Virtual Learning in Virginia

Programs Report and Expansion Proposal

February 23, 2016

VIRGINIA DEPARTMENT OF EDUCATION

Virtual Learning Options in Virginia

Virtual Virginia (VVa)

Virginia Department of EDUCATION

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                    │     Virtual Virginia     │
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         ┌───────────────┬────────────┴───────────┬───────────────┐
┌──────────────┐ ┌──────────────┐ ┌──────────────┐ ┌──────────────┐
│  Part-Time   │ │  Full-Time   │ │  Algebra I   │ │  Economics   │
│(Supplemental)│ │ Pilot Program│ │ Pilot Program│ │ and Personal │
│   Program    │ │              │ │              │ │ Finance (EPF)│
│              │ │              │ │              │ │    Course    │
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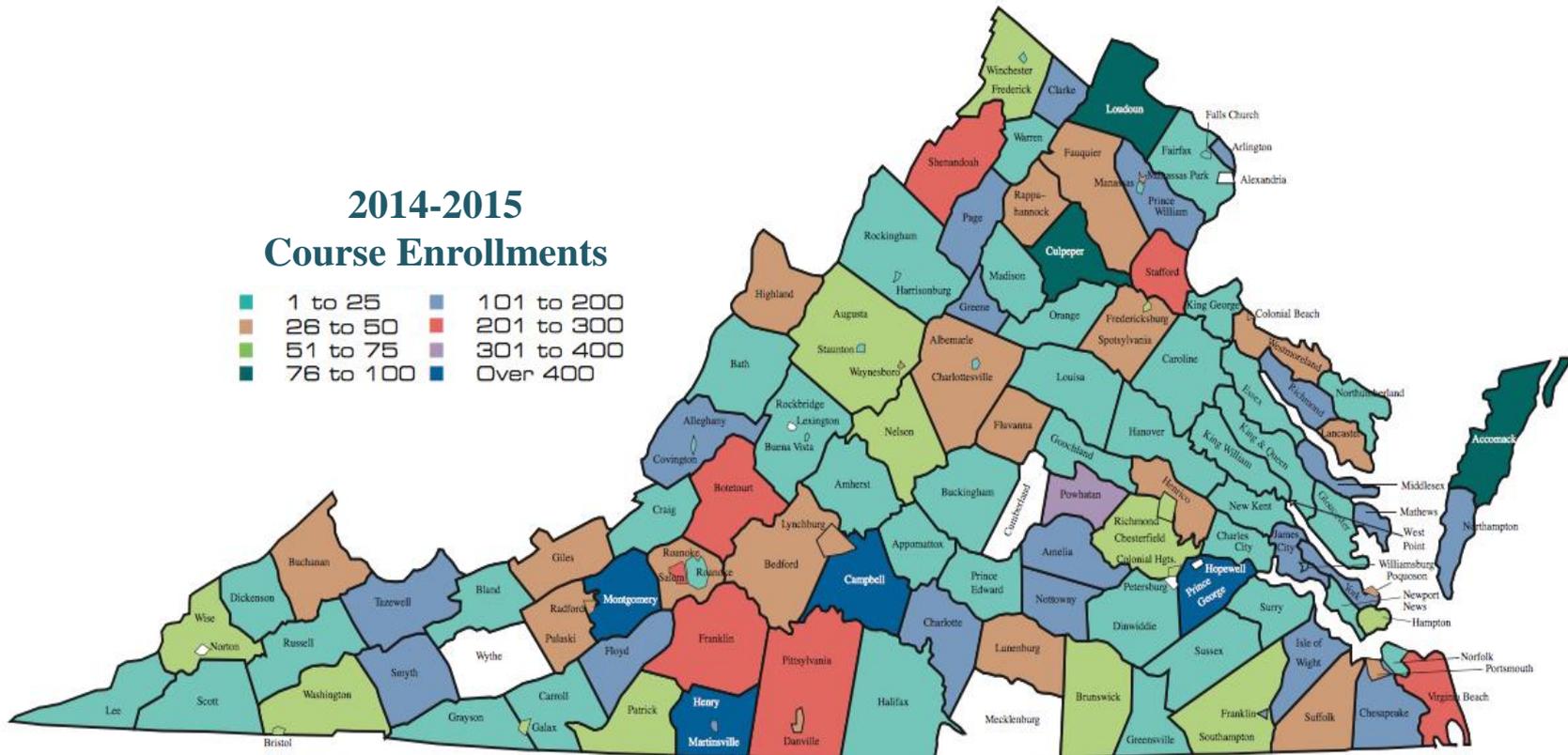
Virtual Virginia

- Part-Time (Supplemental) Program
- Full-Time Pilot Program
- Algebra I Pilot Program
- Economics and Personal Finance (EPF) Course

2014-15 Virtual Virginia Course Enrollments

2014-2015 Course Enrollments

- 1 to 25
- 26 to 50
- 51 to 75
- 76 to 100
- 101 to 200
- 201 to 300
- 301 to 400
- Over 400

