

2013

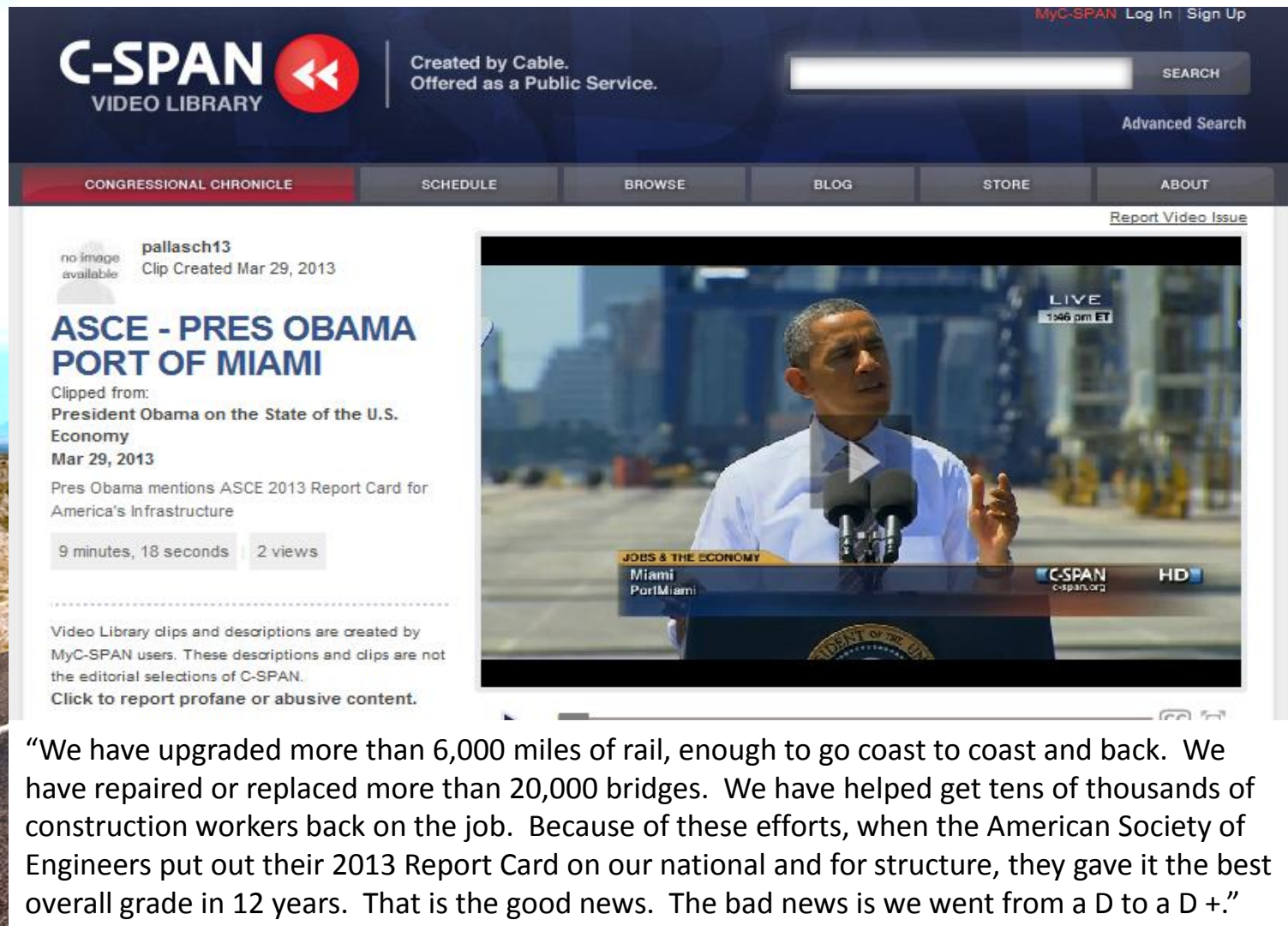
**REPORT
CARD**

★ **for** ★ **america's
INFRASTRUCTURE**

Trends in US Infrastructure Policy

- Infrastructure investment lacks a national vision or champion
- Infrastructure spending decreasing relative to other countries
- State and local governments take an increasing role
- Signs of progress: MAP-21 and potential WRDA bill

