



Cohort Announcement and Program Update

Kentucky Board of Education Meeting
Frankfort, KY
August 2, 2018





Programs

Advanced Placement

Supports grades 6-12 pre-AP and AP Math, Science and English courses to increase AP participation and success

Middle School Math

Supports grades 6-8 math teachers to increase the number of students meeting math benchmark

Computer Science

Supports CS education in K-12 classrooms through Code.org training as part of the Kentucky CS Expansion Initiative



Advanced Placement Elements of Success



The NMSI College Readiness Program supports improvements in earning qualifying scores (QS) of 3, 4, or 5 (on a 5-point scale) on national AP math, science, and English exams, which may earn college credit.

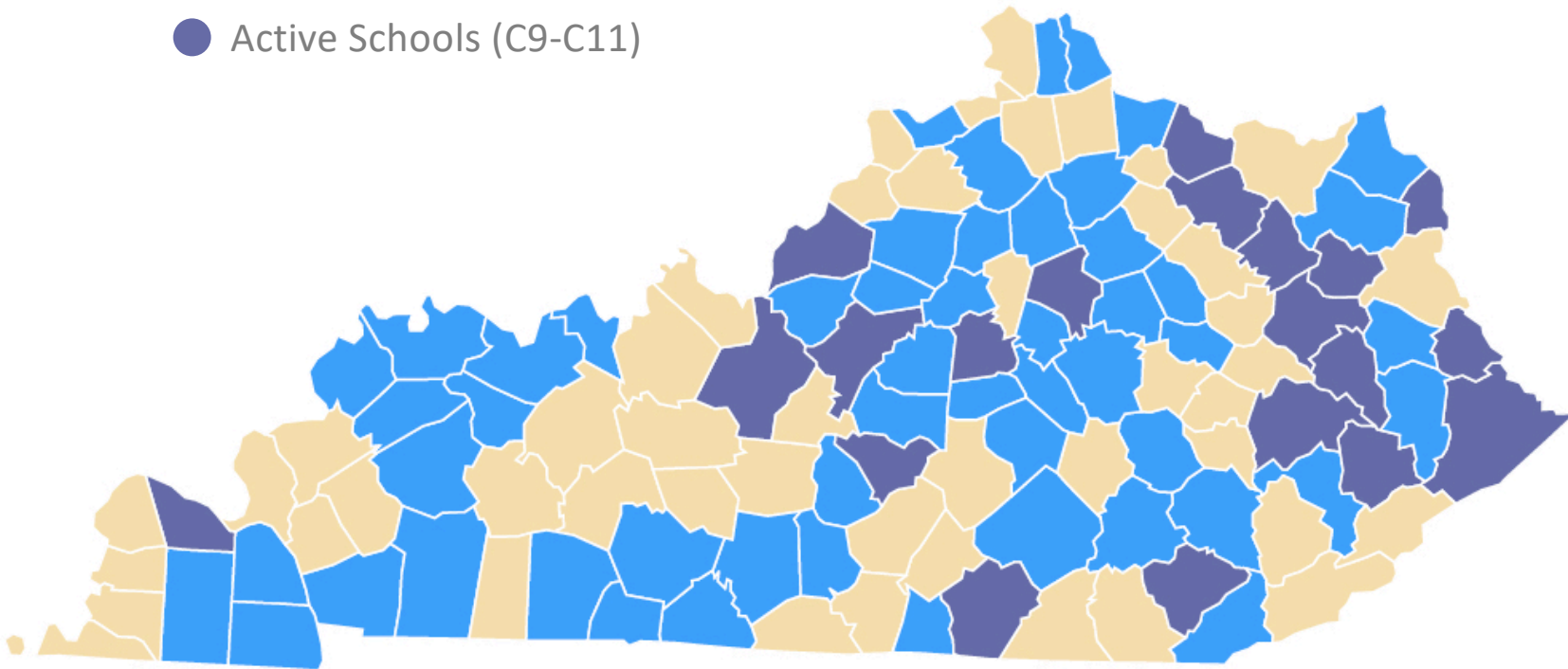


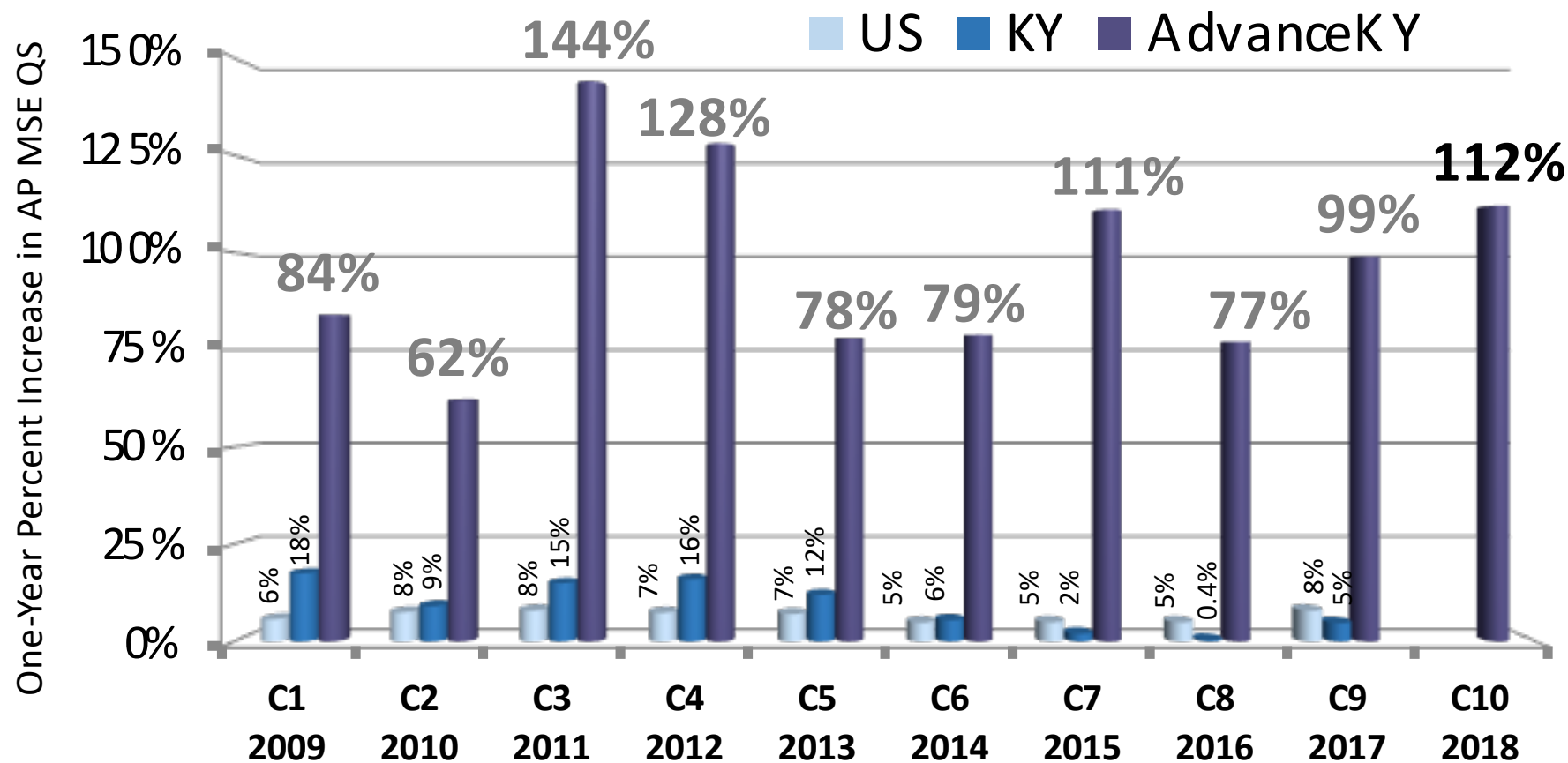
Cohort 11 Profile:

- 4,100 Students
 - 64% Low-income
 - 14% Minority
 - 1200 Projected AP MSE Enrollments
- Elliott County
 - Frederick Douglass High School
 - Morgan County
 - Rowan County
 - Wayne County

● Alumni Schools (C1-C8)

● Active Schools (C9-C11)





