ASCE
AMERICAN SOCIETY OF CIVIL ENGINEERS

2013

REPORT CARD for America's INFRASTRUCTURE

The State of our Nation's Infrastructure: Implications for Freight Transportation

What are the Key Findings?

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

What are the Key Findings?

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+

NEGATIVE

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

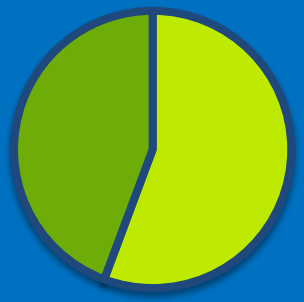
Courtesy of Flickr/Corey Leopold

CUMULATIVE INFRASTRUCTURE NEEDS BY SYSTEM BASED ON CURRENT TRENDS EXTENDED TO 2020

DOLLARS IN $2010 BILLIONS

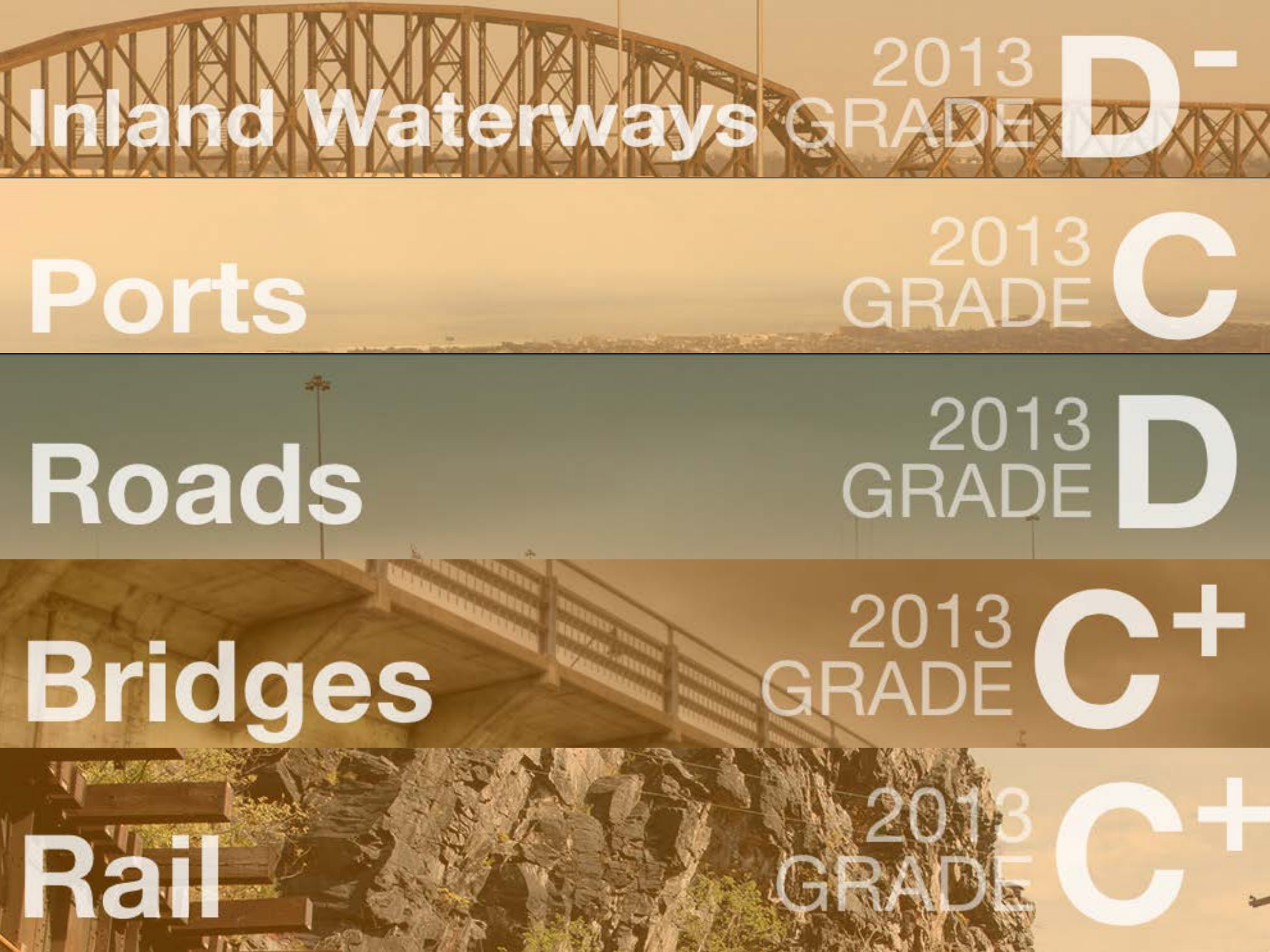
	Total Needs	Estimated Funding	FUNDING GAP
Surface Transportation[1]	$1,723	$877	$846
Water/Wastewater Infrastructure[1]	$126	$42	$84
Electricity[1]	$736	$629	$107
Airports[1,2]	$134	$95	$39
Inland Waterways & Marine Ports[1]	$30	$14	$16
Dams[3]	$21	$6	$15
Hazardous & Solid Waste[4]	$56	$10	$46
Levees[5]	$80	$8	$72
Public Parks & Recreation[6]	$238	$134	$104
Rail[7]	$100	$89	$11
Schools[8]	$391	$120	$271
TOTALS	$3,635	$2,024	$1,611
YEARLY INVESTMENT NEEDED	$454	$253	$201

