

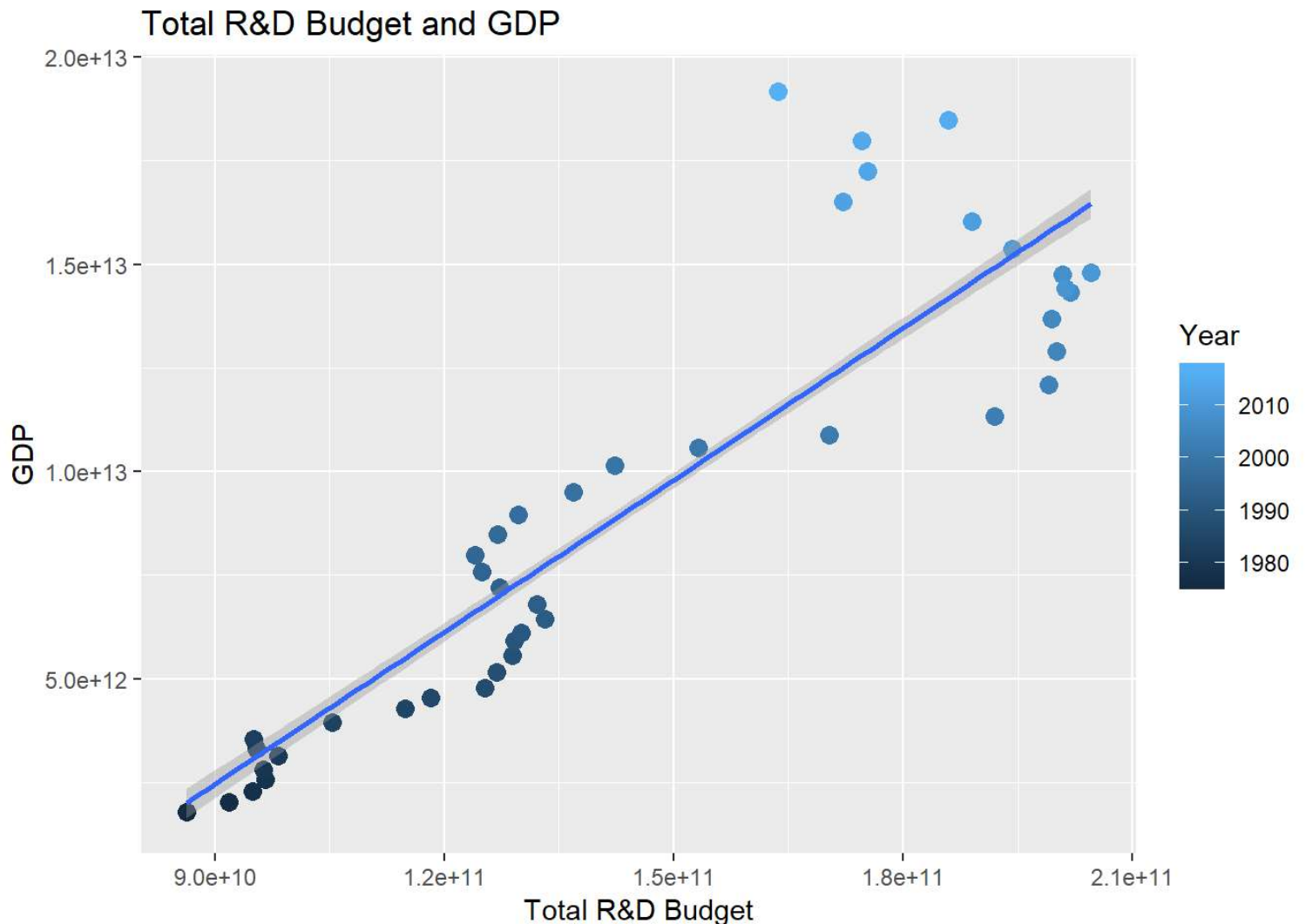
# R Assignment Report

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## Fed R&D Data

### Total R&D Budget and GDP



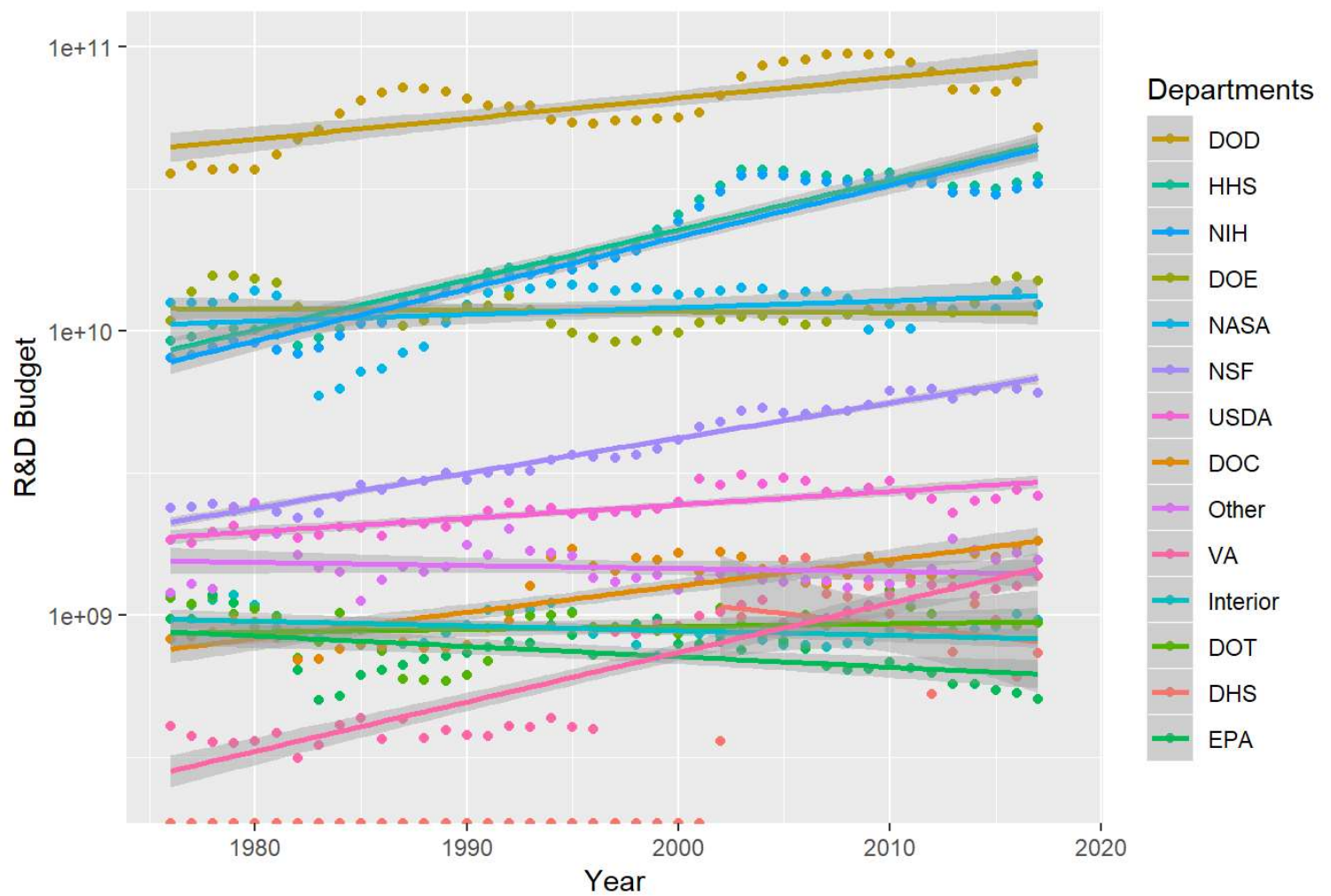
The graph shows that the relationship between R&D Budget and GDP is positive, which indicates the investment in R&D may promote the growth of GDP.

Also, we can see the GDP and Total R&D Budget are increasing over time.

