Kentucky's digital and future ready students and teachers

We are headed towards greater and more meaningful digital interactions between family, school, and community. We believe digital and future ready foundations can:

- help empower student personalized learning experiences and preparedness for college and workforce
- increase teacher productivity and digital workflows
- enhance communications and invaluable collaboration models
- expand data enhanced decision making
- and, provide a robust infrastructure for endless possibilities.

623,513
Avg Daily Attendance

1.66 to 1
↓.24

376,187
Student Instructional Devices

Access

Student access at school and at home helps us understand how "plugged in" learners are during the school day. Students without access to technology in school are less likely to engage in 21st century learning. Ease of access is a precursor to shifts in student outcomes.
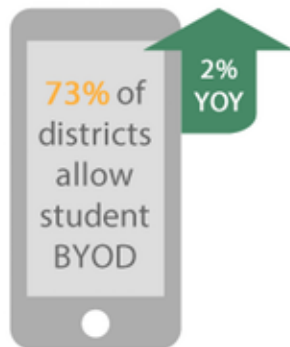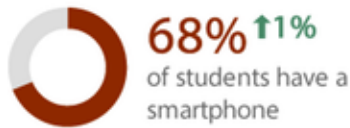
100kbps
Bandwidth per student available through statewide fiber network service

68% ↑1%
of students have a smartphone

100% of schools provide Wifi access to students

Of these, **69%** of schools have implemented dense Wifi networks capable of supporting BYOD or 1:1 initiatives

88% students have Internet access at home. Of whom, **94%** have wireless Internet access.

73% of districts allow student BYOD

2% YOY

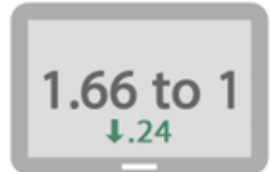|	
89	Districts with BYOD only - 51% (73% total)
17	Districts with 1:1 only - 9% (31% total)
38	Districts with both BYOD and 1:1 - 22%
31	Districts without BYOD or 1:1 - 18%

Anytime, Anywhere, Always On, Differentiated Teaching and Learning
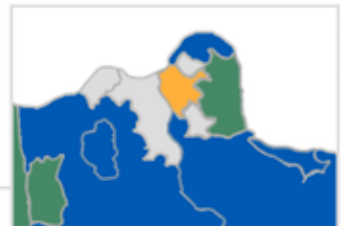
Future Ready Student

Strong online skills, such as confidence using shared digital workspaces, have been correlated with increased collaboration in the classroom.

Students can think about concepts and interactions in more varied ways with the affordances of multimedia and multimodal representations.

85% of KY parents believe their child's school encourages technology use for teaching and learning

89% of KY parents believe technology use in class can enhance student learning

56% ↓5% of students are allowed to use personal mobile devices in class for academic reasons
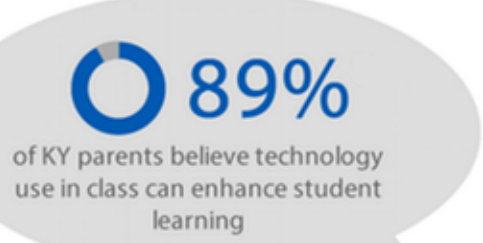
MULTIMEDIA SKILLS

Student reported ease of editing a photo

76% find these tasks easy to perform

13% reported never doing so

Student reported ease of uploading photos from a camera or phone

53% ↑9% find these tasks easy to perform

18% (-5%) reported never doing so

Student reported ease of recording and editing video

58% ↑3% find these tasks easy to perform

11% (-1%) said the task was impossible

Student reported frequency of playing a game on a computer or phone

86% ↑1% at least once a week

4% (-1%) reported never doing so

FOUNDATIONAL SKILLS

Student reported ease of sending an email

81% find these tasks easy to perform

4% (-1%) said the task was impossible
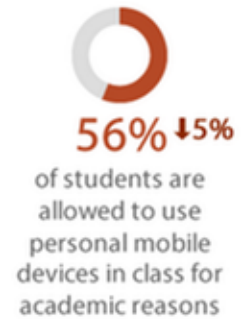
Student reported research methods

Legend:
- All the time
- More than half the time
- Less than half the time
- Rarely
- Never

Categories: search the Internet, friend or teacher, ask in social networks, go to the library, buy a book
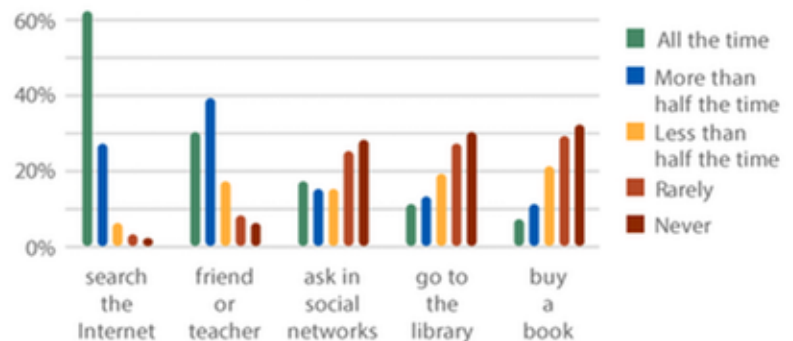
Students who have access to computers and the Internet are more likely to use technology more frequently and have better technology skills. These skills are a precursor to the use of digital creativity, digital collaboration, digital communication, and critical thinking in the classroom and while learning.

