BMI706 Visualization  I I deas	Project / Five	Design Sheet	Methodology By Chen Dong
D US Map.		Intensity	
Distribution Count of for each pollutant	Quantity	0-0	county  ared by Pollutant
3) Time series line plot for each pollutart	Quantity (	Use	year Multiple Selecti

# Layout

Select Year: 1020A

Select Area: 0 State
0 County

Select pollutant: 10 PM2:5]

Total

# Task.

- View Us map of specific pollutant in certain year in region of choice.

### Operations

- select year, region and pollutent.
- mouse hover to see value

+:-clear map ven

- 1 - no trend view

# Design II

Lajort.

Select pollutant IXPM2.5

Select year 12013;2014

Select county Isuffolk, Norfolk)

Duantity

Task

- View individual pollutant's distribution by year and county

Operation

- select pollutat, year, county
- hover mouse to see specific value

t: - clear distribution of pollutarit of multiple years and country

- no comparision of years on country

Pesign II

Lajout

Select Country IN Suffolk

Select Pollutant IN PM215

Quantity

Select Pollutant IN 020ne

Auantity

Jean

Year

Task

- View pollutant trend across years of specific country

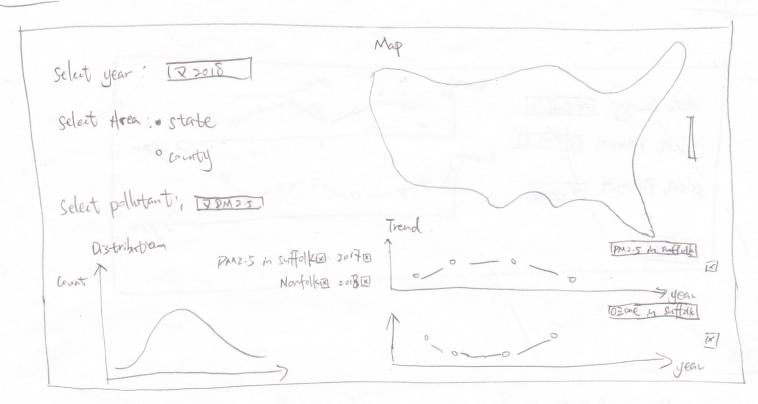
Operation 1

- select pollutant, county
- add another trend line plot
- monse hover to see specific value

t: - compare trends of deferent pollutants

-: - no view of multiple counties

Layout



#### Details

- combine previous three designs
- morse hover on the map to show distribution of the pollutant in that beginn
  - morse dick to lock in distribution and add a trend plot of that pollutant across years in the region.
- clickingmultiple regions or years of the same pollutant adds the distribution to previous distribution.
- subtract the distribution by dicking &