



CT5 - *Agreed 'key challenges'*

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Outline

- Template for the ‘key challenges’
- Collected proposal from CT5 participants
 - ‘pollutant specific’ Key Challenges
 - ‘horizontal’ Key Challenges
- How to organize the work now
 - Receiving your contribution (by June)
 - Reviewing your contribution (by August)

Template for the key challenges

- 5 to 10 pages
- Key idea: measures -> emissions -> concentrations -> impacts
- **Measures:**
 - Identify key sectors, and reason for exceedances (geographical vs sectoral sources).
 - Describe in a generic way the type of measures (end-of-pipe, behavioural, fuel switch, etc...) and their features (i.e. uncertainties, time scale for implementation and expected effect...)
 - Other relevant features: e.g. process of identifying and selecting measures (going from a long list to propose a short list) etc...

Template for the key challenges

- **Emissions** (translate the considered measures into emission changes).
 - Describe level of implementation (national to regional to local), spatial (point source VS road), temporal scale of the source ...
 - Describe how different types of measures affect emissions (e.g. activity, emission factor, location and spatial distribution, temporal distribution, emission conditions)
 - Modelling emission changes/scenarios due to proposed measures

Template for the key challenges

- **Concentrations**

- Selected modelling approach ... including how you model / predict future background concentrations and how you do the coupling between national/regional/local planning and measures.
- What to do about uncertainty? E.g. due to meteorology (climate change), emissions...

- **Exposure / impacts (voluntary)**

- Which approach, which spatial resolution? Only exposure or also impacts?
- integrated assessment modelling and/or cost-benefit analysis approach(s)

'Pollutant specific' Key Challenges

- Stijn – Lieslotte - Matthias: **How to implement a low emission zone, to reduce NO₂ and BC**
- Beth – Kristina: **How to reduce NO₂ concentrations, dealing with NO_x to NO₂ fractions**
- Jana - Malgorzata: **How to design measures on domestic heating, to reduce PM and BaP**
- Sandy – Vasiliki – Elsa: **How to design measures to reduce O₃**
- Mihaela: **How to implement actions to reduce PM**
- Kristina: **How to act on non-exhaust traffic sources to reduce PM**

'Horizontal' Key Challenges

- Stijn – Andreas – Kristina - Elsa: **Best practices for exposure modelling (link to CT8)**
- Beth – Andreas - Elsa: **How to integrate background concentrations in a local modelling study**
- Luisa - Christian: **How to design an optimal air quality plan, considering NEC requirements and co-benefits**
- Beth - Elsa: **How to model the path from measures, to emissions, concentrations and health**

Questions for you

- How to organize the work now
 - Receiving your contribution (March-June)
 - Please team-up to work together on your contributions
 - Reviewing your contribution (June-August)
- Would you like to contribute to existing chapters?
- Would you like to propose new chapters?
- Are you willing to help us (me, Cristina) in reviewing the document?

Thank you