

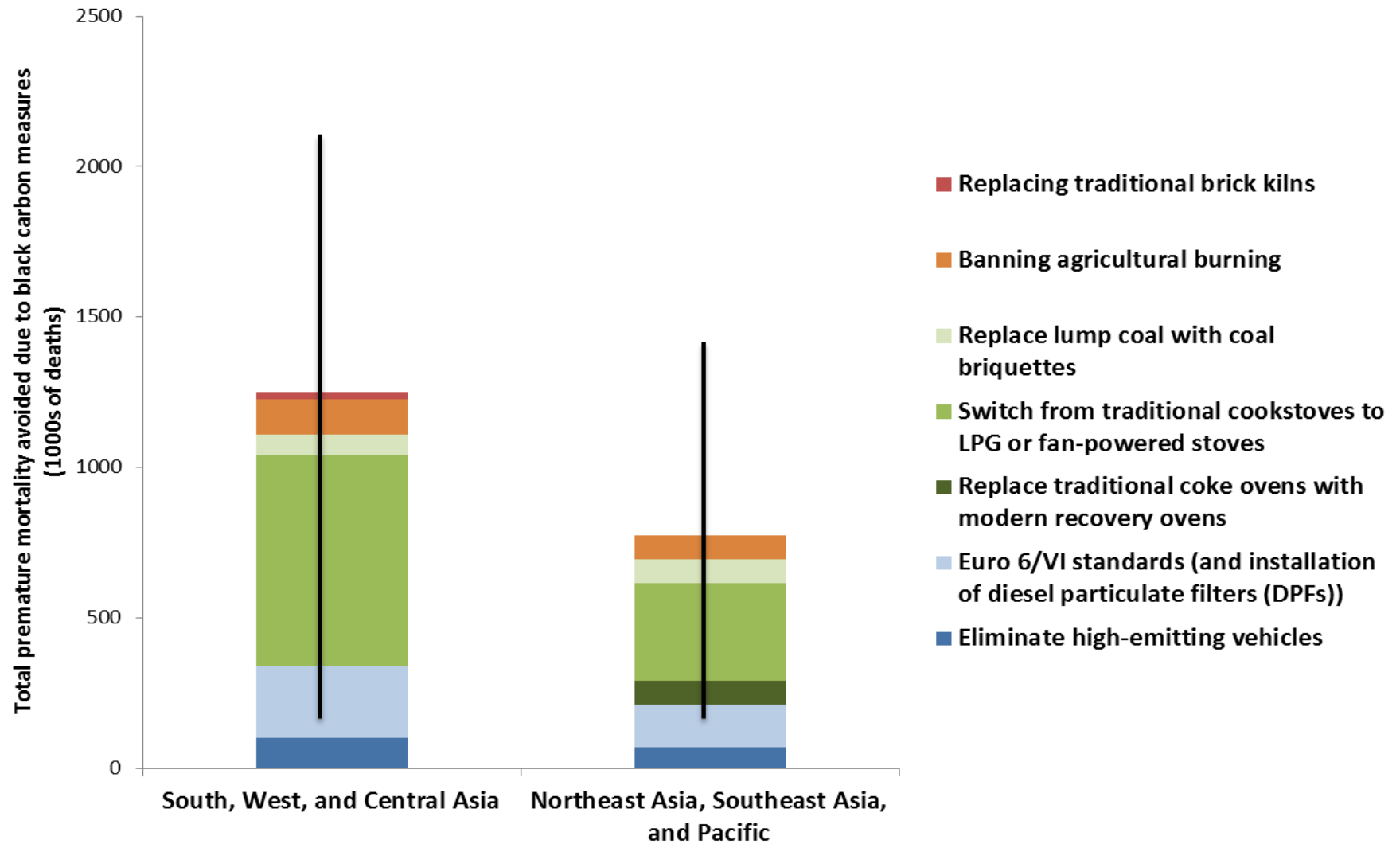
Tokyo's experience in Vehicle Emission Control

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Outline of my presentation

- ✓ Trends in air quality in Tokyo
- ✓ Diesel Control measures
 - ◆ Action no.1: Early supply of low sulfur diesel fuels
 - ◆ Action no.2: Putting into practical use and the spreading of PM reduction devices
 - ◆ Action no.3: Cooperation with Tokyo and three neighboring prefectures
- ✓ Key messages and way forward

