

Region I Partnership CodeRVA High School



Chesterfield County Public Schools
Innovative. Engaging. Relevant.

Donna M. Dalton, Chief Academic Officer

High School Innovation Planning Grants



Governor McAuliffe announced on June 24th that the Virginia Department of Education (VDOE) would award five \$50,000 high school innovation planning grants to divisions that proposed bold, innovative programs aimed at building the workforce of the 21st century.

Free from Usual Regulations

The grants,

which were established by the 2015 General Assembly and signed by Governor McAuliffe as part of the budget,

“will allow local school divisions receiving the funds to enact their own specifically-designed program, free from the usual regulations imposed on school divisions.”

Region One's Plan: The Richmond Regional School for Innovation

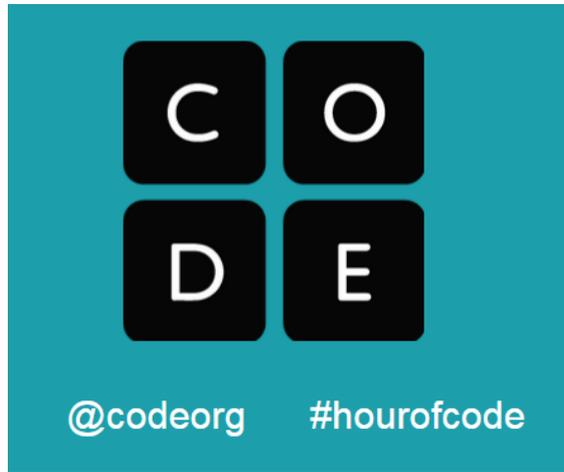
- Create an innovative hybrid high school
 - Face-to-face instruction
 - Virtual/online instruction
- Offer students personalized, accelerated learning
- Address a critical gap in the regional workforce
 - **computer science/coding**



Richmond Regional School for Innovation CODE RVA (planning name for new regional high school)

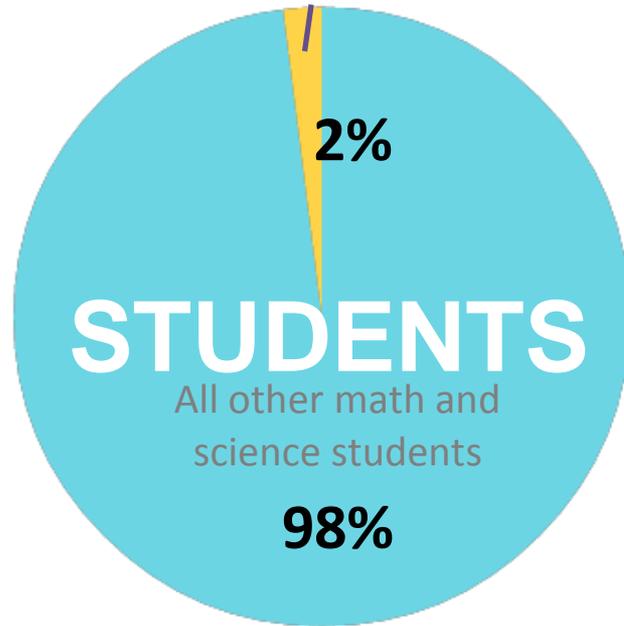


Why Coding?

