

1st WORKSHOP
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PORTOROZ, Slovenia



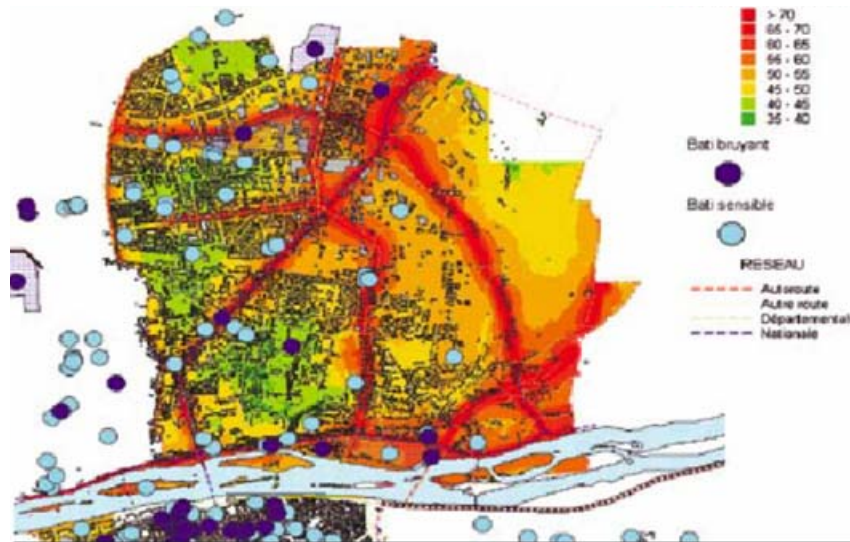
General policies on noise emission

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Noise: a difficult problem

- Noise is an **environmental** problem
 - EC Directive 2002/49/EC : noise mapping (cities and big transportation infrastructure) and action plans
 - Noise emission + propagation



Niveaux sonores - Carte AC0Upus Agglomération de Tours

Noise: a difficult problem

- National regulations to protect the residents
 - Different noise indicators
 - Different legal thresholds
 - Different application schemes (calculation, check by measurements...)
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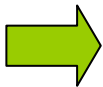
Road noise emission

scientific

- Road noise emission mainly due to **tyre-road interaction**

Technical

- Different **tools** to reduce road noise emission:
 - improve **vehicle / tyre** conception
 - **Traffic management**: speed limits, reduce traffic volume (re-routing), increase fluidity
 - Improve **road surface** conception
 - Build **noise barriers**



Legislation ?

Road noise emission

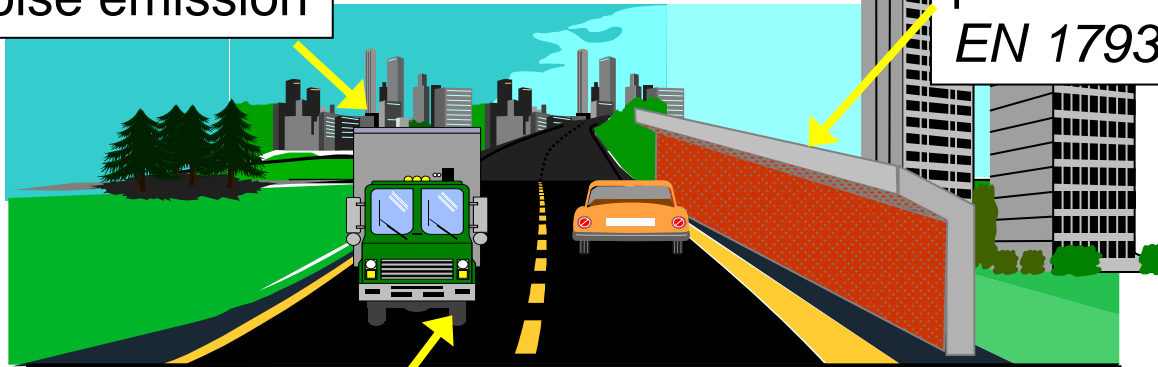
Legislation

Requirements on **vehicle** noise emission

CEN standards for **noise barrier** performances
EN 1793 series

Requirements on **tyre** noise emission
Directive 2001/43/EC

No requirement for **road** noise performance ?



Road noise emission

Road authority

- How to promote the use of low noise surfaces ?
- What is a low noise surface ? (indicator, level of performance..)

Road owner / Road engineer

- Which low noise surface to chose ?
- How to specify the required performances ?
- How to check it ? Which method ? (CPX, SPB...)

Road contractor

- How to promote the use of my low noise product ? (Inland and abroad)
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