7<sup>th</sup> ASEP IWG, 20-22 March, 2018. Changchun, China.

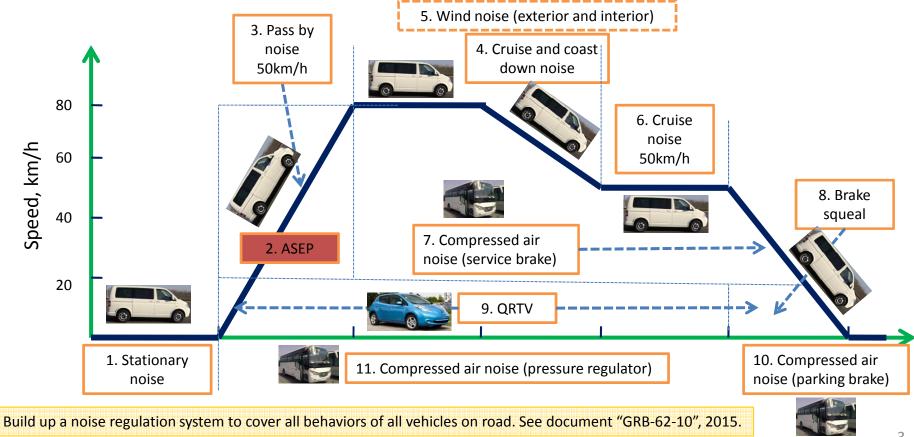
### **Technical plans on China ASEP**



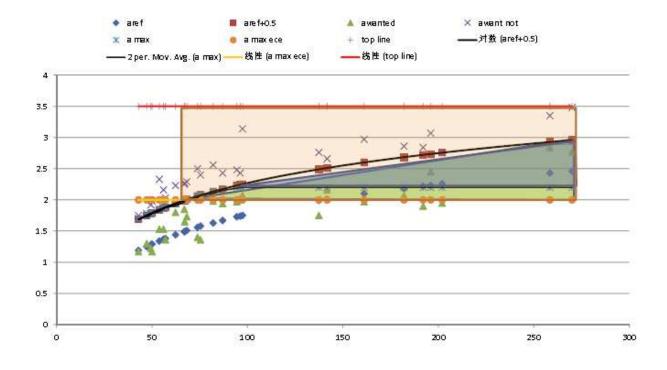
#### **Contents**

- Study of China on ASEP
- Technical plans on China ASEP
- How to combine with UNECE
- Other issues

# Long-term plans for noise working group

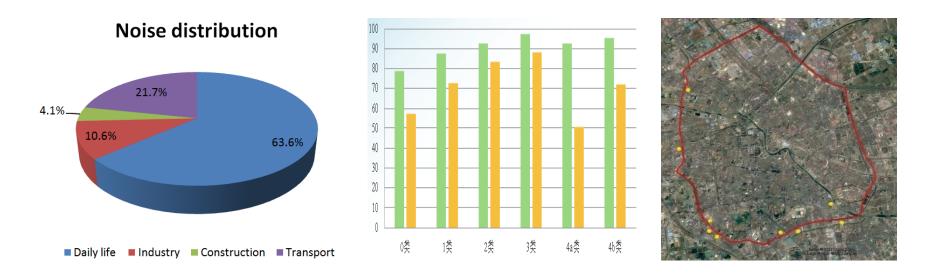


### Products - SCOPE and border line



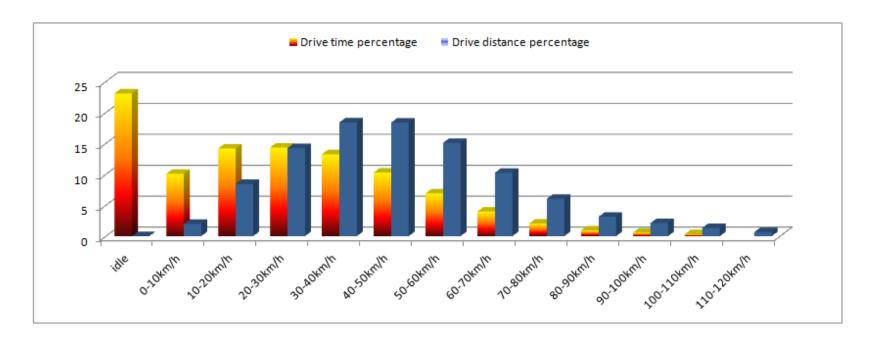
<sup>\*</sup> China began the research on ASEP from the side of products, in the year of 2016. See document "ASEP-05-06".