Total enrollment for 2014-15: Over 10,000 students and over 10,000 enrollments
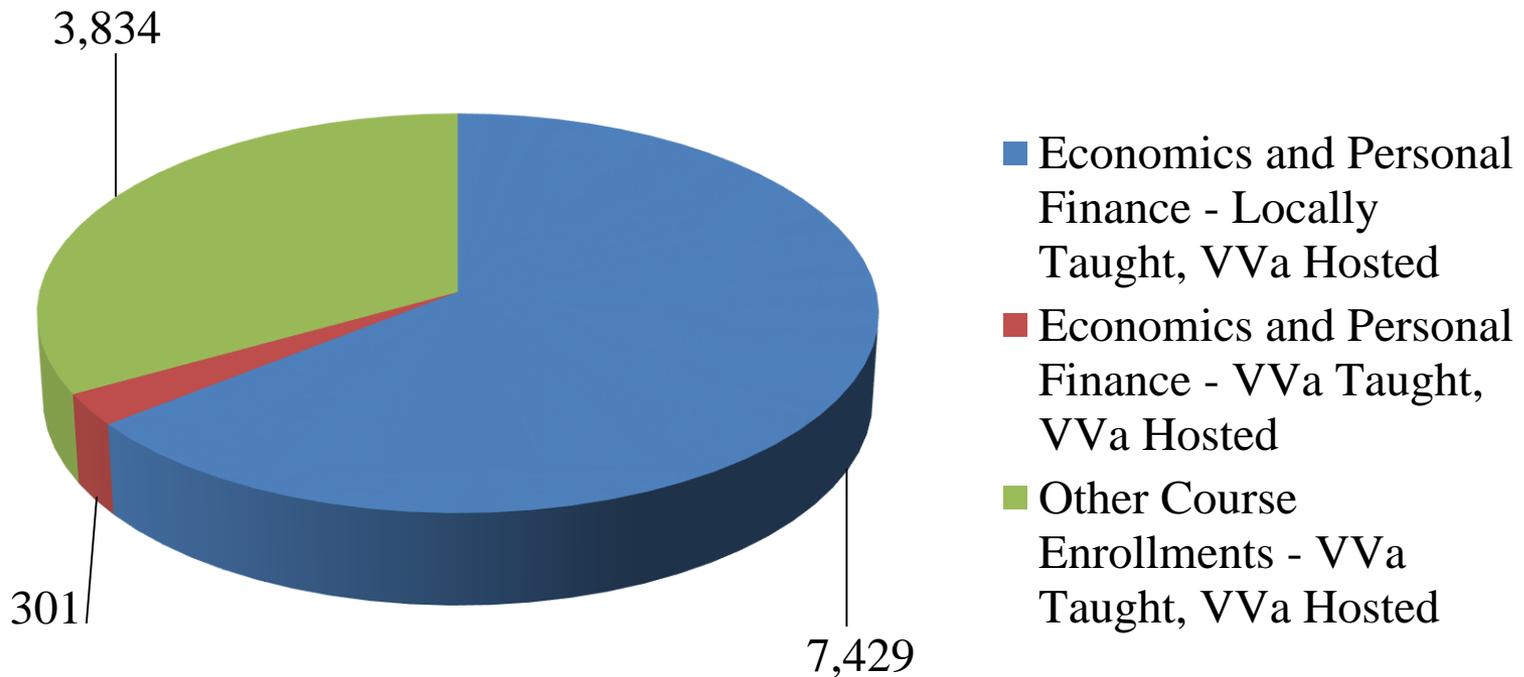
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Current Virtual Virginia Enrollments

9,920 students, in **115** school divisions, taking **11,564** course enrollments from **62** teachers*.

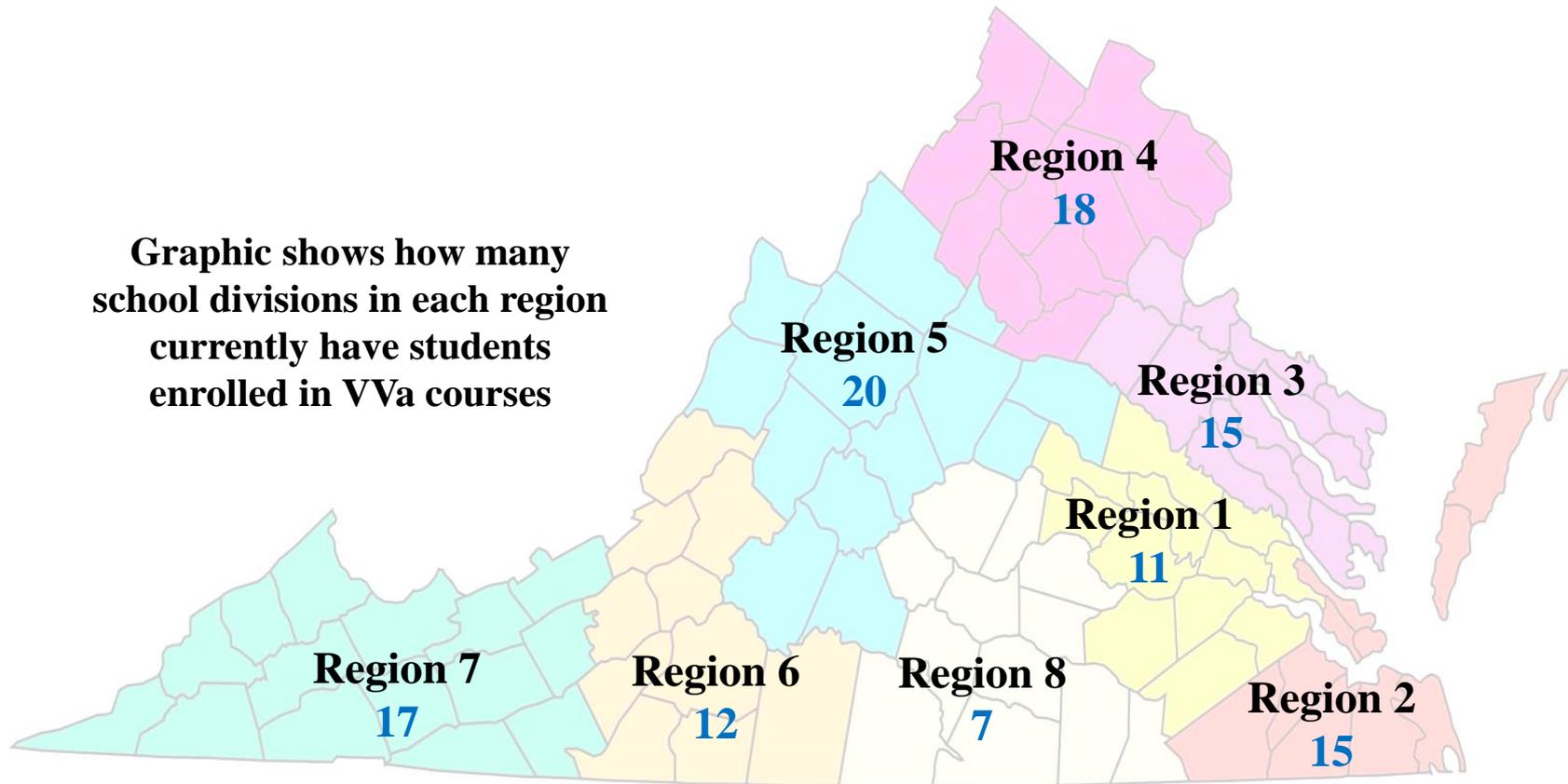*This number should grow as we finish out spring and summer school 2016.

