CEI presentation

Made by Group 2 members
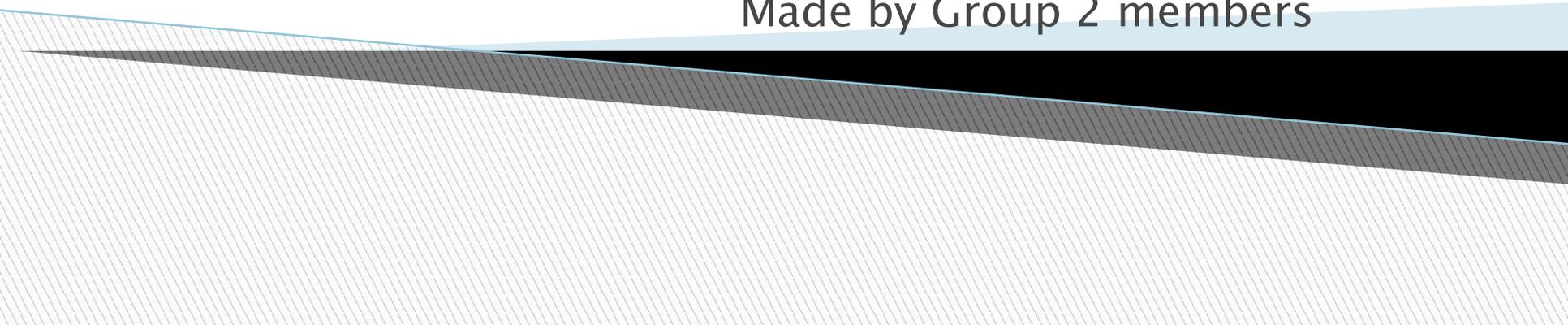
Background information of our investigation

Frequency: Once every 2 weeks

Duration of sampling:5 minutes for each
When: Wednesday 1:05pm

Where: The entering section of Po Tsui
        Park (open area)

   The centre part of Po Lam estate
        (crowded area)

Sampling points
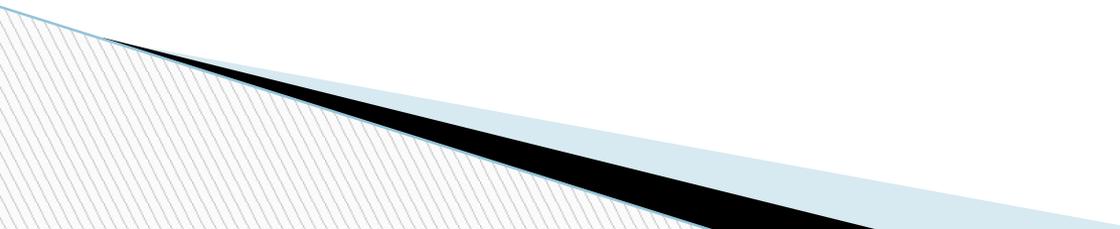
The value of our investigation

1. Raise public awareness about air pollution
   ☐ Short and long term consequences
   ☐ The current situation of air pollution
   ☐ The possible cause of air pollution

