The project "New system for the detection of scour in the early period and its continuous monitoring in real time in bridge structures (TO-BM)", led TECSA EMPRESA CONSTRUCTORA. S.A. (ACS Group), develops a key tool to offer a SaaS service to the managers of bridge structures, which through continuous and real-time monitoring of the dynamic behavior of the stack-soil set, can determine the existence of the phenomenon of scour, its level and the degree of affectation to structural stability, thus offering a Predictive Maintenance Plan particularized to the evolution of the phenomenon in each instrumented bridge. This development counts on the collaboration of UNIVERSIDAD POLITECNICA DE VALENCIA. The project is co-funded by the Spanish Ministry of Science, Innovation and Universities (Ministerio de Ciencia, Innovación y Universidades) within the program Collaboration-Challenges 2017, part of the National Research, Development and Innovation oriented to Societal Challenges, within the National Scientific and Technical Research and Innovation Plan 2013-2016, and the European Union through the FEDER Funds (Regional development European funds).