

Pollution caused by transportation

(Agazi Tiumelissan)

CHALLENGES

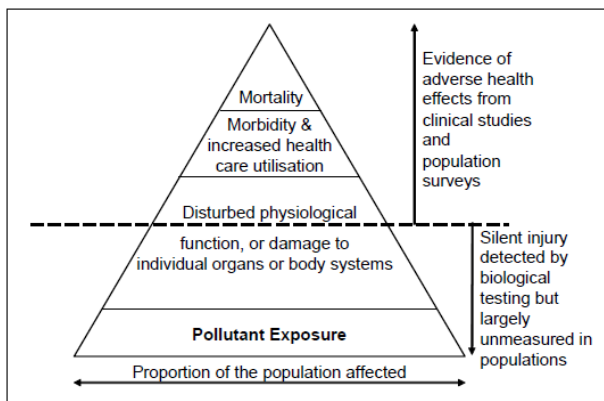
Global examples

- Carbon emission for the year 2013, 116 Mt CO₂ only surpassed by energy supply which was 178 (UK).
- Health problems (Acute Lower Respiratory Infection (ALRI), asthma and allergies, lung cancer, eye diseases, cardiovascular problem, etc)
- In London pollution kills about 10,000 people.
- Particle pollution/ Particulate matter (PM): small bits of metal and rubber
- PM causes heart and lung diseases and cause some cancer
- 15 of 20 cities in the world with high PM are in India
- Oxygen bars in Tokyo (showing extent of problem)

Addis Ababa

- Old cars
- Absence of binding guidelines and no enforcement authority for a better air quality standards and vehicular emissions
- Today lack of reliable emissions inventory and lack of consolidated data on measured impacts of air pollution in Addis Ababa are great challenges

The burden of ill-health caused by pollution



(Source: Hedley, 2009 p. 8)

Smog covered Addis Ababa



(Source: Kume 2009 p. 72)

POSSIBLE SOLUTIONS

Global examples

- Renewable energy sources for transportation (developed countries)
- Public transportation (developed countries)
- Congestion tax (London)
- Park and ride (UK)
- Increase in parking fees (Beijing),
- Tim Jackson: prosperity without growth: economics for a finite planet

Addis Ababa

- Developing parks and green areas
- The present air pollution policies of the city must be improved by setting a clear and practical vehicular emission policy
- Set age limits on importation of second hand vehicles
- Introduce proper vehicle maintenance and stringent inspection.
- Establish air quality monitoring stations.
- Non-motorised mode of transportation
- Light electric train
- Behaviour change - consumerism and showing off

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