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Current Virtual Virginia Course Enrollments

11,564 Course Enrollments

3,834

301

7,429

- Economics and Personal Finance - Locally Taught, VVa Hosted
- Economics and Personal Finance - VVa Taught, VVa Hosted
- Other Course Enrollments - VVa Taught, VVa Hosted

School Division Participation by Superintendent's Regions (Supplemental Program)

Graphic shows how many school divisions in each region currently have students enrolled in VVa courses

Region 4
18

Region 5
20

Region 3
15

Region 1
11

Region 7
17

Region 6
12

Region 8
7

Region 2
15

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VVa Supplemental (Part-Time) Course Enrollments Per School Division

Region 1 – Central VA

CHESTERFIELD	42
COLONIAL HEIGHTS	66
DINWIDDIE	5
GOOCHLAND	3
HANOVER	9
HENRICO	12
NEW KENT	5
POWHATAN	22
PRINCE GEORGE	14
SUSSEX	5
RICHMOND CITY	14

Region 2- Tidewater

ACCOMACK	110
CHESAPEAKE	115
ISLE OF WIGHT	52
FRANKLIN CITY	6
HAMPTON	104
NEWPORT NEWS	28
NORFOLK	10
NORTHAMPTON	18
POQUOSON	56
PORTSMOUTH	45
SOUTHAMPTON	36
SUFFOLK	54
VIRGINIA BEACH	358
WILLIAMSBURG	99
YORK	179

Region 3 – Northern Neck

CAROLINE	12
COLONIAL BEACH	6
ESSEX	12
FREDERICKSBURG	47
GLOUCESTER	8
KING GEORGE	24
KING WILLIAM	26
KING AND QUEEN	12
LANCASTER	3
MATHEWS	41
MIDDLESEX	17
RICHMOND COUNTY	1
SPOTSYLVANIA	52
STAFFORD	65
WESTMORELAND	108

Region 4 – Northern VA

ARLINGTON	88
CLARKE	24
CULPEPER	80
FAIRFAX CITY	1
FAIRFAX COUNTY	33
FALLS CHURCH	1
FAUQUIER	45
FREDERICK	74
LOUDOUN	70
MADISON	11
MANASSAS PARK	69
ORANGE	27
PAGE	52
PRINCE WILLIAM	216
RAPPAHANNOCK	22
SHENANDOAH	57
WARREN	17
WINCHESTER	5

Region 5 – Valley

ALBEMARLE	50
AMHERST	7
AUGUSTA	73
BATH	12
BEDFORD COUNTY	46
BUENA VISTA	9
CAMPBELL	79
CHARLOTTESVILLE	9
GREENE	32
FLUVANNA	71
HARRISONBURG	20
HIGHLAND	29
LEXINGTON	1
LOUISA	2
LYNCHBURG	12
NELSON	25
ROCKBRIDGE	5
ROCKINGHAM	28
STAUNTON	26
WAYNESBORO	26

Region 6 – Western VA

ALLEGHANY	17
BOTETOURT	6
DANVILLE	25
FLOYD	10
FRANKLIN COUNTY	21
HENRY	18
MONTGOMERY	86
PATRICK	53
PITTSYLVANIA	151
ROANOKE CITY	26
ROANOKE COUNTY	51
SALEM	1

Region 7 – Southwest

BLAND	5
BRISTOL	33
BUCHANAN	28
CARROLL	19
DICKENSON	1
GALAX	14
GILES	15
LEE	14
LUNENBURG	18
PULASKI	36
RADFORD	11
RUSSELL	9
SCOTT	4
SMYTH	13
TAZEWELL	118
WASHINGTON	63
WISE	15

Region 8 - Southside

AMELIA	2
APPOMATTOX	24
BUCKINGHAM	7
CHARLOTTE	11
LUNENBURG	18
NOTTOWAY	15
PRINCE EDWARD	8

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Virtual Virginia Supplemental Course Enrollments by Race