Recent focus on infrastructure



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Report Video Issue

no image available pallasch13
Clip Created Mar 29, 2013

ASCE - PRES OBAMA PORT OF MIAMI

Clipped from:
President Obama on the State of the U.S. Economy
Mar 29, 2013

Pres Obama mentions ASCE 2013 Report Card for America's Infrastructure

9 minutes, 18 seconds 2 views

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“We have upgraded more than 6,000 miles of rail, enough to go coast to coast and back. We have repaired or replaced more than 20,000 bridges. We have helped get tens of thousands of construction workers back on the job. Because of these efforts, when the American Society of Engineers put out their 2013 Report Card on our national and for structure, they gave it the best overall grade in 12 years. That is the good news. The bad news is we went from a D to a D +.”

Courtesy of Flickr/Corey Leopold

ASCE's Infrastructure Vision

WE CAN RAISE THE GRADES
WITH THESE KEY SOLUTIONS

1. INCREASE LEADERSHIP IN
INFRASTRUCTURE RENEWAL
2. PROMOTE SUSTAINABILITY
AND RESILIENCE
3. DEVELOP AND FUND PLANS
TO MAINTAIN AND ENHANCE
AMERICA'S INFRASTRUCTURE

Bold Leadership and a
Compelling Vision

Sustainability and
Resilience

Prioritize, Plan,
and Fund

Courtesy of Flickr/Corey Leopold

What is the “Report Card”?

16 Categories

Aviation
Bridges
Dams
Drinking Water
Energy
Hazardous Waste
Inland Waterways
Levees
Ports
Public Parks and Recreation
Rail
Roads
Schools
Solid Waste
Transit
Wastewater



Evaluation Criteria

- Capacity and Condition
- Funding and Future Need
- Safety
- Resilience

Evaluators

- Practitioners
- Academia
- Policy Experts

Courtesy of Flickr/Carey Leopold

What are the Results?

Aviation	D
Bridges	C+
Dams	D
Drinking Water	D
Energy	D+
Hazardous Waste	D
Inland Waterways	D-
Levees	D-
Ports	C
Public Parks and Recreation	C-
Rail	C+
Roads	D
Schools	D
Solid Waste	B-
Transit	D
Wastewater	D
America's Cumulative G.P.A.	D+

D+

AMERICA'S CUMULATIVE INFRASTRUCTURE G.P.A.

NEGATIVE

- Continued lack maintenance and investment.
- Backlog of projects keeps growing.
- Two categories received a grade of "D-": levees and inland waterways.

Courtesy of Flickr/Corey Leopold

What are the Results?

Aviation	D
Bridges	C+ ↑
Dams	D
Drinking Water	D ↑
Energy	D+
Hazardous Waste	D
Inland Waterways	D-
Levees	D-
Ports	C
Public Parks and Recreation	C-
Rail	C+ ↑
Roads	D ↑
Schools	D
Solid Waste	B- ↑
Transit	D
Wastewater	D ↑
America's Cumulative G.P.A.	D+ ↑

D+

AMERICA'S CUMULATIVE
INFRASTRUCTURE G.P.A.

