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The project "SMART HIGH PERFORMANCE ROBOTIC SYSTEM FOR RAILWAY CONSTRUCTION AND MAINTENANCE OPTIMIZATION, BASED ON ARTIFICIAL VISION AND SENSOR FUSION -AVATTRACK-", file number RTC- 2014-2313-4, led by TECSA EMPRESA CONSTRUCTORA S.A. (ACS Group), intends to achieve an important improvement in measuring systems for railway construction and maintenance processes. This development counts on the collaboration of Carlos III University. The project is co-funded by the Spanish Ministry of Economy and Competitiveness (Ministerio de Economía y Competitividad (MINECO) within the program Collaboration-Challenges 2014, part of the National Research, Development and Innovation oriented to Societal Challenges, within the National Scientific and Technical Research and Innovation Plan 2013-2016.