Estimated Benefits of Mitigation Measures for Avoided Premature Mortality in Asia



Source: UNEP 2011

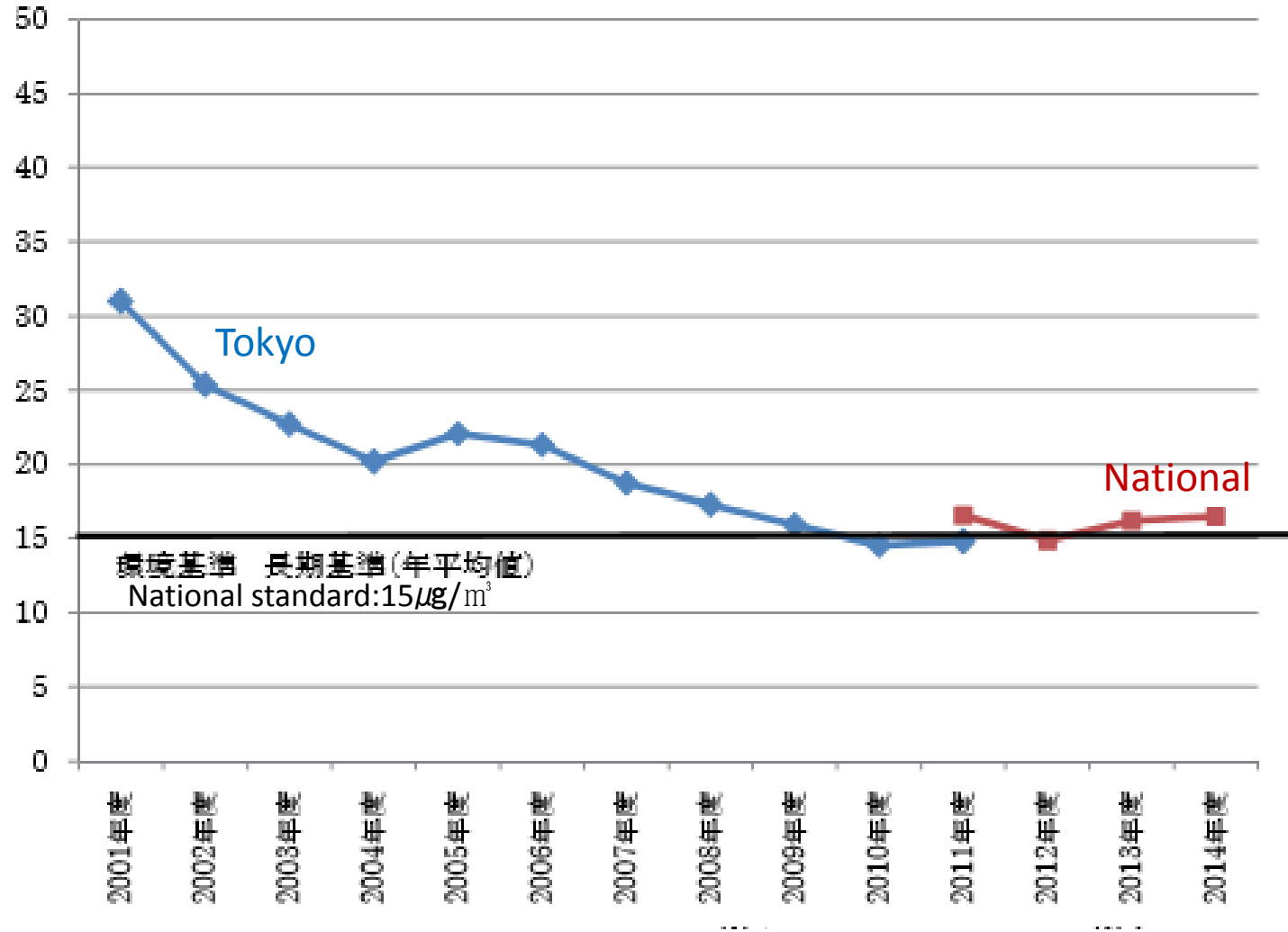
Tokyo in 1970-80s



Today



PM2.5 Yearly average concentration ($\mu\text{g}/\text{m}^3$)



