



FAILURE TO ACT

**THE ECONOMIC IMPACT
OF CURRENT INVESTMENT TRENDS IN
SURFACE TRANSPORTATION
INFRASTRUCTURE ★★★★★**

ASCE

AMERICAN SOCIETY OF CIVIL ENGINEERS



**ROUGH
ROAD
AHEAD**

TABLE 2 ★ Summary of Impacts on Economic Performance Over Time *(billions of 2010 dollars)*

IMPACT OF DEFICIENCIES	CUMULATIVE IMPACT BY 2020	CUMULATIVE IMPACT BY 2040
Personal Income	–\$930	–\$897
US Value Added (Impact on GDP)	–\$3,135	–\$2,662

SOURCE LIFT/INFORUM model, University of Maryland. Calculations by University of Maryland using the personal consumption expenditure deflator. Income loss exceeds GDP because the deterioration of infrastructure has a disproportionately negative effect on high-wage industry sectors.

**FOR AN ADDITIONAL
INVESTMENT OF
\$94B PER YEAR
WE CAN:**

**+ Create
millions
of jobs**

**+ Protect
another 1.1
million jobs**

**+ Save 200
million hours
in travel time**

**+ Save each
family \$1,060
per year**

**+ Add \$10,000 in
GDP for every
person in the U.S.**

Source: American Society of Civil Engineers



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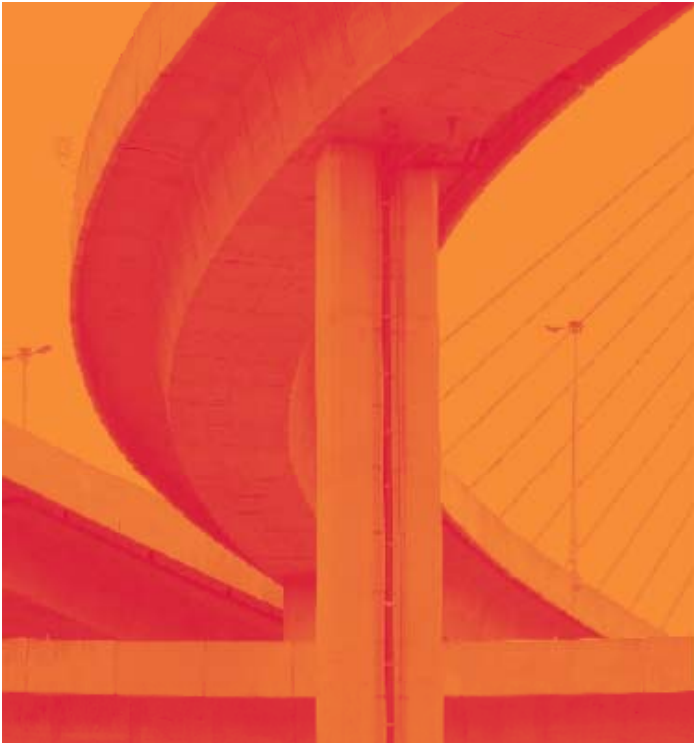
2009
REPORT CARD for **america's**
INFRASTRUCTURE

AMERICA'S
INFRASTRUCTURE G.P.A.

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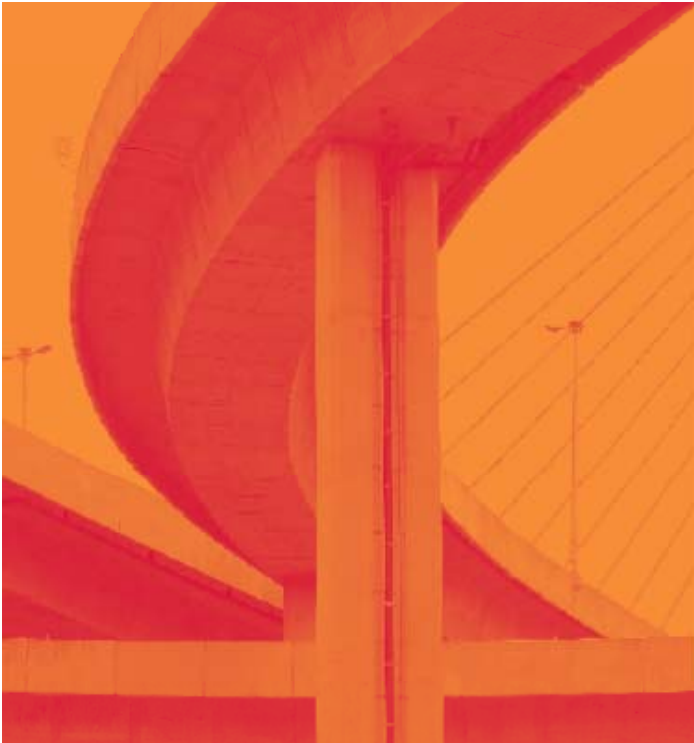
ESTIMATED 5 YEAR
INVESTMENT NEED

