



Office of the Secretary of Technology

JCOTS ~ A Briefing for the Executive Committee



The Honorable Aneesh P. Chopra
Secretary of Technology

October, 2008



Office of the Secretary of Technology

Agenda for Discussion

I. Broadband

II. Health IT

III. Open Education

IV. R&D



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"All Hands on Deck"

A Strong Performance Culture Launches Ideas Community



Commonwealth "Ideas" Portal
Launched September 2008

- Best State for Business (2006-8)



- Tied for Top Performing State (2005, 2008)



- 1st in Best of the Web (2008)

The screenshot shows the Virginia Ideas forum interface. At the top, there's a navigation bar with 'Virginia.gov', 'Online Services', 'Commonwealth Sites', 'Help', 'Governor', and 'PIF'. A search bar is on the right. Below the navigation, there are links for 'Login', 'Latest Ideas', 'Most Popular', 'Ideas Forums', 'Sort Ideas', 'Advanced Search', and 'My Account'. The main content area is titled 'Home' and 'Most Popular Ideas'. It lists three ideas:

- State Inspection Stickers**: Submitted by michaelh on Mon, 09/08/2008 - 2:39pm. Replace window decals with inspection sticker on license plates. Other. 10 comments, 21 points.
- Bio-diesel fuel for state vehicles**: Submitted by mmoracz on Mon, 09/08/2008 - 1:44pm. money savings Transportation. 6 comments, 16 points.
- Open Document Format**: Submitted by owollenberg on Tue, 09/09/2008 - 10:25am. odf open source openoffice standards. much more about this wonderful and free software suite here: 6 comments, 16 points.



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The Innovation Imperative

Thriving Technology Sector a Key Pillar of Virginia's Competitiveness

Virginia Atop the Nation's States

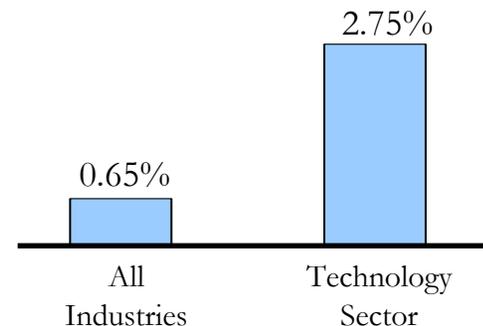
- In **2008**, American Electronics Association noted Virginia has the **highest** concentration of tech workers in the nation
- **Twelfth** lowest unemployment rate in the nation (**4.6%** as of **August 2008**)
- Kaine Administration: **56,645 new jobs** and **\$7.4 Billion** in new investment
- In **2007**, Forbes.com named Virginia the best state for **business**



Technology a Key Growth Driver

- **67%** of all net new jobs statewide created in the technology sector (year ending **March 2008**)
- Wages in the technology sector represent **31%** of all Virginia salaries (year ending **March 2008**)

Statewide Employment Growth *1Q07 vs. 1Q08*





Broadband

“21st Century” Mapping Strategy to Empower Decision Making

VA Mapping Initiative In Brief

Goal: Establish a baseline of broadband service availability across the Commonwealth

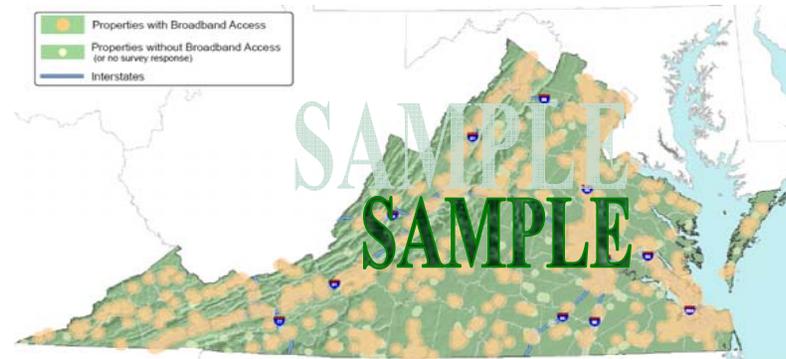
Voluntary Reporting: Carriers voluntarily agreed to participate in the process with broad stakeholder support – at no cost to the taxpayer

Respecting Market Privacy: Through Virginia’s CIT, carriers protected against risk of competitive disadvantage due to data loss