Students can also personalize the use of their technology and leverage greater access to engage in anytime, anywhere learning on topics of their choice.
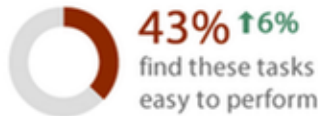
28,951 Courses Completed

8,300 Certifications

44,471 Courses Started

91% ↑3% High School & ATC Participation

< KY IMAGINE ACADEMY />

student responses: > 33,000 | teacher responses: > 4,200

21st Century Teacher

MULTIMEDIA SKILLS

Ability to manipulate photos and record and edit audio or video

43% ↑6%
find these tasks easy to perform

49% expressed interest in PD in this area

ONLINE SKILLS

Essential skills for contributing to and collaborating on the Internet

59% ↑10%
ready to utilize these skills

15% expressed interest in PD in this area

FOUNDATIONAL SKILLS

Basic computing skills - sending email and creating spreadsheets

67% ↓2%
find these tasks easy to perform

17% expressed interest in PD in this area

Most requested education technology PD topics

49% ↓13%
Multimedia Skills

51% ↑9%
Online / Digital Collaboration

43% ↓13%
Classroom Management with Technology

KY teachers are cited as a top 3 state in accessing and using quality data to raise achievement for all students (Data Quality Campaign)

90% ↑1%
of KY teachers believe technology enhances learning and their daily lives

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Teachers with strong foundational skills are able to handle administrative classroom tasks easily, including attendance and grading. Further, teachers who are confident in their ability to use foundational skills are often able to use these skills when learning new online and multimedia skills.

4 of 5 teachers report having sufficient access to instructional technology...

yet less than 2 in 5 have access to an integration specialist or digital learning coach.

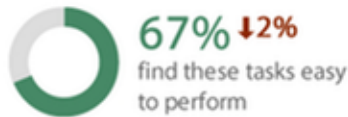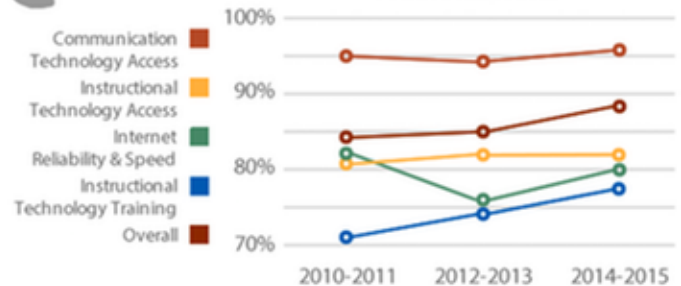### Teacher-reported hours spent per year participating in school-sponsored technology related PD

- 14% 17+
- 12% 9-16
- 18% None
- 51% 1-8 hours

TELL Survey Results
Positive Responses

Legend:
- Communication Technology Access
- Instructional Technology Access
- Internet Reliability & Speed
- Instructional Technology Training
- Overall

X-axis: 2010-2011, 2012-2013, 2014-2015
Y-axis: 70% – 100%

Tech Trends

KETS Offers of Assistance
Per Student

$35

$0

07-08 09-10 11-12 13-14 15-16

63% ↓4% **WINDOWS**

12% ↑1% **MACINTOSH**

17% ↓1% **iOS**

2% **ANDROID**

6% ↑4% **CHROME**

83% of districts registered and using Digital Drivers License (DDL)

INTERNET DDL

71% ↑5% of districts are using learning management systems (LMS)

86% ↑4% of districts offer online or blended courses to students

↑**24% Growth**

STLP
Student Technology Leadership Program

27% After school program or club

73% Program integrated into content
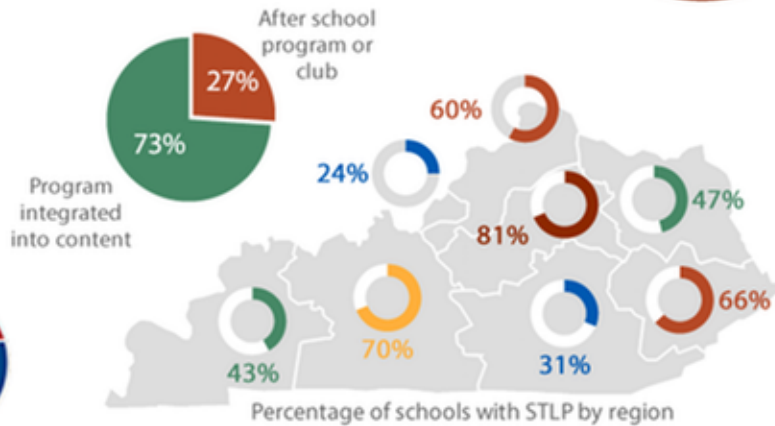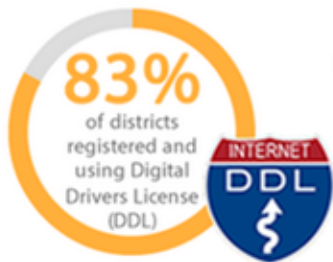
71% of districts are using **Google** Apps for Education. Of these, **64%** have integrated with Office 365 & Active Directory

v11 13%

v9 11%

v10 6%

v7 4%

v8 2%

19%

36%

22%

23%

60%

24%

81%

47%

43%

70%

31%

66%

Percentage of schools with STLP by region

*For our 2016 infographic, we've presented subscript indicators for year-over-year changes to data where applicable. GREEN indicates favorable changes, RED unfavorable, and GRAY neutral.

2016
June

Sources
Kentucky Technology Readiness Report: http://applications.education.ky.gov/trs_reports/
TELL Kentucky: http://www.tellkentucky.org/results/25
BrightBytes: http://brightbytes.net
Digital Driver's License (DDL): http://iDriveDigital.com
Google Analytics
Open House: http://openhouse.education.ky.gov

Kentucky
UNBRIDLED SPIRIT