### R&D Budgets in Different Departments

How much are the R&D budgets in different department? Are R&D budgets increasing as time goes by?

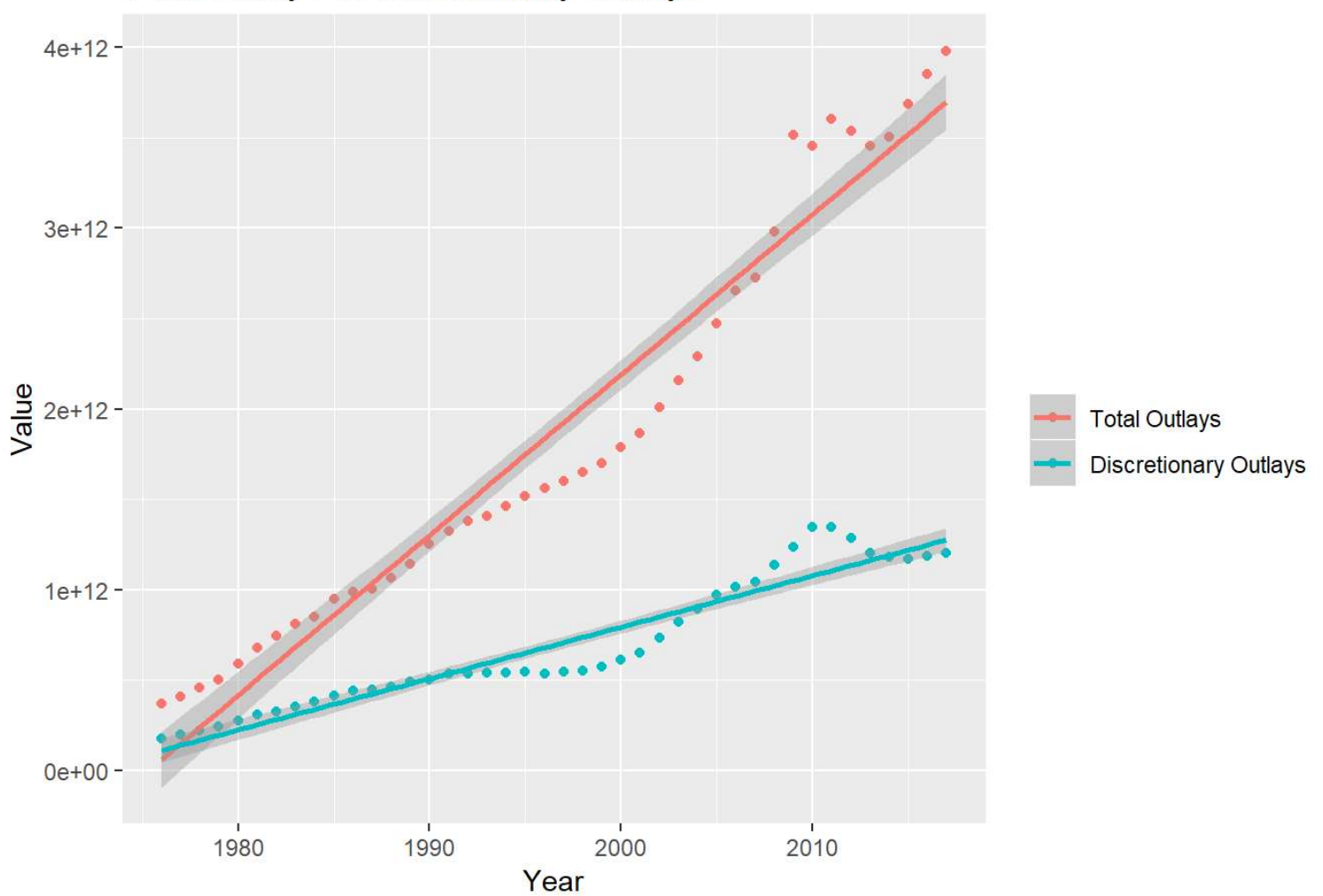
## R&D in Different Departments



As we can see, not all departments have increasing R&D budgets over time. And the Department of Defense has the highest the R&D budgets all the time.

