

# 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**Our residents suffer** – from outdated and insufficient healthcare and public services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



### THE MISSION

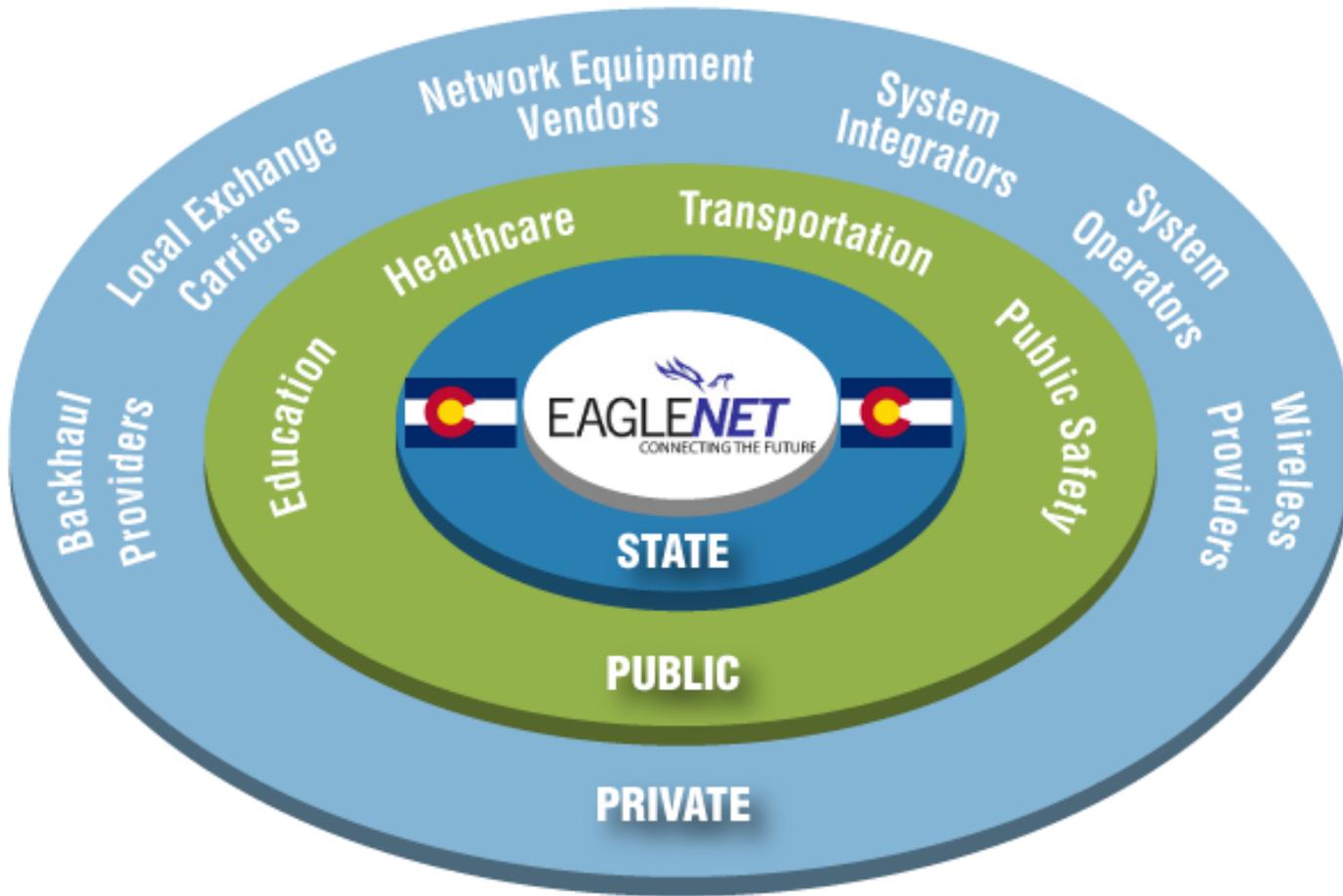


Enabling access in Colorado for technology-rich, quality education via broadband network services, advanced applications, and Internet2 connectivity.

