A Brighter Future for Colorado through Broadband
Our vision for a brighter future for Colorado . . . affordable broadband connectivity – at school, at work, at home

**With Affordable Broadband . . .**

- **Top-notch learning opportunities** – for a skilled and competitive workforce
- **A vibrant business community** – for a strong and growing economy
- **Leading-edge community services** – for better healthcare and public safety
- **A desirable place to live** – with access to the best life has to offer

**Without Affordable Broadband . . .**

- **Our children struggle** – unable to keep pace with the rest of the world and unprepared to compete in the workplace
- **Our economy weakens** – as businesses die or move to areas with better infrastructure and a skilled workforce
- **Our residents suffer** – from outdated and insufficient healthcare and public services
- **Our rural communities become ghost towns** – as residents seek a better life elsewhere
EAGLE-Net
Educational Access Gateway
Learning Environment Network

Enabling access in Colorado for technology-rich, quality education via broadband network services, advanced applications, and Internet2 connectivity.

EAGLE-Net is a statewide cost-sharing, non-profit consortium for high-speed broadband connectivity for:

- K-12 Schools
- Public Libraries
- BOCES
- Community Colleges
- Higher Education
- Museums
- Housing Authorities
- Fire
- Public Safety
- Healthcare
- Cities and Towns
- Counties
- Other Non-profits
EAGLE-Net is a public/private/state collaborative partnership
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Public Partners
Education, Healthcare, Libraries, Local Government, Museums, Housing Authorities, Public Safety, Regional Optical Networks (RONs), and Non-Profits

Private Partners
Backhaul Providers, Cable Operators, Independent Local Exchange Carriers (ILECs), Cellular Local Exchange Carriers (CLECs), Rural Local Exchange Carriers (RLECs), Network Equipment Vendors, System Integrators, Systems Operators, Wireless Providers

State Partners
Colorado Department of Education (CDE), Labor and Employment (CDLE), Public Safety, Office of Information Technology (OIT), Transportation (CDOT), State Internet Portal Authority (SIPA), and Colorado Regional Health Information Organization (CORHIO)
Colorado ranks 42nd out of 50 states in broadband connectivity

- Schools in Colorado average 3.5kbps of Internet bandwidth per student, **approximately 55% of the national average**.
- According to a National Digital Schools survey, the need for Broadband connectivity in schools **will increase 700% by 2011**.
- Broadband service in Colorado **costs 10x that of states to the east and west**.

**THE NEED**

Students – in fact all Colorado organizations, businesses, and residents – are at a clear disadvantage.
Colorado received less than .11% of Round 1 broadband funding, all as loans

- The Recovery Act provides a total of $7.2 billion in 2 rounds of funding.
- No grants focused on *middle mile infrastructure in Colorado* were awarded in Round 1.
- The West received 51% of total loans awarded and 21% of the grants awarded.

(Data current as of 3/1/10)

**THE NEED**

*Continuous funds to build broadband access where economic forces aren’t sufficient to encourage private investment – time for Colorado to receive a fair share.*
The EAGLE-Net grant application will enable affordable broadband across Colorado

- Connect all 178 K12 school districts, serving over 2,000 schools and 800,000 students
- 15 community colleges
- 26 libraries
- 12 BOCES
- 3 higher education institutions
- Provides Internet, Internet2, and wholesale capacity to 234 community anchor institutions
- Expands service to 4,000 additional community anchor locations

The EAGLE-Net project proposes to invest up to $150M in the broadband infrastructure of the state of Colorado.
Our EAGLE-Net coverage area is multi-state
Aggregation of Broadband Reduces Costs and Improves Efficiency
The EAGLE-Net proposed model is in use and has proven to be sustainable

- Leverage cost of bandwidth
- Reduce duplication of resources across the state
- Develop partnerships

Sustainability can be achieved at a lower TCO by a not-for-profit – we can aggregate demand and implement cost-sharing programs to leverage buying power for advanced service offerings.
Best practices

- We created a public-private partnership, including companies such as Adesta, BNI, Conterra, IBM, Level 3, Qwest, rural local exchange carriers, cable operators, and wireless providers.
- Combined, these companies have over 200 years of experience constructing, operating, and maintaining carrier class national telecommunications networks.
- Local partners meet unique community needs.
- Adheres to Nondiscrimination and Interconnection Policies contained in the Federal Communication Commission’s broadband policy statement.

Without your support, Colorado will not receive a fair share of the broadband funds to support our future.
The EAGLE-Net solution will deliver a broadband infrastructure

- Community Anchors will be offered an initial 20Mbps – 1Gbps, with growth capacity to 10Gbps and higher.
- EAGLE-Net will enhance services for education, research, healthcare delivery, workforce development, and public safety.
- Wholesale services are expected to stimulate the offering of affordable broadband access for more than 1.6 million households and more than 50,000 businesses.

Our statewide broadband initiative will enable a brighter future for Colorado!
Resources

- Consortium for School Networking K-12 Broadband Knowledge Center [www.cosn.org](http://www.cosn.org)
- State Educational Technology Directors Association [www.setda.org](http://www.setda.org)
- Broadband USA Site for Broadband Stimulus information [www.broadbandusa.gov](http://www.broadbandusa.gov)
- National Broadband Plan [www.broadband.gov](http://www.broadband.gov)
- National Association of Telecommunications Officers and Advisors [www.natoa.org](http://www.natoa.org)
- Schools, Health and Libraries Broadband Coalition [www.shlbc.org](http://www.shlbc.org)
- EAGLE-Net [www.co-eaglenet.net](http://www.co-eaglenet.net)
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