

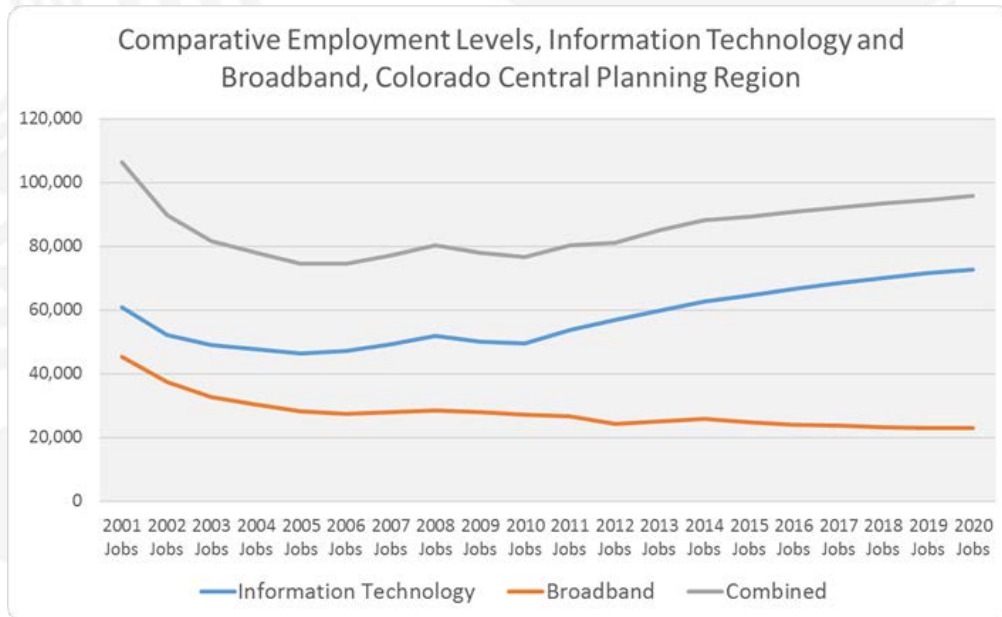
The logo for the Arapahoe/Douglas Workforce Board is centered in a white circle. It features a stylized blue wave above the text "Arapahoe/Douglas" in a serif font, and "WORKFORCE BOARD" in a bold, sans-serif font below it. The background of the slide is a dark blue with a repeating pattern of concentric circles and floral motifs.

Arapahoe/Douglas
WORKFORCE BOARD

Broadband/IT Sector

April 7, 2016

A Combined Broadband/IT Sector



- Computing and the free and fast flow of information have changed our social and economic fabric; these services are now ubiquitous across all industry sectors, local governments and households.

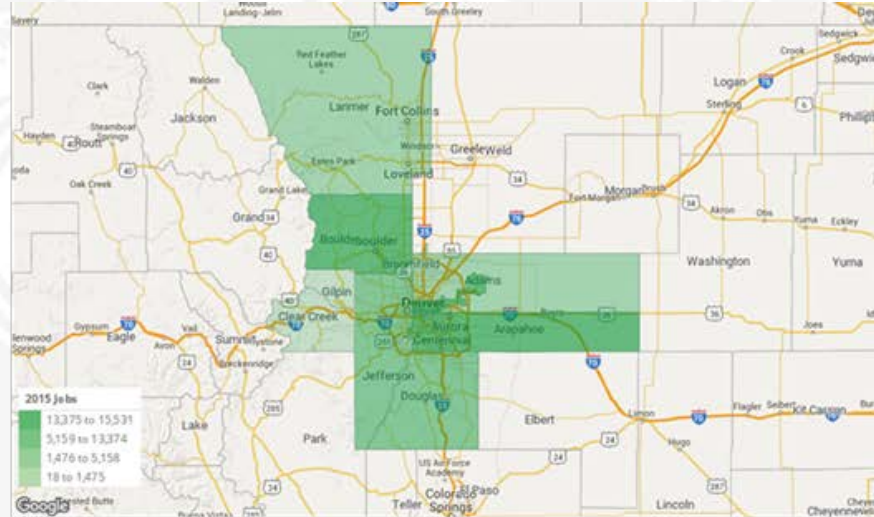
- Traditional wired telecommunications carriers now offer high speed wireless internet, and sophisticated video streaming using satellite technology.
- By 2020, we will have 50 billion “things” talking to each other, performing tasks, and making decisions based on predefined guidelines using artificial intelligence

Since technology and skill needs of workers are so similar, there is a compelling case to be made for addressing the workforce development needs of broadband and IT together.

