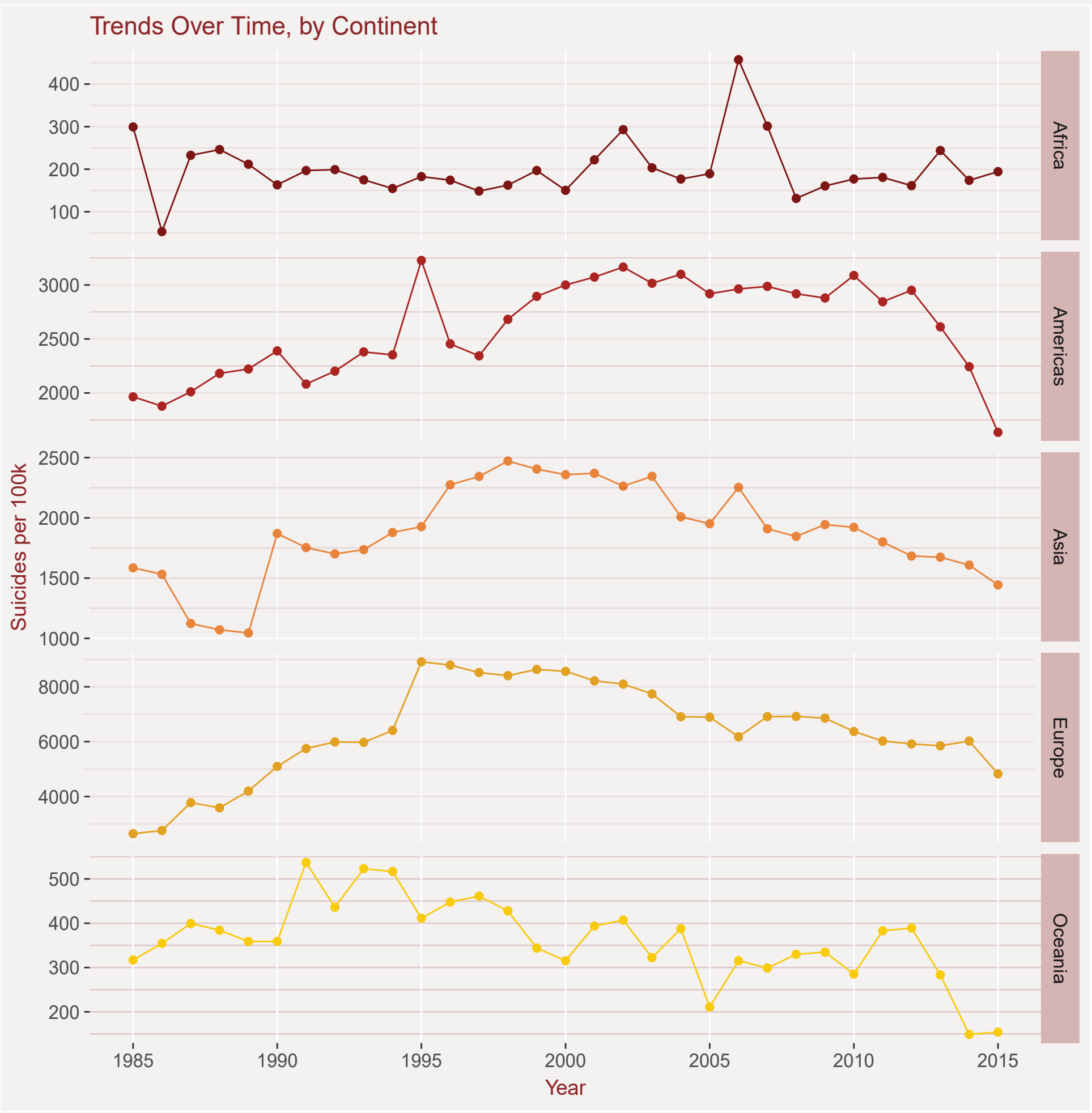# 30 YEARS OF GLOBAL SUICIDE ANALYSIS
From 1985 to 2015

Suicide is becoming a major public health problem and a leading cause of death all over the world.
This study focus on finding the correlation between gdp and suicide rate, and which group of person are more likely to suicide globally.

