

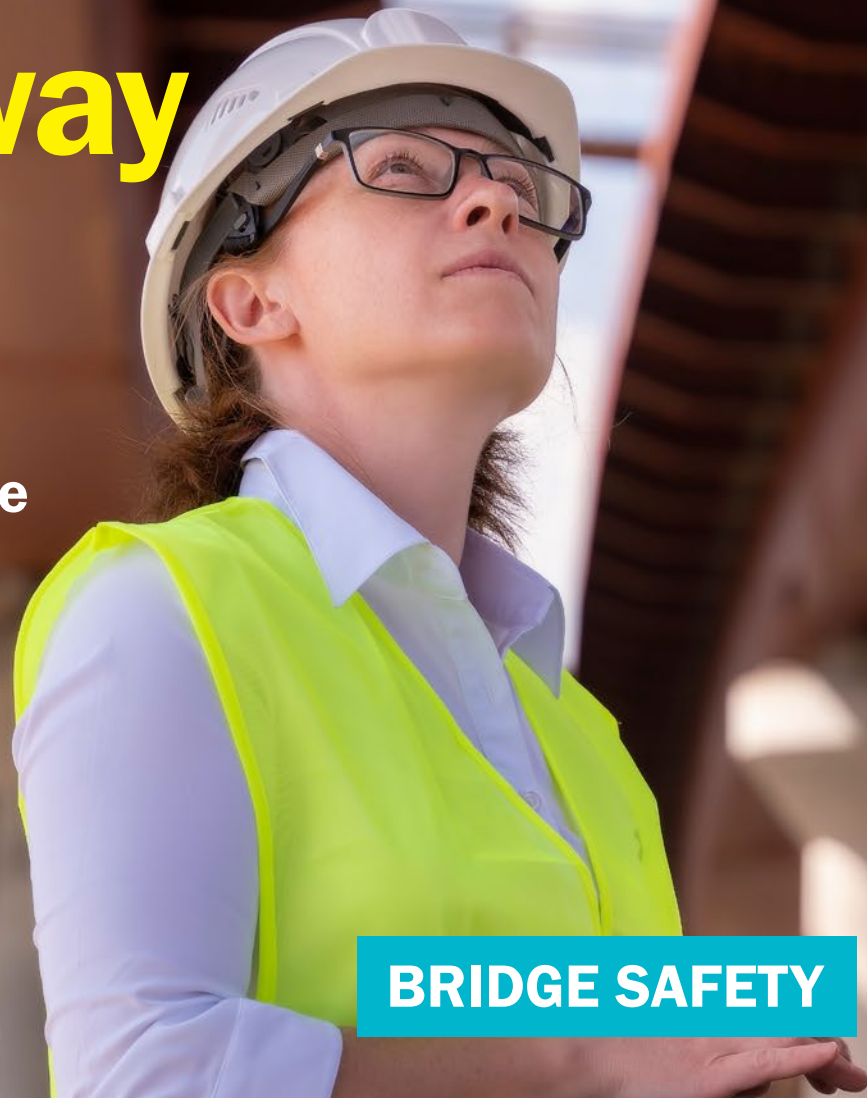
# Bridge & Highway Investment

How New Infrastructure Spending  
Impacts Safety and America's Workforce



SEPARATING PEOPLE FROM HAZARDS

**BRIDGE SAFETY**



# Increased Infrastructure Spending Aims to Improve Highways & Bridges

The Infrastructure Investment & Jobs Act represents the largest investment in transportation infrastructure in U.S. history, and includes funding to repair the country's aging roads and bridges, eliminate rail repair backlogs, expand utility networks and electric car charging stations, and upgrade water systems.

The White House calls on states to create "freight movement playbooks" which can help prioritize which highways see the most freight volume and need infrastructure improvements or repairs. This program would work in tandem with monies set aside for bridge and road projects.

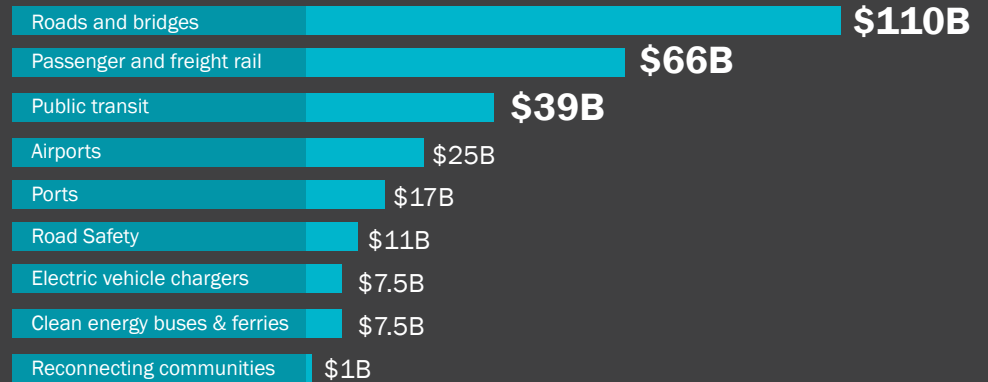
## Bridges and Roads

The infrastructure bill reserves \$110 billion for bridge and road improvements. The plans call for a focus on how to build out infrastructure for drivers, pedestrians and cyclists with climate change, equity and safety in mind.

