

C-ITS Impact Assessment (CIIA2023)

Co-operative Intelligent Transport Systems (C-ITS) as a term for systems for exchanging information between vehicles and the road infrastructure is being rolled out in Austria by ASFINAG. The question posed by the gradual use of the technology and answered in the project is: What impact do C-ITS services have on our transport system?

The C-ITS (Co-operative Intelligent Transport Systems, often referred to as V2X) safety system, which is standardised across manufacturers and throughout Europe, enables the direct exchange of safety-relevant information between vehicles and the road via WLAN, without an additional device in the car, app, subscription, or contract.

To assess the effectiveness of C-ITS, it is now necessary to carry out an impact assessment of the C-ITS technology and its applications. This includes assessing the potential impact of C-ITS and the C-ITS-equipped vehicle fleet (currently around 1.5 million vehicles in Europe) as well as infrastructure on general traffic management and road safety. The study focuses on the effects on the individual vehicle, on the overall traffic as well as the effects on the traffic management of the road operator, including the traffic flow and the environment.

The exact evaluation methodology, i.e. the defined procedure for determining the impact and related effects, is to be determined as part of the project together with ASFINAG. Use cases will then be selected for evaluation and the impact assessed and documented using real data or simulation results.

Funding program

ASFINAG tender

Period

01/2024 – 12/2024

Budget

€ 97.900

Project partners

ANDATA

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