Source: TMG 2015

Implementation of measures on Diesel Control

Year	Action
August, 1999	Tokyo Metropolitan Government (TMG) announced “ Say No to Diesel Vehicles “ Campaign
December, 2000	Tokyo Metropolitan Assembly adopted local in-use standard
September, 2002	“ Operation Dirty Diesel Sweep” started
October, 2003	Ban on non-compliance vehicles enforced in Tokyo Metropolitan Area



To implement the regulations,

All-out publicity campaign & Approach businesses to comply with ordinances

- ◆ Visit 4000 businesses to give guidance on the ordinance
- ◆ Send relevant information to 5.5 million people who owned diesel vehicles
- ◆ Visit 100 cargo owners to give instruction
- ◆ Conduct regulatory inspection

Regulations on the street by officers



Monitoring cameras (fixed)

Photographing of license plates



source: TMG 2011

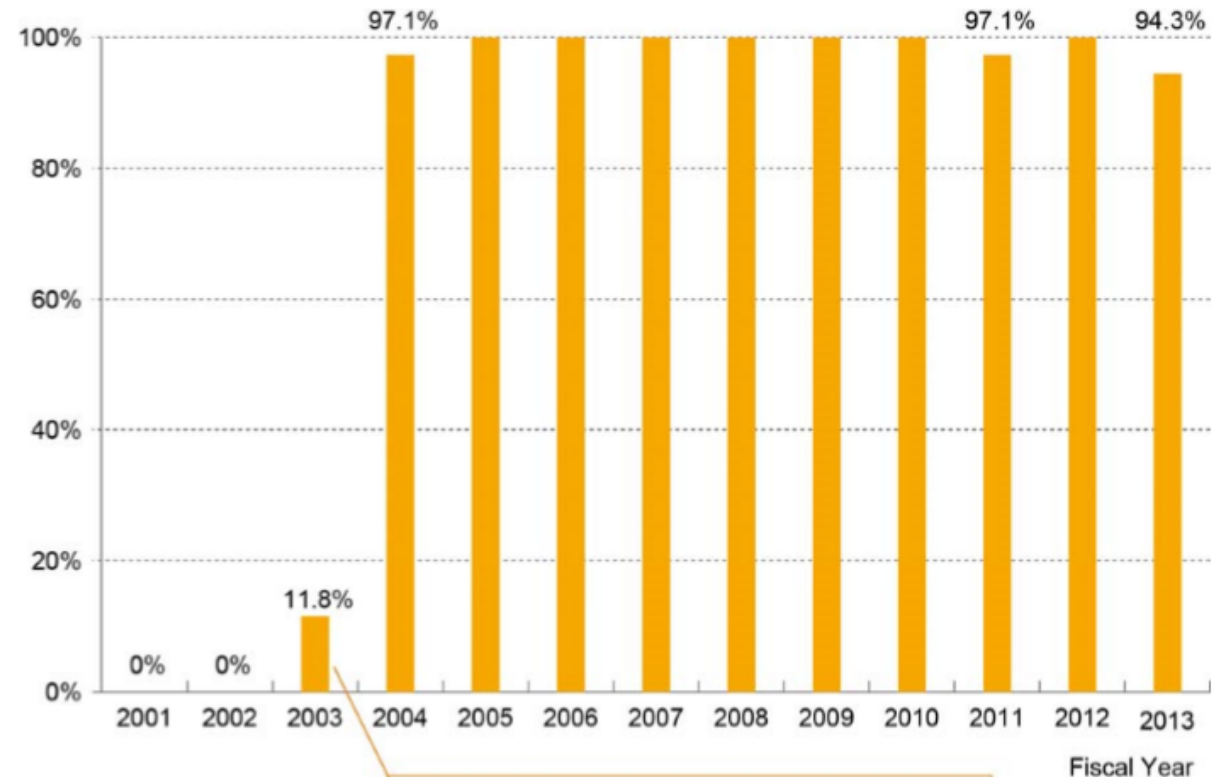
Diesel Emission Control

Three Key Actions:

- ◆ Action 1: Early supply of low sulfur diesel fuels
- ◆ Action 2: Putting into practical use and the spreading of PM reduction devices
- ◆ Action 3: Cooperation with Tokyo and three neighboring prefectures