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

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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

### THE NEED



- 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.***

***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 NEED



- 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)

***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

## THE PLAN

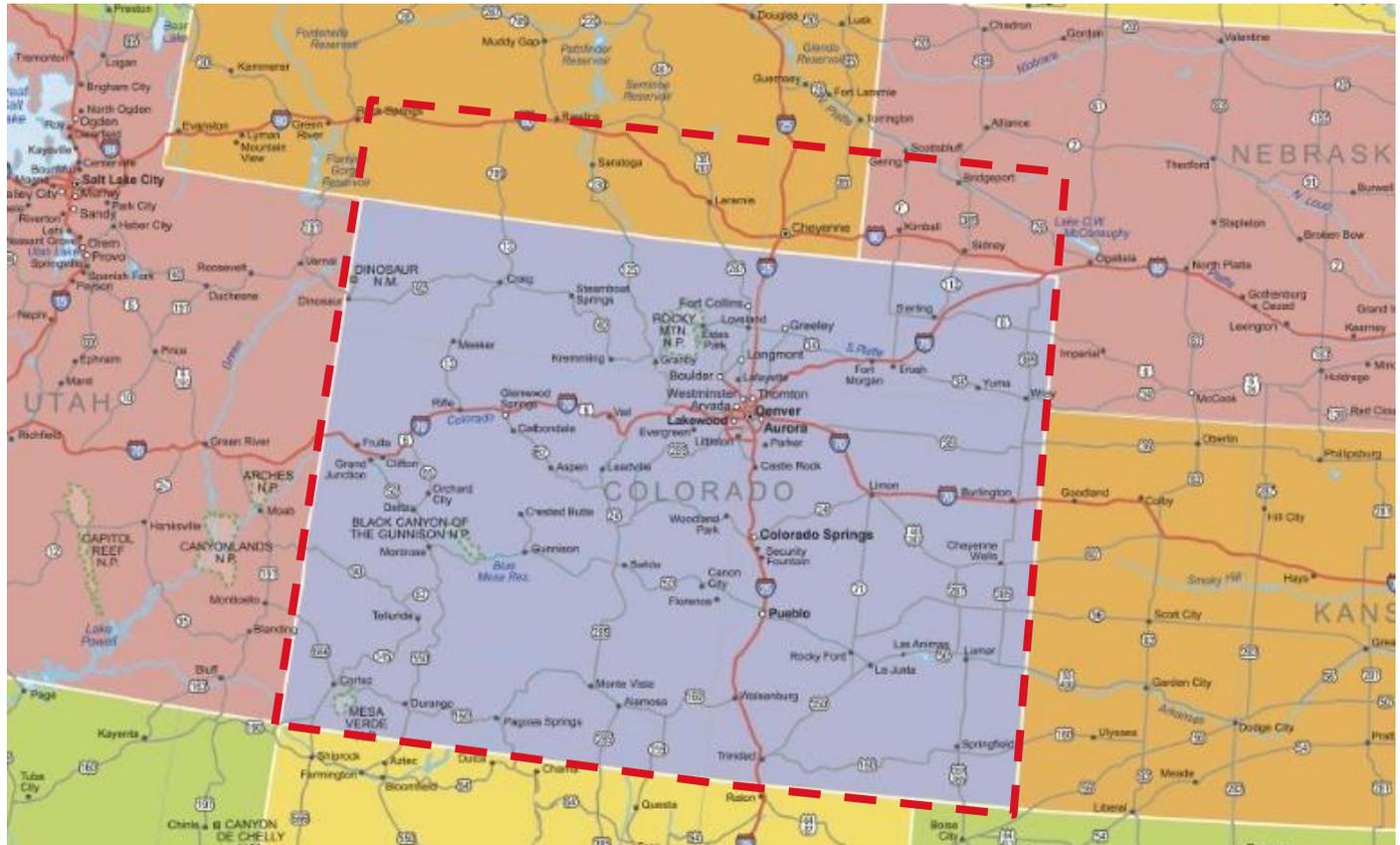


- Connect all 178 K12 school districts, serving over 2,000 schools and 800,000 students
- 15 community colleges
- 26 libraries
- 12 BOCES
- 3 higher education institutions
- Provides Internet, Internet2, and wholesale capacity to 234 community anchor institutions
- Expands service to 4,000 additional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

