FASSTBRIDGE

FASSTbridge - Fast and Effective - Solution for Steel Bridges Life - Time Extension

**Funding:** European  
**Duration:** Nov 2015 - Dec 2020  
**Status:** Ongoing

**Objectives:**

FASSTbridge aims at drastically reducing the economic and environmental costs of ownership of the steel bridges stock in Europe and the USA by providing a reliable preventive, cost-effective and sustainable solution for steel bridges life-time extension.

The FASSTbridge solution will stand on two pillars:

1. FASSTbridge methodology: an easy-to-apply methodology (fatigue life-time assessment, design, execution and maintenance
2. guideline) to prevent the evolution of irreversible fatigue derived problems at a pre-failure scenario
3. FASSTbridge strengthening system: a reliable, cost-effective CFRP strengthening system to preventively extend life-time of steel bridges.

**Expected Outcomes:**

- Easy-to-apply methodology to assess fatigue remaining life
- NDT and monitoring for fatigue assessment
- Adhesive with advanced long-term mechanical and durability properties
- CFRP strengthening methodology and system for fatigue pre-failure scenario
- Integrated assessment-strengthening-monitoring solution

**Parent Programmes:**

ERA-NET - European Research Area Net

**Funding type:** Public (EU)

**Partners:**

TECNALIA Spain; DRAGADOS MADRID Spain; French institute of science and technology for transport, development and networks (IFSTTAR) France; University of Stuttgart Germany; LAP Germany; COLLANTI Italy; ALTA VISTA USA; Dirección General de Carreteras e Infraestructuras – VIA M Spain;

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**STRIA Roadmaps:** Vehicle design and manufacturing, Infrastructure
Transport mode: Road transport
Transport sectors: Passenger transport, Freight transport
Transport policies: Deployment planning/Financing/Market roll-out, Environmental/Emissions aspects, Societal/Economic issues
Geo-spatial type: Other