2. Persuade citizens to improve the air pollution problem by suggesting different solutions to them.
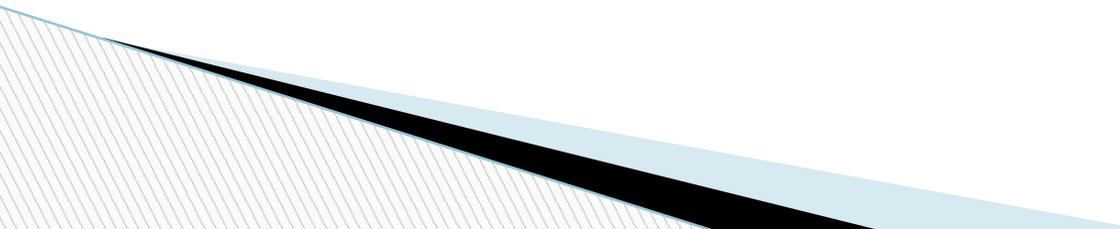
Open area
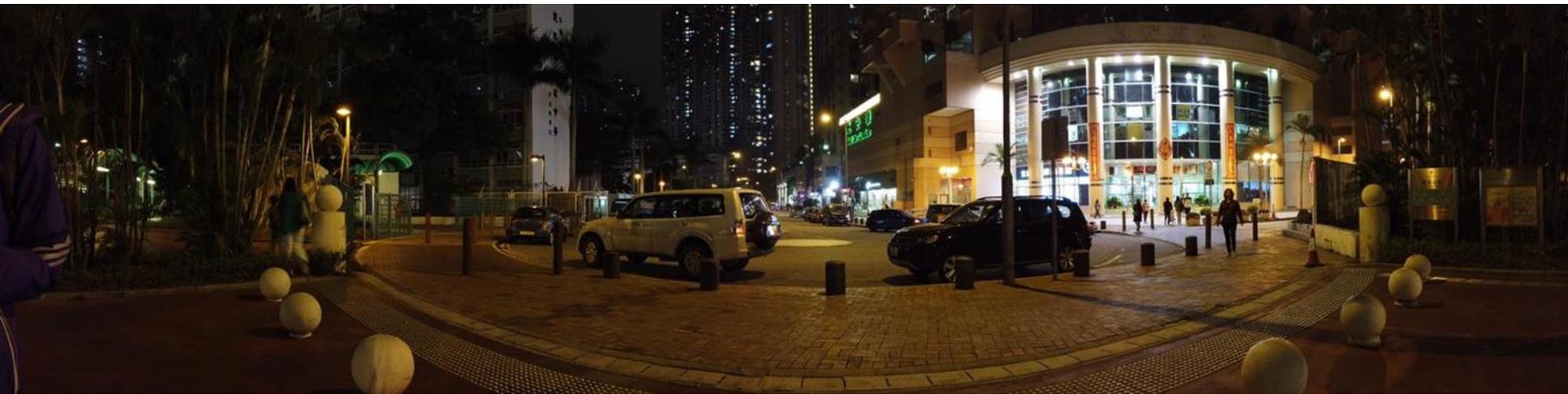
Crowded area
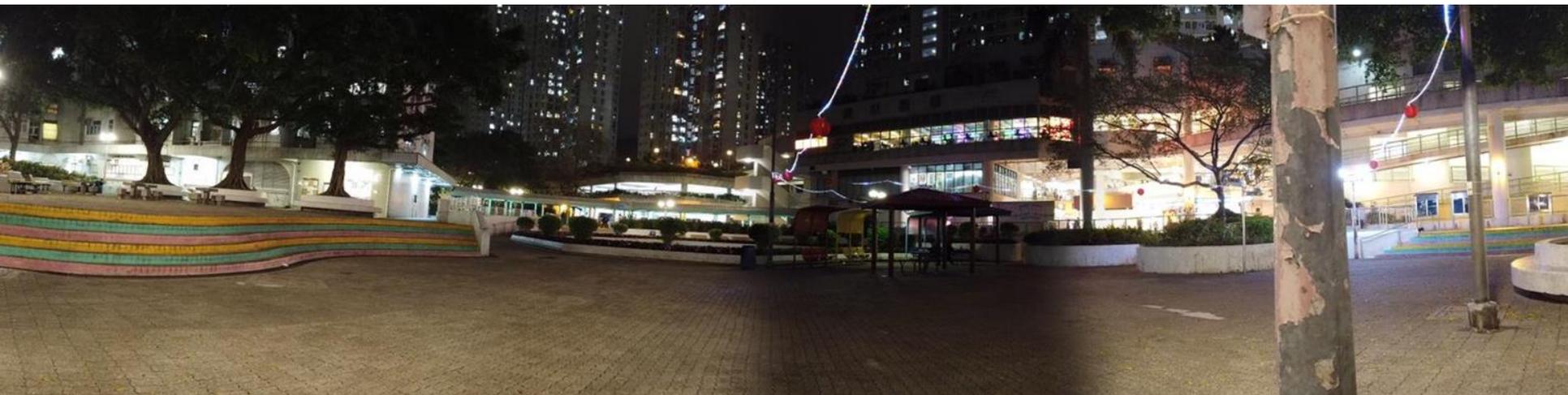
Po Tsui Park (open area)

