Requests to Transport Emission Experts by the Inventorying Community

A subjective view
There's more to emissions than NOx, e.g. PM

- Exhaust PM size fractions still uncertain, esp. PM$_{2.5}$/PM$_{10}$
  - How much of the PM$_{exhaust}$ is PM$_{2.5}$?

- Tyre and brake wear somehow certain
  - New information is still required

- Road wear very uncertain
  - Large improvements required

- PM definitions
  - Filterable vs condensable
  - SVOC, primary, secondary
Other pollutants covered by the protocol

➢ Cd, Hg, Pb
  ♦ We hardly have any recent data on exhaust emissions
  ♦ We hardly have any data on non-exhaust, maybe for brakes

➢ POPs: Dioxins/Furans, HCB, PAH
  ♦ We hardly know their names, let alone measuring them
Inconsistencies

➢ Protocols require BC
  ✷ We often report EC
  ✷ Brown C?
  ✷ Difference may be / not be small

➢ Protocols require NMVOC
  ✷ We report NMHC, which may result in large differences especially for some alternative fuels (alcohols)
➢ Activity and profile data are often missing

➢ Data relevance
  - e.g. what is average speed?

➢ Responsibility for data collection / mining / generation resides on both groups
  - Could we optimize our efforts?
Latest science vs consistency

➢ Latest scientific findings should be taken into account:
  ✿ ASAP as they significantly change projections
  ✿ In scheduled time frames so that time series do not ‘randomly’ change

➢ Latest scientific findings should not lead to much more complex methods
  ✿ Data availability?
  ✿ Potential for incorrect use of the method
Latest data vs time-series

- Future targets are based on current knowledge (=level)
  - If 'current' level changes in the future, the preceding target has no meaning

- Emissions of a tech X on a past year in a time-series is not the same as the emissions of tech X in the current year
  - Questionable if it makes sense to change old emission levels with latest info on old technologies
Non-road transport

➢ Marine emissions
  ✷ In-port primary and secondary engines
  ✷ Emission factors / fuels / emission control

➢ NRMM
  ✷ Number of units
  ✷ Load profiles
  ✷ Hours of use