Native Hawaiian/ Pacific Islander 0%

Black/African American 21%

Hispanic 5%

Indian 1%

White/ Caucasion 73%

2015/2016

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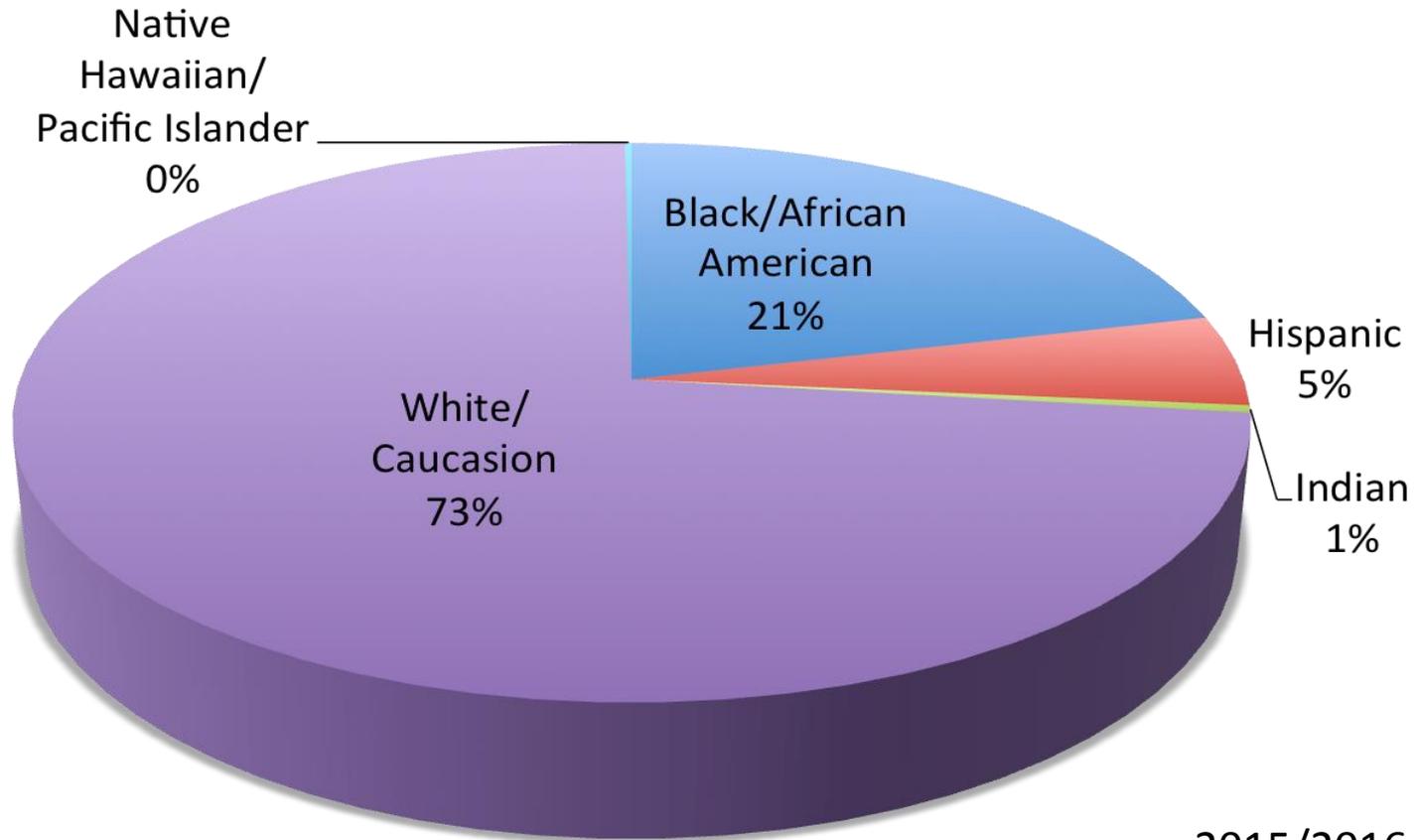
Virtual Virginia Courses

There are 68 Advanced Placement and Standard courses available for students to take through Virtual Virginia.

Subject areas include:
History/Social Studies
World Language
Science
Mathematics
English/Language Arts
Health and Physical Education
Computer Science

Virtual Virginia Course Catalog

Advanced Placement Courses

- Advanced Placement Art History
- Advanced Placement Biology
- Advanced Placement Calculus AB
- Advanced Placement Calculus BC
- Advanced Placement Chinese Language and Culture
- Advanced Placement Computer Science A
- Advanced Placement English Language and Composition
- Advanced Placement English Literature and Composition
- Advanced Placement Environmental Science
- Advanced Placement European History
- Advanced Placement French Language
- Advanced Placement Government and Politics: Comparative
- Advanced Placement Government and Politics: US
- **Advanced Placement Human Geography***
- Advanced Placement Latin
- Advanced Placement Macroeconomics
- Advanced Placement Microeconomics
- Advanced Placement Physics 1
- Advanced Placement Physics 2
- **Advanced Placement Psychology***
- Advanced Placement Spanish Language
- Advanced Placement Statistics
- Advanced Placement US History
- Advanced Placement World History

Standard Courses

- Algebra I
- Algebra II and Trigonometry
- Algebra, Functions, and Data Analysis
- Arabic I
- Arabic II
- Arabic III
- Biology
- Chemistry (Advanced)
- Chemistry (Honors)
- Chinese I
- Chinese II
- Chinese III
- Chinese IV
- Creative Writing
- Earth Science I
- Earth Science II – Astronomy
- Economics
- **Economics and Personal Finance***
- English 9
- English 10
- English 11
- English 12
- French I
- French II
- Geometry
- Health and PE 9
- Health and PE 10
- Introduction to Game Design & Development
- **Latin I***
- Latin II
- Latin III
- Latin IV
- Physics (Honors)
- Pre-Calculus/Mathematical Analysis
- Psychology
- Introductory Spanish**
- Beginning Spanish
- Intermediate Spanish
- Advanced Spanish
- Survey of World Language and Culture
- Virginia and US Government
- Virginia and US History
- World History I
- World Mythology

*Denotes courses with highest enrollment

Virtual Virginia Model

Partnership with local school divisions

VVa Provides:

- Virtual course(s)
- VA-licensed and highly qualified instructor
- Instructional delivery systems
- Administrative and technical support
- Student support services liaison
- Advanced Placement exam reimbursement

Local School Division Continues to Provide:

- On-site mentor
- Counseling, health and social services, school psychologist
- Extracurricular activities
- Technology
- Supplemental face-to-face courses
- Federal programs (English Speakers of Other Languages, Title I, Free/Reduced Lunch)
- Special education services

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Virtual Virginia Instruction

What instruction "looks like":

Location/Logistics:
- Students work from local school or from home
- Mentor provides face-to-face progress monitoring, test proctoring, and general support
- Mentor is a liaison between school, student, and VVa
- Mentor can be parent or school staff member
- Students can take combination of face-to-face courses from local school and virtual courses from VVa

Virtual Instruction:
- Readings, simulations, interactive practice, videos, and audio
- Virtual course discussions
- Whole group, small group, and individual instruction
- Real-time assistance and communication with instructors
- Combination of self-paced work and deadlines from teacher

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Virtual Virginia Program

*"The program encourages **independent learning and thinking**, skills that will be **needed in college and in the workplace**."*
~Virtual Virginia parent

