

NEVADA TRANSPORTATION ISSUES

AN ECONOMIC AND FISCAL OVERVIEW

PREPARED FOR:

NEVADA HIGHWAY USERS COALITION



GENERAL OVERVIEW

- Applied Analysis and Hobbs, Ong & Associates were retained by the Nevada Highway Users Coalition to review and analyze the economic and fiscal impacts associated with transportation system improvement delays.
- This analysis includes two primary components
 - A cost-escalation analysis
 - An economic, fiscal and social impact assessment
- This analysis utilizes a number of assumptions about project costs, inflation, timing and demand. It is intended to provide a preliminary framework for analytical discourse; it is not comprehensive in nature.





Part I

The Financial Cost of Delay

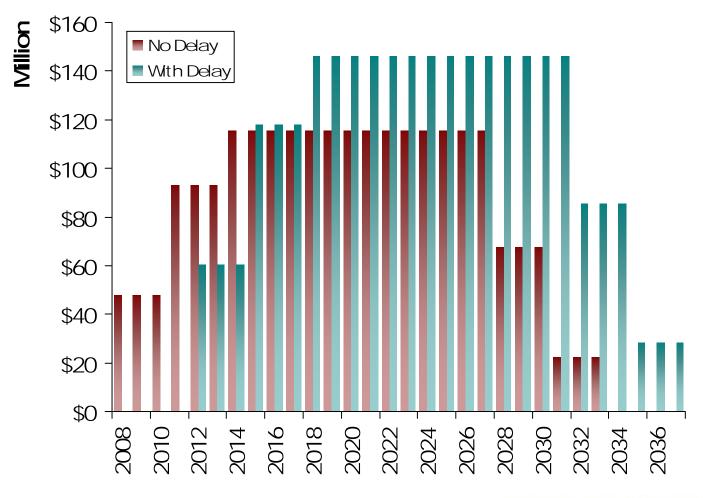




DE VERBANTE AND FISCAR TOFFURM

I-15 PROJECT COST COMPARISON

Escalations in construction cost and financing cost result in an additional cost of \$611 million to Nevada taxpayers.



Sources: PFM; Hobbs, Ong & Associates; and Applied Analysis

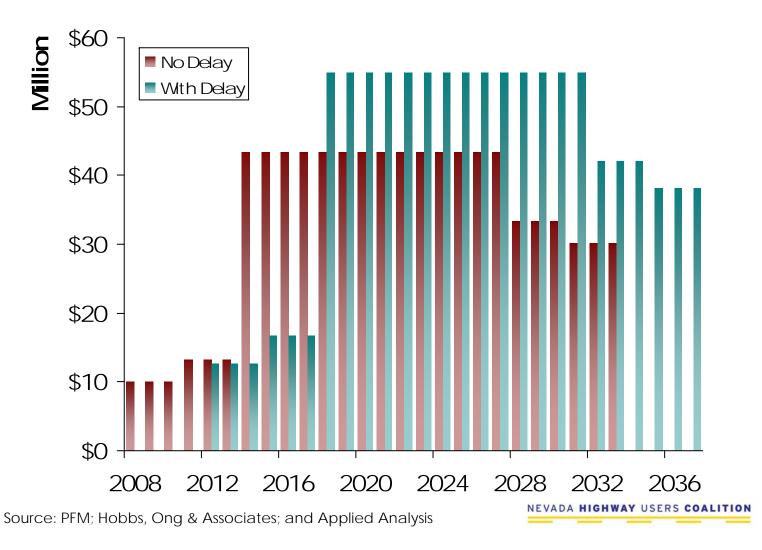




NE VERNOMIC AND SPRAB TOPPING

I-80 PROJECT COST COMPARISON

Escalations in construction cost and financing cost result in an additional cost of \$229 million to Nevada taxpayers.