The Arapahoe/Douglas Area is the Region's Broadband/IT Hub

Regional Concentration by County, Broadband/IT Sector			
County Name	2015 Jobs	Current Wages, Salaries, & Proprietor Earnings	2015 Location Quotient
Denver County, CO	15,531	\$105,077	1.65
Arapahoe County, CO	14,691	\$104,165	2.34
Boulder County, CO	13,375	\$114,779	3.80
Jefferson County, CO	7,229	\$89,266	1.55
Douglas County, CO	5,159	\$109,379	2.25
Larimer County, CO	3,541	\$79,111	1.17
Broomfield County, CO	3,424	\$112,800	4.89
Adams County, CO	1,476	\$94,607	0.38
Gilpin County, CO	24	\$70,334	0.27
Clear Creek County, CO	18	\$62,983	0.26

Source: EMSI 2016.1 QCEW, Non-QCEW & Self-Employed Class of Worker



- Over 13,000 people are employed in broadband in the Arapahoe/Douglas area, with employment concentrations 4 times the national average
- In the IT sector, Denver County employs the most people (over 15,500), followed closely by Arapahoe (14,700) and Boulder (13,400)
- When the two sectors are combined, the Arapahoe/Douglas area employs the most people (nearly 20,000) in broadband/IT, with an employment concentration around 2.3 times the national average.

Current State of Broadband/IT Training Pipeline

Training Pipeline, Broadband/IT Sector, Denver-Aurora-Lakewood MSA, Boulder and Larimer Counties							
SOC	Description	Projected Annual Openings	Completions (Traditional Cross-Walk, CIP to SOC)	Actual Completions	Actual Completions per Annual Opening	Typical Entry Level Education	Strength of Training Pipeline
15-1151	Computer User Support Specialists	478	768	2	0.0	Some college, no degree	Insufficient
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	111	6	6	0.1	Postsecondary non-degree award	Insufficient
15-1132	Software Developers, Applications	644	724	35	0.1	Bachelor's degree	Insufficient
15-1133	Software Developers, Systems Software	313	795	35	0.1	Bachelor's degree	Insufficient
15-1121	Computer Systems Analysts	439	1,244	59	0.1	Bachelor's degree	Insufficient
15-1199	Computer Occupations, All Other	176	1,194	25	0.1	Bachelor's degree	Insufficient
15-1131	Computer Programmers	202	529	30	0.1	Bachelor's degree	Insufficient
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	195	42	32	0.2	Bachelor's degree	Insufficient
15-1142	Network and Computer Systems Administrators	271	818	78	0.3	Bachelor's degree	Insufficient
13-1161	Market Research Analysts and Marketing Specialists	537	272	233	0.4	Bachelor's degree	Insufficient
13-2011	Accountants and Auditors	1,407	707	686	0.5	Bachelor's degree	Insufficient
15-1134	Web Developers	140	1,908	73	0.5	Associate's degree	Insufficient
15-1143	Computer Network Architects	108	1,908	64	0.6	Bachelor's degree	Insufficient
17-2072	Electronics Engineers, Except Computer	125	128	128	1.0	Bachelor's degree	Sufficient
15-1152	Computer Network Support Specialists	88	562	287	3.3	Associate's degree	Surplus
11-1021	General and Operations Managers	1,128	5,598	5,246	4.6	Bachelor's degree	Surplus
11-3021	Computer and Information Systems Managers	209	1,313	989	4.7	Bachelor's degree	Surplus

Source: EMSI 2016.1 QCEW, Non-QCEW & Self-Employed Class of Worker

Note: CIP stands for (U.S.) Classification of Instructional Program, SOC stands for Standard Occupational Code. A 'Cross-Walk' compares the two.

'Actual Completions' means programs that match the specific occupation and typical entry level education.

Current Issues in Broadband/IT

- Computing and the free and fast flow of information have changed our social and economic fabric
- The Colorado Legislature may repeal or modify the 2005 state law requiring voter approval before communities can pursue municipal broadband projects
- Besides Longmont, a handful of bigger metro-area communities (Centennial, Cherry Hills Village), have won voter approval of municipal broadband, but so far only Longmont has acted

Thoughts and/or Questions?