



ASCE'S VIEW ON INFRASTRUCTURE SPENDING ASSET LEADERSHIP NETWORK

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2021 Infrastructure Grades



AVIATION

↑ D+



PORTS

↑ B-



BRIDGES

↓ C



RAIL

B



DAMS

D



ROADS

D



DRINKING WATER

↑ C-



SCHOOLS

D+



ENERGY

↑ C-



SOLID WASTE

C+



HAZARDOUS WASTE

D+



STORM WATER

D



INLAND WATERWAYS

↑ D+



TRANSIT

D-



LEVEES

D



WASTEWATER

D+



PARKS AND RECREATION

D+

America's
Cumulative
Infrastructure
Grade



A EXCEPTIONAL

B GOOD

C MEDIOCRE

D POOR

F FAILING



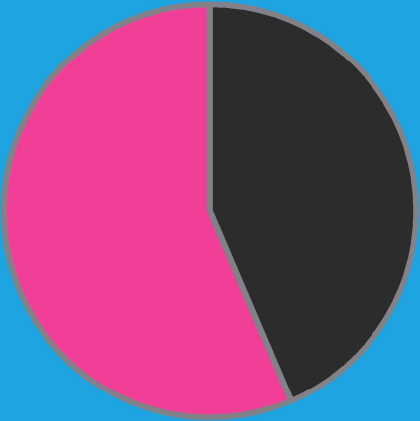
Trends

1. Maintenance backlogs continue to be an issue, but asset management helps prioritize limited funding.
2. Federal investments have moved the needle, and many state and local governments continue to prioritize infrastructure investments to help us keep pace with our growing needs.
3. There are still infrastructure sectors where data is scarce or unreliable.

Category	Total Needs	Funded	Funding Gap
SURFACE TRANSPORTATION¹	\$2,834	\$1,619	\$1,215
WATER/ WASTEWATER/ STORMWATER ²	\$1,045	\$611	\$434
ELECTRICITY ²	\$637	\$440	\$197
AIRPORTS ²	\$237	\$126	\$111
INLAND WATERWAYS & MARINE PORTS ²	\$42	\$17	\$25
DAMS ³	\$93.6	\$12.5	\$81
HAZARDOUS & SOLID WASTE ⁴	\$21	\$14.4	\$7
LEVEES ⁵	\$80	\$10.1	\$70
PUBLIC PARKS & RECREATION ⁶	\$77.5	\$9.5	\$68
SCHOOLS ⁷	\$870	\$490	\$380
TOTALS	\$5,937	\$3,350	\$2,588

\$2.59




Trillion
needed



CURRENT
FUNDING

FUNDING GAP

FAILURE TO ACT

   Economic Impacts of Status Quo
Investment Across Infrastructure Systems

Our report finds that the over the next 20 years, **the average American household will spend \$3,300 a year** due to infrastructure deficiencies. This lost disposable income comes from the disruptions of inadequate infrastructure **like sitting in traffic, hitting a pothole, power outages, and water main breaks.**

The average **AMERICAN HOUSEHOLD LOSES \$63 A WEEK** due to **CHRONIC UNDERINVESTMENT** in infrastructure. What could you buy with \$63 a week, or \$275 a month?



TAKEOUT DINNER
FOR A FAMILY OF
FOUR EACH WEEK.



STARTING
A COLLEGE
FUND.



DOING A
HOME RENOVATION
PROJECT.

DRINKING WATER



Infrastructure Investment & Jobs Act Overview



- \$1.2 trillion in total funding over 10 years
- Invests in all 17 categories of infrastructure assessed in the Report Card
- The largest-ever investment in resilient infrastructure (\$50 billion+)
- ROI of \$1.4 trillion of economic activity over 8 years

ASSET MANAGEMENT IN THE IIJA: TRANSIT

- \$4.75 billion for transit state of good repair grants
- Eligible uses include creating Transit Asset Management Plans
- 40% of public transit buses and 23% of rail transit assets are in marginal or poor condition



ASSET MANAGEMENT IN THE IIJA: RAIL

- FY20-24 Northeast Commission Report identified \$32b in needed funding
- IIJA requires Amtrak and each state and public transportation entity along the NEC develop an asset management plan
- Plan will inform Northeast Corridor Commission capital investment plan





ASSET MANAGEMENT IN THE IIJA: WATER

- \$50 million annually to help small public water systems develop asset management plans
- Eligible grant applicants include local governments, tribes, nonprofit entities providing technical assistance, and other government entities
- 10% match that may be waived in certain circumstances

ASSET MANAGEMENT IN THE IIJA: ROADS

- IIJA requires consideration of extreme weather and resilience as part of the lifecycle cost and risk management analysis within a state asset management plan
- Federal-aid funds in IIJA support performance target goals in each state's asset management plan



ASCE RECOMMENDATIONS ON ASSET MANAGEMENT



01

Start small with a proof of concept and gradually move on to other asset classes.

02

Designate a central office to collect data.

03

Leverage expertise, crowdsourcing, and industry partnerships.

04

A handful of specialized staff with infrastructure knowledge, financial background, IT and data collection capabilities are all that's needed.

05

Consider cybersecurity needs.

06

Work with policymakers to have a long-term view of the investment gap.

Thank You

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2021 REPORT CARD
FOR AMERICA'S INFRASTRUCTURE
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