ak economic and fiscal Tollion

THE RESULT CONSTRUCTION COSTS & FINANCING COSTS

	I-15	I-80	Projects
	Project	Project	Total
Baseline Expenditure Schedule			_
Baseline Par Amount	\$1,576	\$ 592	\$ 2,168
Baseline Debt Service Costs (Principal & Interest)	\$ 2,313	\$ 868	\$ 3,181
Baseline Interest Costs (Interest Only)	\$ 736	\$ 276	\$ 1,013
Five Year Delayed Expenditure Schedule			
Delayed Par Amount	\$ 1,992	\$ 748	\$ 2,740
Delayed Debt Service Costs (Principal & Interest)	\$2,923	\$ 1,097	\$ 4,020
Delayed Interest Costs (Interest Only)	\$ 931	\$ 349	\$ 1,280
Incremental Increase in Debt Service Cost	\$ 611	\$ 229	\$ 840
Incremental Increase in Interest Cost	\$ 194	\$ 73	\$ 267
Percentage Increase in Project Cost	26.4%	26.4%	26.4%

(in millions)



Part II

Economic, Fiscal & Social Impacts

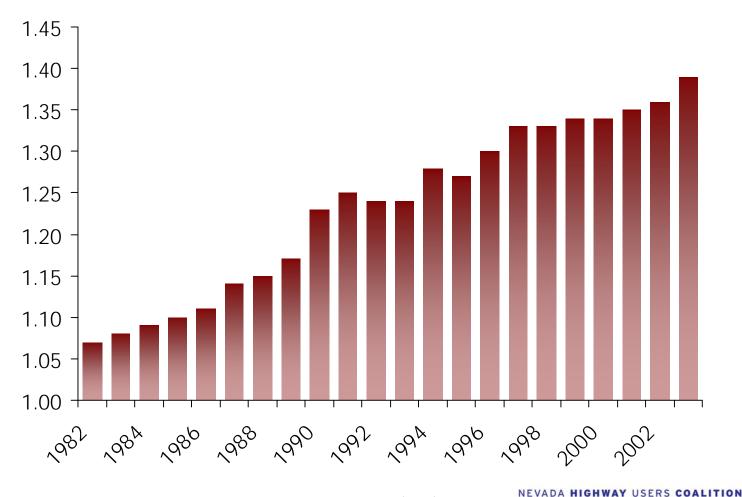




an economic and fiscal overview

TRAVEL TIME INDEX

Southern Nevada's Travel Time Index is now the 10th worst in the nation and is roughly equivalent to that in New York City.

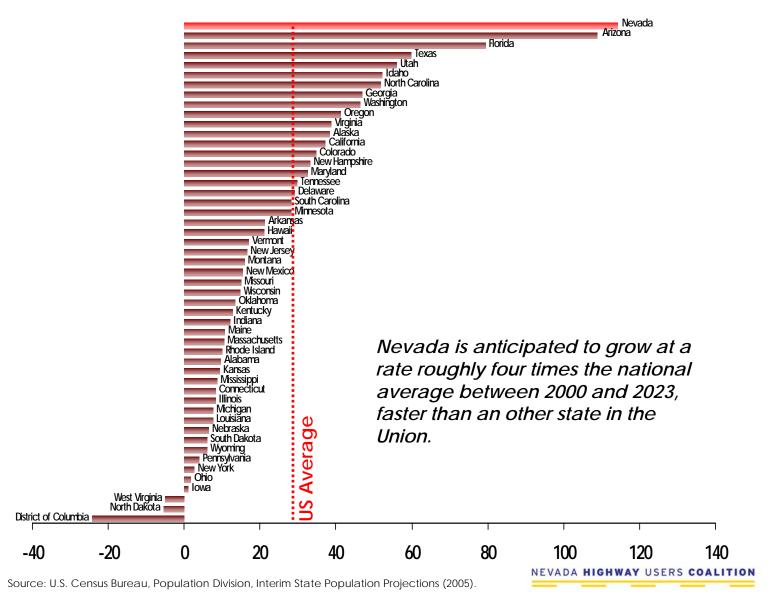


Source: Texas Transportation Institute, 2005 Urban Mobility Study (2006).



