

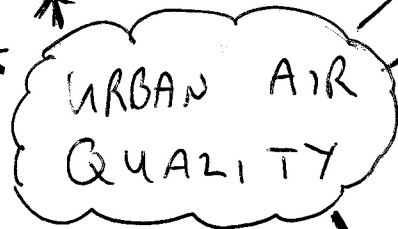
## WHAT AFFECTS IT?

- dust
- aerosols
- NO
- CO<sub>2</sub>
- SO<sub>2</sub>
- OZONE (O<sub>3</sub>)

(Particulates - microscopic solid + liquid matter - PM)

## WHERE

- all cities, worst in LIC or NEE cities eg BEIJING, MEXICO CITY
- But also - NIC cities: LONDON, LOS ANGELES



- LA and Mexico city both sit in basins which enhanced the effect.
- In both sunlight can cause a PHOTOCHEMICAL SMOG. A brown haze that causes breathing difficulties + deaths
- Car pollutants, NO, hydrocarbons, particulates are affected by sunlight to produce O<sub>3</sub>, NO<sub>2</sub>, CO and peroxyacetyl nitrate (PAN) which peaks in the afternoon
- Mexico city particulates 4x higher than any other W. hemisphere city

## CAUSES/SOURCES

- 3 Main.
- ROAD TRANSPORT
- INDUSTRY
- RAIL TRANSPORT also homes.

## WHAT / HOW / WHY

- SMOG, a combination of smoke and fog
- Especially in winter in anticyclonic conditions when fog forms in calm conditions and smoke is trapped by a temperature inversion.

- London 1952/53, 4000+ extra deaths of very old/very young caused by smog
- Clean air acts have reduce this since then.

## MEXICO CITY POLLUTION REDUCTION POLICIES

- car restrictions 1 day a week based on registration number.
- 2008 saturday driving restrictions
- More cars/taxis/uber used. ∴ Limited impact.
- PROAIRE plan since 1996
  - Ozone 500 ppb down to 140 ppb
  - gas replacing oil for ind + elect production
  - unleaded petrol, stricter emission codes and annual tests, CAT converters fitted
  - Expanded Metro, Mass transit systems
  - taxis and minibuses renovated