



Next Generation Road Pavement Monitoring

PROJECT BACKGROUND

Despite huge public spending effort for road pavement maintenance, the European road network of 5.5M km is not in an acceptable condition. Current pavement maintenance strategies are mainly based on corrective maintenance which is an inefficient and costly approach, with negative impact on pavement service life and road safety, and also on the environment. In order to be able to implement a maintenance strategy based on preventive operations of much lower cost carried out at the optimal moment (predictive maintenance), it is necessary to have continuous and accurate information of the pavement condition, something that is not possible at present due to the high cost of current inspection services.

PAV-DT is a disruptive technology that can be installed in any customer vehicle (e.g. public road administrators and concessionaires or construction companies on performance-based maintenance contracts) in order to convert these vehicles into a very low-cost real-time pavement inspection equipment through its ordinary circulation. Additionally, thanks to our advanced algorithm and a cloud-based platform, customers will be able to access the latest available information on the pavement condition at any moment and receive information on which maintenance actions are really required, and exactly where they should be applied and when is the best moment to deploy a truly cost-effective maintenance strategy.

PROJECT OBJECTIVES

-  Design and development of a cloud-based PAV-DT software
-  Design secure servers and master databases
-  Develop a more robust data acquisition system
-  Implement several commercial versions of PAV-DT on several vehicles
-  Adjust the business plan dynamically



PROJECT FACTS

Duration

05/2019 to 04/2021

Programme

Horizon 2020
EIC-FTI-2018-2020
Innovation Action

Project No.

853899

Coordinator

BECSA S.A.U.

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www.pav-dt.eu



office@pav-dt.eu



@PAV_DT



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