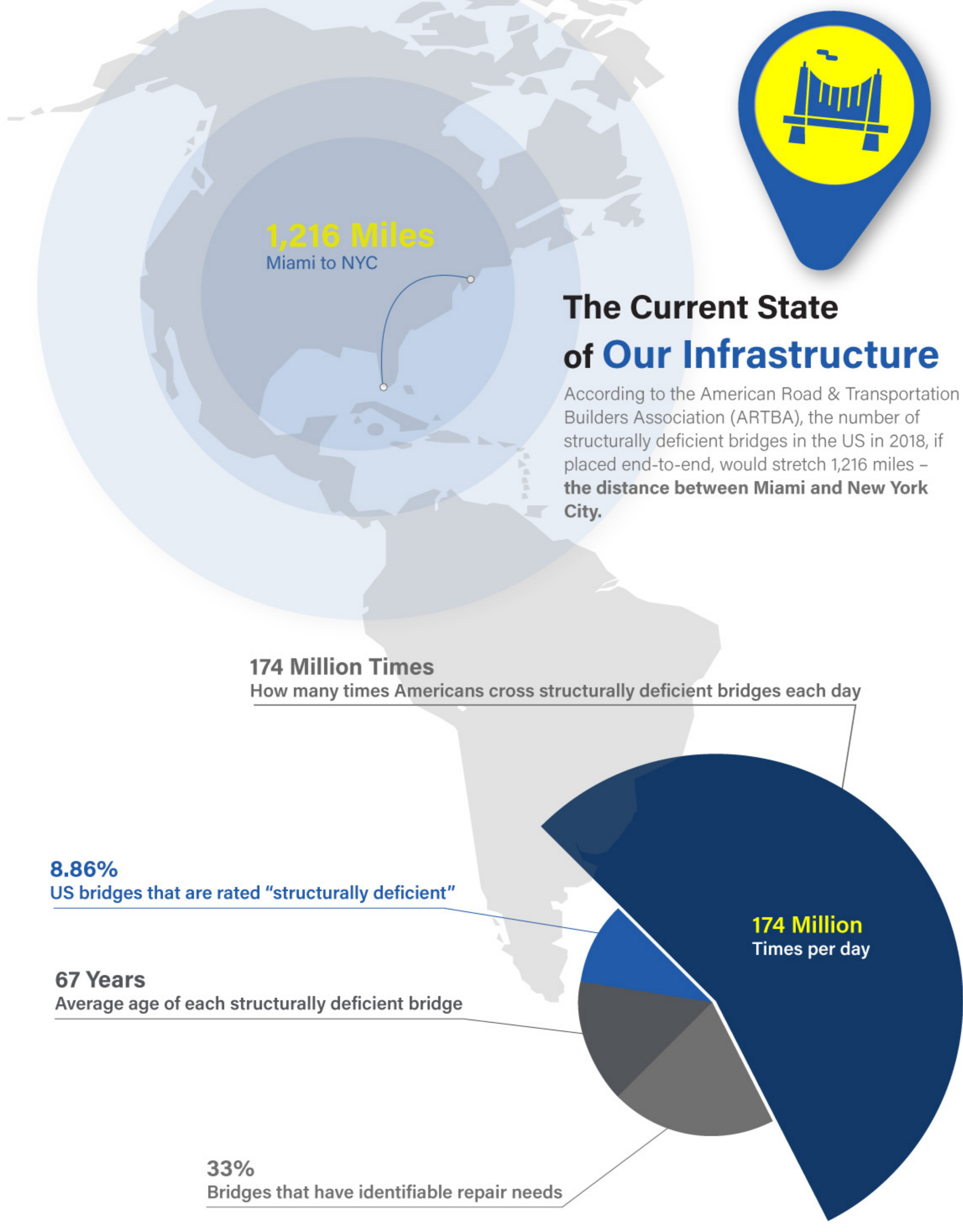


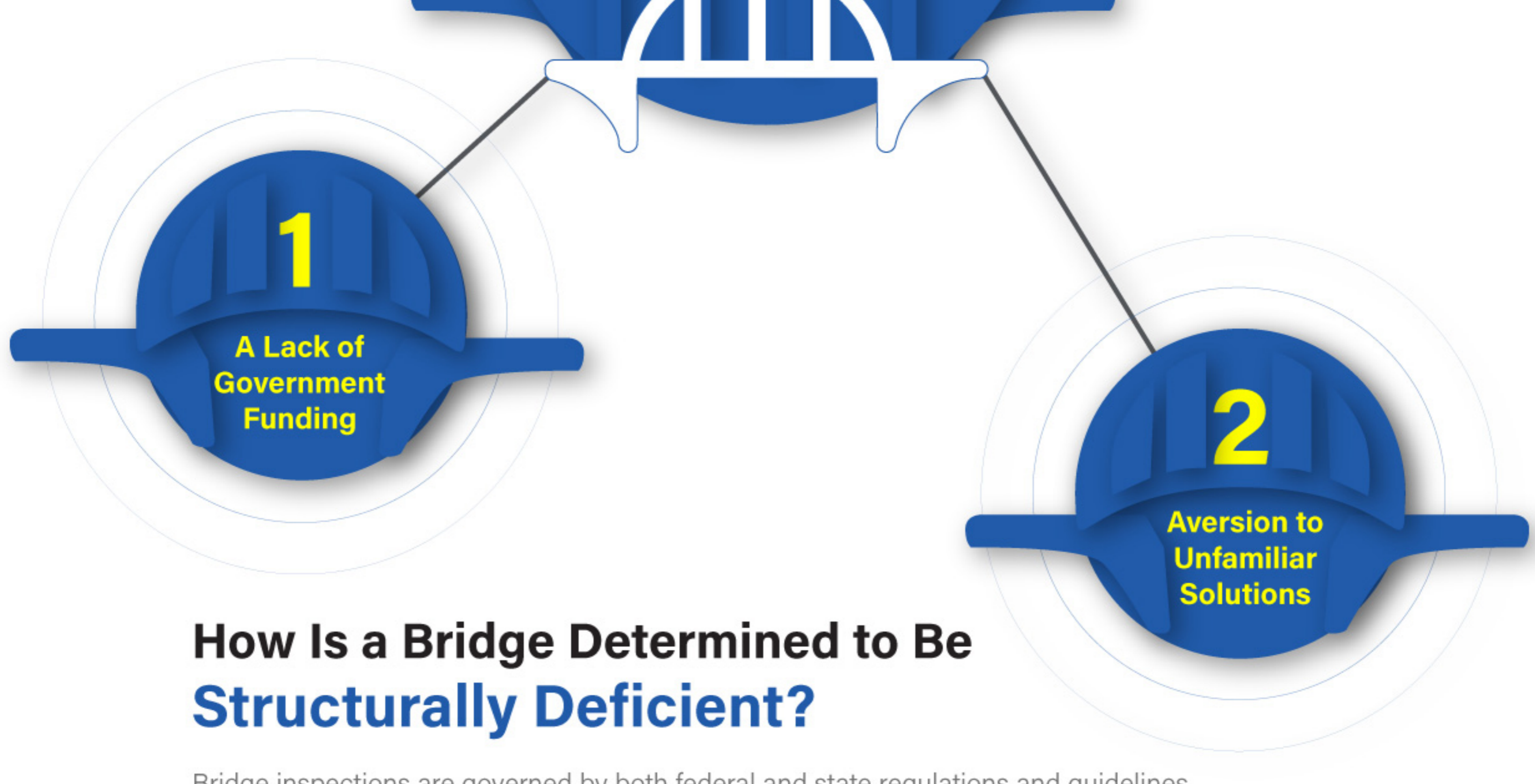
# Structurally Deficient Bridges: 101

## What is a "Structurally Deficient" Bridge?

Technically, a "structurally deficient" bridge is still operational. The term does not necessarily imply that the bridge is unsafe or that it is likely to fail or collapse. However, there are elements of structurally deficient bridges that need to be repaired or monitored closely for defects.