## Discretionary Outlays and Total Outlays

Total Outlays vs Discretionary Outlays

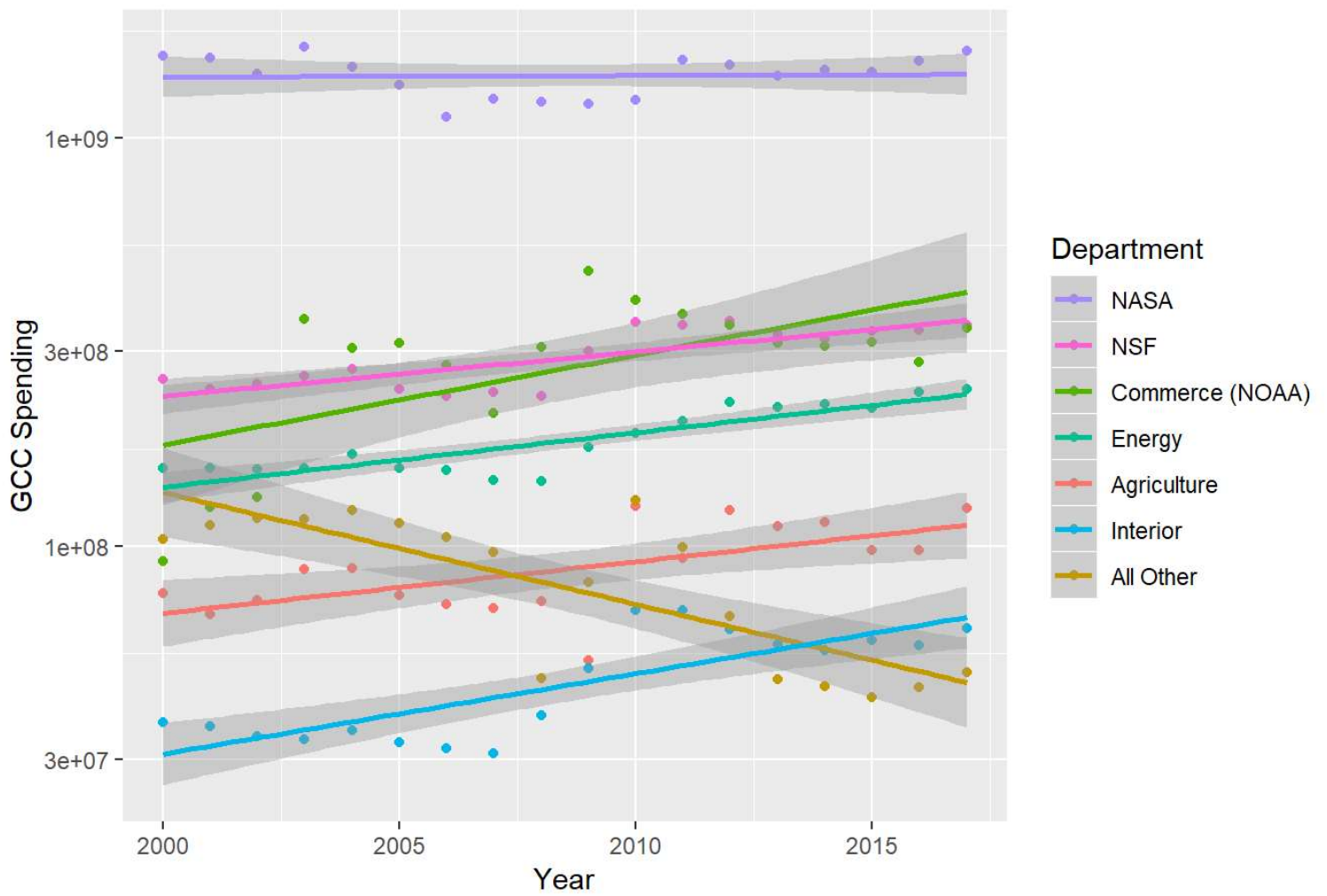


Generally, both total outlays and discretionary outlays are increasing over time. And the growth rate of total outlays is larger than the discretionary outlays.