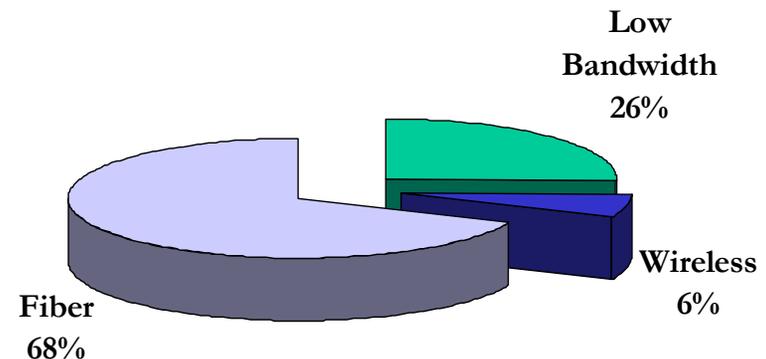
Results: Initial returns promising – 12 NDAs signed, five data sets mapped; completed map expected by end of 2008

Technical Advantages: Virginia now recognizes the “new” FCC definition of **at least 768Kbps** download speed and at least 200Kbps upload speed as the minimum definition of broadband service

Address-Level Data: Virginia has a process in place to collect and map geo-coded address-level broadband availability data and geo-spatial and demographic information displayed at the County level - at no additional cost



Importance of Applications
School Districts by Broadband Type, 2008





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Roundtable "Tool-Kit" To Support Community Policy-Makers

A Coordinated Effort to Attract Needed Broadband Capital

The screenshot displays the Virginia.gov website interface. At the top, there is a navigation bar with links for 'Online Services', 'Commonwealth Sites', 'Help', and 'Governor', along with a search box. Below this is a red banner for the 'Office of Telework Promotion and Broadband Assistance'. The main content area is titled 'Community Broadband Tool-kit' and includes a sidebar with navigation links (Home, Telework, Broadband, Broadband Roundtable) and a main text area with sections for 'Background', 'Members', and 'Findings'. The 'Findings' section is active, showing a list of items including 'Letter from the Co-chairs', 'Report to the Governor', 'Re-cap of Activities', 'Mapping', and 'Community Broadband Tool-kit'. The main text area contains a paragraph about the report's purpose, a section titled 'Community Tool-kit', and a numbered list of questions and actions for communities. A 'Got Broadband?' sidebar on the right offers links to 'Test the speed of your broadband connection' and 'Find out which providers offer broadband services in your area'.

Virginia.gov Online Services | Commonwealth Sites | Help | Governor Search Virginia.gov GO

Office of Telework Promotion and Broadband Assistance

Home » Broadband Roundtable » Roundtable Findings » Community Tool-kit Contact Us | Enter Keyword Search

■ Home
■ Telework
■ Broadband
■ Broadband Roundtable

Background Members Findings

[Letter from the Co-chairs](#) | [Report to the Governor](#) | [Re-cap of Activities](#) | [Mapping](#) | [Community Broadband Tool-kit](#)

Community Broadband Tool-kit

The purpose of this report is to provide guidance to localities interested in providing or expanding broadband access. To achieve this objective, we have opted to produce a community guidebook containing specific tools/resources that can be leveraged in ensuring all Virginians have access to broadband services to maximize socio and economic opportunities in the 21st century..

This document has been developed to serve as roadmap for communities seeking to obtain affordable lastmile broadband services through a community influenced model. The content contained in the document is intended to provide general information and guidance but is not intended to serve as legal, technical or financial advice.

Community Tool-kit

- 1. What does your community need?**
 - a. [Determine what you are trying to do](#)...connect businesses? Residences? Both?
 - b. [Determine what applications are of interest](#)
 - c. Identify a "champion" to carry the ball (some communities opt for the formation of a leadership "team")
 - d. Learn from what others have done
- 2. How do you do it?**
 - a. [Determine Demand](#) (where and how much)
 - b. Inventory assets
 - c. Determine existing broadband services
 - d. [Determine the type of technology](#) to be deployed (wired/wireless - note: make sure that the technologies you are considering will support the applications determined in #1) based on applications, funding, terrain and distances to be covered, etc.
 - e. Issue RFP/RFI or initiate PPEA
 - f. Collect responses and evaluate options for structuring the deal
 - g. Initiate negotiations/contract
- 3. Business Case Analysis**
 - a. Reallocate existing telecom "spend"
 - b. Calculate "in-kind" contributions- tower/structure rent that can be waived, access to publicly owned

