

CHALLENGES AND DISCUSSION POINTS (1/3)

Characterization of low-noise pavements

- Large variety of pavement types across Europe
- Standardized derivation of emission parameters for noise mapping from measurements
- Standardized designation of pavements in connection with emission parameters
- Do we need reference pavements?
- Link to noise limits for vehicles and tyres
- Link to noise mapping and action planning

CHALLENGES AND DISCUSSION POINTS (2/3)

Technical challenges

- Frequency range of CPX measurements
- Reference tyres representing truck tyres
- Long-term availability of reference tyres
- Changing tyre and vehicle populations
- Acoustic characterization of electric vehicle noise

CHALLENGES AND DISCUSSION POINTS (3/3)

Managing low-noise pavements

- Long-term development of acoustic properties of pavements
- Expected lifetime of low-noise pavements
- Non-acoustic parameters allowing the prediction of acoustic pavement performance
- Maintenance and repair of low-noise pavements
- Low-noise pavements in urban environments