# ASSESSMENT OF THE ECONOMIC IMPACT OF THE REPEAL OF THE TAX EXEMPTION ON TELECOMMUNICATION INVESTMENT IN MINNESOTA

**Telecom Advisory Services, LLC** 

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# THE PURPOSE OF THIS STUDY IS TO ASSESS THE SOCIAL AND ECONOMIC IMPACT OF THE REPEAL OF MINNESOTA'S SALES TAX EXEMPTION ON TELECOMMUNICATIONS CAPITAL EQUIPMENT

- Since 2001, the State of Minnesota has enacted a sales and use tax exemption for telecommunications capital equipment
- However, in 2013, despite a recommendation from the Governor's State Broadband
   Task Force to preserve and expand the measure, the Legislature repealed the sales tax exemption
- As a result, the State will increase direct tax collection from telecommunications companies, estimated by the Legislature to bring in \$148.8 million in revenues between 2014 and 2017
- However, these revenues need to be considered in relation to the potential negative social and economic impact that a repeal would entail
  - Is a repeal of the tax exemption likely to trigger a decrease in the amount of investment in telecommunications?
  - If a decrease in investment is likely, by how much?
  - What is the potential impact of a decrease in telecommunications investment on the State's GDP, and its overall economic impact?
  - Would the repeal also affect the number of direct and indirect jobs created by the telecommunications industry investment in the State?
  - Is the repeal affecting the willingness of the telecommunications industry in Minnesota to continue investing?

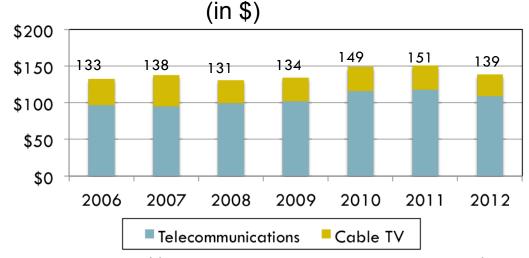
### THE TELECOMMUNICATIONS INDUSTRIES IN MINNESOTA INVESTED A TOTAL OF \$5,167 MILLION BETWEEN 2006 AND 2012

# MINNESOTA: TOTAL TELECOMMUNICATIONS INVESTMENT (2006-2012) (in \$ millions)

	2006	2007	2008	2009	2010	2011	2012
Telecommunications	514.13	504.88	528.69	542.64	614.15	624.58	576.62
Cable TV	190.28	225.22	165.04	170.19	176.62	175.78	158.18
Total	704.42	730.10	693.73	712.84	790.77	800.36	734.80

Total Investment (2006-12) \$ 5,167 million

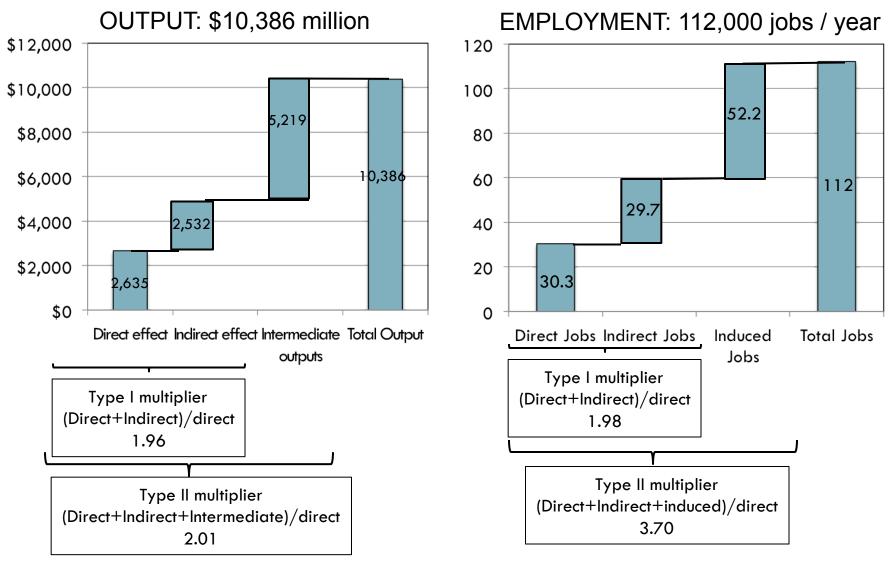
### TELECOMMUNICATIONS INVESTMENT PER CAPITA (2006-2012)



Source: Broadband Tax Institute; Minnesota Cable Communications Association; Minnesota Telecom Alliance; TAS analysis

