

Information from France



ERMES Plenary Meeting
Lyon, May 23rd 2016

On-going activities

- PC Euro 5 and 6b :
 - *ARTEMIS Urban, Road, Motorway*
 - *Regulated pollutants : HC, NO_x, CO, CO₂, Particle Matter, Particle Number*
 - *Non-regulated pollutants : PAHs, BTEX, Carbonyl compounds, NO₂, BC*
- 2-wheelers and mini cars (without driving license)
- Non-exhaust particles from brakes, clutches and tires
 - *Assessment of the particle quantities on test benches and on real driving conditions*
 - *Analysis of the particle composition*
- Pt, Rh, Pd emissions

Planned activities in 2017

- Non regulated pollutants for PC & LDT Euro 4 to 6 :
 - *especially the one implicated into the formation of the Secondary Organic Aerosols (SOA) : SVOCs (Semivolatile Organic Compounds) -> inputs for the air quality models*
 - *Polycyclic Aromatic Hydrocarbons (PAHs)*
 - *Dioxins & Furans*
- Pollutants in the cabins for PC, bus, coach, train, metro, etc. ; some activities already started in 2016
- HDV : LNG / CNG – to be confirmed

Planned activities in 2018

- Particle Filter for PC Euro 6c :
 - *Diesel : efficiency at cold start, coupled SCR-DPF*
 - *GDI : efficiency on PN, regeneration, durability*
- Impact of the biofuels (in mixture with gasoline or diesel) on the SOA formation
- To be confirmed : assessments of hybrids and CNG LDV

Needs and priorities (1/2)

- Non regulated pollutants -> air quality models
- EF for new vehicles :
 - *CNG Light and Heavy Duty Trucks*
 - *Hybrid PC (full hybrids)*
 - *Electric vehicles (for each vehicle category) and plug-in hybrid (for PC)*
- Well to Wheel (WTW) analysis :
 - *Introduce the CO₂ (pollutants if available) emissions of the fuel, biofuel and electricity production in order to have information on the global CO₂ emission and to compare the electric, plug-in et thermic vehicles each other*

Needs and priorities (2/2)

- Update the French fleet and traffic data for the next version of HBEFA
- Model benchmark on the same local studies in order to compare the results :
 - *COPERT*
 - *HBEFA*
 - *PHEM*
 - *Can RSD (Remote Sensing Device) improve them?*

Thank you for your attention