There is also tens of billions of dollars in grant monies that the state can apply for to help repair and replace significant highway and bridge projects.

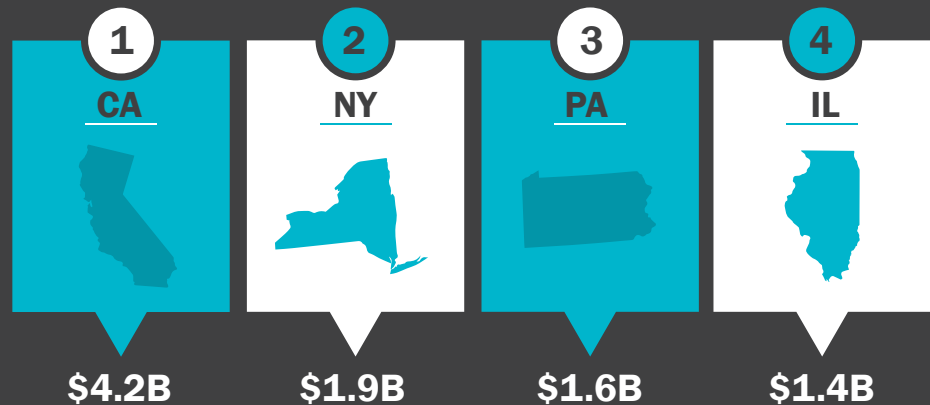
## Transportation Related Infrastructure Spending

New Infrastructure Legislation will be the largest investment in transportation infrastructure in U.S. history, and included funding to repair the country's aging roads and bridges.



## Estimated Bridge Allocated Spending by State

California, New York, Pennsylvania, and Illinois will see the highest estimated bridge allocations.





# Bridge Repair & Replacement

The Infrastructure Investment & Jobs Act includes a total of \$40 billion of new funding for bridge repair, replacement and rehabilitation, which is the single largest dedicated bridge investment since the construction of the interstate highway system.

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## The final bill includes provisions that will:

- 1 Provide necessary funding that invests in projects that improve the condition of bridges.
- 2 Requires all projects funded by grants to use American-made steel and iron.
- 3 Rehabilitates or replaces bridges of all sizes.
- 4 Creates an evaluation process to ensure a fair and efficient allocation of funding.
- 5 Provides quick grants for small projects, and allows projects to be bundled into a single application.
- 6 Allows entities of all sizes and scope to apply for funding.

# Increased Bridge Funding Renews Calls for Worker Safety

Fall Protection is Vital to the Safety of The American Workforce



## Repairing and Rebuilding Bridges and Highways Require a Renewed Focus on Worker Safety

### Government Funded Bridge Projects Require Fall Protection, and Safety Measures to Protect Our Workforce

For the third year in a row, fall protection was #1 on the Occupational Safety and Health Administration (OSHA) Top 10 list of the most cited violations, with 8,241 fall protection citations issued in 2014, according to OSHA. Now, more than ever, all bridge contractors must learn how to implement comprehensive fall protection programs. The new infrastructure bill will invest \$110 billion of new funds for roads, bridges, and major projects, and will in turn increase the frequency of construction, and maintenance workers on America's bridges.

### Bridge contractors can increase fall protection by taking 4 key steps:

(American Road & Transportation Builders Association)

**Plan:** A well-designed fall protection plan written by a qualified person



**Provide:** Employers must provide the correct fall protection equipment for the job.

**Train:** Employees must be trained by a competent, qualified person.

**Enforce/Evaluate:** Enforcement mechanisms can include discipline within the normal chain of command, for example.



### Restraint Systems

Engineered to prevent a fall from occurring. The user cannot fall because they are actively restrained from reaching edges.



### Personal Fall Arrest Systems

Designed to catch a worker who has fallen. It must hold the fallen worker safely until rescue.

# Bridge Worker Dangers & Risks

Falls are the leading cause of death in construction. Falls took the lives of 345 Construction workers in 2017 alone. The majority of these fatal falls (82%) were falls to a lower level. Of the lower level falls, about 29% were from 10 or less while 71% were from heights of 11 feet and higher (with 37% falling between 11-29 feet and 16% falling 30 feet or more).