\$2.2
TRILLION



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Costs Imposed:

- Facilities in poor condition cause:
 - Damage to vehicles
 - Detours and wasted time
 - Increased maintenance costs

- Decreased reliability causes:
 - Longer travel time for on-time arrivals and deliveries

- Environmental and safety costs from:
 - Wasted energy
 - Higher emissions
 - Exposure to public health risks

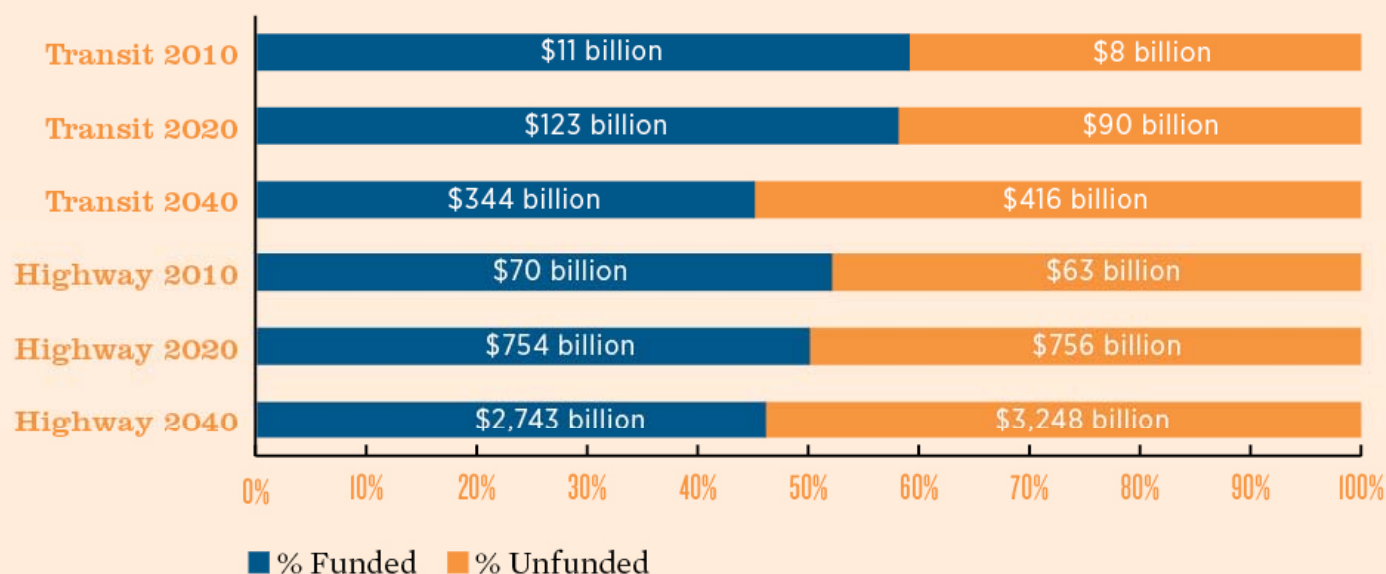
TABLE 1 ★ The Mounting Cumulative Cost of Deficient and Deteriorating Surface Infrastructure Imposed on Americans*

PERFORMANCE AREA	COST OF CURRENT DEFICIENCIES	COST BY 2020	COST BY 2040
Pavement and Bridge Conditions	\$10	\$58	\$651
Highway Congestion	\$27	\$276	\$1,272
Rail Transit Conditions	\$41	\$171	\$370
Bus Transit Conditions	\$49	\$398	\$659
Inter-City Rail Conditions	\$2	\$10	\$20
TOTAL COST TO SYSTEM USERS	\$130	\$912	\$2,972

**Present value of cost stream in billions of constant 2010 Dollars*

SOURCE EDR Group, Transportation Regional Economic Impact System (TREDIS) analysis.

FIGURE 1 ★ National Funding Gap by Mode



SOURCES EDR Group analysis using 2010 USDOT Highway Economic Requirements System for States (HERS-ST) and 2008 Highway Performance Monitoring System (HPMS) data, USDOT Transit Economic Requirements Model (TERM), and 2010 National Transit Database.

NOTE Dollars and percentages represent cumulative capital funding and expected gaps based on present trends (\$billions 2010).

AMERICA LOSES GROUND in the global economy.

.....

U.S. exports would drop by
\$28 billion.

+

Exports drop in
79 of 93 different
tradable commodities.