## 2 Two Major Challenges that the US Bridge Infrastructure Faces:



## How Is a Bridge Determined to Be Structurally Deficient?

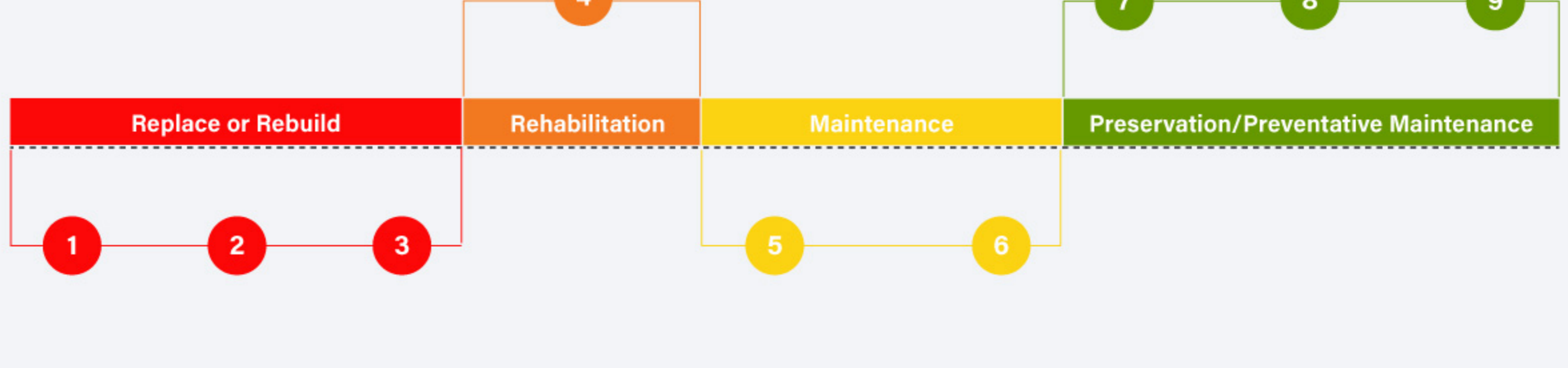
Bridge inspections are governed by both federal and state regulations and guidelines. Although these guidelines may vary state-by-state, federal guidelines and inspection regulations are covered by the National Bridge Inventory Standards (NBIS).