Source: College Board



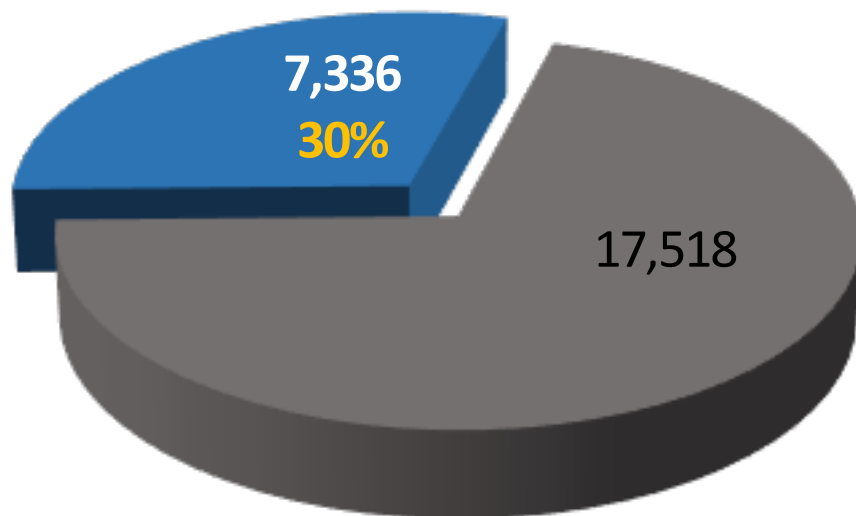
Cohorts 1-7	MSE QS: All Students	MSE QS: FRL Students	MSE QS: Minority Students
Baseline	2513	308	83
Year 3	6387	1255	257
% Change	154.2%	307.5%	209.6%