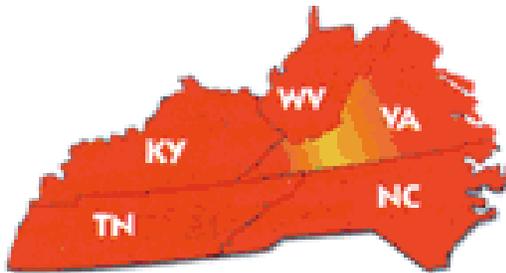
Got Broadband?
[Test the speed of your broadband connection](#)
[Find out which providers offer broadband services in your area](#)



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Health IT

Develop EHR Applications Center of Excellence in Rural Virginia



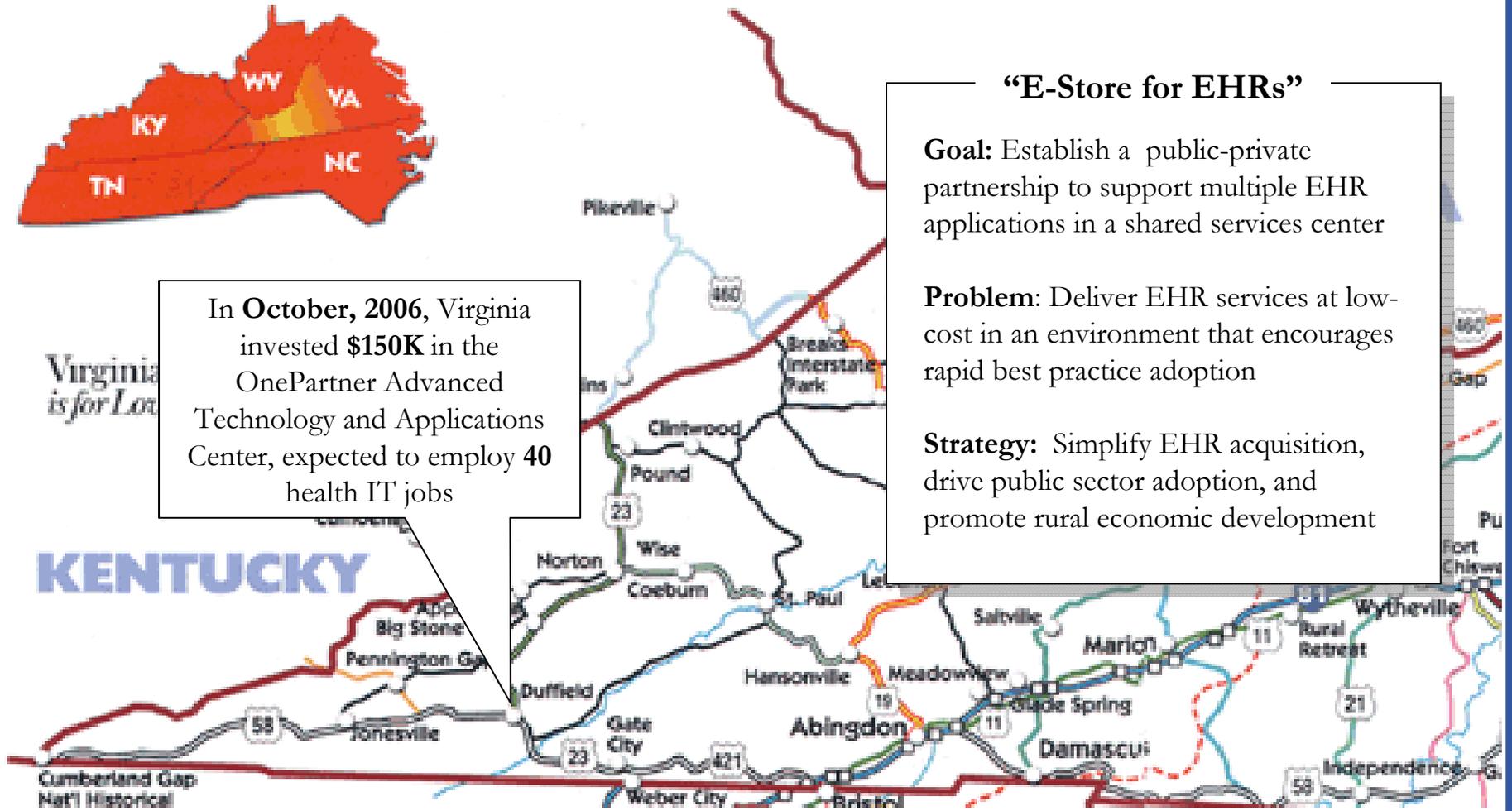
In **October, 2006**, Virginia invested **\$150K** in the OnePartner Advanced Technology and Applications Center, expected to employ **40** health IT jobs

