

PROJECT: Smart digital solutions for multimodal, accessible, resilient, user-centric urban infrastructure

SCIENTIFIC DIRECTOR: L. Mitropoulos

DURATION (MONTHS): 36 months

DEPARTMENT: Department of Infrastructure and Rural Development

FINANCIER: HORIZON 2020

DESCRIPTION: Innovative digital tools and solutions have the potential to significantly upgrade transport infrastructure, enhancing performance, nsafety, and inclusiveness while reducing emissions. Digital solutions are crucial for minimizing traffic disruptions, boosting transport efficiency, and decreasing reliance on fossil fuels. The SMARTIN project aims to revolutionize the management of transport infrastructure through advanced digitalization and intelligent, data-driven solutions. SMARTIN is developing a connectivity platform where transport infrastructure assets are digitalized, and mobility optimization services operate harmoniously. Advanced AI-driven analytics are being developed to fuse infrastructure monitoring data at different geospatial resolutions, enabling proactive incident detection and supporting infrastructure providers and users in operations and maintenance management. These innovations are integrated into the overarching operational architecture of the SMARTIN digital infrastructure. The SMARTIN platform architecture will revolutionize infrastructure governance by improving the operation and management of urban transport infrastructure and redesigning transport and mobility activities for all stakeholders. SMARTIN's innovations will be demonstrated across four representative European cities, showcasing their potential to enhance infrastructure accessibility and resilience, promote multimodality, and accelerate the adoption of digital solutions.