Governments who want to establish their own national suicide prevention strategy;
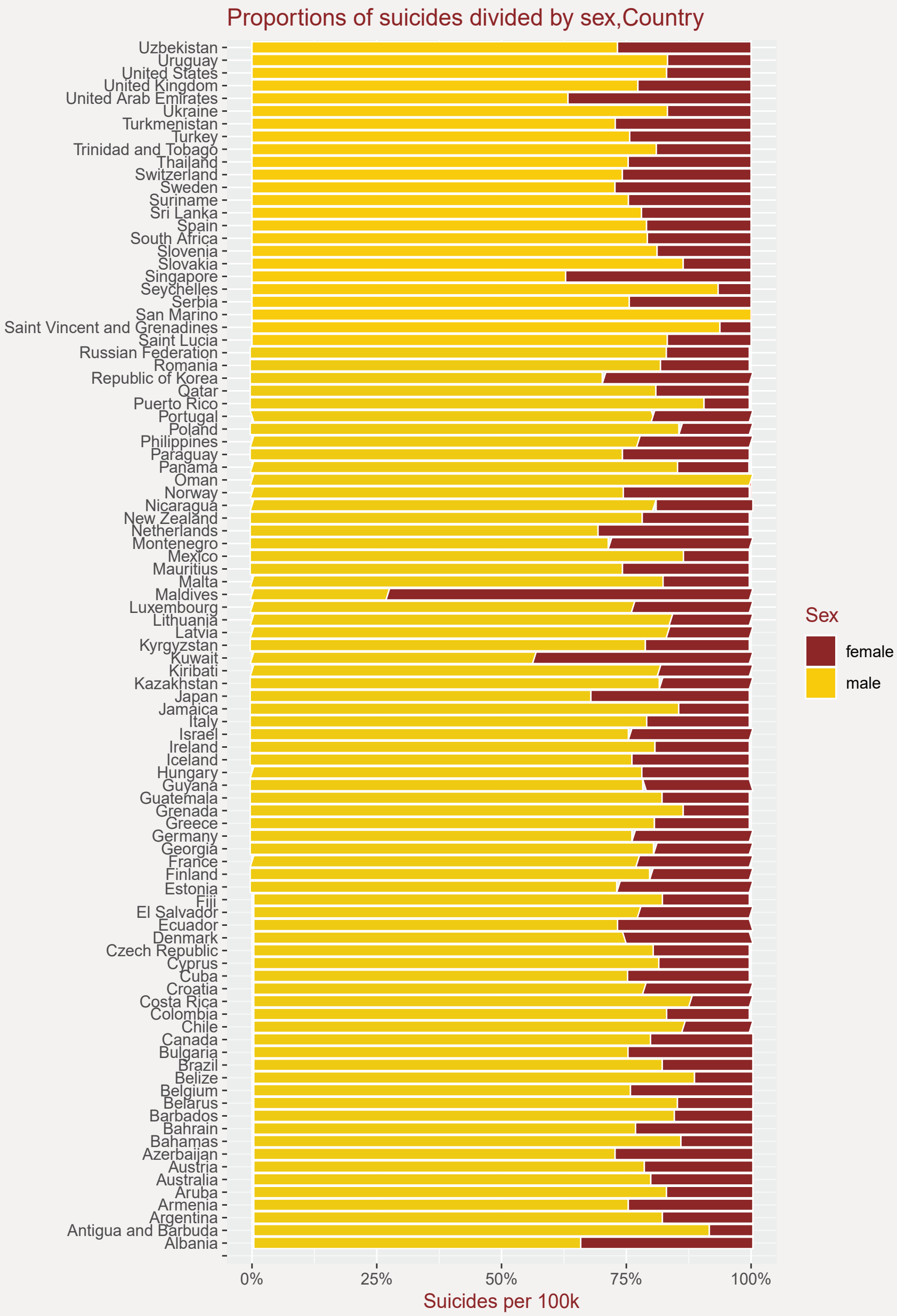World health organizations who want to prevent suicide.