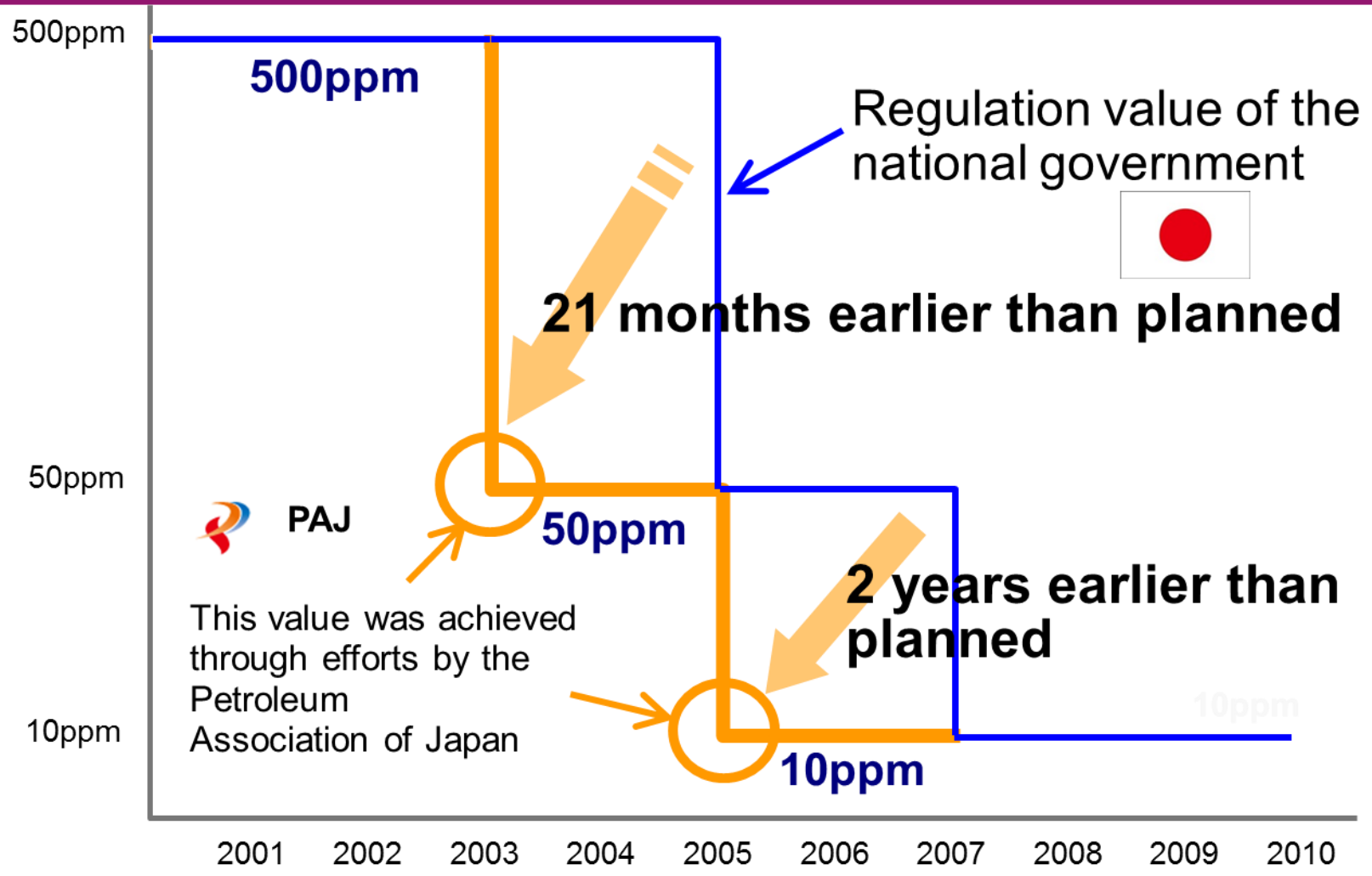
Achievement Ratio of Environmental Standards for SPM Concentrations at Roadside Air Pollution Monitoring Stations

(Source: TMG 2014⁵⁰)



