https://sonrail.empa.ch/

The sonRAIL method was developed on behalf of the Federal Office for the Environment (FOEN). The measurements have been organized by PROSE Ltd. The emission model comes from University of Technology Berlin. The federal institute of material science and testing EMPA has created a sufficient sound propagation method, which is available as sonX kernel (documentation at http://www.empa.ch).

The web application was programmed by n-Sphere Ltd. in Zurich and is maintained by the EMPA.

Proposals, Review and Requests to: sonrail@empa.ch

By means of sonRAIL noise emissions of rail vehicles, train compositions and railway tracks can be calculated accurately, it is useful to exchange experience and information and will be developed permanently also by user application.
> Quiet trains are requested

Silence as precious asset is necessary for health and wellness. Silence provides market and location advantages. The train of tomorrow operates quiet.

Web tool for railway noise calculation

The web tool is made for engineers, planners and administrations, to lobby for noise reduction at the sound source. sonRAIL provides the opportunity to calculate pass-by noise of single vehicles or railway sections and to evaluate appropriate emission limiting measures based on these results.

Knowledge disc and idea generator

Furthermore, as internet platform sonRAIL is qualified to exchange knowledge and experience. Practical tips can be processed immediately. The web tool data base offers default parameters of vehicles and railway tracks to the user, who can add measuring values of a specific project to gain the accuracy of the entire prognosis. In future an active sonRAIL-community can become a pulse generator for an environment without disturbing railway noise.

All calculations are carried out with current parameters from the sonRAIL data base. The web tool application is free of charge and available over personal Log-In, to be requested at sonrail@empa.ch.