Author: Mengru Xu
Class: IST719 M001 Information Visulation
Date: April 4.2019

What is the global suicide trend?
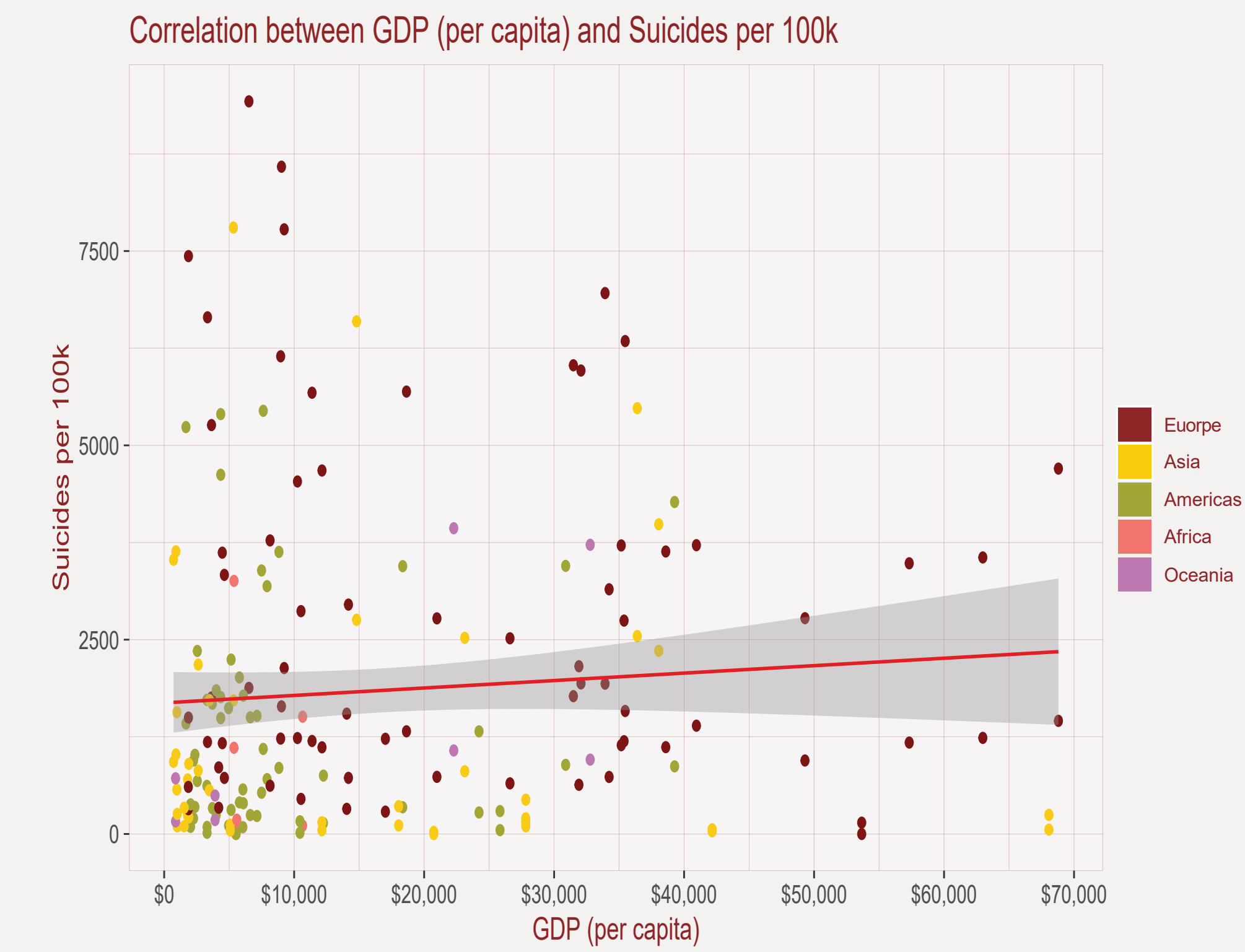

Trends Over Time, by Continent

Overall, global suicide number of per 100k population is decreasing.
But with the number of population keep increasing, suicide is still one of the most important reason for abnormal death.
Also, Americas has the most suicide number,while Africa has the least.

Is the gender effect suicide rate?

Proportions of suicides divided by sex,Country

Is the GDP has correlation with suicide rate?

Correlation between GDP (per capita) and Suicides per 100k

Data Destribution

Suicide

Every points means a country.

Country of Continent

Age

The plot shows the distribution of suicide number by age.
The number is grouped by country first than age.The group function is sum.

About Data

Description: The initial data have 27820 rows and 12 variables. For analysis, I remove the country with less than 3 years data,and removed three columns which contains more than 2/3 Null, the continent data is added for analysis as well.
During the analysis process, the suicide number and gdp data are aggregated by age,gender,country and continent.
Source: The data used for analysis is from kaggle,Rusty"Suicide Rates Overvies 1985 to 2016."
R-Packages: readxl, dplyr, countrycode, tidyverse, ggplot2, ggalt, rworldmap, broom, rcolorbrewer