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Enhanced Map System

PROJECT BACKGROUND

The eMAPs consortium develops a disruptive Localisation Based Service (LBS) in its Galileo-based project, to tackle the foreseen and expected smart city and autonomous car challenges.

The hardware and software developments of eMAPs aim at providing future solutions such as smart navigation for connected car users, real time fleet management for city public transport and infrastructure maintenance monitoring for city planners. By developing an innovative, low-cost, compact, high performance premium receiver, eMAPs will provide a targeted 30cm vehicle's position accuracy and high definition urban maps which will benefit to all smart cities' stakeholder groups: the travellers, the public transport operators and the urban authorities.

PROJECT OBJECTIVES



PROVIDE future solutions such as smart navigation for connected car users, fleet management for city public transport as well as maintenance monitoring for city planners



DEVELOP a low-cost, cloud-based multi-sensor premium mass market platform which will hybridize data generated by a multi-frequency multi-constellation GNSS receiver, an IMU and cameras



TEST the developed prototype, using test vehicles equipped with a reference trajectory system to obtain exact positioning with cm-level accuracy



ENHANCE scalability, near real time map updates and higher accuracy to new users, which cannot be met by the current business model



PROJECT FACTS

DURATION

08/2019 to 07/2021

PROGRAMME

European GNSS Agency (GSA)

Reference

GSA/GRANT/08/2017/eMAPs

COORDINATOR

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