



Kick-Off-Meeting on the 5th of November 2020

Press release

5 November 2020

Project SAFETY4RAILS (*Data-based analysis for SAFETY and security protection FOR detection, prevention, mitigation and response in trans-modal metro and RAILway networkS*) kick-off meeting took place on the 5th of November in a virtual conference with all the consortium partners, the Project Officer from the European Commission's Research Executive Agency, representatives from the project's foreseen advisory boards and two further foreseen end-users partners from Spain and Turkey.

Running for 24 months, the SAFETY4RAILS project will aim to deliver methods and systems to increase the safety and recovery of track-based inter-city railway and intra-city metro transportation. It addresses both cyber only attacks (such as impact from WannaCry infections), physical-only attacks (such as the Madrid commuter trains bombing in 2014) and combined cyber-physical attacks, which are important emerging scenarios given increasing IoT infrastructure integration. SAFETY4RAILS concentrates on rush hour rail transport scenarios where many passengers are using metros and railways to commute to work or attend mass events (e.g. large multi-venue sporting events such as the Olympics). When an incident occurs during heavy usage, metro and railway operators must consider many aspects to ensure passenger safety and security, e.g. carry out threat analysis, maintain situation awareness, establish crisis communication and response, and they must ensure mitigation steps are taken and communicated to travellers and other users.

SAFETY4RAILS will improve the handling of such incidents through a holistic approach. It will analyse the cyber-physical resilience of metro and railway systems and deliver mitigation strategies for an efficient response, and, in order to remain secure given ever-changing novel emerging risks, it will facilitate continuous adaptation of the SAFETY4RAILS solution. Simulation exercises will be organised in different operational environments to test and assess the SAFETY4RAILS solutions (S4RIS platform) with the end-users of the consortium supported by the external advisory board.

A special focus of SAFETY4RAILS will be on the involvement of end-users and railway practitioners during the whole project from the beginning in defining requirements and needs, designing and performing the scenarios and demonstrations, evaluating the software platform S4RIS and the feedback loops to the developers.

The consortium

SAFETY4RAILS is coordinated by the Fraunhofer Institute for High-Speed Dynamics, Ernst-Mach-Institut, EMI. EMI is one of the Fraunhofer-Gesellschaft's 74 institutes in Germany. The Fraunhofer-Gesellschaft is the leading organisation for applied research in Europe.



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 883532.



Project partners in addition to FRAUNHOFER EMI are:

UNION INTERNATIONALE DES CHEMINS
DE FER

METRO DE MADRID

SAANKARA ELEKTRİK, HAVAGAZI VE
OTOBUSİSLETME MÜŞŞİŞİŞİ

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