Source: College Board



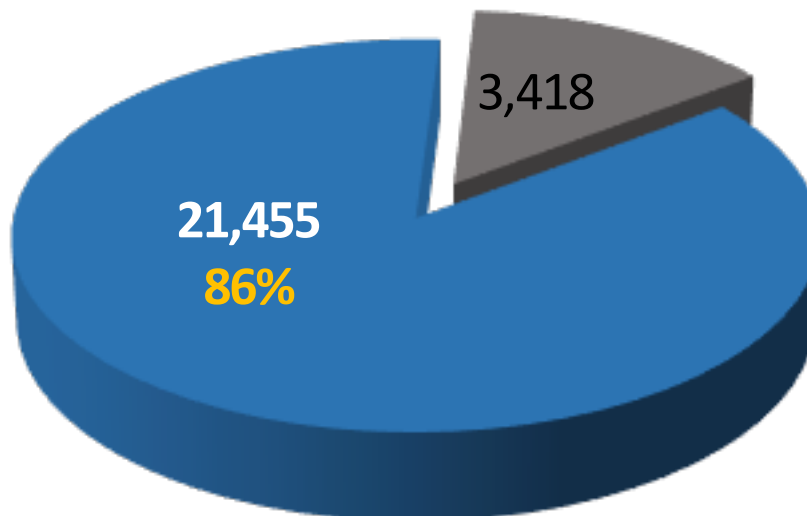
Control Group

■ AP ExamTakers ■ No AP Exam



AdvanceKentucky

■ AP ExamTakers ■ No AP Exam

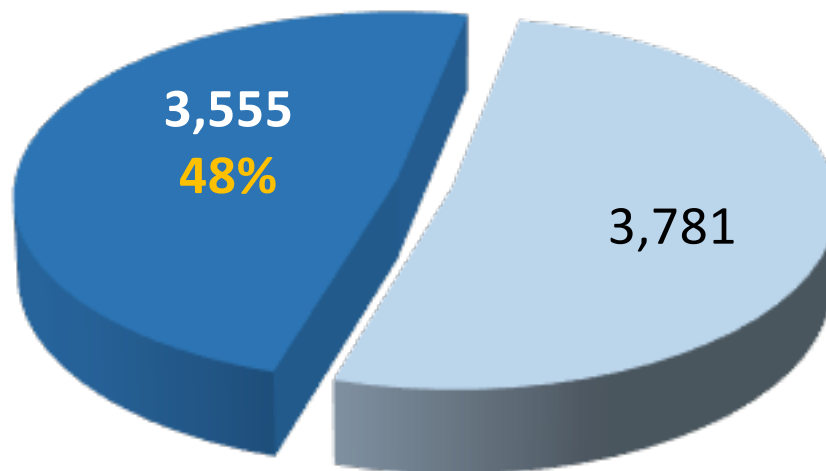


Source: Kentucky Center for Education and Workforce Statistics



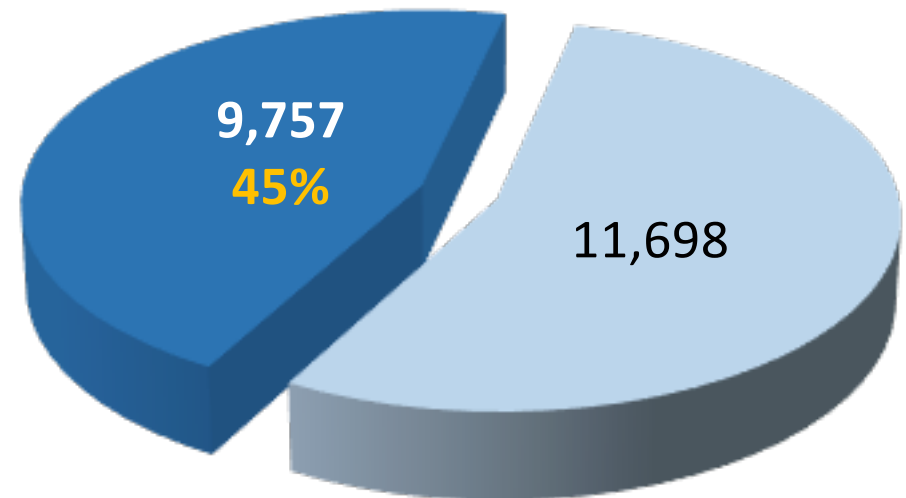
Control Group

■ AP QS E am er ■ NoAP QS



AdvanceKentucky

■ AP QS E am er ■ NoAP QS



Source: Kentucky Center for Education and Workforce Statistics



The Middle School Math Program supports improvements in students meeting 8th grade math benchmark on PSAT 8/9 better preparing them for advanced math and science coursework in high school.



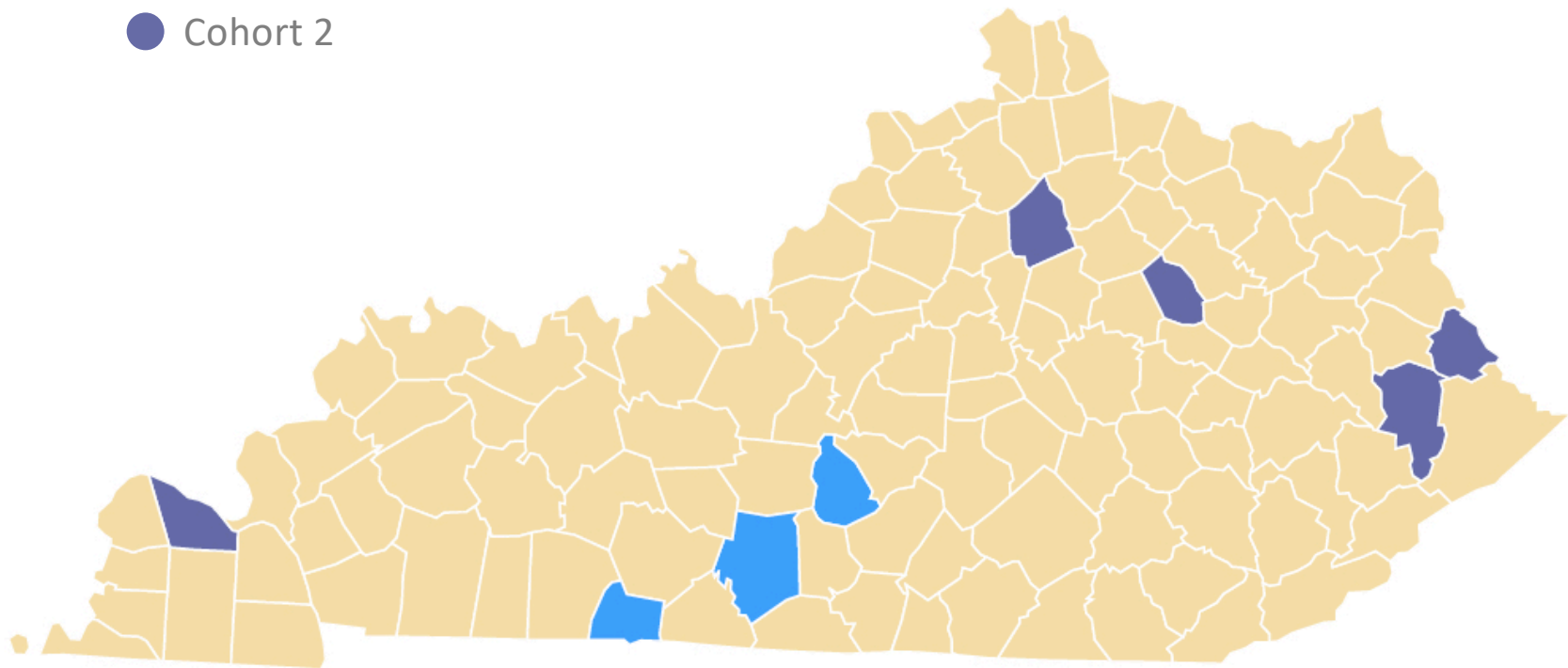
Cohort 2 Profile:

- 3,422 Students
- 71% Low-income
- 17% Minority

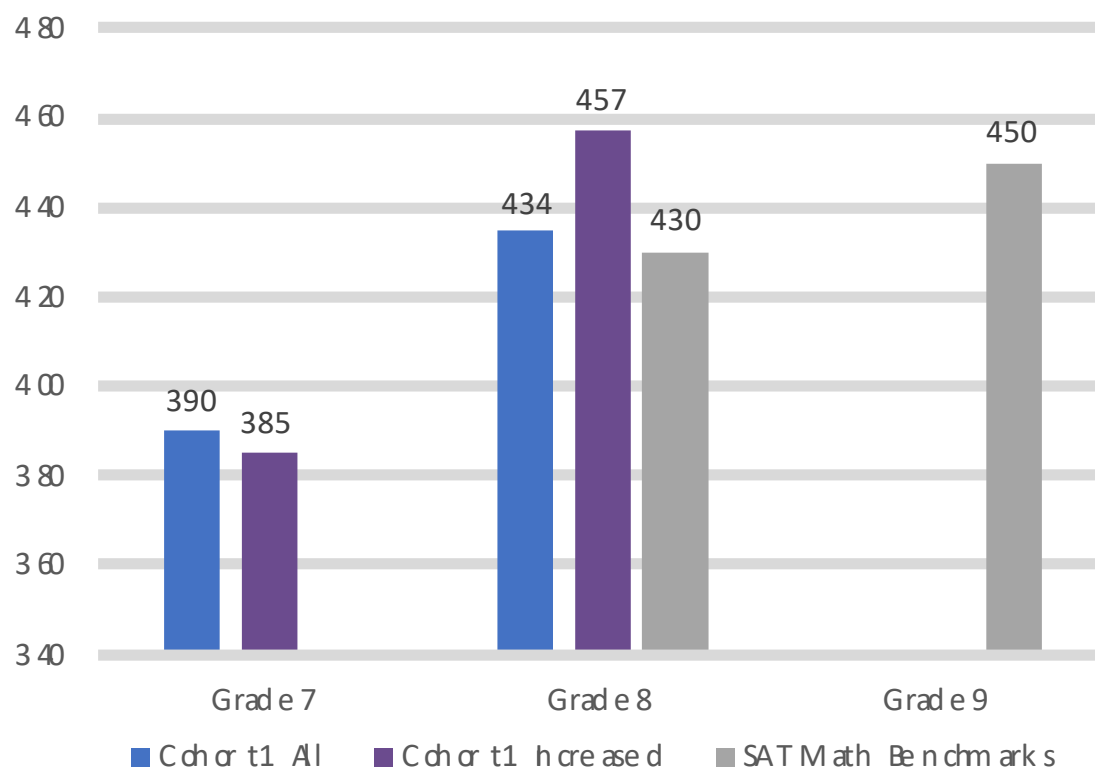
- Allen Elementary (Floyd)
- Betsy Layne Elementary (Floyd)
- Duff Allen Central (Floyd)
- James D. Adams Middle School (Floyd)
- John M. Stumbo Middle School (Floyd)
- South Floyd Middle School (Floyd)
- Martin County Middle School
- McNabb Middle School (Montgomery)
- Paducah Middle School
- Georgetown Middle School (Scott)

Middle School Math 13 Kentucky Middle Schools

- Cohort 1/Pilot (2017-2018)
- Cohort 2



Cohort 1 PSAT 8/9 Longitudinal Math Performance by Grade Level



Cohort 1

- **67%** of students tested in both years increased from 7th to 8th grade
- **43%** of 8th grade students tested in 2017 have already met 9th grade math benchmark

Source: AdvanceKentucky Database and College Board





Computer Science

Code.org Regional Partnership



Courses

- CS Fundamentals (grades K-6)
- CS Discoveries (grades 7-9)
- AP CS Principles (grades 10-12)

CSD and CSP Training

- Summer Professional Development (5 days)
- 4 one-day workshops during academic year