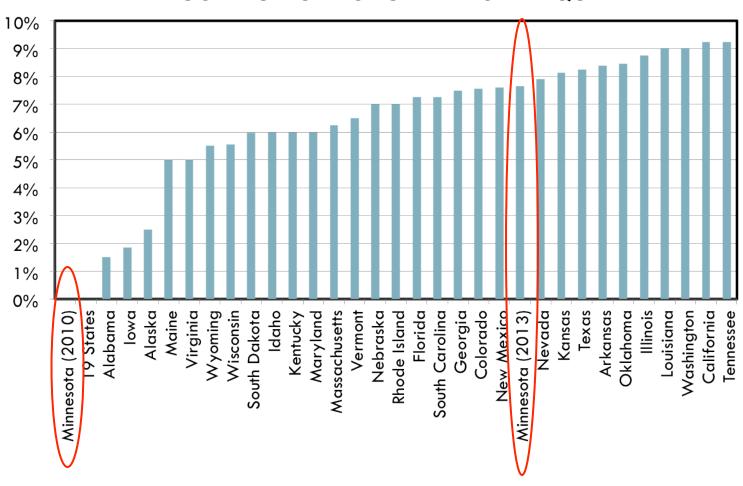
### TELECOMMUNICATIONS INVESTMENT IN THE STATE IN THE PAST SEVEN YEARS HAS HAD A POSITIVE IMPACT BOTH ON GDP GROWTH AND JOB CREATION

### **ECONOMIC IMPACT OF INVESTMENT (2006-12)**



Source: US Bureau of Economic Research; TAS analysis

# RANKING OF STATES BY SALES TAX RATE ON INVESTMENT IN TELECOMMUNICATIONS NETWORK EQUIPMENT



Source: Broadband Tax Institute; TAS analysis

### ECONOMETRIC ANALYSIS INDICATES THAT AN INCREASE OF THE SALES TAX RATE REDUCES TELECOMMUNICATIONS INVESTMENT

# MODEL OF IMPACT OF SALES TAX RATE ON TELECOMMUNICATIONS INVESTMENT PER CAPITA

Independent Variables	Cable Investment	Wireless & Wireline Investment
Sales Tax Rate	-0.458 (**) (0.236)	-0.933 (*) (0.666)
GDP Per Capita (Thousands of 2010 Dollars)	0.0001 (0.040)	0.7598 (**) (0.398)
Population	0.330 (**) (0.150)	-0.388 (0.411)
Human Capital	5.29 (21.54)	-113.86 (110.71)
Rural Population	-7.217 (5.349)	-8.637 (18.566)
Investment the last year	0.762 (***) (0.075)	0.644 (***) (0.065)
% population with 60 years or more	99.297 (80.96)	-1,109.86 (883.66)
% population between 23/32 years	60.60 (162.90)	-1,798.65 (1,515.84)
Constant	-24.05 (45.31)	604.44 (484.55)
Adjusted R*	79.67%	49.35%
Observations	200	200

rate from

6.25% in

2006 to

7.25% in

(\*\*\*) Significant at 1%; (\*\*) Significant at 10%; (\*) Significant at 20%

from \$48 to

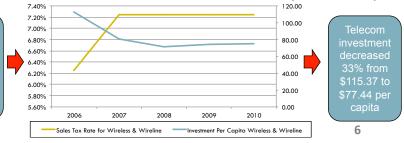
\$148.30 per

Source: TAS analysis

# NORTH DAKOTA: SALES TAX RATE AND TELECOM INVESTMENT (2006-10)

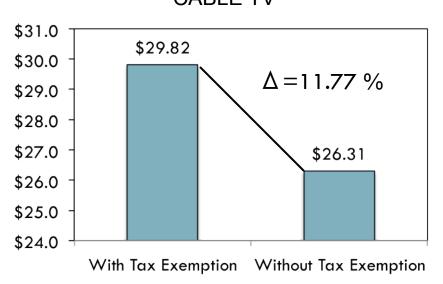
#### 7.00% 160.00 Dakota 140.00 6.00% 120.00 5.00% 100.00 4.00% 80.00 3.00% 60.00 2.00% 40.00 1.00% 20.00 Sales Tax Rate for Wireless & Wireline Investment Per Capita Wireless & Wireline

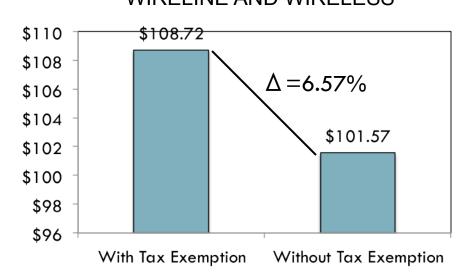
# SOUTH CAROLINA: SALES TAX RATE AND TELECOM INVESTMENT (2006-10)