According to the NBIS, the standards establish guidelines for the following:

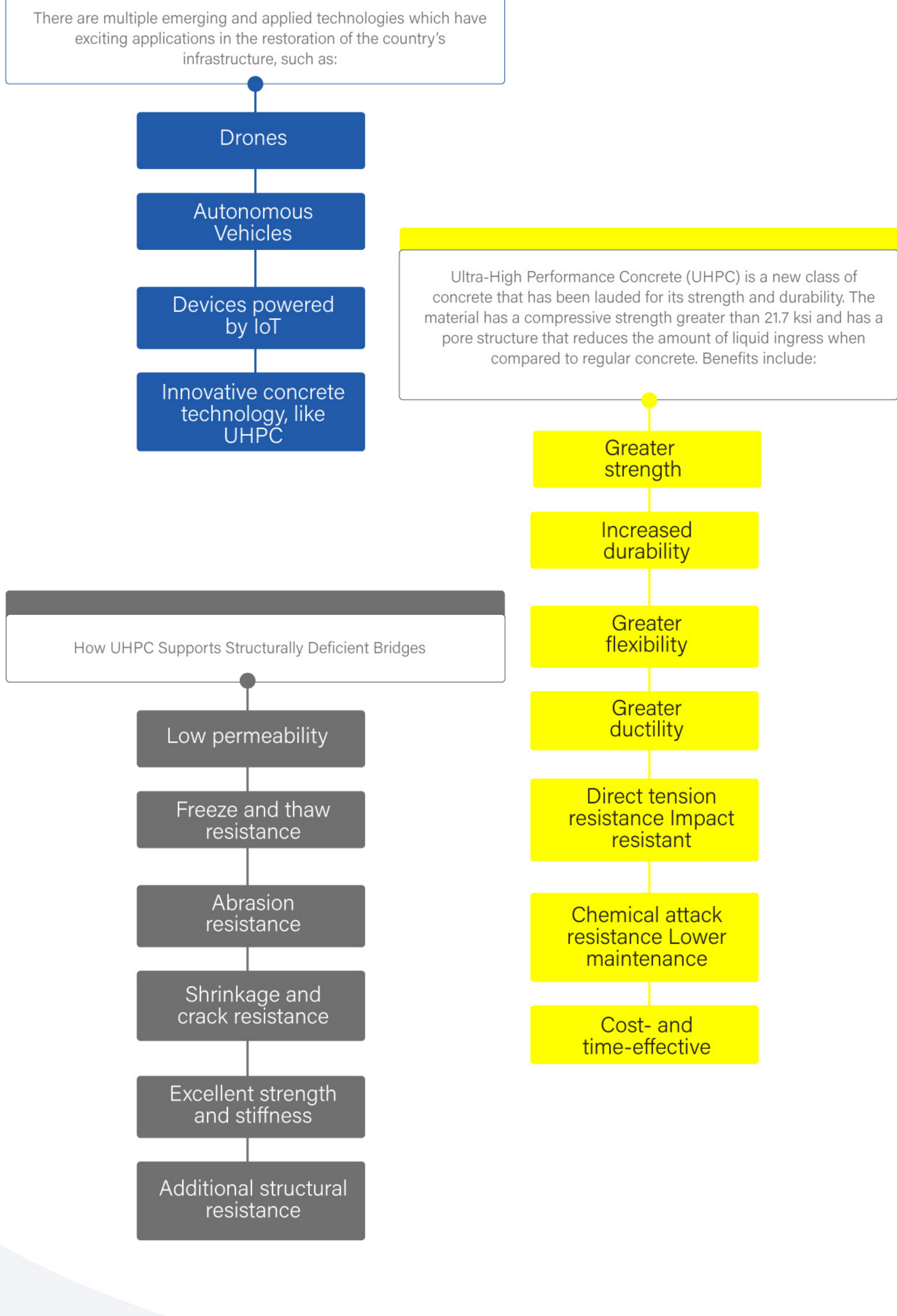
- A **time-frame** for installing load posting signs at bridges
- Underwater inspection** of bridge substructures using imaging technology
- Risk-based interval** determination for routine bridge inspections
- Guidance plans** for corrective action
- Inspection of bridges and tunnels** on transit highways
- Bridge load ratings** for the national bridge inventory
- Funding for bridge inspection equipment** and access features
- Revisions** to the NBIS

## DOTs typically use a numbered and color-coded rating system of 0 to 9 to rate bridge integrity.

Using this system, bridges fall into four separate categories depending on the severity of their condition:



## The Role of UHPC in Restoring American Infrastructure



## UHPC Solutions

Your Partner in Bridge Rehabilitation

While some of the infrastructure crisis must be solved at the policy and budgetary level, innovative solutions like UHPC can play a significant role in addressing the nation's deteriorating bridge infrastructure.

To learn more about innovative, sustainable, and cost-effective solutions like UHPC

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