

What is EFCA?

Federation of National Associations in Europe

- Non-political, non-governmental, non-profit and independent expert organisation

Objectives and Mission

- To encourage professional activity in Europe
- To help to achieve policies and measures that will protect the environment, climate and human health in Europe against the effects of pollution while fostering sustainable development

EFCA



European Federation of Clean Air and
Environmental Protection Associations

What didn't we hear?

How to solve the PM-problem

- 400 million Europeans lose 6 months of their lives on average; 75% of this is caused by PM
- Can we help them adequately with regulation for $PM_{10}/PM_{2.5}$, which are indicator metrics for a complex mixture?
- Which are its toxic fractions?
- Which are their sources?

What do we know?

- PM may contain at least four different, potentially toxic fractions:
 - black carbon (BC)
 - primary organic aerosols (POA)
 - secondary organic aerosols (SOA)
 - heavy metals (HM)
- Predominantly observed in the ultrafine (< 150 nm) and nanofractions (<70 nm)

What do we have to know?

- Relative prevalence of each of these four fractions in $PM_{2.5}$
 - Emissions inventories and their dominating sources
 - Monitoring data
- Relative toxicity of each of them
 - Bioassay
 - Model studies
 - Epidemiological studies and other

How to proceed?

- Better tools and more research
 - Pilot monitoring networks which are PM fraction-specific
 - Research into dose-effect relations for each of these fractions
 - Atmospheric and model studies on secondary particles

Anything else?

- Possibly higher health risks because of higher SOA production from biofuels for transport
- Doubts on supposed advantage of diesel cars above petrol cars (climate and air quality)

Wanted:

- New assessment of biofuels, including their effects on air quality
- New assessment comparing performances of diesel and petrol cars (climate and air quality)