“E-Store for EHRs”

Goal: Establish a public-private partnership to support multiple EHR applications in a shared services center

Problem: Deliver EHR services at low-cost in an environment that encourages rapid best practice adoption

Strategy: Simplify EHR acquisition, drive public sector adoption, and promote rural economic development





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Innovation Grants

6 of 8 Regions Home to Health IT Innovator Selected by Experts

Legend

Recommended Regions

- Central Region
- Eastern Region
- Northern Region
- Southside Region
- Southwest Region
- Hampton Roads Region
- Valley Region
- West Central Region

CareSpark:
Comprehensive approach to regional HIE aligned to NHIN goals; specific attention to rural health disparities in region

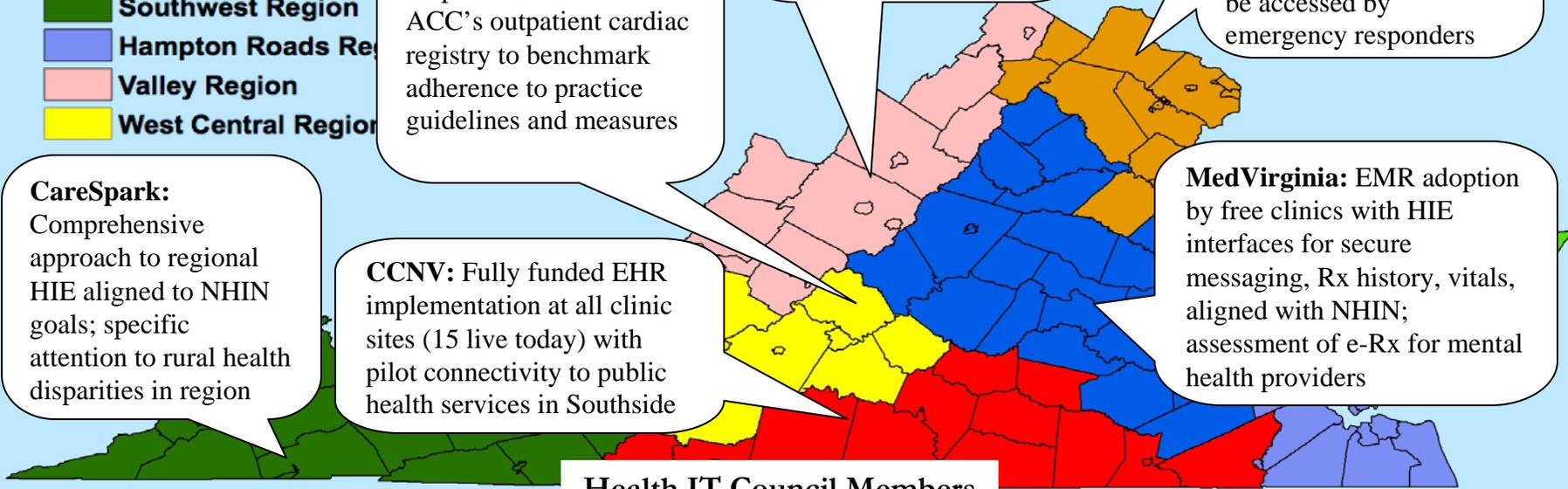
Centra: Nation's first outpatient EHR link with ACC's outpatient cardiac registry to benchmark adherence to practice guidelines and measures

CCNV: Fully funded EHR implementation at all clinic sites (15 live today) with pilot connectivity to public health services in Southside

UVA: Telemedicine initiative to identify high-risk poor pregnant woman to minimize pre-term labor in the Valley*

NOVARHIO: Access to patient medical histories in ERs; comprehensive outreach campaign for a voluntary web-based "File for Life" that could be accessed by emergency responders

MedVirginia: EMR adoption by free clinics with HIE interfaces for secure messaging, Rx history, vitals, aligned with NHIN; assessment of e-Rx for mental health providers