Diesel vehicle regulation in Tokyo

Action 1: Early supply of low sulfur diesel fuels



Source: TMG 2015

Action 2: Putting into practical use and the spreading of PM reduction devices

- ◆ **PM Reduction Device Compliance Sticker to make it visible**
- ◆ **Support Programs for Diesel Vehicle Regulation**

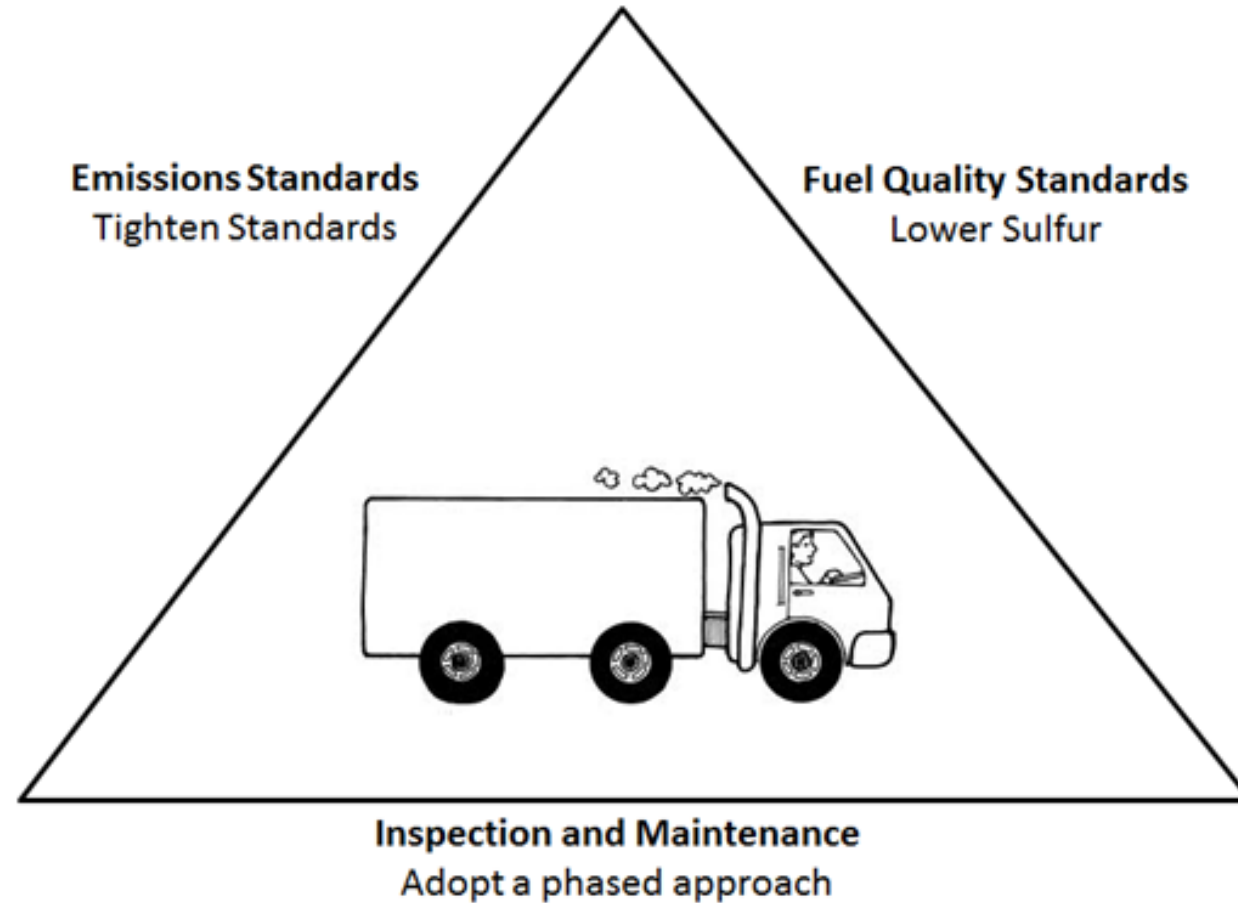


Action 3: Cooperation with three neighboring prefectures

The diesel vehicle control enforced in the **Greater Metropolitan Area with 34 million population**



Key message and way forward



Source : Zusman et al
2013

Thank you very much for your kind attention.

