



## K-12 STATS

**139,047**<sup>1</sup> is the total number of K-12 institutions in 50 states and DC

**87,796** (63%) of K-12 schools across the U.S. connect to Internet2 through one of its state and regional network partners

**44** state and regional R&E networks participate in Internet2's CAP program and are eligible to connect K-12 schools to Internet2<sup>2</sup>

# Internet2 Connectivity in U.S. K-12 Schools

Internet2, through its Community Anchor Program (CAP), supports the advanced networking and application needs of the nation's K-12 community.

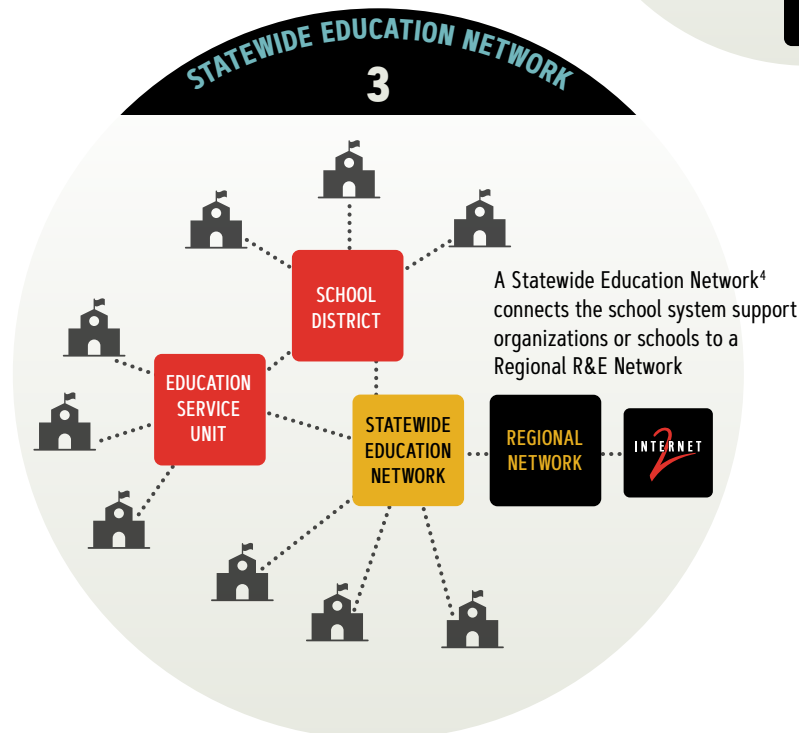
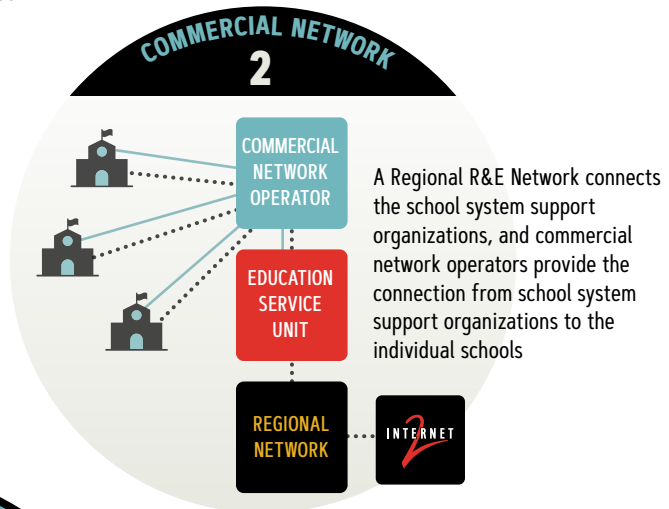
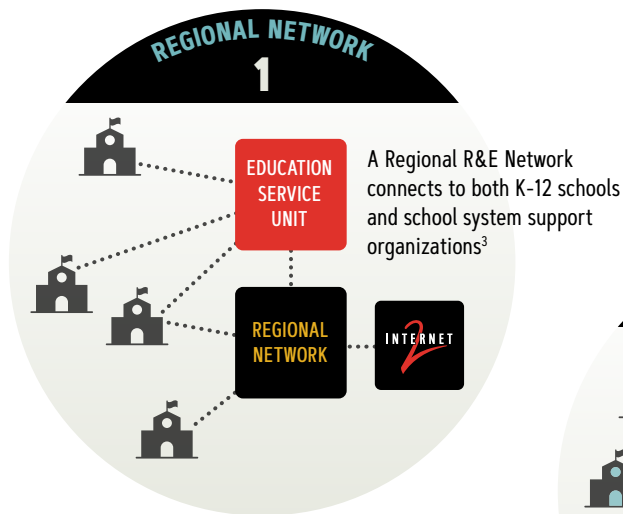
## Internet2 and the K-12 Community

More than 87,000 K-12 schools nationwide connect to Internet2 through one of its 44 state and regional research and education (R&E) network partners. R&E networks are unique. They are typically owned and operated by not-for-profit organizations and are purpose built from the ground up to provide both high speed and high quality connectivity in support of education. CAP supports this connectivity by bringing together the K-12 community, state and regional networks, and sponsoring universities. In addition, CAP facilitates a multitude of programmatic opportunities that utilize the high quality connectivity provided by R&E networks. These include "virtual field trips" to schools across the nation, including, most recently, the "[Presidential Primary Sources Project](#)." This annual program was developed in partnership with the National Parks Service, National Archive and Records Administration Presidential Libraries, and other presidential and historic sites and museums. It enables classrooms from around the country to connect to each other, presidential historians, and National Park rangers in real-time, via interactive video conferencing, to learn how various presidential administrations helped shape our Nation's history. Beyond "virtual field trips," CAP-connected institutions are exploring remotely controlled scientific instrumentation, immersive environments, real-time data visualization, online educational gaming, and networked [performing arts applications](#) that enable performing artists in K-12 and beyond to collaborate together in real-time at distances up to roughly 2,000 miles.

## How do K-12 Schools Connect to R&E Networks/ Internet2?

A state's participation in the Internet2 Community Anchor Program facilitates K-12 school connections to Internet2. Internet2 does not directly connect K-12 schools to its backbone network. Rather, K-12 schools connect to a state or regional R&E network partner that in turn connects to Internet2.

How each K-12 school connects to Internet2 differs, depending on the state or regional R&E network and state in which it operates. The three diagrams below help illustrate the variety of ways K-12 schools typically connect to Internet2.



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<sup>1</sup>Data based on the following sources: 2016 community anchor institution connections survey for Community Anchor Program (CAP) participants and National Center for Education Statistics data (2007-10). Schools included in count: school districts, regional education service agency, K-12 public schools, charter schools, and private schools.

<sup>2</sup>In order for states to participate in CAP and connect community anchor institutions to Internet2, an Internet2 university member must sponsor that state's participation in CAP and an annual fee must be paid to Internet2.

<sup>3</sup>Education service units are also commonly known as intermediate service units (ISUs), education service districts (ESUs), regional service centers (RSCs), or similar. These organizations provide broadband connectivity, centralized technology support, curriculum, procurement, human resources, and other support to school districts and schools within their service area.

<sup>4</sup>State education networks are often, though not exclusively, managed networks based on commercial network operator infrastructure.