? The density of building are lower
? There is a park behind
? Wind won't be blocked by buildings
? But sometimes there are cars stopped at the entrance of Po Tsui park
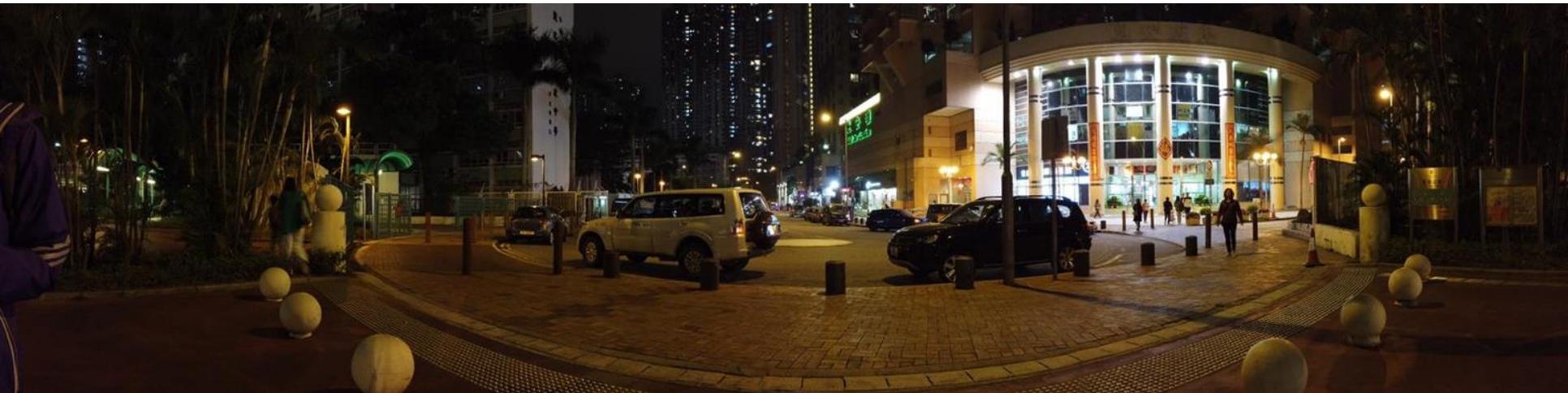
Po Lam Estate (crowded area)

? Surrounded by high density flats, poor air movement, so easy to accumulate air pollutants

