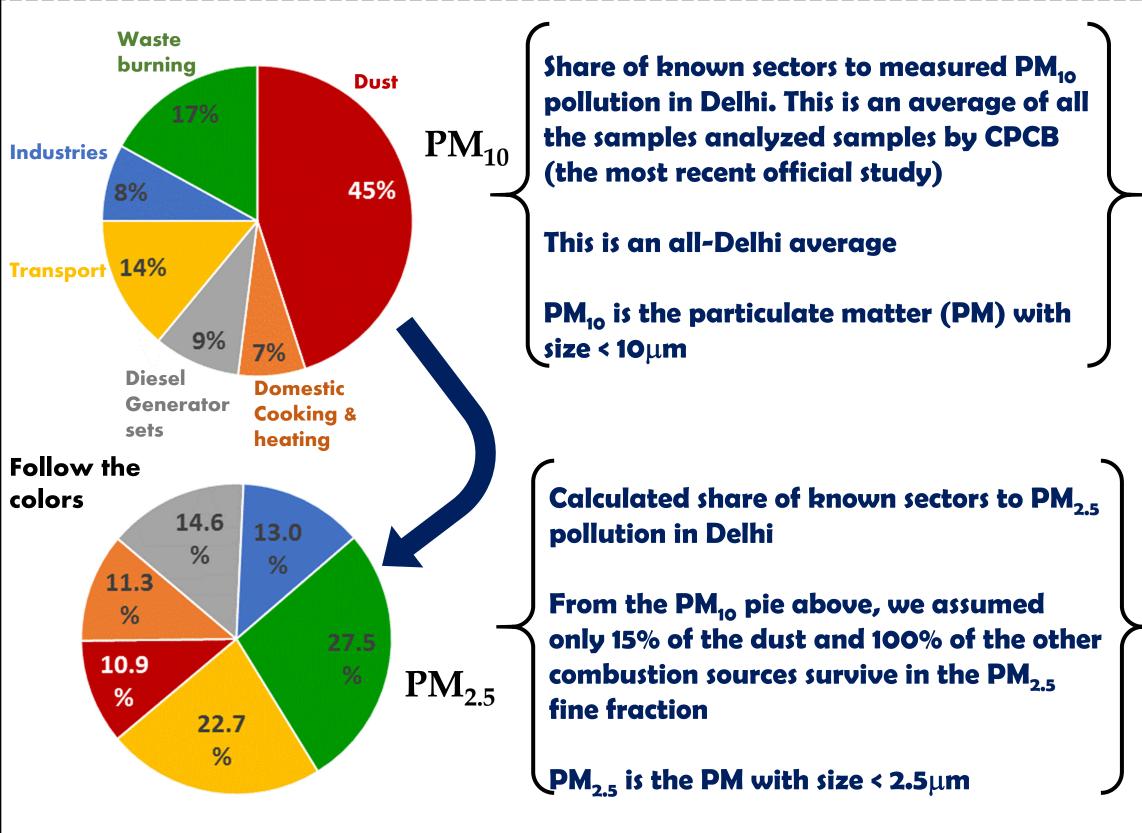
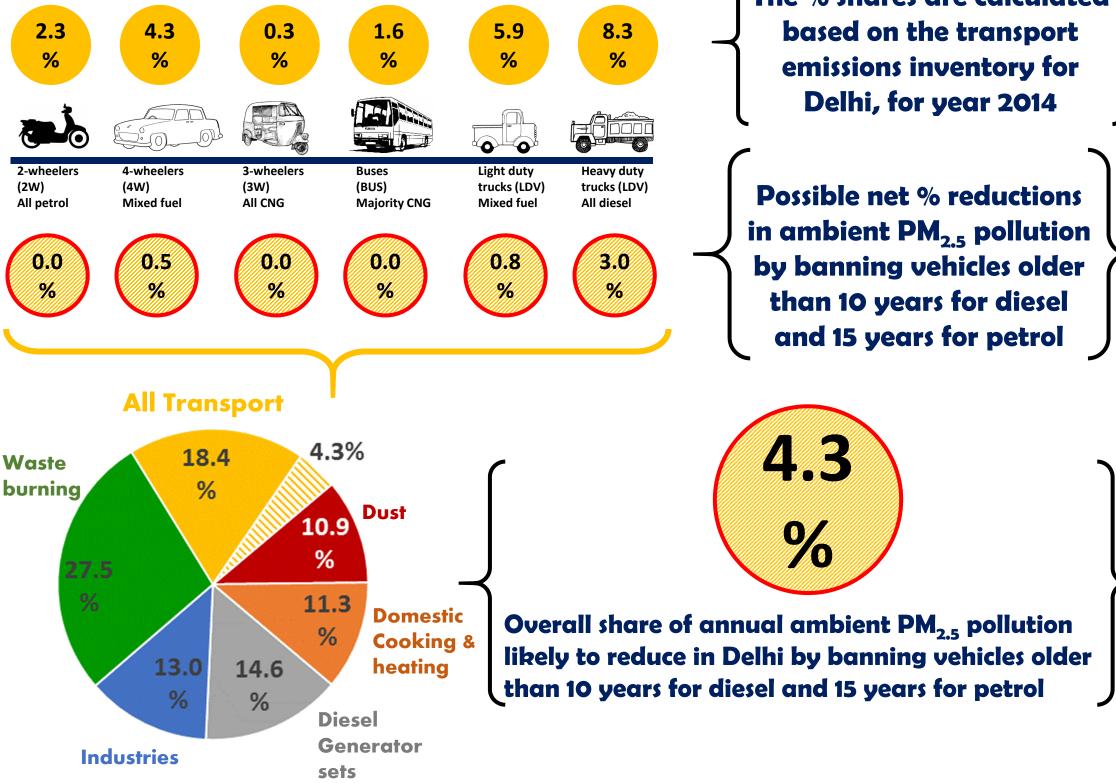
are we chasing the right vehicle in Delhi?

banning older vehicles in Delhi will provide some relief, depending on the level of enforcement. This is a start, however we should look for options across sectors for clean air.



Yellow is all Transport Contribution of vehicle types to the transport share (22.7%)





The % shares are calculated

options to control PM_{2.5} pollution (in numbers)

Overall reduction possible from the transport sector, if we leapfrog fuel standards to Bharat-6, nationally; in 10% addition to promoting public transport; safe walking and cycling infrastructure; and managing congestion

Overall reduction possible if no garbage is left behind 20% to burn along roads or in residential areas; and avoid all burning at landfills

Overall reduction possible if 24/7 power supply is 16% ensured in order to curb the usage of diesel generator sets (not accounting for pollution at the power plants) Ambient PM_{2.5} concentrations in 2014 averaged 150 μg/m³ (Source : DPCC stations)

Banning vehicles older than 10 years for diesel and 15 years for petrol, will drop this average to 143 µg/m³

The five at large interventions (to the left) will drop this average to 55 µg/m³ (National Standard = $40 \,\mu g/m^3$)



Overall reduction possible if emissions from the brick kilns are controlled and stringent efficiency norms are enforced for all industries



Overall reduction possible if cleaner alternatives like LPG and electricity are available for domestic cooking and heating (especially during the winter months)

This requires a coordinated effort between ministries, civic bodies, and public at the state and the national level.

Sources:

- CPCB source apportionment studies (2010) @ http://cpcb.nic.in/Source_Apportionment_Studies.php;
- Evolution of on-road vehicle exhaust emissions in Delhi (2015) @ http://www.sciencedirect.com/science/article/pii/S1352231015000680;



Send your questions and comments to simair@urbanemissions.info

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