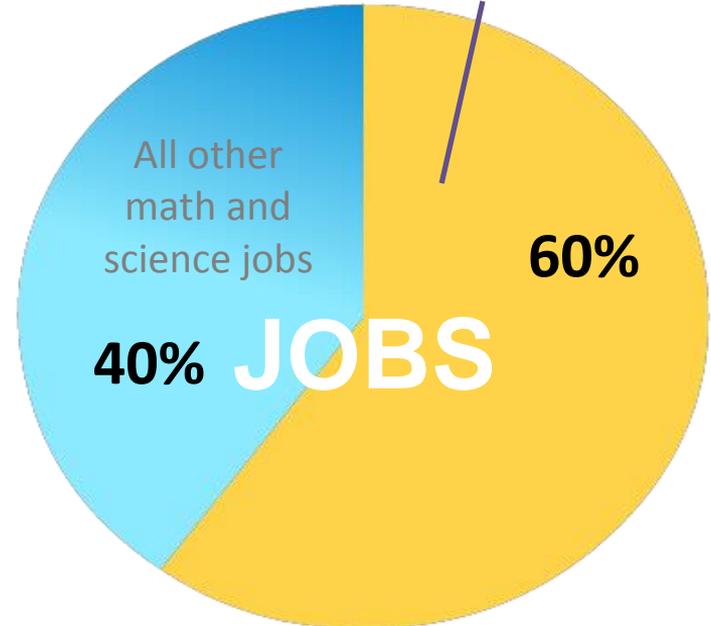


The Job/Student Gap

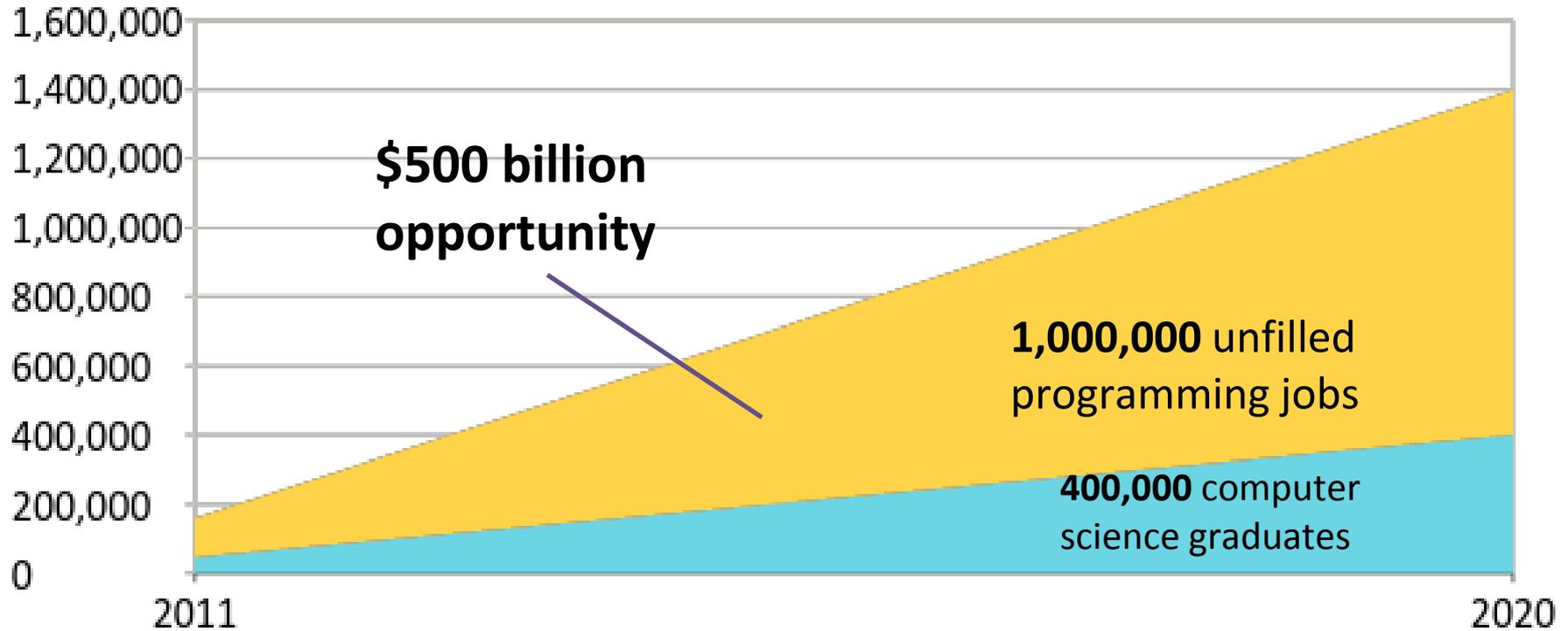
Computer Science Students



Computing Jobs



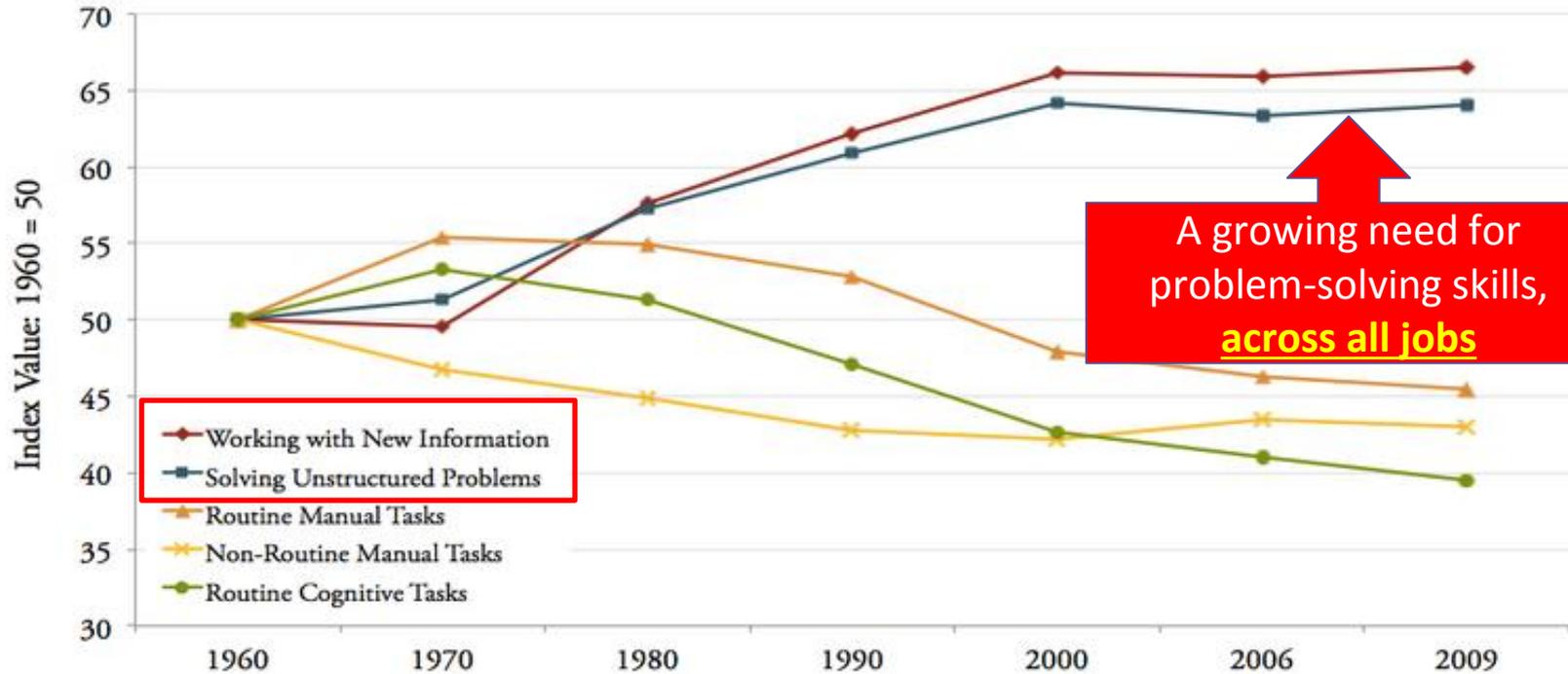
1,000,000 Unfilled Jobs by 2020



2012 High School A.P. Enrollment



Figure 3: Index of Changing Work Tasks in the U.S. Economy 1960-2009²¹



A growing need for problem-solving skills, across all jobs

This isn't just about tech companies

- 67% of software jobs are *outside* the tech industry – in banking, retail, government, entertainment, etc
- We need ALL our children prepared for the 21st century

“Knowledge of computer programming is as important as knowledge of anatomy when it comes to medical research or clinical care”

Larry Corey,
Fred Hutchinson
Cancer Research Center



Richmond Regional School for Innovation CODE RVA (planning name for new regional high school) **LOGISTICS**



Lead Partnerships

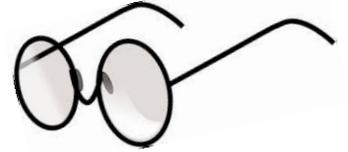
Input to Design & Operations

- **RichTech** – 152 Richmond Region Industry Leaders
- **CodeVA** –trains teachers to embed coding concepts into curriculum
- **MAXX Potential** – Internships for CodeRVA students
- **Virginia Commonwealth University** – Curriculum alignment
- **J. Sargeant Reynolds Community College** – Curriculum & Dual Enrollment
- **John Tyler Community College** – Curriculum & Dual Enrollment





Input from Model Sites



- High Tech High
- New Tech Network
- New Classrooms
- RePublic High School
- The Academy for Software Engineering

- Application processes, including zip-code based lottery
- Ethnic and socioeconomic diversity of the schools
- Innovative teaching strategies utilized
- Staffing of school
- Personalization of learning
- Use of technology
- Culture that promotes innovation and learning
- Curriculum support, including curriculum to integrate coding
- Physical learning environments
- Parental support