? Vehicles on the roads around the estate and multi-storey car-park

Our hypothesis

The air quality in crowded area is worse than the air quality in open area

# How can we measure the air quality?

- By using Air quality index,risk factors of the pollution problem is measured,for example:
- PM10(Particulate matter <10pm)
- PM2.5(Particulate matter <10pm)
- Nitrogen oxides(NO2)
- Carbon monoxide(CO)
- Sulphur dioxide(SO2)
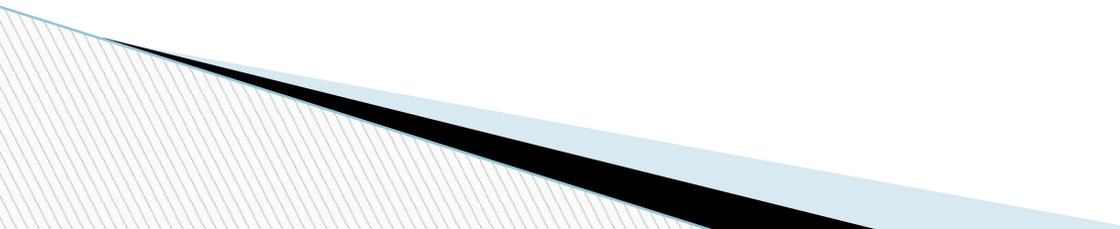
NO2 and SO2 results
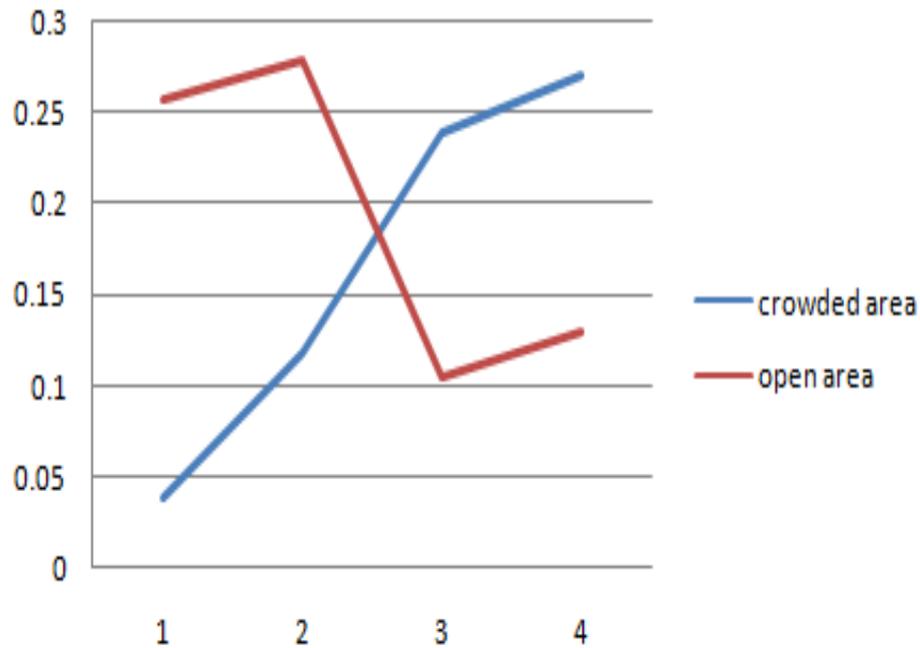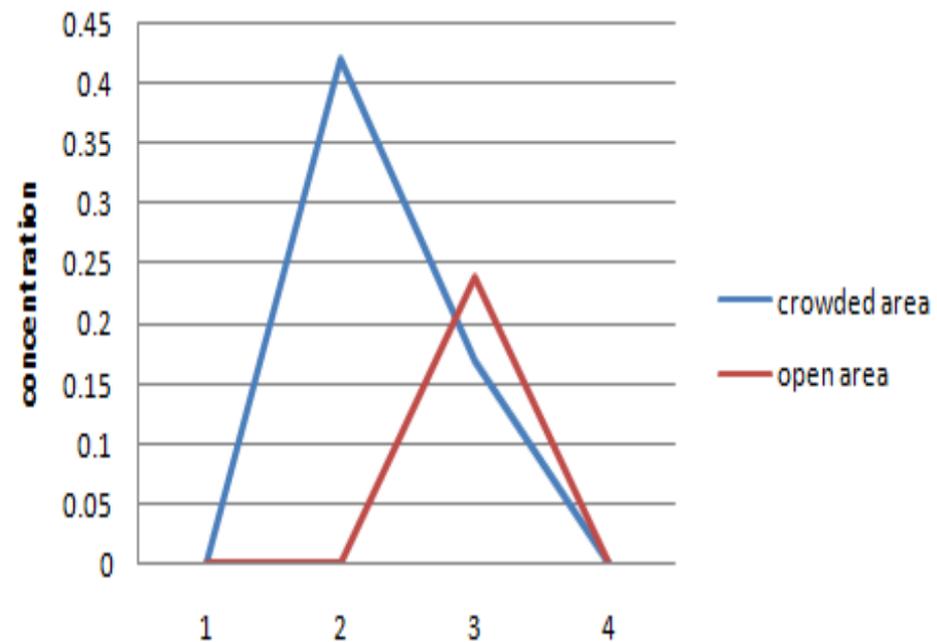
CO and O3 results
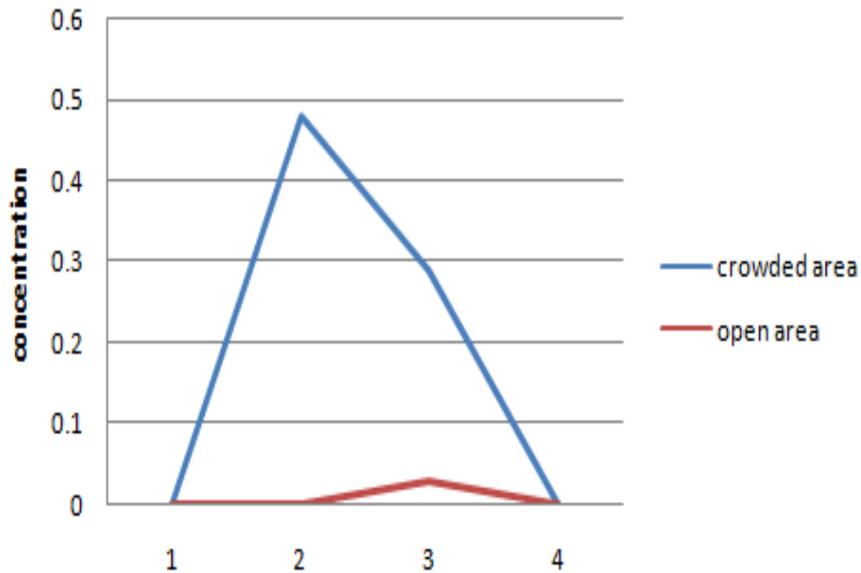