UPDATES TO THE EMEP/EEA GUIDEBOOK
Construction and demolition | Jeroen Kuenen
ABOUT THIS PROJECT

- Funded by UBA Germany

- Work conducted by IER University of Stuttgart & TNO in the second half of 2015

- Complete review of the chapter, including all the process descriptions and the methodology

- Focus on developing a methodology to better estimate emissions from this source but making it such that countries can still apply it .... which is a challenge!
NEW METHODS

- Review of PM emission factors in current Guidebook
- New Tier 1 method introduced, distinguishing the most important sources:
  - Construction of houses
  - Construction of Apartment buildings
  - Non-residential construction
  - Road construction

<table>
<thead>
<tr>
<th>Tier 1 default emission factors</th>
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<tbody>
<tr>
<td>Code</td>
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<tr>
<td>NFR Source Category</td>
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<tr>
<td>Not estimated</td>
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<tr>
<td>Pollutant</td>
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<tr>
<td>TSP</td>
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<td>PM₁₀</td>
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<td>PM₂.₅</td>
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METHODS

Tier 1 emission factors in kg PM / m\(^2\) per main “building”
- Guidance provided on typical m\(^2\) to be taken for the different housing types, such that the method can also be applied with the number of houses built
- Based on US EPA method dependent on geological and meteorological dependencies – translated to represent typical European conditions

Tier 2 method
- Not available for this source

Tier 3 method
- Reference to US EPA AP-42 which has a more extensive methodology – chapter 13.2.3 (US EPA, 2011)
CONCLUSIONS

- New Guidebook chapters reflect the information from the latest BREF document
- However, the Guidebook only provides a short summary and main emission factors, with references to the BREF document for more detailed information

- Other updates to the chapters were made along, such as removal of outdated information and the restructuring of some of the methodologies
THANK YOU FOR YOUR ATTENTION