Objective

This project aims at developing solutions for the very expensive corrugation problem in metro and tram networks. Corrugation reduces the lifetime of rails and wheels, causes irritating emitted rolling noise and leads to safety concerns. The only efficient solution nowadays is periodical rail grinding, an expensive work. The general objective of this project is to reduce the corrugation growth with 50% in time by developing track and rolling stock solutions other than grinding. Based on a study of all relevant corrugation parameters, on an extensive measurement campaign and on numerical modelling, nine different track and rolling stock solutions will be designed and tested. The first in site tests are going to begin before the mid-term, so their results will be available during the third year, what will enable, if required, to modify and optimise the designed solutions before the end of the project.
Programme(s)

Topic(s)

Funding Scheme
CSC - Cost-sharing contracts

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