The following fatalities illustrate the risks for workers on bridges through the United States

**2013**

A 45-year old bridge worker fell 70 feet to his death from the Mount Hope Bridge in Connecticut.

**2014**

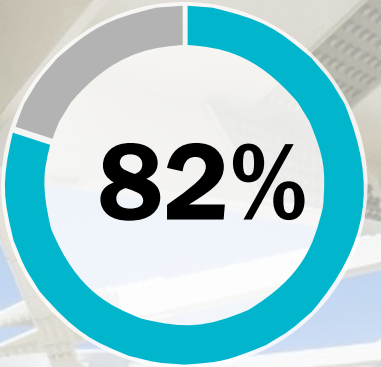
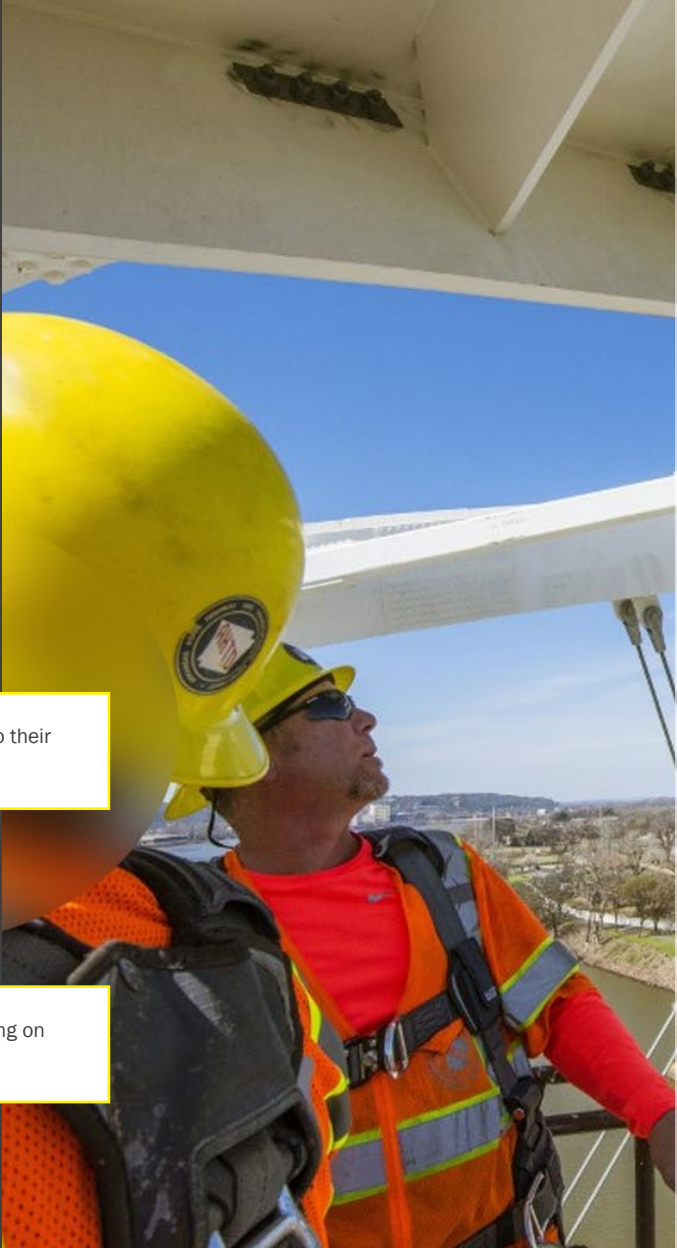
Two bridge workers, ages 53 and 63, fell 90 feet to their deaths from a bridge near Montgomery, Alabama

**2015**

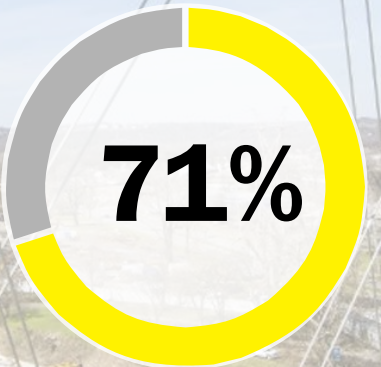
A 34-year old bridge worker fell 60 feet to his death from a bridge across Lake Washington near Seattle.

**2021**

A construction worker fell to his death while painting on the side of the Manhattan Bridge.