*"Virtual Virginia has helped me **do things I never thought I could**. Thanks to VVa, I'm **excelling** in a subject I **love** with all my heart."*
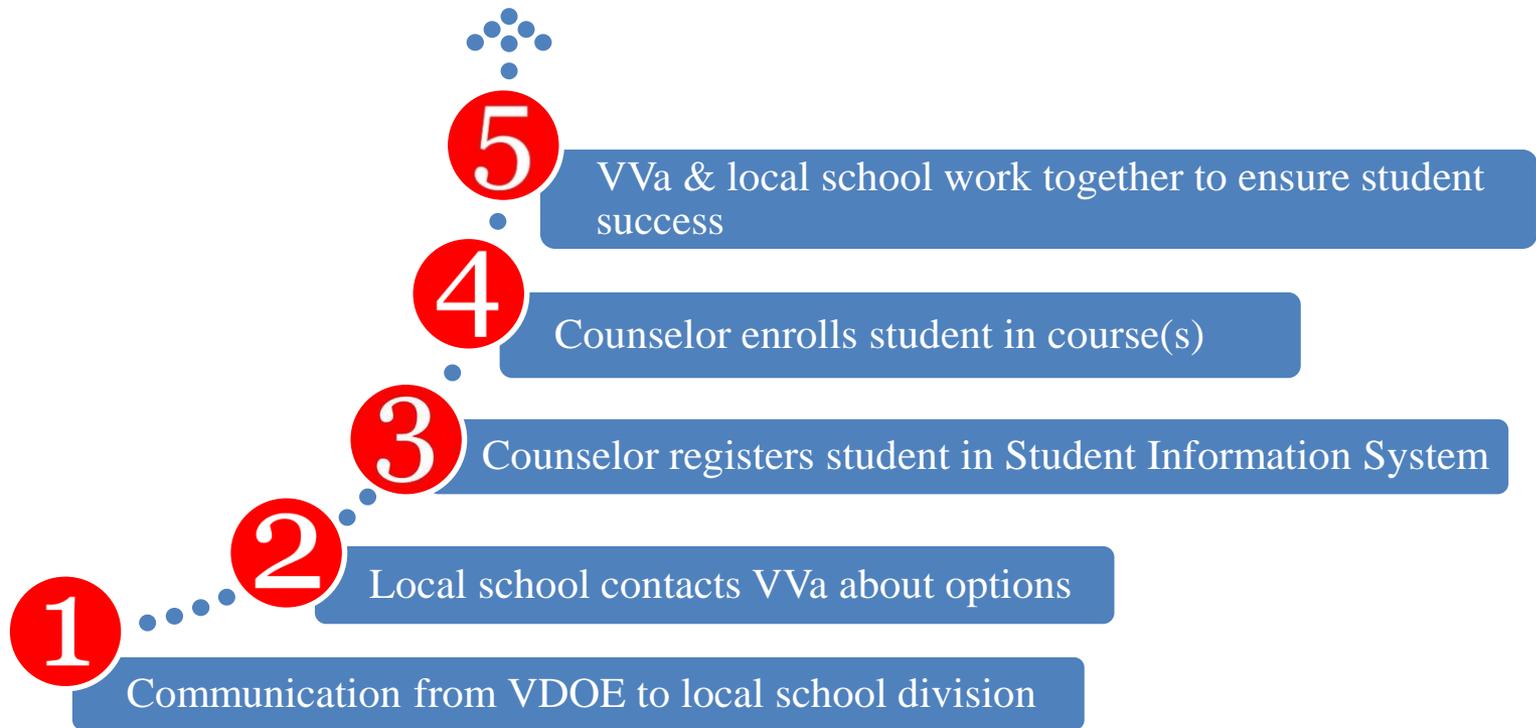**~Virtual Virginia Chinese II student**

*"Virtual Virginia **works extremely well** for Jenny. She has a **close connection with her teacher**. Her **language skills are improving rapidly** and at a **pace that she can support**. Virtual Virginia is a **terrific program**!"*
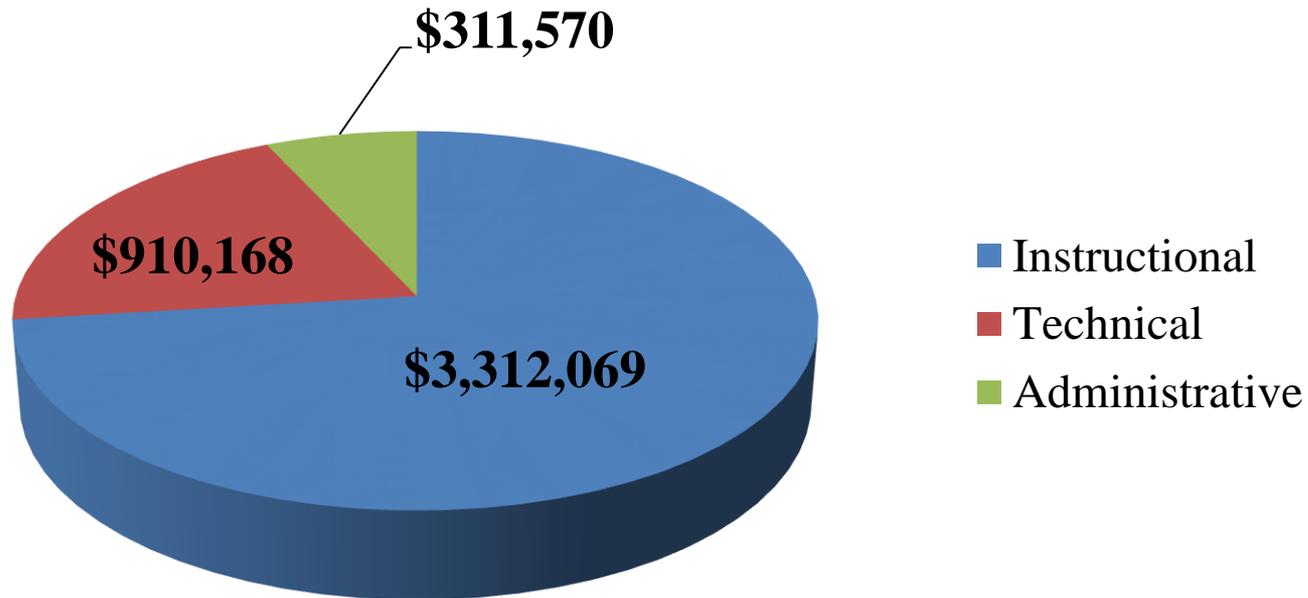**~Virtual Virginia parent**

