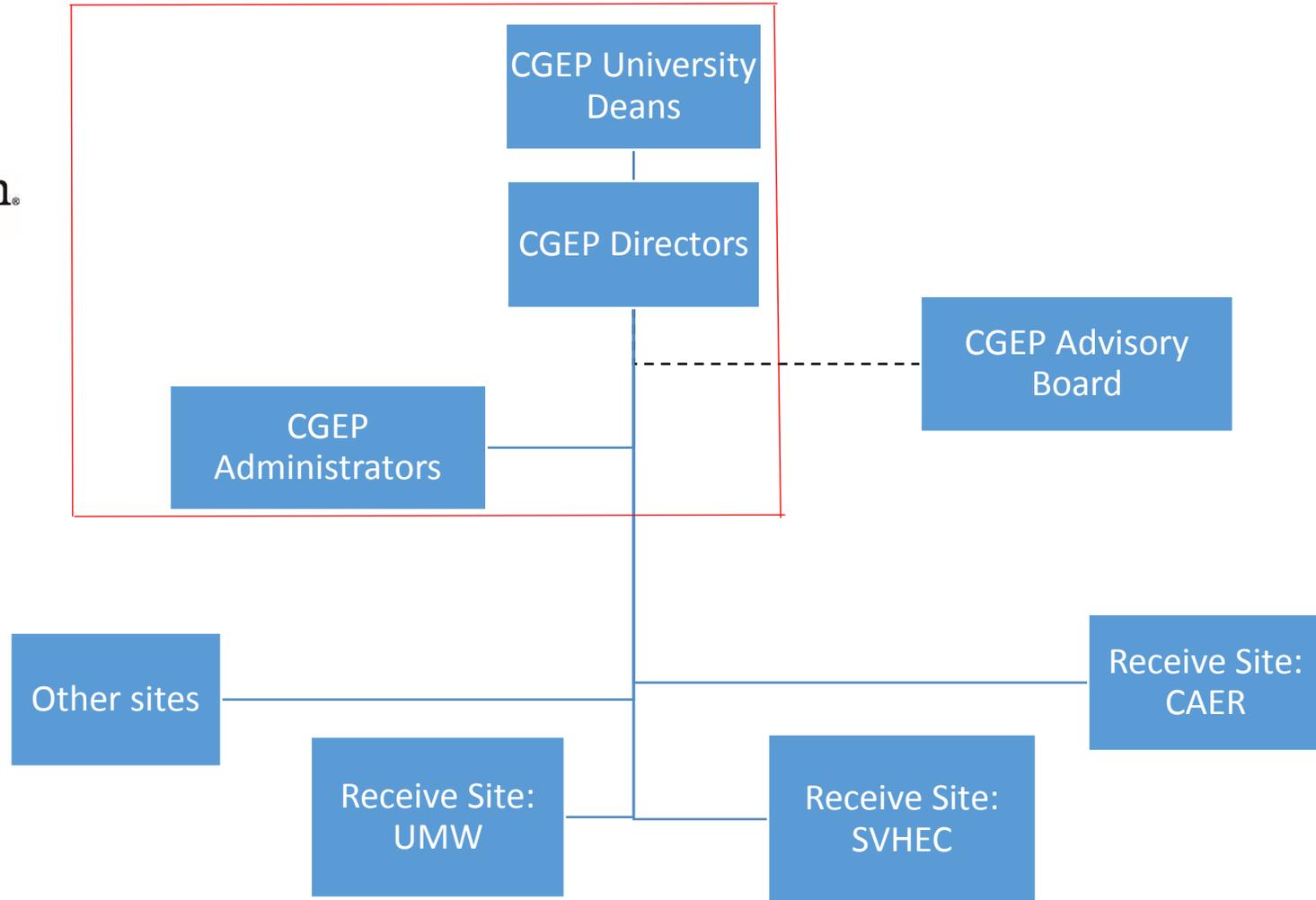


0 1000 2000 3000 4000 5000 6000 7000

CGEP Enrollments



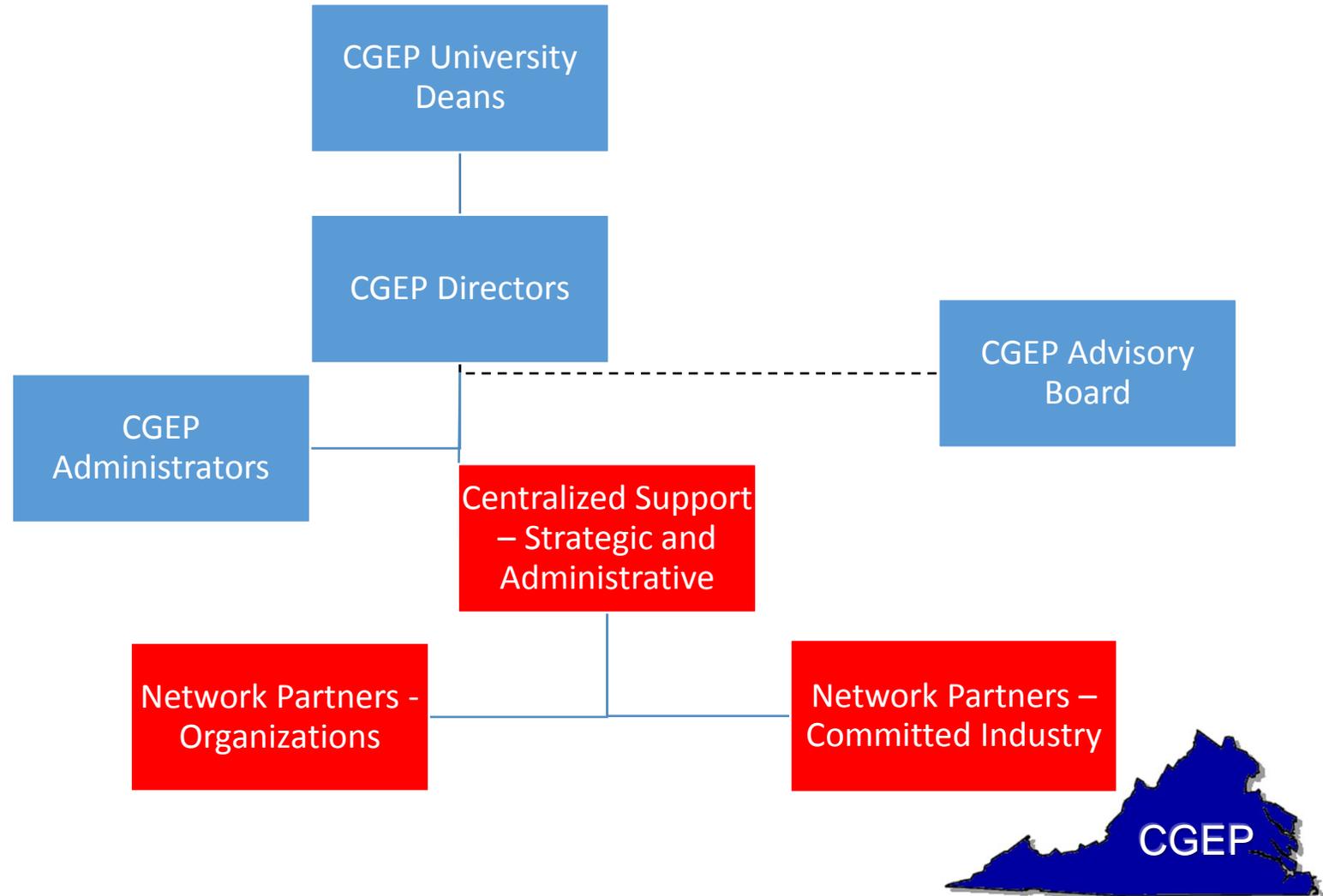
Current CGEP Operating Model



New CGEP Operating Model

New modified structure – reorganize receive site resources to centralized admin and strategic support.

Historically CGEP was “all about the technology”. Going forward it will be “all about the network of partners.”



Benefits of the New Operating Model

➤ Affordable Access

- Expand opportunity for engineering education to rural Virginia
- Access is improved through technology and centralized communications and marketing
- Access is improved through better customer service

➤ Student Success

- Stronger engagement of Virginia industry leads to more opportunities for students
- Connect graduate engineering education to career pathways

➤ Innovation and Continuous Improvement

- Greater collaboration among participating universities
- Centralized administration will improve customer service
- Centralized strategic support will improve assessment of program
- Increased involvement in the number and level of stakeholders
- Best Practice model for other on-line learning programs in Virginia

➤ Economic Prosperity

- Stronger scientific and engineering workforce in Virginia
- Stronger relationships with Virginia's science and engineering industries will lead to improved responsiveness and support



Benefits of the New Operating Model

- Position CGEP degree offerings to be more:
 - Competitive
 - Flexible to meet industry needs
 - Visible
- Leverage our existing strengths
 - Partnering with CGEP universities and industry partners
 - Reducing the time to degree completion



CGEP and SCHEV – Working Together

- Use CGEP as a Best Practice model for consortia
 - Use CGEP Directors as resources for discussions on related state initiatives
 - Provide CGEP Directors with suggestions and recommendations for the CGEP advisory board
- Contact
 - Dr. Glenda Scales
College of Engineering, Virginia Tech
 - Email: gscases@vt.edu
 - Phone: 540-231-9754
 - Bob Bailey – Executive Director
Center for Advanced Engineering & Research (CAER)
 - Email: bbailey@caer.us
 - Phone: (434)477-5060