82% of construction fall related fatalities fell to a lower level



71% of lower level falls were from heights of 11 feet and higher

# Prepare & Plan Ahead With Fall Protection Systems

## KeeLine Horizontal Lifeline Systems for Bridge Construction, Inspection, and Maintenance Allows Workers to Move Safely

### KeeLine® Benefits

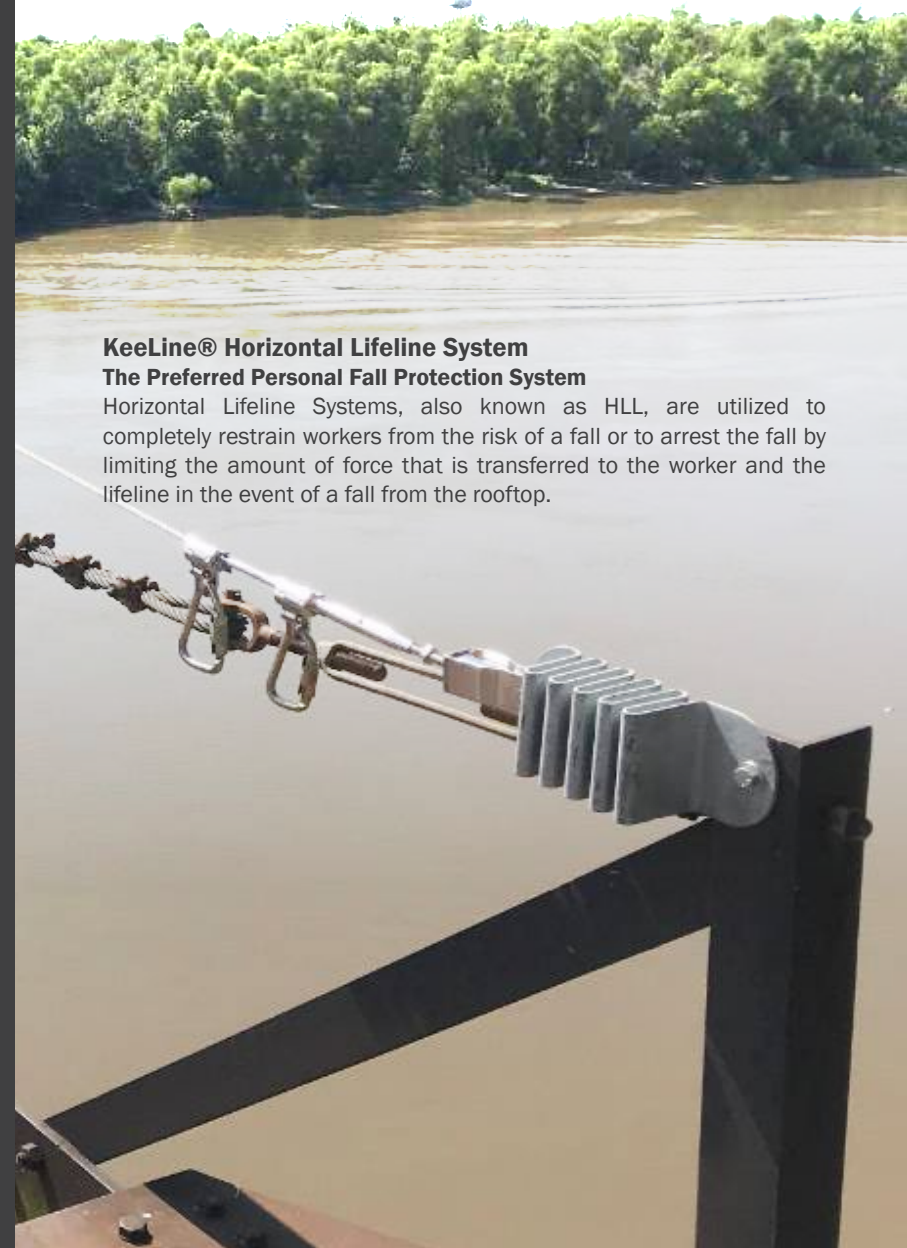
- Because of its open framework, you can clearly see evidence of defects or corrosion.
- Stainless steel system designed to be tough, dependable, and reliable.
- Engineered for multiple surface types. Ideal for bridge maintenance and inspections.
- Simple design allows for easy installation and usage.

### Establish an OSHA Compliant System

- Installation must be completed by a certified KeeLine installer
- All KeeLine users must be properly trained to meet OSHA compliance
- In-depth KeeLine training is available through Kee Safety
- Requires yearly inspection for OSHA compliance

### KeeLine® Horizontal Lifeline System The Preferred Personal Fall Protection System

Horizontal Lifeline Systems, also known as HLL, are utilized to completely restrain workers from the risk of a fall or to arrest the fall by limiting the amount of force that is transferred to the worker and the lifeline in the event of a fall from the rooftop.





SEPARATING PEOPLE FROM HAZARDS

## Safety At The Highest Level

Kee Safety is a global manufacturer of safety and fall protection systems fully committed to Separating People from Hazards.

Established in 1934, Kee Safety has a proud history of developing strong partner relationships, world-class customer service, and leading the industry in new product development. You already know Kee Safety as your reliable material supplier - please also consider Kee Safety as your industry partner, fully committed to the success of your organization.