# **Environment-noise problems**



<sup>\*</sup> China began to consider the real transport noise problems from the beginning of 2017. See document "ASEP-03-03".

## China automotive test cycles



<sup>\*</sup> China tried to find the solutions for transport noise problems from CATC in the beginning of 2017. See document "ASEP-04-11".

# Try to find solutions



<sup>\*</sup> The first round proof tests of China in the summer of 2017 for checking the test method now, the possible solutions on test method. See document "GRB-66-13".

## Try to find solutions

#### Vehicle speed and vehicle acceleration

- -Vehicle speed (cruise tests with speed 30km/h, 50km/h and 70km/h).
- -Vehicle acceleration (acceleration tests)

 $V_{pp'}$ =30km/h, 50km/h and 70km/h;

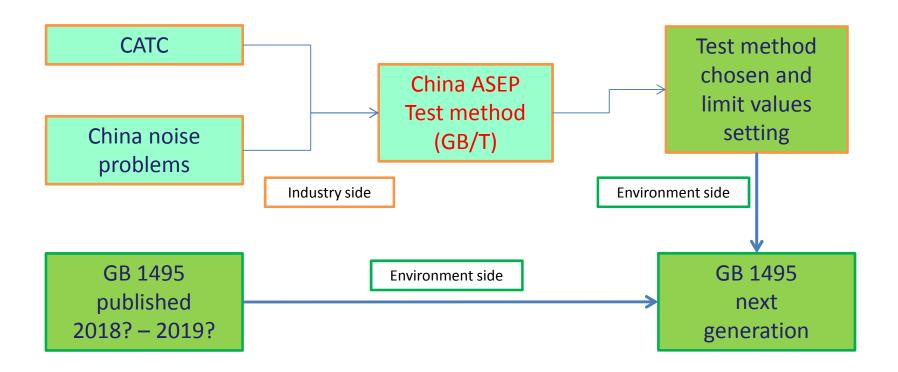
Gear for 30km/h: (1+i )/2; Gear for 70km/h: (i+1+X)/2,("X" means the total gears number).

#### For ASEP:

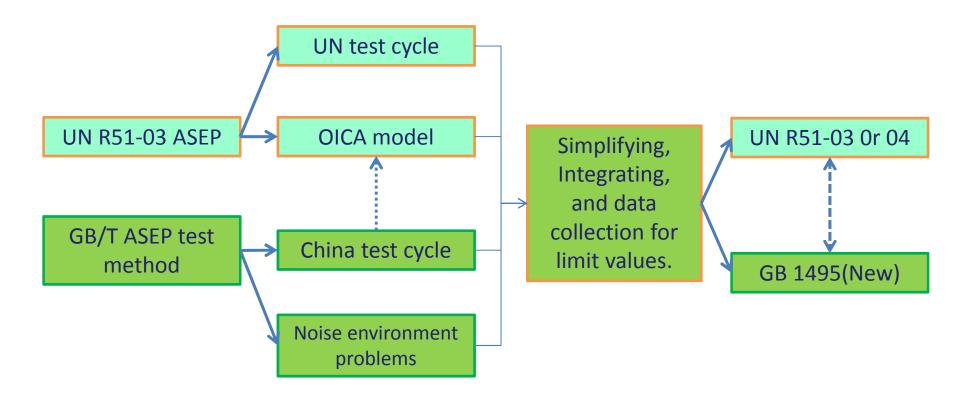
- -Stable noise (vehicle speed, engine speed).
- -Burst noise (engine acceleration, vehicle acceleration).

<sup>\*</sup> China try to find the vehicle behaviors behind the noise problems and simplify the test method during the summer of 2017. See document "ASEP-04-11".

## Technical plans on China ASEP



#### How to combine with UNECE



### Other issues

- Noise near the express way.
- Noise of commercial vehicles during the night (especially  $N_2$  and  $N_3$  categories).
- Electric vehicles (especially EV with high torque and M<sub>3</sub>).



#### National Automotive Standardization Technical Committee





Web site: www.catarc.org.cn

