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RSImpact - Road Safety Impact Model

Scientific Responsible
Professor **George Yannis**

The objective of the "Road Safety Impact Model - RSImpact" project is to develop a data-driven macroscopic road safety impact model and relevant tools to support national policies and programmes. These will be used to evaluate scenarios aiming at the reduction of road crashes and casualties and to estimate the associated economic impacts. The model will be based on international datasets covering all five road safety pillars (management, road users, roads, vehicles, post-crash) and will account for both the temporal dimension and cross-country heterogeneity. This advanced model will assess the effects of current and future road safety policies, programmes, and specific interventions at national (and potentially local) levels and forecast road safety performance. For country-specific calibration, national crash data and other statistics will be used to test the impact of specific policies and to integrate the local and macroscopic models using robust scientific criteria. The model will support the effective implementation of the Safe System approach in national and local policies, with a particular focus on Low- and Middle-Income Countries. It will help stakeholders prioritize interventions by considering not only the expected health and safety benefits but also the economic impacts from both stakeholder and societal perspectives. The project will be implemented in two phases: prototype development and pilot testing, followed by full model deployment. Final outputs will include a set of post-processing tools (e.g., web platform, app) to provide an interactive, user-friendly interface for interpreting results and supporting the uptake of findings by policymakers and practitioners.