

Group Name: DDS: Dust of Data Science.

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### Group Project Part 1: Data Set

Recently in Korea, there has been a rise of issue regarding the rising level of fine dusts. Some say that the cause of such phenomenon is due to the influence of China, and others say that it is from the increase in the coal usage. There are many rising debates regarding this issue and our group intends to get on this underlying cause using the sets of data we have found. Our main set of data comprises of  $\mu\text{g}/\text{m}^3$  of fine dust level in Korea from 2010 to 2014 found from KOSIS, Korean Statistical Information Service. With that data as our benchmark, we would like to relate different suspects of factors such as the level of coal production and sales from 1995 to 2013 in Korea, Co2 emission level from automatic vehicles from 1996 to 2012 in Korea, ratio of registered vehicles to population from 2003 to 2014 in Korea, number of registered driver's license holders from 1962 to 2014 in Korea, number of bicycle facilities from 2011 to 2013 in Korea, levels of spending in transportation fees per homes from 2005 to 2014 in Korea, and lastly, number of visits in hospitals of doctor's offices from 2009 to 2013 in Korea. From these data sets we have found, we would like to see what factors are the most relevant to this phenomenon and infer what potential actions the government should implement to qualify the effects of rising level of fine dusts in Korea.