POSITIVE

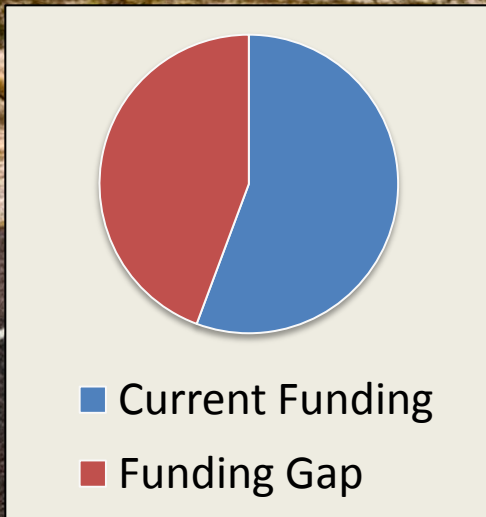
- Improvements in six sectors:
 - Roads
 - Bridges
 - Solid waste
 - Drinking Water
 - Wastewater
 - Railroads
- Results of greater private investment and targeted efforts; ARRA funding.

Courtesy of Flickr/Corey Leopold

Infrastructure Funding Needs by 2020

Funding Needs

- ASCE's "Failure to Act" reports
- Industry Projections



Infrastructure System	DOLLARS IN \$2010 BILLIONS		Estimated Funding	FUNDING GAP
	Total Needs			
Surface Transportation ¹	\$1,723		\$877	\$846
Water/Wastewater Infrastructure ¹	\$126		\$42	\$84
Electricity ¹	\$736		\$629	\$107
Airports ^{1,4}			\$95	\$39
Inland Waterways ¹			\$14	\$16
Dams ³			\$6	\$15
Hazardous Waste ¹			\$10	\$46
Levees ⁵			\$8	\$72
Public Parks & Recreation ⁶			\$134	\$104
Rail ⁷	\$100		\$89	\$11
Schools ⁸	\$391		\$124	\$271
TOTALS	\$3,635		\$2,024	\$1,611
YEARLY INVESTMENT NEEDED	\$454		\$253	\$201

Annual additional investment needed to achieve a "B"

\$3.6 TRILLION



STATE FACTS: ARIZONA

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How is Arizona's infrastructure doing?

WATER AND ENVIRONMENT

Dams

- Arizona's dam safety program has 5.5 Full-Time Employees that each oversee an average of 44.9 state regulated dams.

What Happens Without Investment?

BY INVESTING AN ADDITIONAL
\$157B PER YEAR THROUGH 2020,
WE CAN PREVENT:

\$3.1 Trillion
loss in GDP

\$1.1 Trillion
loss in total trade

\$3,100
per year drop in personal
disposable income per
household

\$2.4 Trillion
drop in consumer
spending

3.5 Million
job losses

Money
Lost per
Family

Jobs
Lost in
2020

Report Card Findings

Roads



2013
GRADE **D**



Highlights

- Roads improved slightly due to pavement condition improvements and significant reductions in highway fatalities.
- Forty-two percent of America's major urban highways remain congested; costing the economy an estimated \$101 billion in wasted time and fuel annually.
- Current investment annually is still short of what is needed.

Report Card Findings

Aviation

2013
GRADE **D**



Highlights

- Commercial flights were about 33 million higher in number in 2011 than in 2000.
- The estimated cost of airport congestion and delays was about 22 billion in 2012.
- Major projects like NextGen promise to modernize our airport system, but they require full funding.

Report Card Findings

Bridges



2013
GRADE C+



Highlights

- In total, one in nine of the nation's bridges are rated as structurally deficient. However, the overall number of structurally deficient bridges continues to trend downward; resulting in a grade improved to C+.
- The number in urban areas, which tend to carry the most traffic, is on the rise.
- Over two hundred million trips are taken daily across deficient bridges in the nation's 102 largest metropolitan regions.

Report Card Findings

Transit

2013
GRADE **D**



Highlights

- Forty-five percent of Americans still lack access to transit.
- Americans increased their ridership 9.1% in the past decade, and that trend is expected to continue.
- Deficient and deteriorating transit systems cost the U.S. economy \$90 billion in 2010.

Report Card Findings



2013
Inland Waterways GRADE D-

Highlights

- Our nation's inland waterways and rivers carry the equivalent of about 51 million truck trips each year.
- There are an average of 52 service interruptions a day throughout the system.
- There is a backlog of major projects to repair and replace aging locks and dredge channels with estimated schedules stretching out to the year 2090 under current funding levels.