AF SECHOMIC AND FISCAR CORVIEW

PROJECTED STATE POPULATION PERCENTAGE GROWTH RATES 2000 - 2030





H BEONOMIC AND FISCAR BOATURE

IMPACT COMPARISON INCREMENTAL COSTS VS. CONGESTION COSTS

- The Texas Transportation Institute estimated that traffic delays cost the average southern Nevadan \$269 during 2003. This rate has increased by roughly 13 percent annually since 1982.
- Assuming that this rate increases by a conservative three percent per year and that the cost of delay in the balance of the state is roughly half that in southern Nevada, total delay costs statewide will be approximately \$27 billion during the next 20 years.





AF Schomic and fiscal Coerview

INCREMENTAL COST-BENEFIT ANALYSIS INCREMENTAL COSTS VS. TRAVELER SPENDING

Total Visitor Volume	51.4 M
Estimated Spending Per Visitor	\$718
Total Annual Visitor Spending	\$36.9 B
Share of Visitors Traveling by Ground Transportation	55.0%
Annual Spending from Ground Trans. Visitors	\$20.3 B
Estimated Visitor Spending During the Useful Life of Proposed Improvements (20 Years)	\$406.0 B
Estimated Incremental Cost of Tourism Improvements	\$3.8 B
Estimated Break-even Point	0.94%
Tourist Visitation Threshold	5.3 M
Total Visitor Volume Threshold	0.51%

Sources: Nevada Commission on Tourism, *Discover the Facts* 2006; Las Vegas Convention and Visitor Authority; Reno-Sparks Convention and Visitors Authority; and Applied Analysis.





AR ECONOMIC AND FISCAR TOFFICE

NEVADA INDUSTRY MATRIX PRODUCTION, DEMAND, IMPORTS AND EXPORTS

	Net Industry Production	Total Commodity Demand	Total Exports	Total Imports
Agriculture	\$1,083	\$404	\$531	\$854
Mining	\$3,574	\$84	\$1,785	\$62
Construction	\$22,803	\$17,891	\$3,010	\$-
Manufacturing	\$10,302	\$13,030	\$7,735	\$27,201
TCPU	\$11,561	\$4,872	\$3,115	\$2,653
Trade	\$18,873	\$13,238	\$3,760	\$3,100
FIRE	\$31,794	\$15,554	\$15,422	\$9,602
Services	\$51,304	\$17,517	\$24,114	\$8,205
Government	\$10,214	\$9,970	\$2	\$499
Other	<u>\$(303)</u>	<u>\$1,248</u>	<u>\$646</u>	<u>\$1,778</u>
Total	\$161,205	\$93,809	\$60,121	\$53,952

Notes

Sources: IMPLAN; Nevada Department of Employment, Training and Rehabilitation; US Bureau of Labor Statistics; and Applied Analysis.



⁽¹⁾TCPU: Transportation, Communications and Utilities; FIRE: Finance Insurance and Real Estate.

²⁾ Figures in millions.

⁽³⁾ Figures will not sum as intermediate line items are omitted from this table.



ak economic and fiscal borrow

ECONOMIC IMPACT SUMMARY HIGHWAY AND ROAD CONSTRUCTION

Highway Construction Spending	\$1,000,000	\$3,800,000,000
Employment (in person years)		
Direct	7.7	29,260
Indirect	2.5	9,500
Induced	<u>3.1</u>	<u>11,780</u>
Total	13.3	50,540
Wage and Salary Payments		
Direct	\$441,294	\$1,676,917,694
Indirect	\$104,517	\$397,163,954
Induced	<u>\$106,897</u>	\$406,210,082
Total	\$652,708	\$2,480,291,730
Economic Output		
Direct	\$1,000,000	\$3,800,000,000
Indirect	\$254,676	\$967,768,800
Induced	<u>\$262,550</u>	\$997,690,000
Total	\$1,517,226	\$5,765,458,800

Sources: IMPLAN; Nevada Department of Employment, Training and Rehabilitation; US Bureau of Labor Statistics; and Applied Analysis.





NEVADA TRANSPORTATION ISSUES

AN ECONOMIC AND FISCAL OVERVIEW

PREPARED FOR:

NEVADA HIGHWAY USERS COALITION