CSF Training

- One-day workshops for CSF





Computer Science KY CS Expansion Initiative

Cohort 2 Profile

- **43** High School Teachers (6 ATC)
- **48** Middle School Teachers
- **39** Public School Districts

Partners

- Kentucky Department of Education
- Code.org
- College Board
- AdvanceKentucky

Purpose

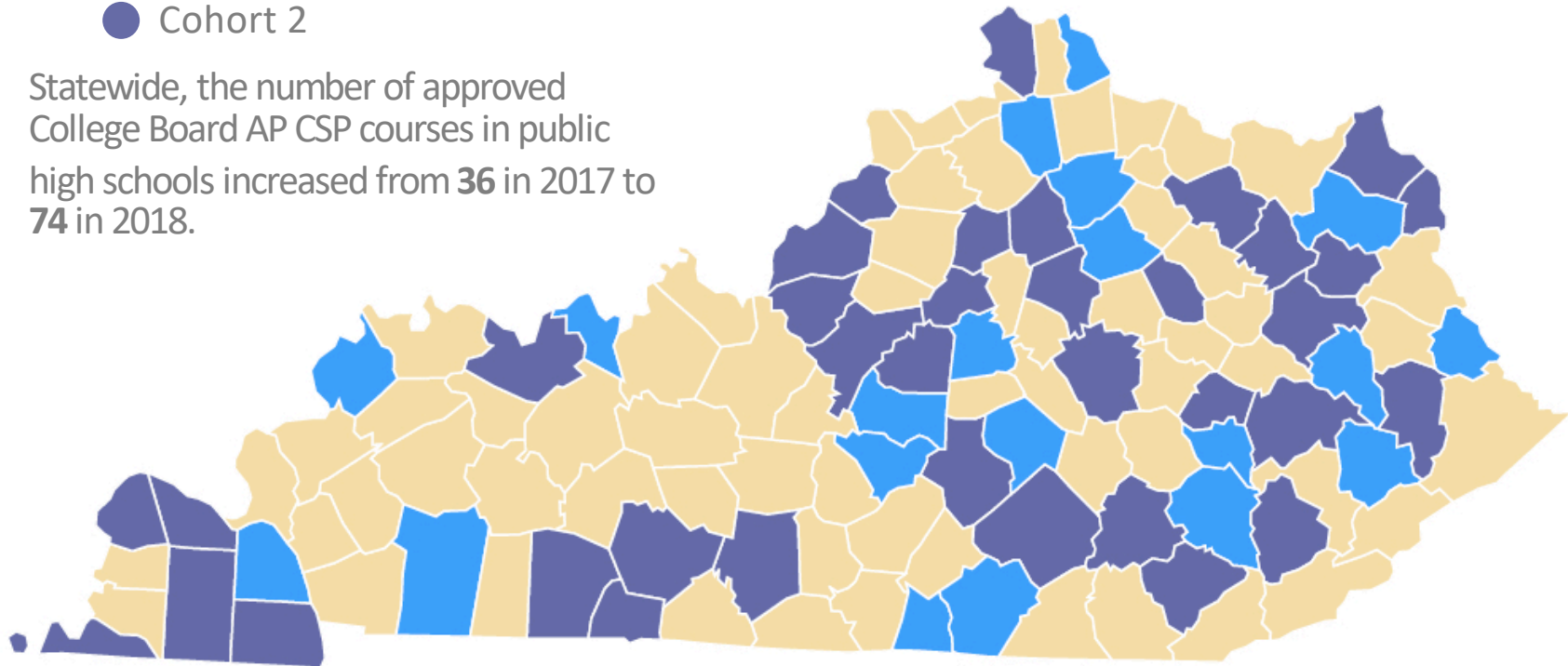
- Train up to **200** total Kentucky teachers in computer science each year for three years.
- **50** teachers in AP CSP each year



● Cohort 1 (2017-2018)

● Cohort 2

Statewide, the number of approved College Board AP CSP courses in public high schools increased from **36** in 2017 to **74** in 2018.



AP CS Principles

40 public high schools and ATC

- **63%** of participating schools were designated high needs (more than 50% FRL)
- **13%** of Code.org AP CSP enrollments were minority
- **38%** of Code.org AP CSP enrollments were female

CS Discoveries

14 public middle schools

- **57%** of participating schools were designated high needs (more than 50% FRL)
- **14%** of Code.org CSD enrollments were minority
- **45%** of Code.org CSD enrollments were female

Source: Code.org