Report Card Findings

Ports

2013
GRADE **C**



Highlights

- The evaluation focused on the landside and water connections rather than terminal facilities.
- The U.S. Army Corps of Engineers estimates that more than 95% (by volume) of overseas trade produced or consumed by the United States moves through our ports.
- While port authorities and their private sector partners have planned over \$46 billion in capital improvements from now until 2016, federal funding has declined for dredging and landside connections.

Report Card Findings



Highlights

- In 2012, Amtrak recorded its highest year of ridership with 31.2 million passengers, almost doubling ridership since 2000.
- Both freight and passenger rail have been investing heavily in their tracks, bridges, and tunnels – estimated at about \$75 billion since 2009.
- In 2010 alone, freight railroads renewed the rails on more than 3,100 miles of railroad track, equivalent to going coast to coast.

Report Card Findings

Dams

2013
GRADE **D**



Highlights

- The average age of the 84,000 dams in the country is 52 years old.
- The overall number of high-hazard dams continues to increase, to nearly 14,000 in 2012.
- It is estimated an investment of \$21 billion is needed to repair these aging, critical, high-hazard dams.

Report Card Findings

Levees

2013
GRADE **D⁻**



Highlights

- The nation's estimated 100,000 miles of levees can be found in all 50 states and DC.
- While the federal government has begun an inventory of levee conditions, it is not yet complete.
- Nearly 85 percent of levees are locally owned and operated, making data collection difficult.
- There is no National Levee Safety Program.

Report Card Findings

Wastewater



2013
GRADE **D**

Highlights

- Pipes represent the largest capital need, comprising three quarters of total needs.
- Capital investment needs are estimated to total \$298 billion over the next 20 years.
- It is estimated that aging pipes and inadequate capacity result in the discharge of about 900 billion gallons of untreated sewage per year.

Report Card Findings

2013
Drinking Water GRADE **D**



Highlights

- There are about 240,000 water main breaks per year in the US.
- While the quality of drinking water remains high, the pipes and mains are frequently more than 100 years old and in need of replacement.
- The annual replacement rate of pipes is expected to reach up to 20,000 miles of pipe per year by 2035 – we replace about 5,000 miles of pipe per year now.
- Investment needs will likely double from \$13 billion a year today to almost \$30 billion by 2040.

Report Card Findings



2013
Energy GRADE **D+**

Highlights

- America relies on an aging electrical grid and pipeline distribution systems, some of which originated in the 1880s.
- Investment in power transmission has increased since 2005; ongoing permitting delays, weather events, and limited maintenance contribute to an increasing number of failures and power interruptions.
- While demand for electricity has remained level, the availability of energy will become a greater challenge after 2020 as the population increases.

Advocacy and Outreach Metrics



ENR.com Engineering News-Record

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Issue: 03/25/2013

ASCE Report Card Shows Slight Improvement in Nation's Infrastructure Health

03/20/2013

By Pam Hunter



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U.S. Gets D+ On ASCE Infrastructure Report Card



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MORNING

Pennsylvania's infrastructure at risk with 5500 bridges deficient

03/20/2013 by Amanda Brothman, Executive Producer

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VIDEO: Pennsylvania's infrastructure at risk with 5500 bridges deficient



abc NEWS

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U.S. Infrastructure: Still Crumbly, But Less So



The average age of a bridge in the U.S. is 42 years old. Some bridges like this one in Virginia, are beginning to show their age. (Courtesy Andrew Herrmann, P.E., SECB, F.ASCE)

2013 | REPORT CARD | for *** | america's INFRASTRUCTURE

- 16 graded categories
- 50 state profiles
- 100+ infrastructure success stories
- Infrastructure news
- Category videos



WWW.INFRASTRUCTUREREPORTCARD.ORG