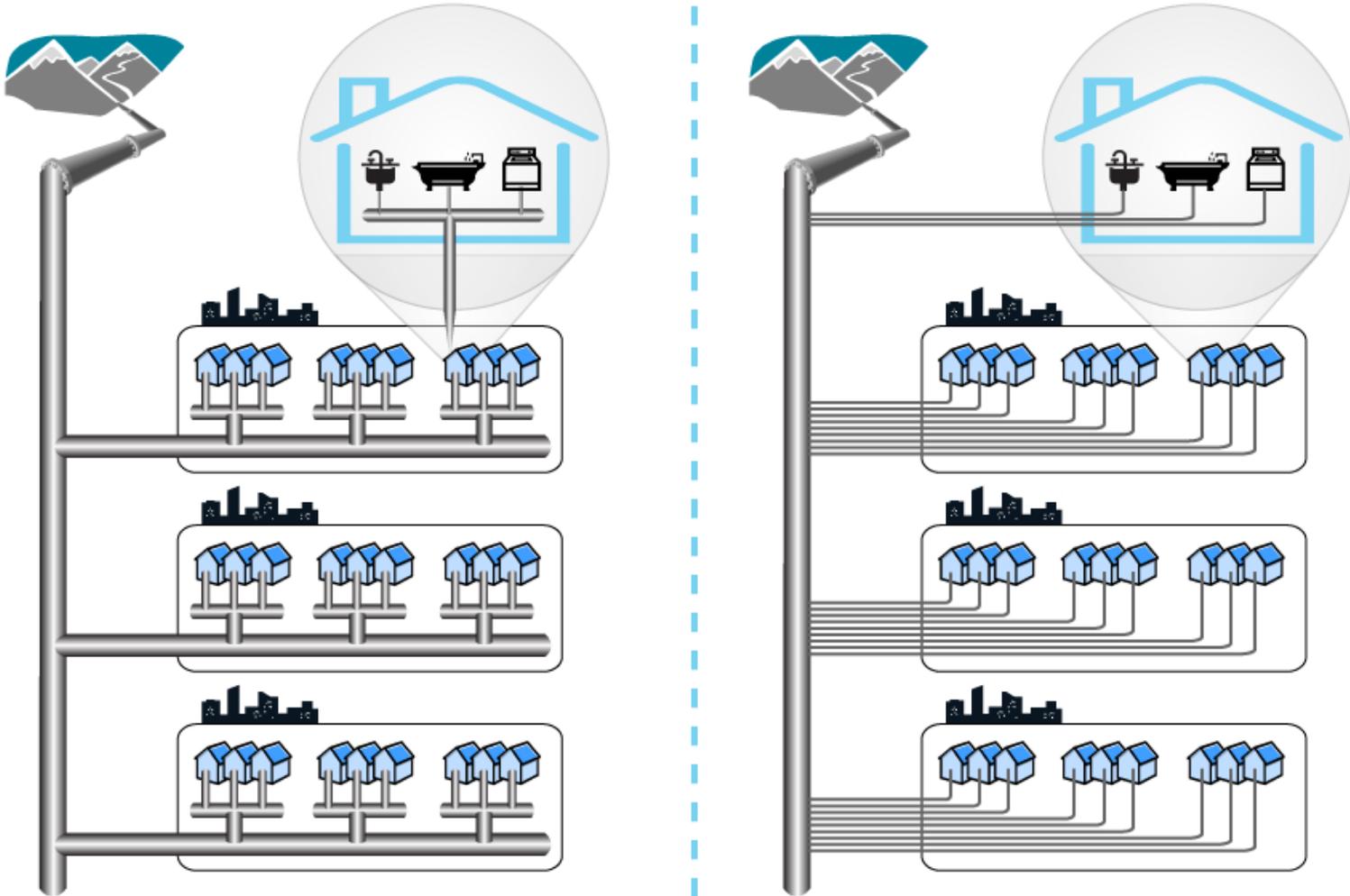
***The EAGLE-Net project proposes to invest up to \$150M in the broadband infrastructure of the state of Colorado.***

# Our EAGLE-Net coverage area is multi-state

## THE PLAN



# Aggregation of Broadband Reduces Costs and Improves Efficiency



# The EAGLE-Net proposed model is in use and has proven to be sustainable

## THE PLAN



- 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

### THE SOLUTION



- 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

## THE BENEFITS



- 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)
- IBM [www.ibm.com/smarterplanet/us/en/government/ideas](http://www.ibm.com/smarterplanet/us/en/government/ideas)
- The National Education Technology Plan <http://www.ed.gov/technology/netp-2010>
- 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)

# Contact us for more information

**ACT NOW**



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