

Use Case

Prestressed concrete bridge – Haute-Savoie

Following an inspection of a prestressed concrete bridge located in Haute-Savoie, a crack considered to be of concern was identified. As there was no previous inspection to determine whether the crack was evolving, an instrumentation system was deployed to characterize its evolution and to define the most appropriate repair solutions.

Kimsé carried out this operation with the support of Feelbat, opting for a long-term monitoring solution.



The mission, scheduled to last two years, requires installation on the underside of the structure, which involves significant maintenance constraints. To limit the costs associated with access (hanging walkways, specific road signage), the choice was made to use a DELTA L+ 100 sensor with a remote reading system.

This solution enables continuous monitoring of the crack opening without the need for regular on-site intervention. The main objective of this instrumentation is to collect the data necessary to define the most appropriate repair works. If the results indicate significant evolution, major reinforcement operations could be considered, with a substantial financial impact for the project owner.



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This type of monitoring provides tangible elements to support the decision of whether or not to undertake large-scale works. The challenge is twofold: ensuring user safety while optimizing repair costs through a targeted instrumentation strategy.

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Meril Archinard, Managing Director Kimsé