

COUNTY OF EL DORADO BROADBAND PLANNING

DIANE KRUSE CEO, NEO CONNECT

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Broadband Impacts Every Sector of Industry

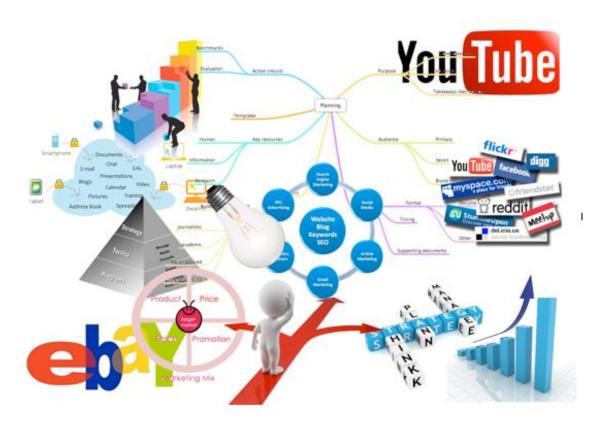




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WHY IS THIS IMPORTANT?



NEOCONNECT

- Economic Development
- Broadband is a critical infrastructure to support a community's vitality.
- The existing "model of scarcity" can be transformed in this process.
- Quality of life for locals, retaining and attracting people
- Broadband infrastructure is necessary to support industry, our schools and students, healthcare and local tourism.
- It impacts everything that we do.

ATTRACT THE NEW KNOWLEDGE ECONOMY

Current Stats in El Dorado

Average age: 44.4 years old.

- The unemployment rate:
 5.40% with job growth of
 2.19%. Future job growth over the next ten years is predicted to be 38.99%.
- The income per capita:
 \$35,128

<u>Average Salaries, by field of</u> <u>study:</u>

Computer Science: \$92,300

- Visual Art: \$90,390
- Sociology: \$87,900
- Industrial Engineering and Management Science: \$85,800
- Business Management & Administration: \$83,700

INCREASE HOME VALUES

Current Stats in El Dorado

 The median home value in El Dorado County, California, is \$391,100.

Home appreciation is
 -22.9% over the last 10
 years.

Homes Values Increase

3.1% with fiber or
 \$11,733

 7% with Gigabit services or \$27,377

COMMUTE TIMES

Current Stats in El Dorado

- The average one-way commute in El Dorado County, California, takes 28 minutes.
- 77% of commuters drive their own car alone.
- 8% work from home.
- Nearly 72% of survey respondents work from home or run their business from home.
- More than 64% use the internet to complete school or job training course work.

- Less Traffic
- Less Pollution
- Less Commute Time
- More people working from home.

NEO – COUNTY OF EL DORADO BROADBAND PLANNING, TIMELINE

Project Start	Deliverables: Current Needs Assessment, Gap Analysis, Levels of Investment, Policies and Ordinances		<u>Deliverables:</u> Written Plan and Strategies, Recommendations and Wrap Up	
Oct 2017	Nov – Dec 2017January 2018Foundation: GIS data CAI Addresses Speed test, Research, Economic Studies & Plans, Initial Meetings for Service & Utility Providers		Feb – March 2018Tasks and Deliverables: Preliminary Design and Capital Cost 	April – May 2018

BROADBAND PLANNING

Policies, Ordinances

- Dig Once, Shadow Conduit, Abandoned Conduit, One Touch for Make Ready
- Permitting, Budget or Funding Set Aside

Surveys and Community Engagement

Identifying Assets and Gaps, Potential Partners, Preliminary Design

• Government applications, Energy Companies, Caltrans, Service Providers

Design & Engineering, Various Levels of Investment

Financial Modeling and Best Options to Further Explore

Recommendations and Plan Forward



Broadband planning activities underway

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CURRENT SPEEDS AND SERVICES

Although wireline services are available along the densely populated sections of Highway 50, many of the rural areas in the County rely heavily on fixed wireless and satellite broadband services.

> ATT DSL, Comcast and/or Charter Cable Services Cal.Net, Consolidated, RemotelyLocated, RockyRidge.net, Hughes.Net and ViaSat

60% of Speed Tests Conducted Meet FCC Minimum 25/3 Mbps

> Gold Standard is 1,000/1,000 Mbps or Gigabit Speeds

LEVEL OF INVESTMENT

1) Facilitation through Broadband Friendly Policies and Ordinances, Tax Incentives and Use of Existing Assets

2) Smart Conduit Construction to Gain Assets and Attract Partners

3) Connecting Community Anchor Institutions, Smart City applications, Coordination with Public Works and other projects

4) Connecting Key Business and Industrial Park Locations

5) Connecting Homes and Businesses, Fiber to the Premise

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POLICIES AND ORDINANCES TO CONSIDER

- Dig Once/Shadow Conduit
- Joint Trench/Shared Costs
- GIS As-builts and Funding Set Aside
- One Touch Make Ready
- Land Use Policies, Conduit Placement



DIG ONCE AND SHADOW CONDUIT

Incremental Cost To Install Shadow Conduit Is \$2 \$7 Per Foot.

Cost To Install New Conduit As A Standalone
 Project Is \$25 - \$35 Per Foot.

 Typically, Shadow Conduit Represents 1-2% Of A Road Improvement's Total Project Budget.



RECOMMENDED NEXT STEPS

- NEO will work with Transportation
 Department to Identify CIP Projects
- Identify Capital Costs of Shadow Conduit
- Set Aside in the Budget for Inclusion in CIP Projects
- Policy and Ordinance Language

Land Use Policy



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QUESTIONS?

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