NORFOLK SOUTHERN

## RAILROAD

# BRIDGES

More than Meets the Eye

There's more to Norfolk Southern's 9,840 railroad bridges than meets the eye. From concrete structures spanning wide rivers to timber bridges crossing creeks, NS bridges cover 275 track miles and come in all styles, sizes, and construction materials. The 670 NS employees who work in bridge inspection, maintenance, and replacement ensure that these bridges safely connect trains to our customers and the communities we serve.

## **BRIDGE BASICS**



## **REMARKABLY SAFE**

and no significant property loss caused by structural deficiency on an NS bridge in modern times

Jero Lasualties









## MAINTENANCE AND INSPECTION

Norfolk Southern's bridge management program is extensive and effective. All bridges and structures are inspected regularly by certified NS bridge inspectors.

**NS Bridge Inspection Practices** 

#### **HANDS-ON INSPECTIONS:**



#### **WALKING INSPECTIONS:**



#### **UNDERWATER INSPECTIONS:**



NS inspectors file detailed reports using

PHOTOGRAPHS, SKETCHES, AND VIDEOS

to describe bridge conditions.

**NS' inspection supervisors & bridge engineers** 

**REVIEW INSPECTION REPORTS** 

and develop a plan for maintenance or repair.

Bridges are inspected MONTHLY or ANNUALLY based on individual conditions.



The FRA routinely examines

NS BRIDGES & INSPECTION REPORTS
to ensure safety.



FEDERAL RAILROAD ADMINISTRATION

Bridge Safety Standards, often exceeding requirements.

"We truly care about the safety of each and every bridge on the Norfolk Southern system."

–Kevin Hauschildt

NS Chief Engineer Bridges and Structures



## STRENGTHENING OUR TRANSPORTATION NETWORK

Norfolk Southern understands the importance of building and maintaining a safe, reliable, and efficient freight rail network. Tracing our roots to the 1830s, NS monitors and improves our infrastructure to support the nation's growing transportation needs.

### THE KENOVA OHIO RIVER BRIDGE

Like most NS bridges, the Kenova Ohio River Bridge has undergone major upgrades over the past century and remains functionally and structurally sound today. The bridge is an integral link in the national railway system.



Its excellent condition is a testament to the precision and commitment of the NS workforce - past and present - to keep these structures safe and serviceable.

\*A bridge's age and appearance bear little or no relevance to its safety and stability.

# TRAINING AND QUALIFICATIONS



responsible for maintaining the highest standards of bridge safety.



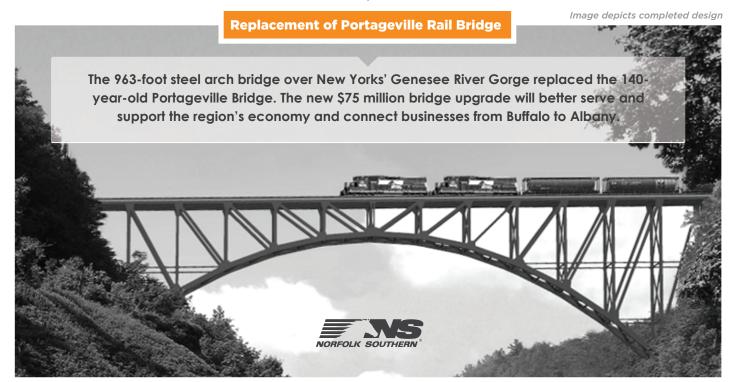


## INFRASTRUCTURE INVESTMENTS



## **NS FUNDS MOST INFRASTRUCTURE** & IMPROVEMENT PROJECTS

without taxpayer dollars.



Norfolk Southern Corporation is one of the nation's premier transportation companies. Its Norfolk Southern Railway Company subsidiary operates approximately 20,000 route miles in 22 states and the District of Columbia, serves every major container port in the eastern United States, and provides efficient connections to other rail carriers. Norfolk Southern operates the most extensive intermodal network in the East and is a major transporter of coal, automotive, and industrial products.