## Conclusions



**Monitoring** the track condition over the whole wavelength band of interest for vibrations.

It is proposed to consider a new domain D0 [0.5m-3m].

It is well within the capabilities of the many track recording cars used by the Infrastructure Managers in Europe.

## **Track**

Dipped rails and joints seem to generate high, broadband vibration levels Tamping enables a small reduction of very low frequency vibrations

## Wheel

In the worst cases observed, a very bad Out-Of-Roundness (OOR) can generate a very high level of vibration compared to an average wheel condition. Different rolling stock and wheel maintenance strategies lead to different OOR development.

