*Dataset Description*

# Description:

* **Size of the dataset:** 9357 instances
* **Number of attributes:** 15 attributes
* **Name and type of attributes:**
  + 1. Date (Date) --- > Nominal
    2. Time (Time) --- > Nominal
    3. CO(GT) (Gas Concentration in mg/m^3) --- > Continuous
    4. PT08.S1(CO) (Sensor CO concentration) --- > Continuous
    5. NMHC(GT) (Non-Methane Hydrocarbons concentration) --- > Continuous
    6. C6H6(GT) (Benzene concentration in μg/m^3) --- > Continuous
    7. PT08.S2(NMHC) (Sensor NMHC concentration) --- > Continuous
    8. NOx (GT) (Nitrogen Oxides concentration) --- > Continuous
    9. PT08.S3(NOx) (Sensor NOx concentration) --- > Continuous
    10. NO2(GT) (Nitrogen Dioxide concentration) --- > Continuous
    11. PT08.S4(NO2) (Sensor NO2 concentration) --- > Continuous
    12. PT08.S5(O3) (Sensor Ozone concentration) --- > Continuous
    13. T (Temperature in °C) --- > Continuous
    14. RH (Relative Humidity in %) --- > Continuous
    15. AH (Absolute Humidity) --- > Continuous
* **Number of attributes according to types:**
  + - 1. Qualitative (Nominal): 2
      2. Quantitative (Continuous): 13

# Potential data mining application:

This dataset could be used for **predictive modeling** in air quality monitoring systems. For example, a regression model could predict pollutant concentrations based on sensor data to alert the public about air quality conditions. This would be useful in health-risk assessment applications, especially in urban areas where pollution levels can vary significantly throughout the day.