Virtual VA Enrollment Process

10 Fall, Spring, and Full-Year Cohorts plus Summer Session

5 VVa & local school work together to ensure student success

4 Counselor enrolls student in course(s)

3 Counselor registers student in Student Information System

2 Local school contacts VVa about options

1 Communication from VDOE to local school division

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Virtual Virginia Budget
$4,533,807.00

$311,570

$910,168

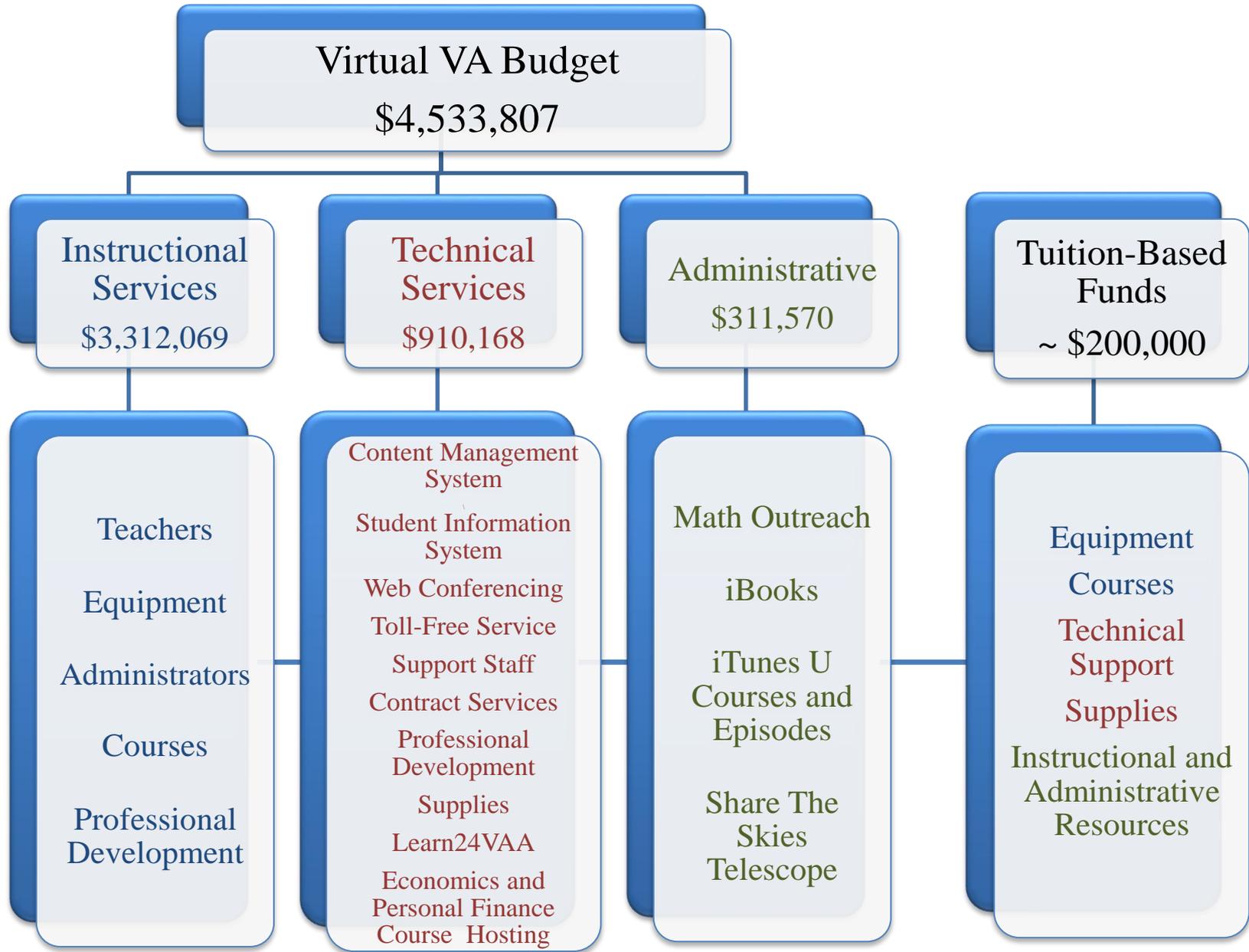$3,312,069

- ■ Instructional
- ■ Technical
- ■ Administrative

Costs on Average:

$4,533,807.00 / 11,564 enrollments = **$392.06 per course enrollment**

$4,533,807.00 / 9,920 students = **$457.04 per student**

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Virtual Virginia Funds and Costs

Virtual VA Budget
$4,533,807

Instructional Services
$3,312,069

Technical Services
$910,168

Administrative
$311,570

Tuition-Based Funds
~ $200,000

Teachers

Equipment

Administrators

Courses

Professional Development

Content Management System

Student Information System

Web Conferencing

Toll-Free Service

Support Staff

Contract Services

Professional Development

Supplies

Learn24VAA

Economics and Personal Finance Course Hosting

Math Outreach

iBooks

iTunes U Courses and Episodes

Share The Skies Telescope

Equipment

Courses

Technical Support

Supplies

Instructional and Administrative Resources

Virtual Virginia Local Tuition
~ $200,000

Out-of-State Students	Private and Home School Students	Summer School Students	Non-Early College Scholar Advanced Placement Students
$849 per course	**$499 per course**	**$375 per course**	**$375 x Local Composite Index**

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Additional Program Resources Beneficial to all Local School Divisions

Economics & Personal Finance (EPF) Course (includes file access and/or learning management system)

Algebra I Outreach Resources

Eduwidgets

Learn24VA

iBooks – EPF, Astroimaging, Computer Science/ Cybersecurity

iTunesU Courses – Astronomy, Computer science/Cybersecurity

iTunesU Episodes

Share The Skies Telescope

Virtual Virginia Full-Time Pilot

- Program development – fulfilling local needs

- Additional graduation opportunities for students

- Continued cost savings to all school divisions

- Existing funds continue to serve supplemental students

- 16.5 percent of full-time program course enrollments are part-time (supplemental) students

Current Virtual Virginia (VVa) Full-Time (Grades 9-12) Pilot Program Enrollment

Currently, **68** students, in **51** high schools, throughout **36** school divisions, taking **370** course enrollments.