$3.6 TRILLION

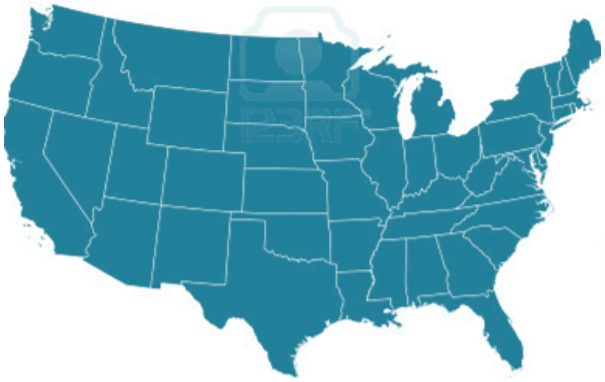


Current Funding

Funding Gap


Inland Waterways
2013 GRADE D-
Ports
2013 GRADE C
Roads
2013 GRADE D
Bridges
2013 GRADE C+
Rail
2013 GRADE C+

With Investment, We Prevent:



$3,100

per year drop in personal disposable income per household

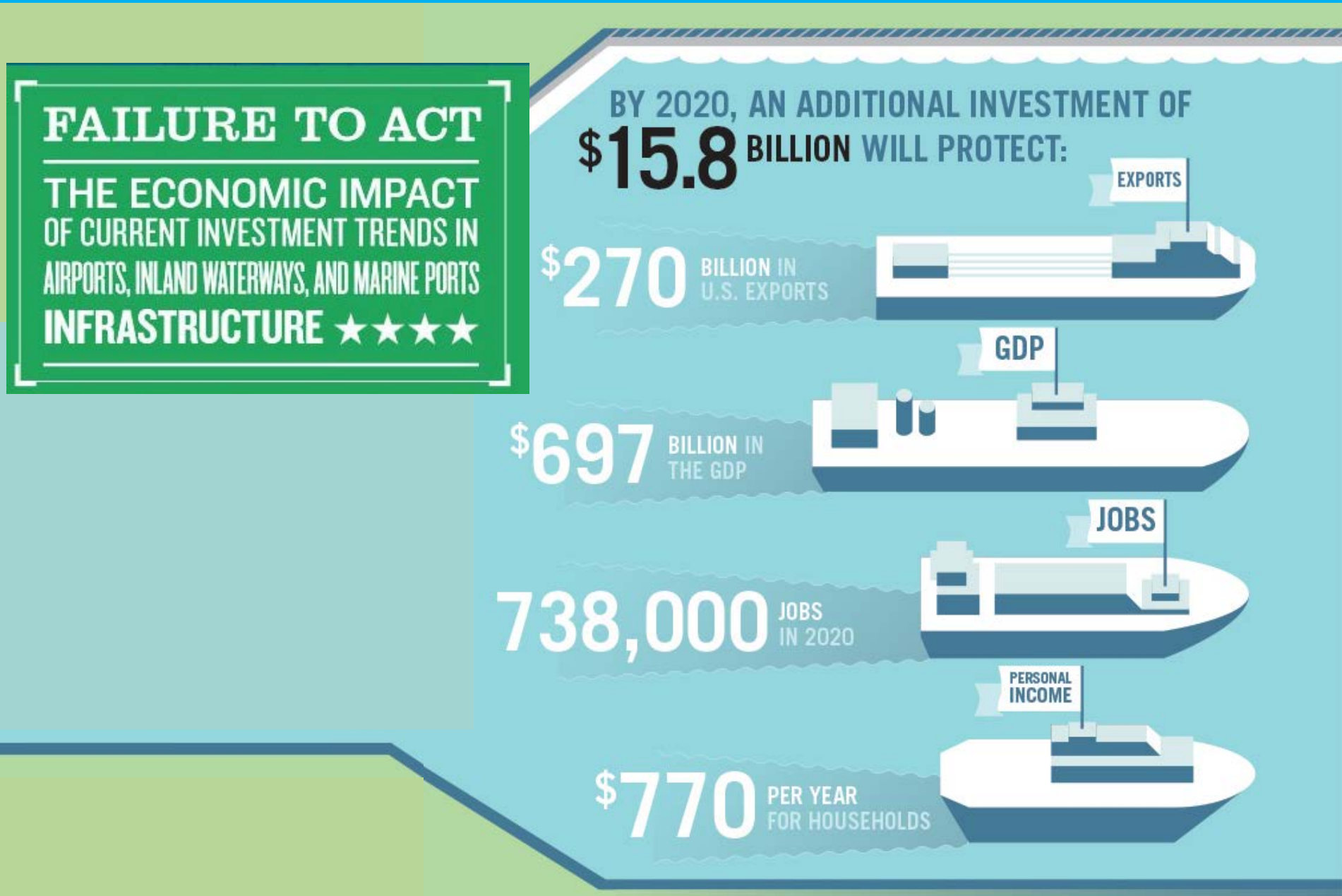
$3.1 Trillion

loss in GDP

3.5 Million

job losses in 2020

Failure to Act Has Real Costs



Cost of Deficient Transportation Systems

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.

Making Infrastructure a Visible Priority

2013 REPORT CARD for America's INFRASTRUCTURE

Questions?

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