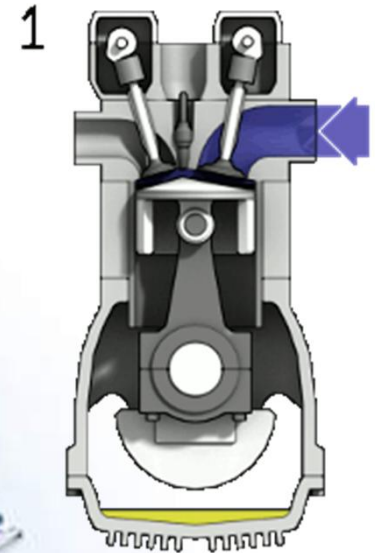


AVL Tech Days 2012  
Particulate Seminary



You probably have known that the world's human population is increasing dangerously.  
So is the world's car population.

In 1970, there were 200 million cars in the world.

In 1990, there were almost 500 million."



**How many cars are there in the world currently?**

It is estimated that **over 600,000,000** passenger cars travel the streets and roads of the world today.



If present trends continue, the number of cars on Earth will double in the next 30 years.“

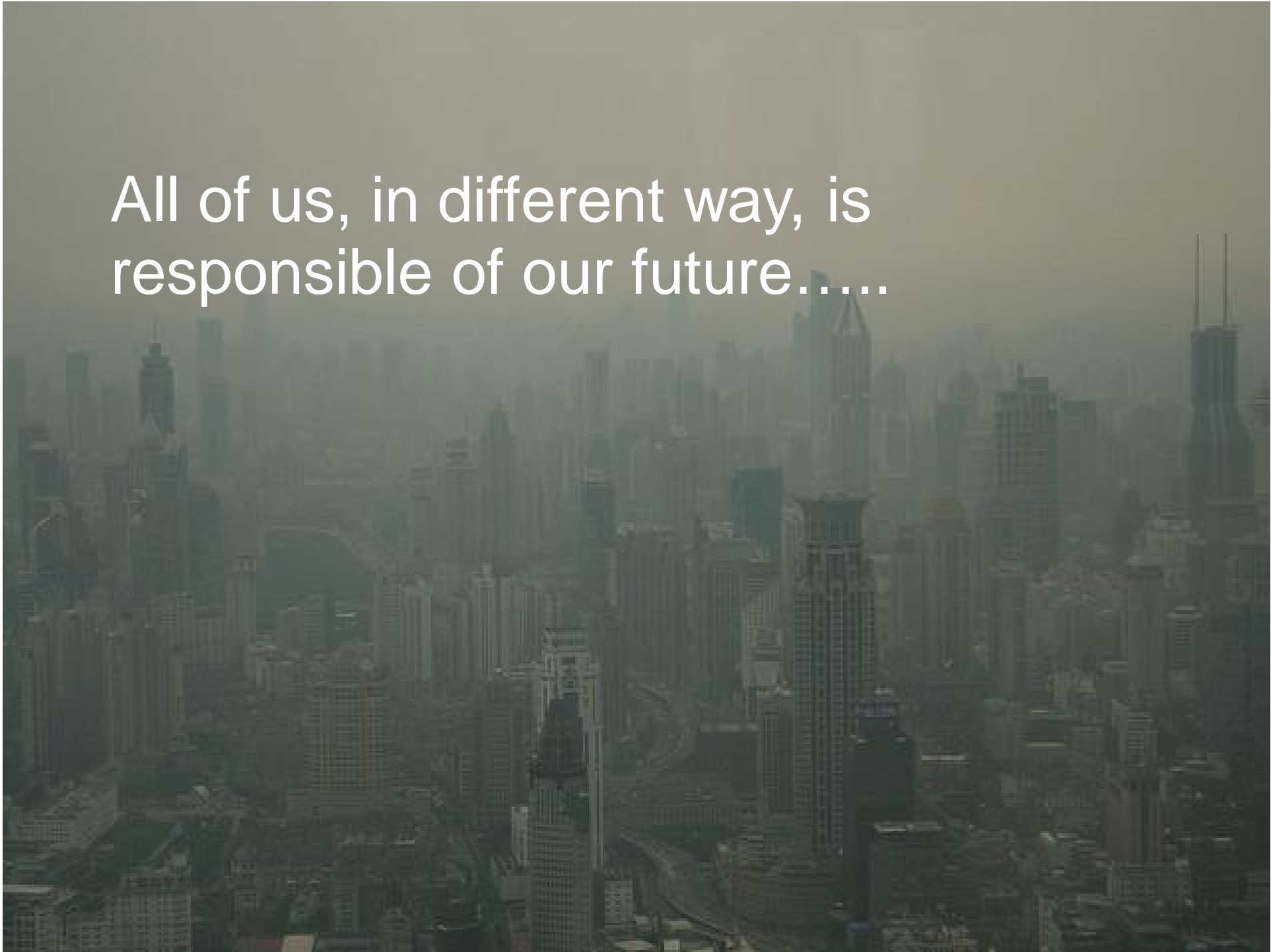
**1,200,000,000  
(2030)**



More than **1 billion cubic meters** (260 billion US gallons) of petrol/gasoline and diesel fuel yearly



All of us, in different way, is responsible of our future.....



# AVL Tech Days 2012 Particulate Seminary



## Carlos Caroca

Technical Sales Support  
Particulate Emission Measurement



## Oliver Fritz .

Sales responsible for MA India, Japan,  
France and Italy.  
Product Manager support for Smart  
Sampler and Sales support worldwide



## Wolfgang Schindler, Ph.D.

Development Engineer  
Emission Test Instrumentation



# AVL TECHNICAL Day 2012: Particulate Emissions Forum



AVL Italia è lieta di invitarla all'evento in programma il giorno:  
20 Marzo 2012, presso la sala Panorama dell' **Atlantic Hotel di  
Borgaro Torinese**

## Agenda della Giornata:

- |  |                    |
|--|--------------------|
| 9.00 → Opening Welcome   | G. <u>Reinaudo</u> |
| 9.10 → Current legislation – Requirements on Particle measurement  | O. Fritz           |
| 9.45 → Physical Background - particle structure, particle distribution, particle formation, loss mechanisms  | C. Caroca          |
| 10.30 → <b>Coffee break</b>  |                    |
| 10.50 → Engine Test Applications - Raw gas / chassis dynamometer raw / diluted measurement; what's important and where are the potential problems or risks | W. Schindler       |
| 10.30 → AVL Particle Counter on GDI / Raw exhaust measurement and correlation  | O. Fritz           |
| 12.15 → <b>Lunch</b>   |                    |
| 13.45 → AVL Micro Soot Sensor, Application presentation and possibilities to measure   | O. Fritz           |
| 14.30 → AVL Smart Sampler, Particle Counting with Heavy Duty engines and EURO VI   | W. Schindler       |
| 15.30 → <b>Coffee break</b>  |                    |
| 15.45 → AVL PEMS testing. Further MSS applications with PM PEMS and GAS PEMS   | W. Schindler       |