Health IT Council Members

- CIO, AOL
- Board Member, Harvest Foundation
- SVP, Sprint Nextel
- Board Chairman, Owens & Minor
- Chief Privacy Officer, Revolution Health
- EVP, Riverside Regional MC

*Awarded August, 2008 as part of Governor Kaine's Productivity Investment Fund

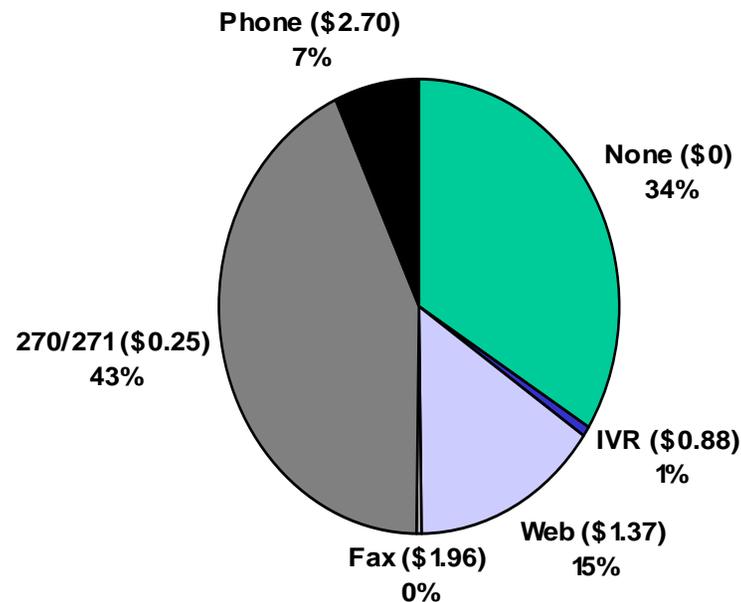


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Administrative Simplification

Payer-Provider Collaborative to Lower Transaction Costs

Provider Eligibility Verification by Type of Method (Average labor cost per transaction)



Universal Eligibility Portal

Goal: Lower transaction costs associated with verifying a patient's insurance eligibility by jointly procuring a common portal for Virginia providers to use when interacting with Virginia Payers

Scope: Allow a provider to retrieve up-to-date eligibility information on a patient from any participating Virginia health plan from a single point of entry.

Timeline: RFI responses due **August 15th, 2008**; selection expected **October, 2008**; implementation in **2009**

The VHEN Charter

Following an initial summit in Richmond with Virginia payers and providers discussing scope and focus for a **Virginia Administrative Exchange** modeled on NEHEN, the VHEN workgroup formalized a charter in **October 2007**; charter members include **9 health plans** and **7 health systems** including MCV, UVA, Riverside, Anthem-Wellpoint, Aetna, and DMAS



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Seeding Innovation

Evidence-Based Medicine a Key Pillar of Innovative Programs

Health Plan IT-Related Services
Virginia Department of Human Resources

Finalists*
Award Expected Winter 2008



- **DHRM** has accepted an unsolicited proposal under the **PPEA** act to provide wrap-around services for the **Employee Health Plan**
- Many firms have proposed to **lower costs** for the Commonwealth by creating a data warehouse with **business intelligence** and a **customer service** center to help advise state employees on the intervention that will most likely resolve their problem at the lowest cost
- Goal to **prevent duplicative care** and **minimize challenges** felt by employees navigating the complex healthcare system



“DHRM’s comprehensive care management vision is truly **ground breaking**. Once operational, it will mark COVA as a leader among state employee medical plans and private industry...” – *Joe Marlowe – Aon Consulting, May 2008*



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Open Education

Empowering Our Brightest Teachers to Publish (Free) Content

The screenshot shows the CK-12 website interface. At the top left is the CK-12 logo. To the right is a search bar containing the word "physics" and a "GO" button. Below the search bar are navigation links: "Welcome, Guest | Sign In | Register". On the left side, there is a "Search" section with a "Did you mean:" field, a "Narrow your search" section, and a "Reset Filter" section. The "Reset Filter" section includes "Categories" (basic (2)) and "Grade" (12). The main content area shows search results for "physics". There are two results: "People's Physics Book - CK12" and "Mini Physics Book". Each result includes a small icon, the title, a brief description, the original author, and the publication date. To the right of the search results is a "FlexBook Editor" sidebar with an "Edit" button and a "Manage My Books" button.

