

REFERENT PROJECT

Analysis of the risk of scouring of the bridges of the ASF network



PURPOSE OF THE INITIATIVE

Assessment and risk analysis of the scouring process on more than 250 structures of the Vinci-ASF Vinci-ASF motorway network.

(The phenomenon of scouring is expressed by the digging under the action of the current, of the materials of the river bed, especially during flood periods, and more particularly the river supports of the bridges, because of the local increase of the flow speeds).

CLIENT/PARTNER NEEDS

Of the more than 4,000 engineering structures on the Vinci-ASF motorway network, 252 cross rivers and are therefore potentially concerned by the scouring problem, in particular the structures in the South of France (where the flooding regime of rivers is strongly influenced by the Mediterranean episodes).

Vinci-ASF's wish to conduct a specific risk analysis approach for "scouring" to establish a first sorting among these structures to :

- Identify those most at risk
- Define an appropriate management strategy integrating, if necessary, the foreseeable effects of climate change (specific monitoring for early detection of scouring phenomena, carrying out detailed diagnoses, programming and of maintenance and/or reinforcement of foundations...).

CEREMA'S SOLUTION

- Approach based on the methodology developed in the guide "Risk analysis of bridges in scourable sites published in 2019.

CONTACT

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RELATED ACTIVITIES

- Management of engineering structure assets

