

# VERT Association Road Map

7<sup>th</sup> VERT Forum

March, 18th 2016  
Dübendorf/Zürich  
Volker Hensel

Created to eliminate particle emissions  
from internal combustion engines (ICE)  
by means of best available technology

## ○ Our Mission 2016

- Dedicated to the promotion of Best Available Technology for emission control
- The Core objective of VERT<sup>®</sup> is the minimization of health burden caused by combustion engine emissions, esp. the elimination of Ultra Fine Particles (UFP)
- VERT<sup>®</sup> stresses and recommends the application of particle number measurement against a pure particle mass count as very light Ultra Fine Particles (UFP) cause a major threat to health
- We set the highest quality standards for emission control technology by certifying emission control technologies (VERT<sup>®</sup> Label) and publishing the VERT<sup>®</sup> filter list
- VERT<sup>®</sup> supports traffic pollution reduction programs all over the world, esp. in megacities

# VERT Association Road Map

## VERT Support for legislation with BAT

### China, Bogotá, Tehran, Tel Aviv...

Demonstration of DPF efficiency, pilot tests, public authority support, guidelines for Air Quality

**Present**



### Euro 6 Regulation bei PN



### Chile

DPF regulation for Euro III buses



### USA/California

CARB Show Case  
New York City

### Switzerland

PM Legislation for construction equipment



**Past**

### VERT ww recognition

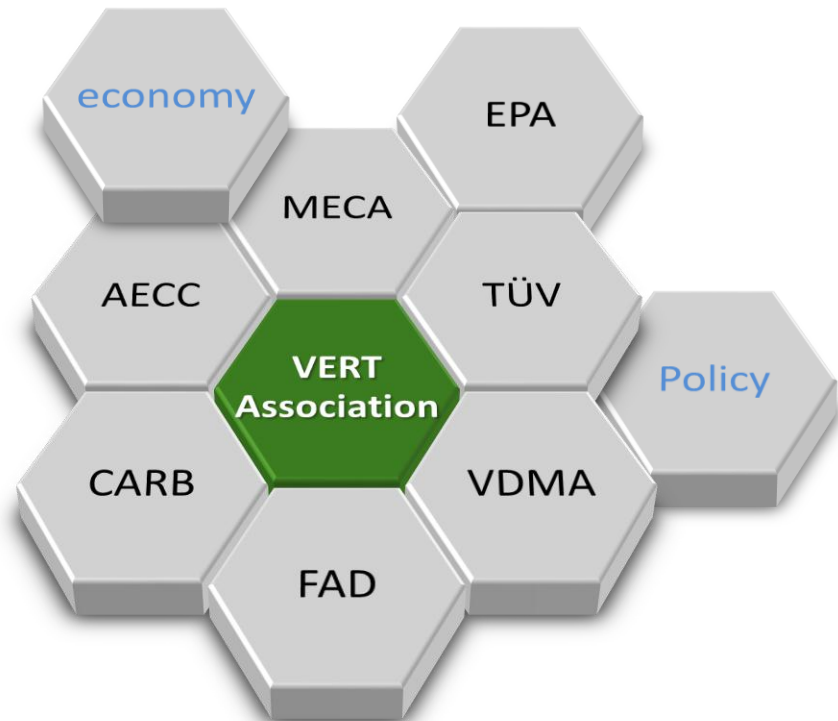
Switzerland: BAFU, SUVA, ASTRA  
Austria: AUVA; Tyrol construction  
Germany: BG Bau; UBA; TRGS 554  
USA: MSHA; NY City; CARB partly  
Netherlands: VROM  
Italy: alto Adige  
Canada: Mining  
UK: London TFL and LEZ  
Denmark: for all applications  
Chile: Santiago Bus, Gensets  
China: Hong Kong busses; Beijing UN-ECE

## VERT Association Road Map

### VERT Network

VERT-network is worldwide and covers all technologies, includes all levels of research from medicine to aerosol physics. This wide dialog comprises knowledge to exchange with governmental policy.

Within the next years VERT will intensify exchange with associations linked to exhaust aftertreatment and mobile combustion driven equipments and vehicles