“Open Source” Physics Flexbook

Secretaries **Chopra, Morris** and the **Dept of Education** are pleased to announce our **Founding Members** of the **21st Century Physics Collaborative** to create and compile supplemental materials in an open–source format that can be used to strengthen existing physics content. Led by retired NASA Scientist **Jim Batterson**, the team is: Mike Fetsko, **Henrico Co.**; David Slykhuis, Mark Mattson, Tom O’Neil, **JMU/ Shenandoah Governor’s School**; Bruce Davidson (retired), Angela Cutshaw, **Newport News**; Mark Clemente, **VA Beach/National Institute of Aerospace**; Andy Jackson, **Harrisonburg**; David Stern (retired), **NASA Goddard**; John Ochab, **J Sargeant Reynolds**; Professor Tapas Kar, **Utah State University**, and Pranav Gokhale (student), **Montgomery County, MD**. The Commonwealth is partnering with **CK–12** (www.ck12.org) on this initiative as they will provide the free, open–source technology platform; goal to publish **02/09**



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Uncovering Hidden Talent

“Win-Win” Initiative to Recycle PCs, Train Students for 21st Century Jobs

VA Star Initiative In Brief

July 2008: VA Department of General Services donates surplus computers for education program

August 2008: Secretaries of Technology and Education and Dept of Education issue VA STAR program RFI seeking proposals to establish programs that refurbish computers while providing students with IT Certification

September 2008: DOE receives 5 proposals from interested school districts, with Prince William Co leading the way with an established and replicable program

Prince William Case Study

SWAT Program/ Bridging the Gap Night

- **Students Working to Advance Technology (SWAT) program**
- Collaborative effort of IT Program at **Forest Park High School**; SWAT team procures computers and equipment and then refurbishes for community
- **Goal:** To provide **citizens and students** of Prince William Co. with the **opportunity** to expand their **technological skills and knowledge**
- **Bridging the Gap Night:** Once computers complete SWAT process, they are **donated to local families**
 - Students who may benefit most from project are identified by IT Resource Teachers throughout school district
 - Families and students are educated on proper use of the equipment by SWAT team members



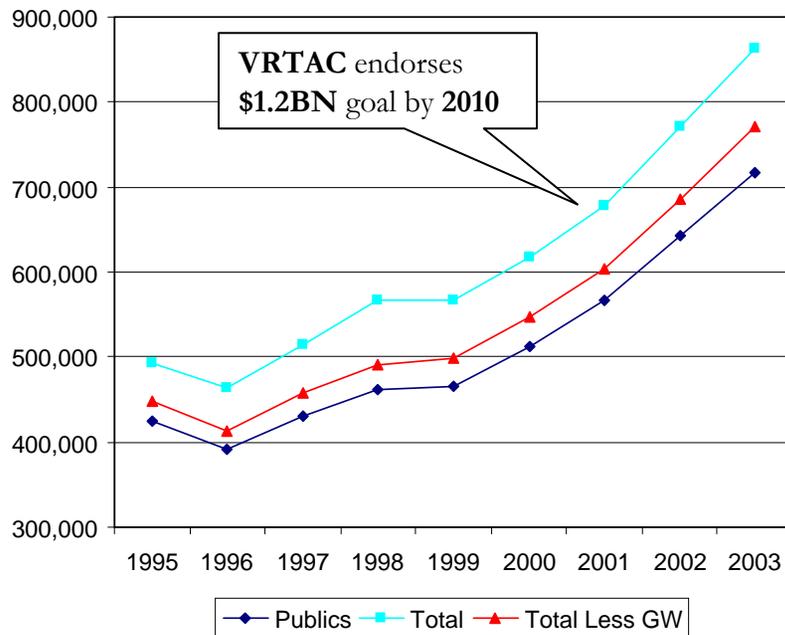


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R&D-Powered Economic Development

Virginia's Innovation Agenda Focused on University R&D

University R&D Goal
Virginia R&T Advisory Commission



Kaine Administration Approach

- # **Economic Development Strategic Plan:** Support technology research and development, and other emerging sectors to diversify VA's economy and maintain its competitive advantage
- # **Knowledge Job Growth:** By 2009, establish a culture that results in VA ranking **#1** in new technology start-up companies and knowledge jobs created.
- # **Innovation Index:** CIT, in collaboration with key stakeholders to establish annual measures