Expansion of VVa Full-Time Pilot Program

- $498,000 each year over the next two years

- 100 additional students each year

- Additional courses and updates

- Additional instructors

VVa Current Math Outreach Pilot Program: Algebra I

<u>Synchronous lessons & resources</u>:

- Live lessons with VA-licensed Algebra I instructors

- Implemented late October 2015

- 34 Classrooms

- 15 School Divisions

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VVa Current Math Outreach Pilot Program: Algebra I

Asynchronous lessons and resources:

- Recordings of live lessons

- Slide presentations of lessons

- Related activities and answer keys

- Available to any Virginia teacher (via eMediaVA)

- VDOE able to track views and downloads of lessons and resources

Expansion of Math Outreach Pilot Programs: Addition of Algebra II and Geometry

- Year One: $260,000

- Year Two: $330,000

- 4 teachers total: 2 Algebra I, 1 Algebra II, & 1 Geometry

- Curriculum development and updates

- All other costs related to technical systems covered by VVa technical services contract

eMediaVA

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eMediaVA

eMediaVA is an **online repository** designed to meet the needs of **Virginia educators** for delivery of **on-demand**, **digital learning content**.

eMediaVA

*"eMediaVA will make it **so much easier** for me to **gather resources and ideas** for lessons, and I **love that the kids can** go onto the playlists I make for **independent review/learning/assessment**. Great tool!"*

~Virginia educator

eMediaVA Features

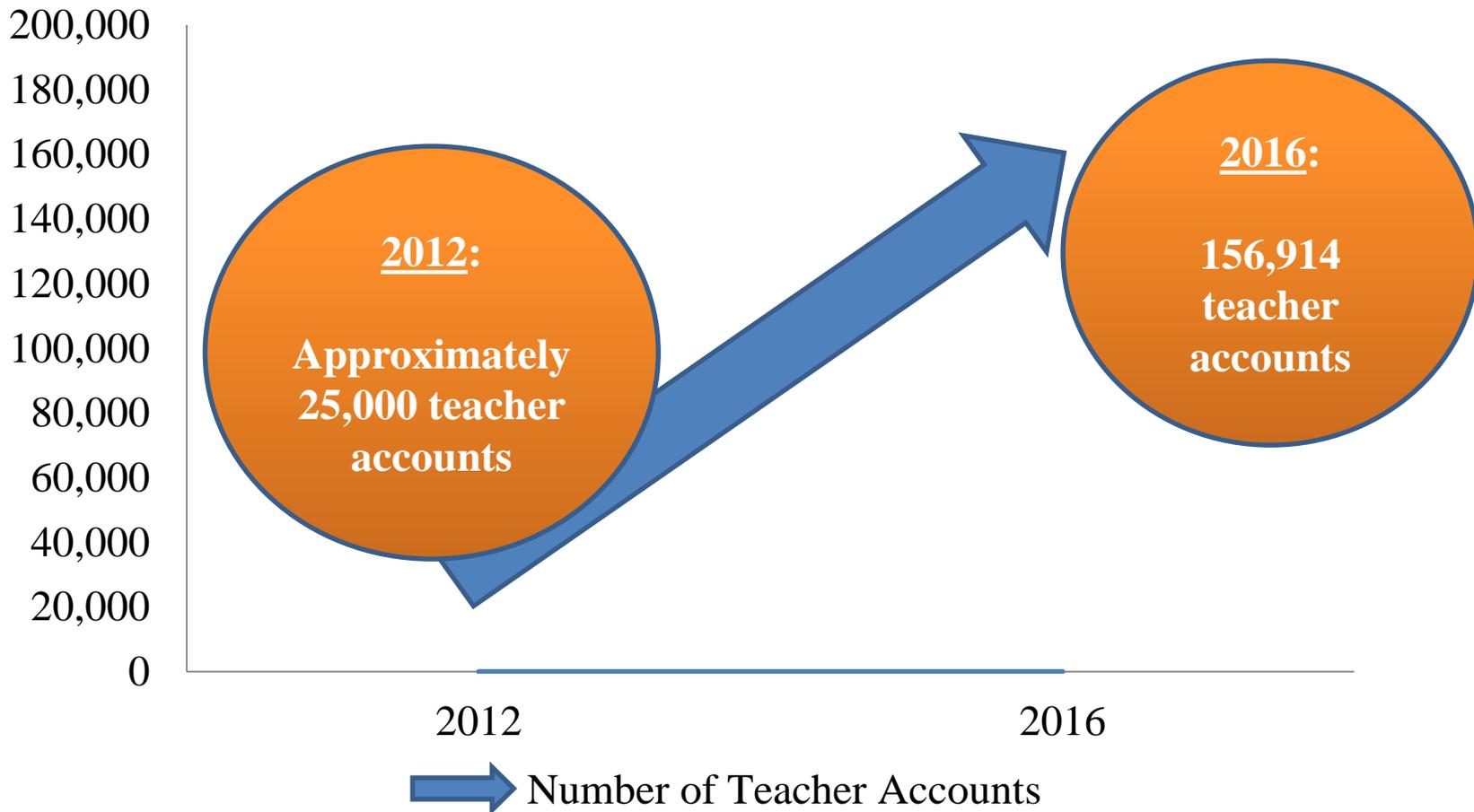Content that works with any system

Permits:

- End-user content contribution and sharing

- Creation and storing of favorites and custom playlists

- Easy inclusion into existing lesson plans and online courses

2013 Winner of "Governor's Technology Award for Innovative Use of Technology in Education" and "National Educational Telecommunications Association Award for Instructional Media"

eMediaVA Content

- Currently 120,313 high-quality, SOL-aligned quizzes, videos, and interactive activities across all grades and subjects

- Content is integrated into VVa courses

- Collection and distribution vehicle for the Virginia Alternative Assessment Resource Collection (70 resources currently available)

- Algebra I: VVa lessons, video course, and two open-source textbooks

- 31 content providers

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eMediaVA Usage

200,000
180,000
160,000
140,000
120,000
100,000
80,000
60,000
40,000
20,000
0

2012:

Approximately 25,000 teacher accounts

2016:

156,914 teacher accounts

2012   2016

Number of Teacher Accounts

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eMediaVA Usage

In 2012, the approximately 25,000 teacher accounts were all from the 19 Hampton Roads school divisions.

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eMediaVA Usage
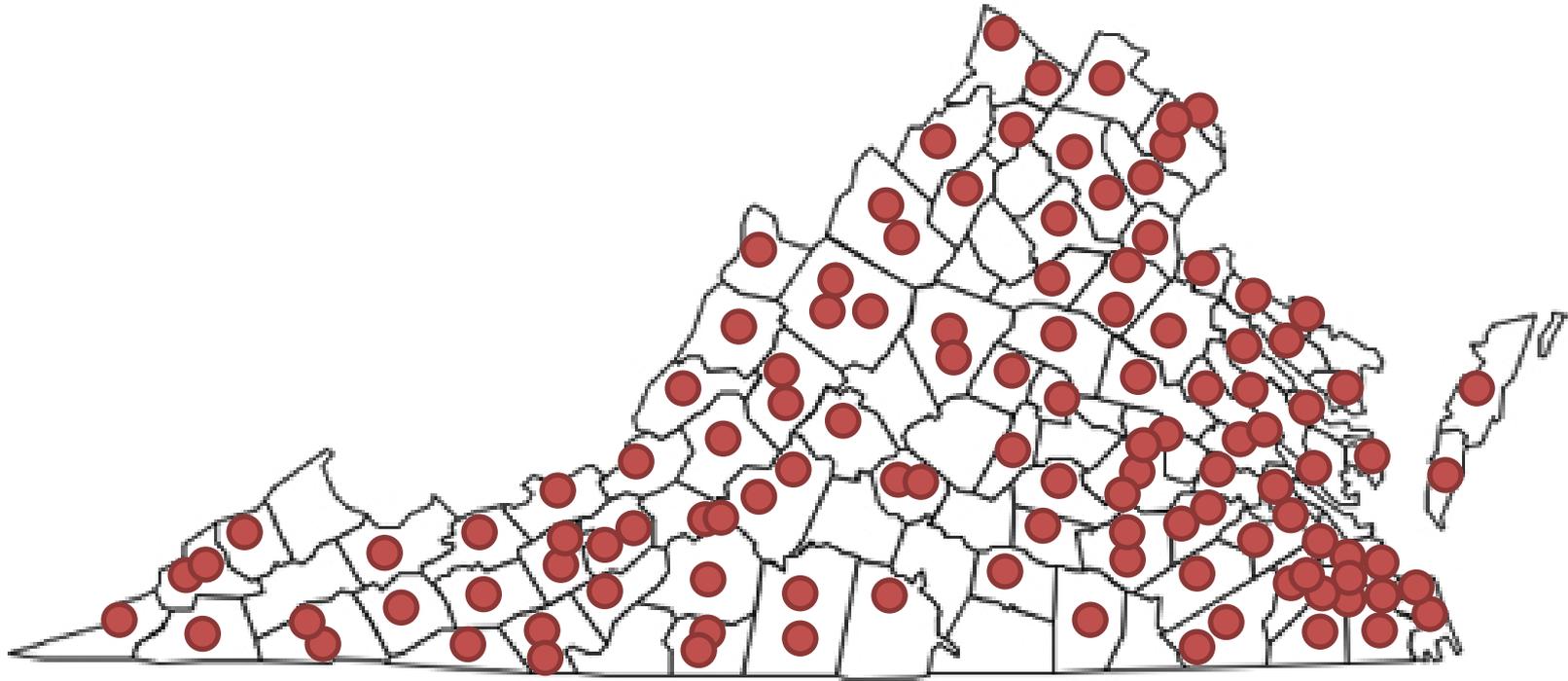
Currently, 156,914 teacher accounts are spread over all eight Virginia Superintendent's Regions.

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Funding of eMediaVA

- Originally funded by WHRO

- Additional state funding in the amount of $400,000 per year started in 2011

- Restoration of cut state funding needed

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eMediaVA Future Objectives

Growth and Expansion:

- Additional statewide training
- New content development

Multidivision Online Providers (MOPs)

Multidivision Online Providers (MOPs)

Multidivision Online Providers (MOPs) supply online courses to K-12 students across multiple school divisions.

- 22 currently approved MOPs
- Local school divisions, private organizations, or nonprofit organizations
- Offer one or more courses
- Supply Virginia-licensed online instructor
- Local mentor from school may support learning

Multidivision Online Providers (MOPs)

Course Offerings

Courses Approved: 1,365

Standards of Learning Courses: 616 (45 percent)

Course Completion and Pass Rates per MOP Reports
Completion Rate: 95.90 percent
Pass Rate: 92.11 percent

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Multidivision Online Providers

VDOE **Approves** based on:

- ✓ Course alignment to Board of Education standards
- ✓ Virginia-licensed instructors
- ✓ Solid history of organization
- ✓ Stability and security of technology platform
- ✓ Research-based curriculum development

Multidivision Online Providers

VDOE **Monitors** based on:

- ✓ Provider satisfaction surveys
- ✓ VDOE parental satisfaction surveys
- ✓ Demographic data
- ✓ Completion and pass rate data
- ✓ Student-Teacher ratios
- ✓ Curriculum and instruction updates

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