=

America's gross domestic
product underperforms by
\$3.1 trillion.

**American businesses
and workers
PAY A HEAVY PRICE.**

.....

America would lose
877,000 high-skill jobs.

.....

Another **234,000** jobs exist only if
many more workers agree to paycuts.

.....

Between now and 2020
transportation costs
increase \$430b

Families have a
**LOWER STANDARD
OF LIVING.**

American families would earn
\$710 less each year.

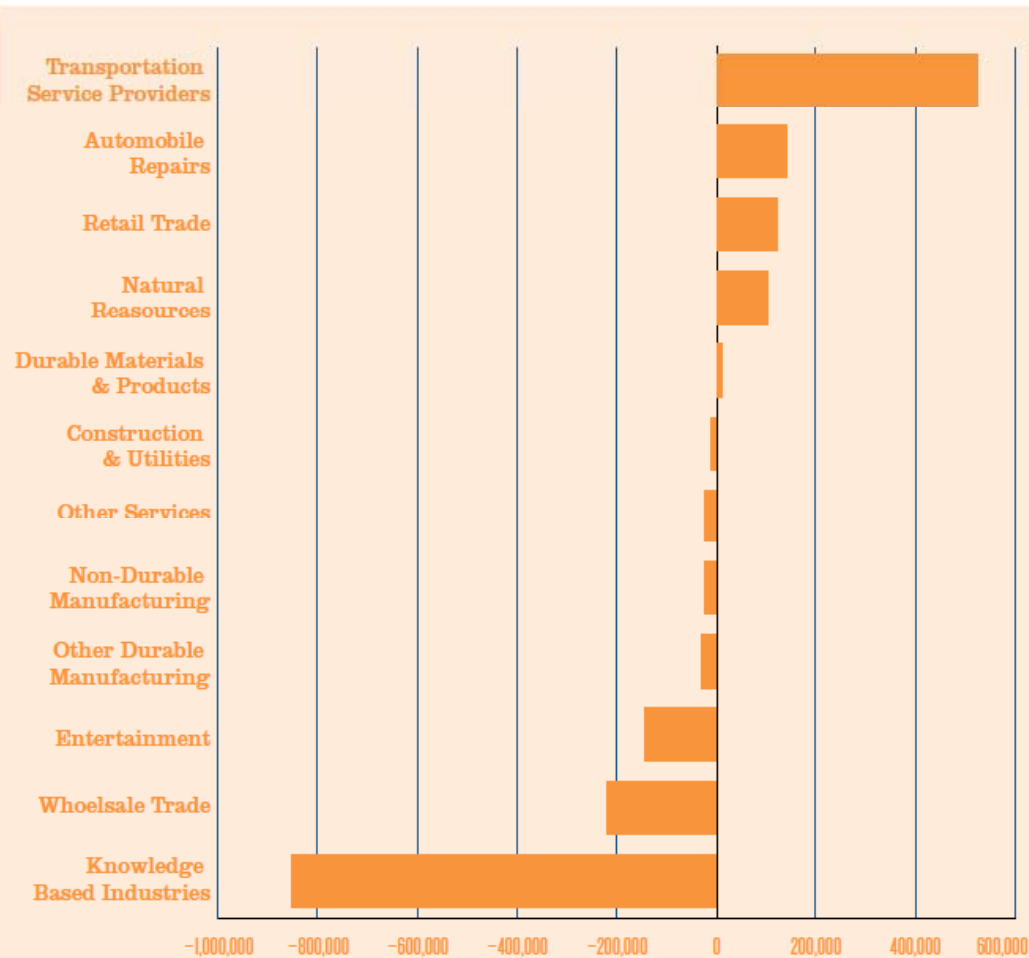
+

And spend **\$360 more**
each year.

=

Total impact on each family's budget:
\$1,060 per year.

FIGURE 3 ★ Change in U.S. Jobs in 2040 Attributable to Infrastructure Deficiencies



SOURCE LIFT/Inforum model, University of Maryland, 2011

NOTE: Natural resources include mining, agriculture, forestry and fishing. Other durable manufacturing includes electrical and nonelectrical machinery, instruments, and transportation equipment. Nondurable manufacturing includes chemicals, drugs, plastics and synthetics, rubber and leather products, food processing, textiles, apparel, and miscellaneous manufacturing. Entertainment includes restaurants, bars, amusements, and movies. Knowledge-based services include computer and data-processing services, educational services, finance, insurance and real estate, professional services and other business services, and medical services.

The background is a collage of civil engineering structures. The top and bottom sections feature blue-tinted images of bridges and architectural details. The middle section is a solid orange rectangle containing the word 'Questions?'.

Questions?