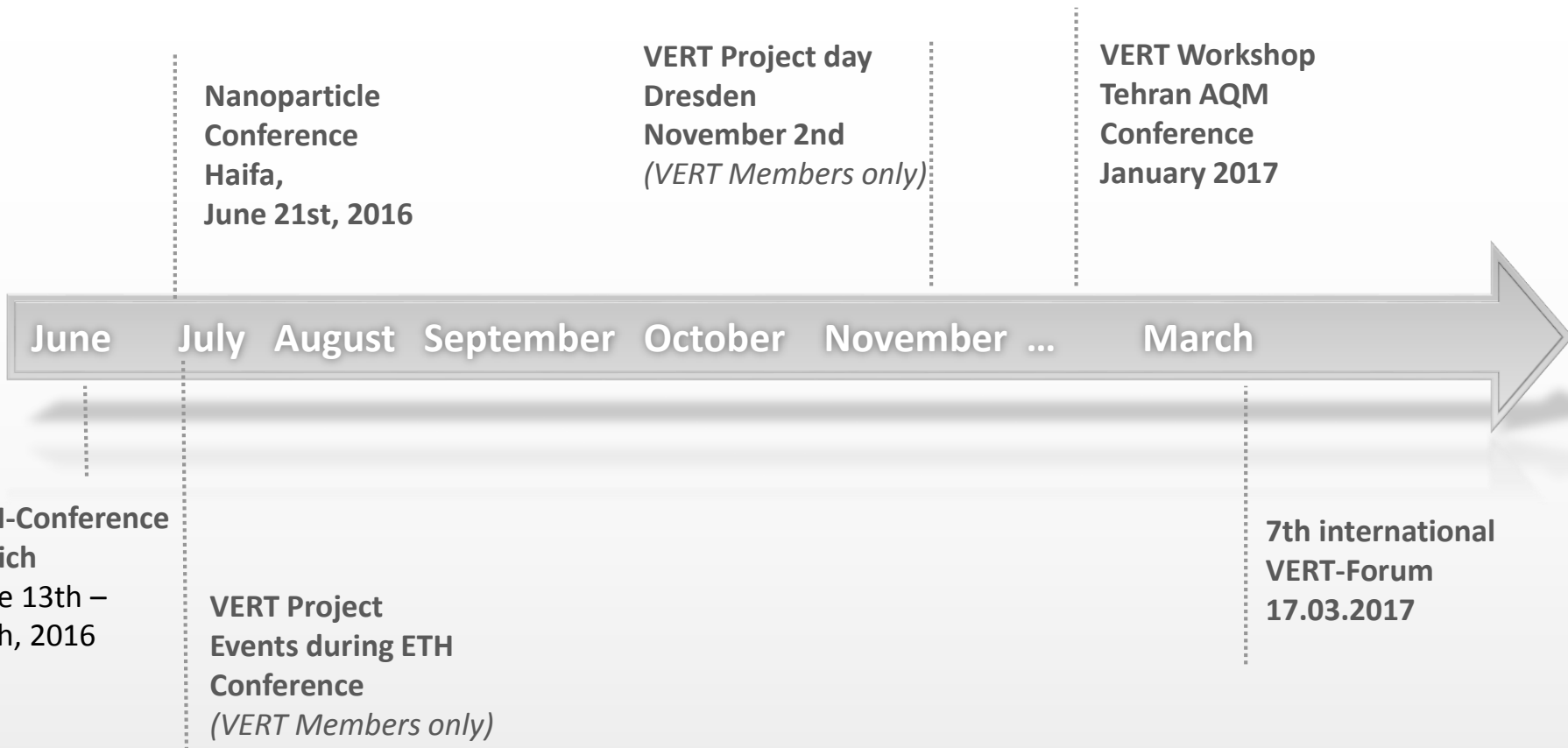
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## Work on Standards and procedures



# VERT Association Road Map

○ 2016



# VERT Association Road Map

VERT Website 2016 | [www.vert-certification.eu](http://www.vert-certification.eu)



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## About us

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[Events](#)

[History & Achievements](#)

[Press & Publications](#)



## VERT<sup>®</sup> Best Available Technology in Emission Reduction

[VERT<sup>®</sup> FILTER LIST](#)

### What VERT<sup>®</sup> stands for:

- An Association dedicated to the promotion of Best Available Technology for emission control
- The Core objective of VERT<sup>®</sup> is the minimization of health burden caused by combustion engine emissions, esp. the elimination of Ultra Fine Particles (UFP)
- Members of VERT<sup>®</sup> are international manufacturers of engines, testing devices, DPF and SCR systems, as well as of substrate producers, chassis builders, among others
- VERT<sup>®</sup> stresses and recommends the application of particle number measurement against a pure particle mass count as very light Ultra Fine Particles (UFP) cause a major threat to health
- We set the highest quality standards for emission control technology by certifying emission control technologies (VERT<sup>®</sup> Label) and publishing the VERT<sup>®</sup> filter list
- VERT<sup>®</sup> supports traffic pollution reduction programs all over the world, esp. in megacities

### What makes VERT<sup>®</sup> unique:

- 20 years of experience in diesel particulate filter technology

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The screenshot shows the 'Events' section of the VERT website. On the left, there is a navigation menu with links for 'About us', 'Association & Services', 'Events', 'History & Achievements', and 'Press & Publications'. Below the menu is a circular VERT logo. The main content area features three event listings, each with a title, location, focus, and a link to a flyer. The background of the website is a blue gradient with a bridge and a road.

[About us](#)  
[Association & Services](#)  
**[Events](#)**  
[History & Achievements](#)  
[Press & Publications](#)



## Unmissable Appointments Events

**2016 June 13th - 16 th - 20th ETH-Conference on Combustion Generated Nanoparticles**

ETH Centre, Zurich, Switzerland  
Focus Event: Particle Filter Quality under Real World Conditions  
Efficient and durable emission control of motor vehicles is a necessity to mitigate air pollution in cities. The focus event will show how to do it with respect to particle filter technology. Experience will be presented from administrative authorities by Dr. Alberto Ayala, CARB, but also from filter and engine manufacturers. Results of emission control in modern and older bus fleets and in construction machines are shown, and a systematic control approach including inspection and maintenance will be suggested.

[>> Flyer ETH 2016](#)

**2016 March 18th - 7th VERT<sup>®</sup> Forum in Zurich/Dubendorf/Switzerland**

Cordially invited are representatives of the involved industry, government, current and future members of the VERT<sup>®</sup> association and those, curious to learn more on latest developments of filter technologies.

[>> Flyer VERT Forum 2016](#)

**2016 March 17th - VERT<sup>®</sup> General Assembly in Zurich/Dubendorf/Switzerland**

(for VERT<sup>®</sup> members and by invitation only)



**Thank you very much for your interest  
and sharing the day with us**

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