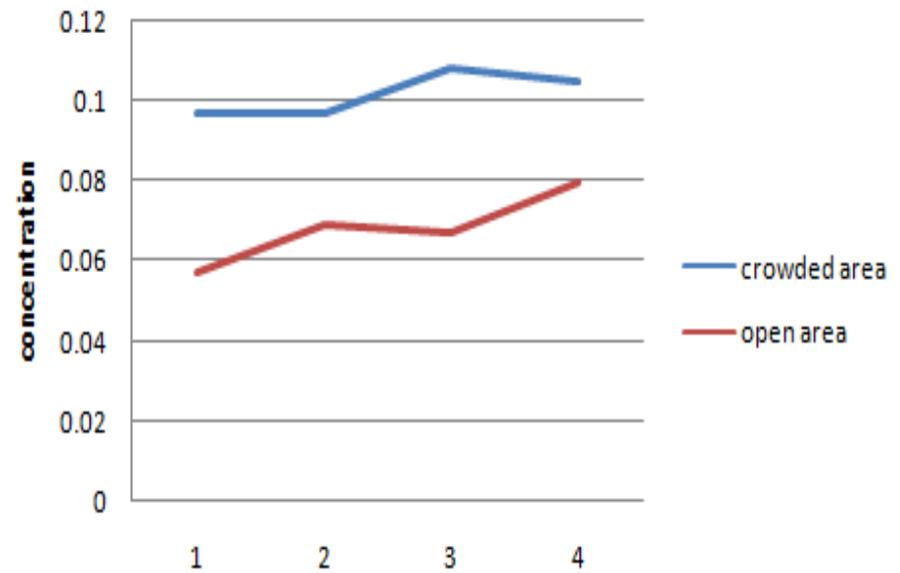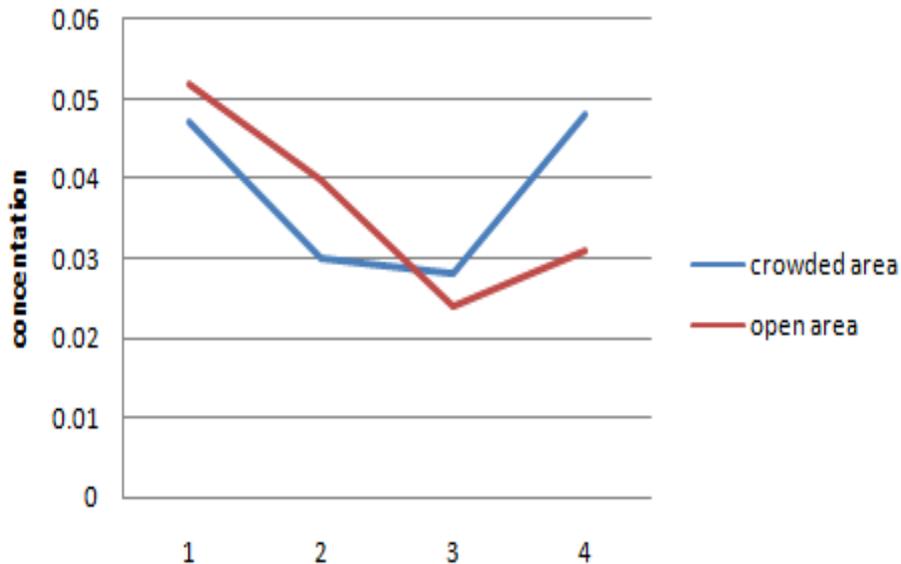
PM2.5 and PM10 results
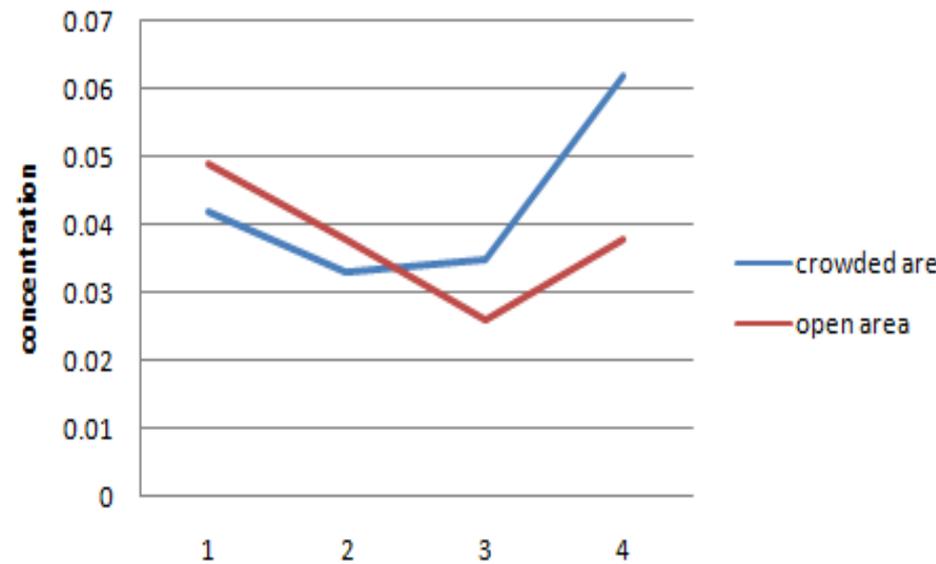
average concentration(rounded up by 3 digits)
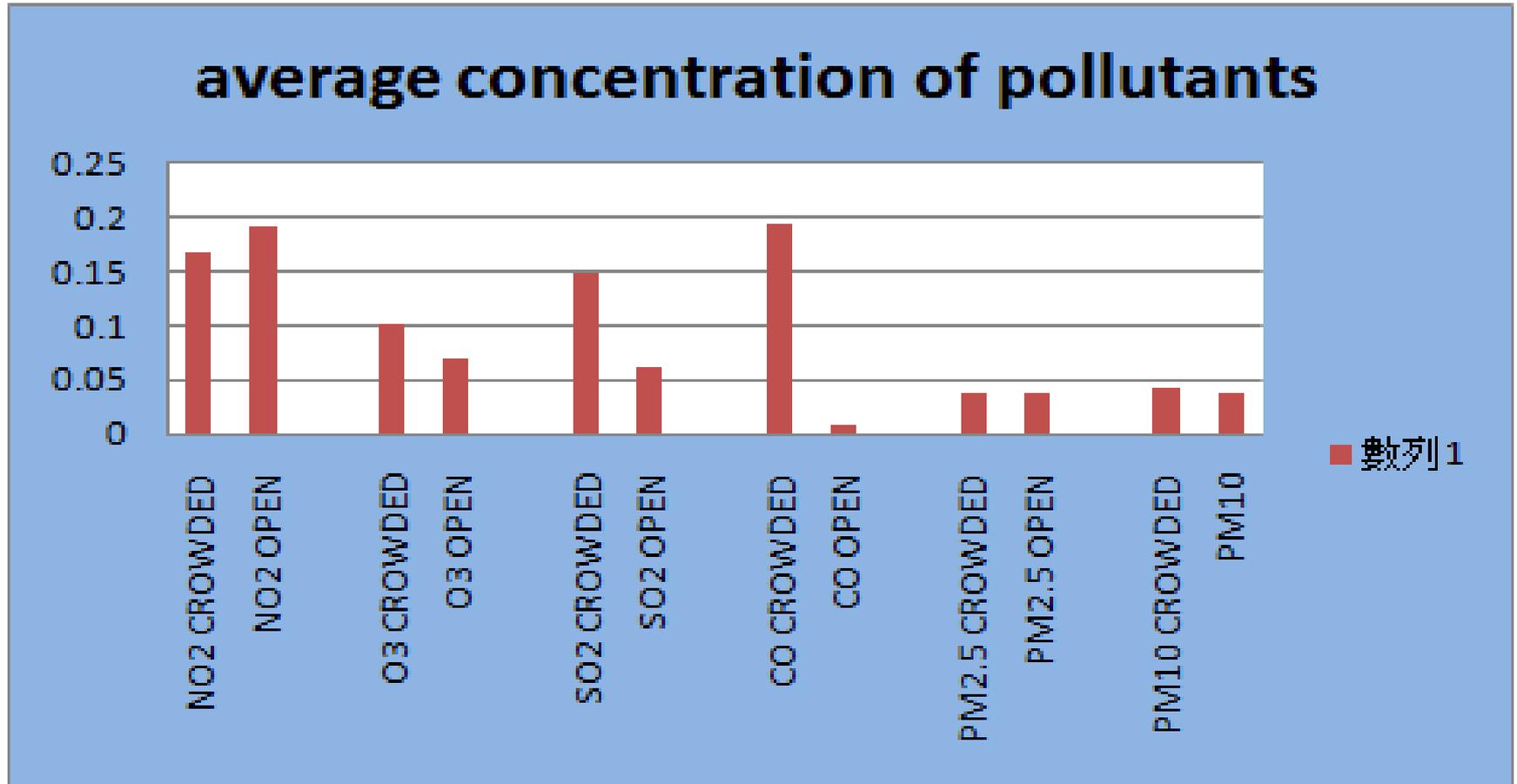
Analysis

? The amount of elements measured in crowded area are higher then open area except NO2 and PM2.5 .

Is our hypothesis appropriate the result?

Accepted
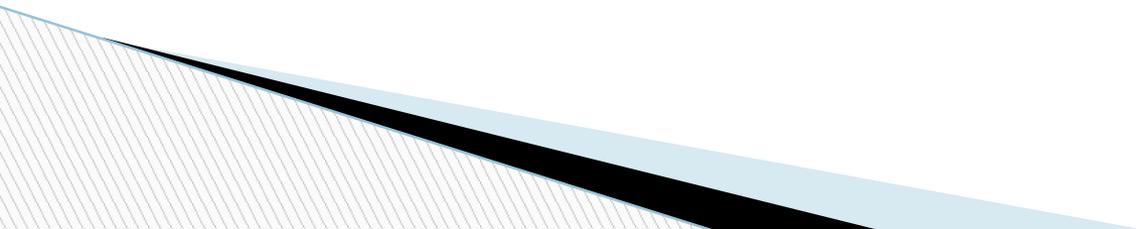
Solutions of air pollution

As government:
    Slowly eliminate petrol cars and replace them by electric cars.
    Build more chargers for electric cars

For ordinary citizens:
- Avoid using transport in short journeys