### MINNESOTA: REDUCTION IN TELECOMMUNICATIONS INVESTMENT PER CAPITA







Source: TAS analysis

# AS A RESULT, THE TOTAL DECREASE IN INVESTMENT OVER THE NEXT TWO YEARS WOULD AMOUNT TO \$153 MILLION

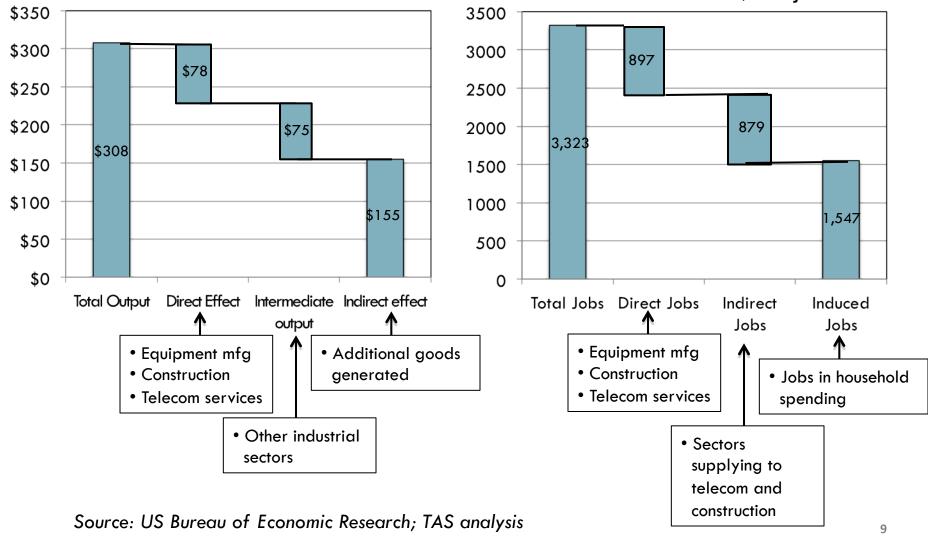
# MINNESOTA: INVESTMENT IMPACT OF REPEAL OF THE SALES TAX EXEMPTION

(In \$ Millions)

	Year 1 (2014)	Year 2 (2015)	Total
Investment Decrease	57.32	96.46	153.79
Future estimated Investment (after exemption repeal)	611.29	572.14	1,183.42
Investment focused on equipment (66% of total investment)	407.52	381.42	788.95
State revenue generated for elimination of sales tax exemption (rate: 7.66%)	\$ 31.22	\$ 29.22	\$ 60.44

Source: TAS analysis

# MINNESOTA: ECONOMIC IMPACT OF REPEAL OF SALES TAX EXEMPTION OUTPUT: \$ 308 million EMPLOYMENT: 3,323 jobs



### ADDITIONALLY, DUE TO THE SPILLOVER EFFECTS OF TELECOMMUNICATIONS, THE NEGATIVE IMPACT ON THE ECONOMY COULD BE LARGER

- Research on the economic impact of the telecommunications deployment has shown that the benefits associated with communications networks are broadly distributed across the many businesses, governments, and non-profits that use information technology and communication services
- Therefore, capital investments made by communications companies improve infrastructure that benefits the entire economy, not just the companies making the investments
- Consequently, negative impact of decreasing investment could extend beyond the direct effects
- Models of economic impact estimate that a reduction in investment caused by a repeal
  of the sales tax exemption could reduce \$ 722 million in the State GDP over the long
  run

#### MINNESOTA OPERATORS SURVEY

Are there planned deployment projects of broadband that you will consider cancelling or delaying as a result of the repeal of sales tax exemption?

How much more would you have been invested if the sales tax exemption had been extended? What would have happened if the Legislature had expanded the sales tax beyond electronics to include any capital expenditures?

Continued Repeal	Number of responses
Cancel or delay	1 <i>7</i>

Continued exemption	Number of responses
No change	14
Increase marginally	7
Increase >15%	7

Exemption expanded	Number of responses
No change	12
Increase marginally	3
Increase >15%	5

Source: TAS analysis

# IN CONCLUSION, THE REPEAL OF THE SALES AND USE TAX EXEMPTION ON TELECOMMUNICATIONS EQUIPMENT IS DETRIMENTAL TO THE ECONOMY OF MINNESOTA

- The telecommunications industry has made substantial investments in Minnesota reaching
   \$ 5.167 billion, between 2006 and 2012
- This investment contributed to the support of 112,239 jobs/year and generated US\$
   10.386 billion in output
- The repeal of the sales tax exemption would trigger a decrease in investment amounting to \$57 million (or a 8.53% decrease of an investment base of \$668.61 million) in Year 1 and \$ 96 million in Year 2
- Given the short term multiplying impact resulting from network deployment, a \$ 153 million reduction in spending over two years would trigger a reduction of 3,323 jobs and \$308 million in GDP
- Beyond this direct effect, econometric modeling indicates that eliminating the sales and use tax exemption on communications infrastructure would indirectly destroy over \$722 million in economic activity over the long run
- In the context of a recovering economy, which continues to exhibit significant duality between urban and rural locations, any policy initiative that has the potential to alter the rate of communications investment could have detrimental effects
- Consistent with the recommendations of the Governor's Broadband Task Force, the repeal should be reconsidered to allow communications service providers to continue playing a critical role in the economic recovery of the state

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