Technical recommendation for work plan

WG4

A. Clappier and A. Monteiro
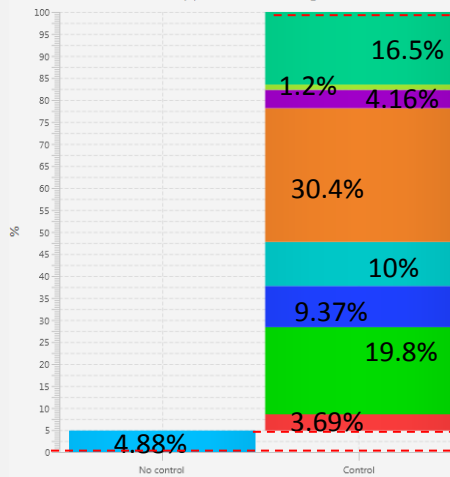
Overview

Interaction between WG3 and 4

Reduction (or Tagged) Areas
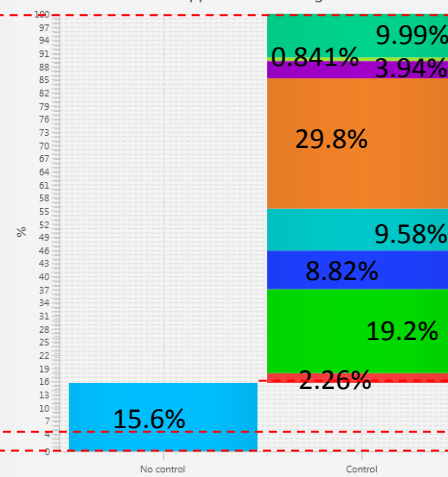

Reduction of:

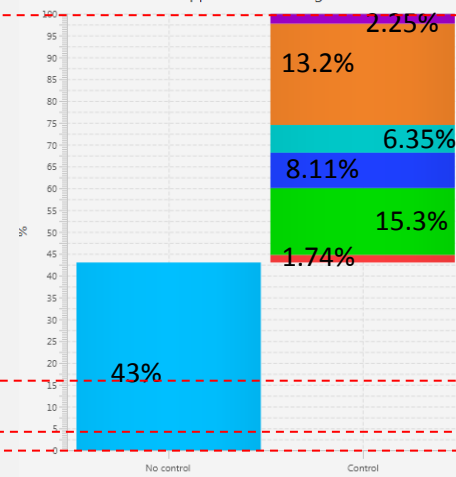### 1. all European countries
Source-apportionment diagram

16.5%
1.2%
4.16%
30.4%
10%
9.37%
19.8%
3.69%
4.88%

No control — Control

2. France
Source-apportionment diagram

9.99%
0.841%
3.94%
29.8%
9.58%
8.82%
19.2%
2.26%
15.6%

No control — Control

3. Paris
Source-apportionment diagram

2.25%
13.2%
6.35%
8.11%
15.3%
1.74%
43%

No control — Control

Example: Paris

Source Apportionment

Source App. in Paris (PM2.5)

PPM Emissions in Paris
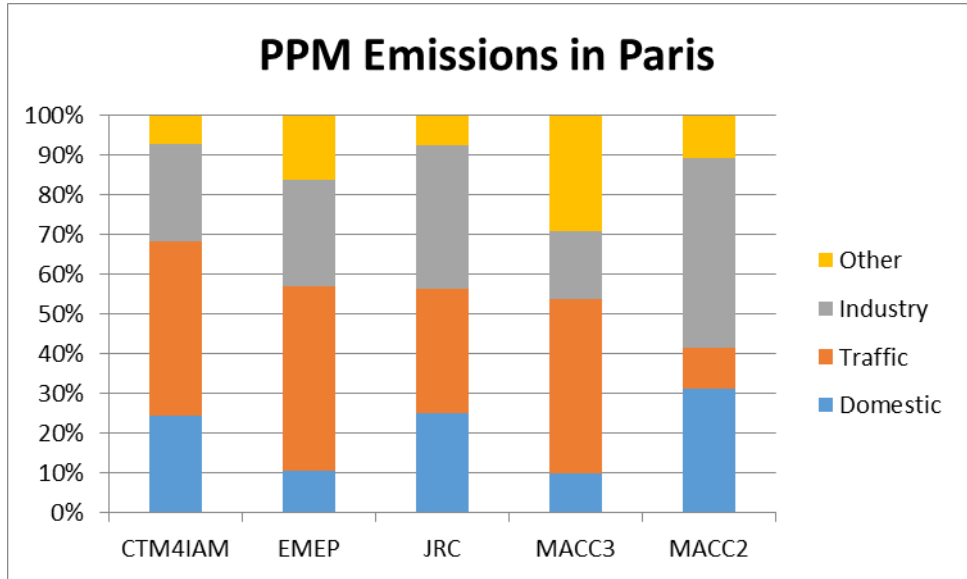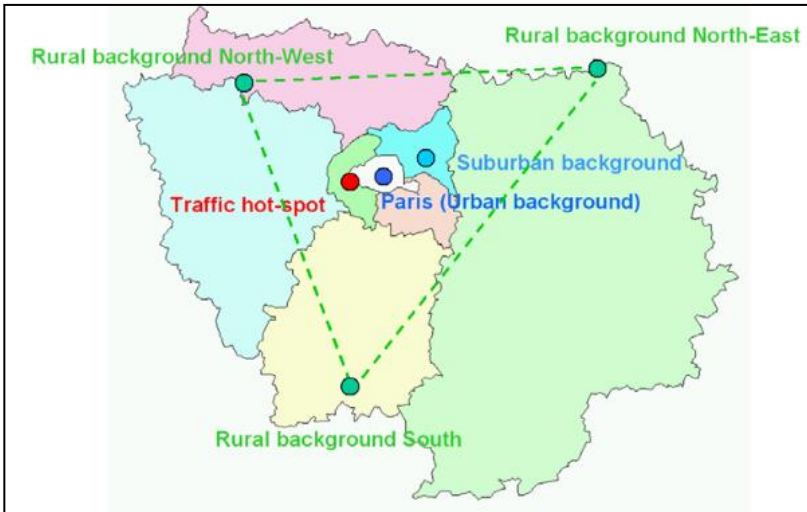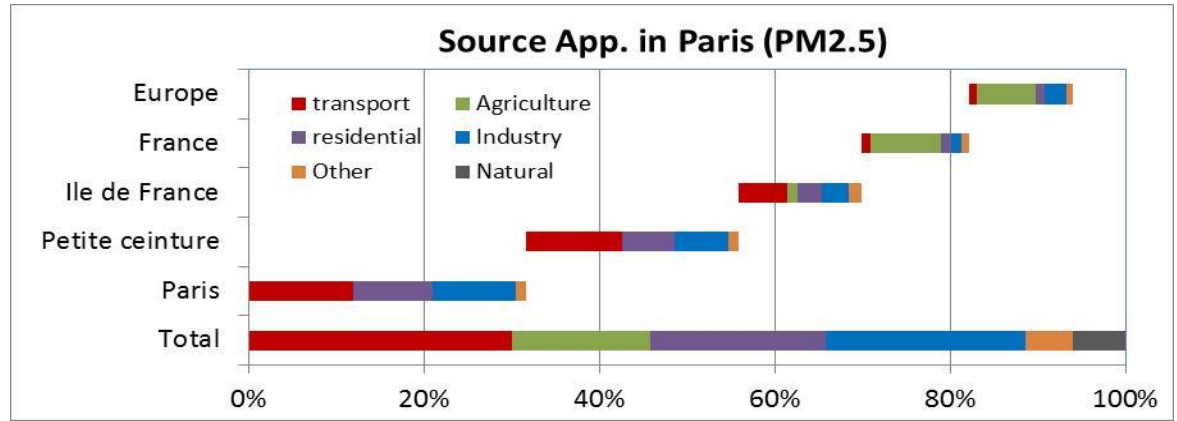
Overview

E-Reporting source apportionment and SHERPA

E-Reporting

(I) Information on source apportionment (Article 13)

(1) Code(s) of exceedance situation (link to G)

(2) Reference year

(3) Regional background: total

(4) Regional background: from within Member State

(5) Regional background: transboundary

(6) Regional background: natural

(7) Urban background increment: total

(8) Urban background increment: traffic

(9) Urban background increment: industry including heat and power production

(10) Urban background increment: agriculture

(11) Urban background increment: commercial and residential

(12) Urban background increment: shipping

(13) Urban background increment: off-road mobile machinery

(14) Urban background increment: natural

(15) Urban background increment: transboundary

(16) Local increment: total

(17) Local increment: traffic

(18) Local increment: industry including heat and power production

(19) Local increment: agriculture

(20) Local increment: commercial and residential

(21) Local increment: shipping

(22) Local increment: off-road mobile machinery

(23) Local increment: natural

(24) Local increment: transboundary

To be done next year:
future SHERPA development
WG4

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E-Reporting

(J) **Information on the scenario for the attainment year (Article 13)**

(1) Code of exceedance situation (link to G)

(2) Code of scenario

(3) Code of air quality plan (link to H)

(4) Reference year for which projections are developed

(5) Reference year from which projections are started

(6) Source apportionment (link to I) EN 17.12.2011 Official Journal of the European Union L 335/105

(7) Relevant publication (data type 'Publication')

(8) Baseline: description of the emission scenario

(9) Baseline: total emissions in the relevant spatial unit

(10) Baseline: included measures (link to K)

(11) Baseline: expected concentration levels in the projection year

(12) Baseline: expected number of exceedances in the projection year

(13) Projection: description of the emission scenario

(14) Projection: total emissions in the relevant spatial unit

(15) Projection: included measures (Link to K)

(16) Projection: expected concentration levels in the projection year

(17) Projection: expected number of exceedances in the projection year

To be discuss with **WG4** or **WG1**

To be discuss with **WG2**

To be discuss with **WG4**

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Technical recommendation

Model validation in scenario mode

- ❑ Use SHERPA as an instrument to compare model in scenario mode (application of SHERPA with bottom-up data).

Interaction with WG3

- ❑ Collect information about source apportionment measurement technics to take into account abatement areas

Technical recommendation

E-Reporting:

❑ Better guidance on source apportionment and planning (including applications) based on SHERPA current and future versions (local increment).

❑ Source apportionment to be used in a first step to design air quality plan of which the impact can be assessed in a second step.

❑ Automatic "partly" e-Report facilities to be included in SHERPA.

❑ *Abatement measures:* Contribution to the JRC UBA measures data base in term of quantification (emissions WG2?) and harmonization, ideally with the support of pilot cities.

Hvala