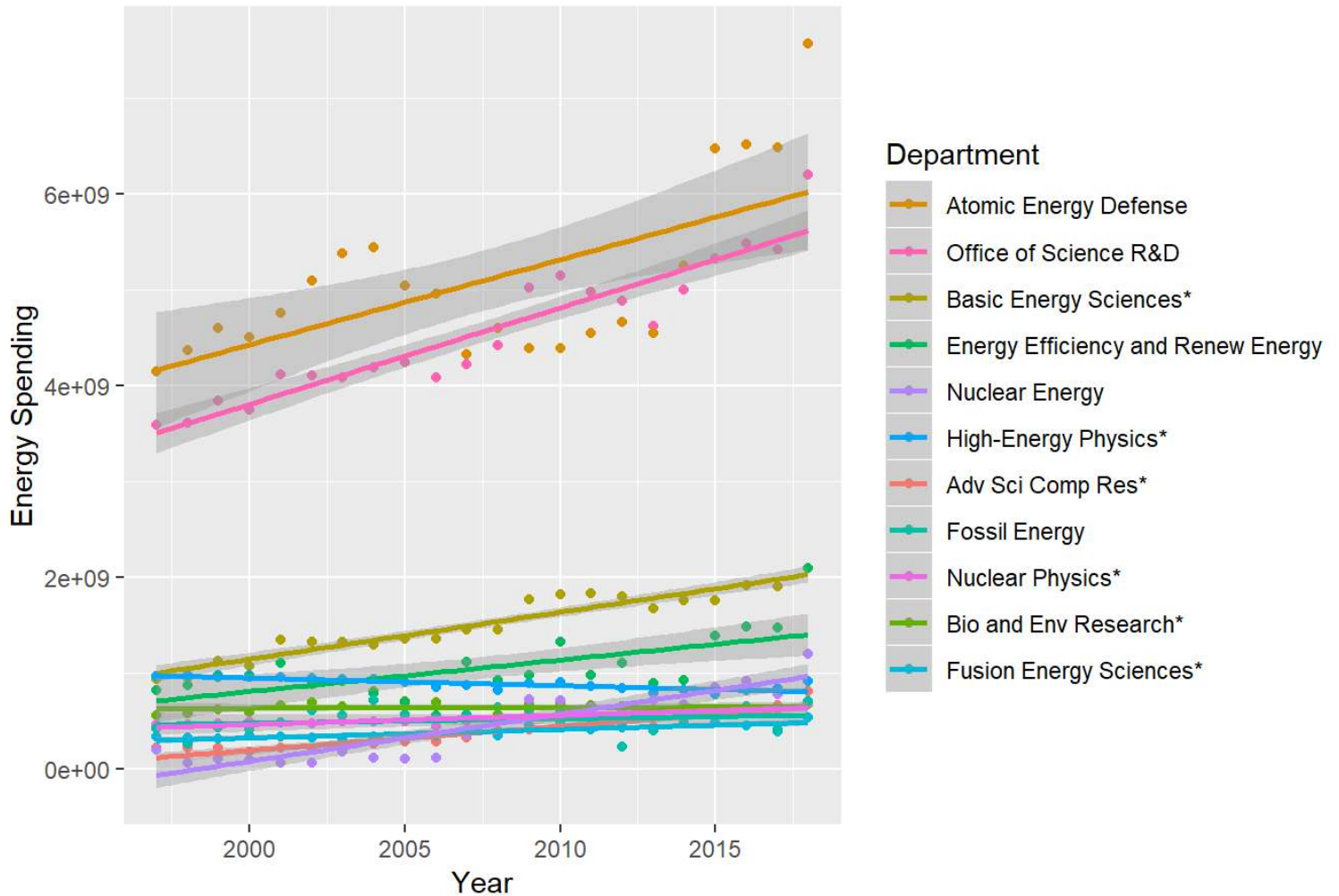
## Climate and Energy Spendings Data

### GCC and Energy Spendings Summary

# GCC Spendings Over Time

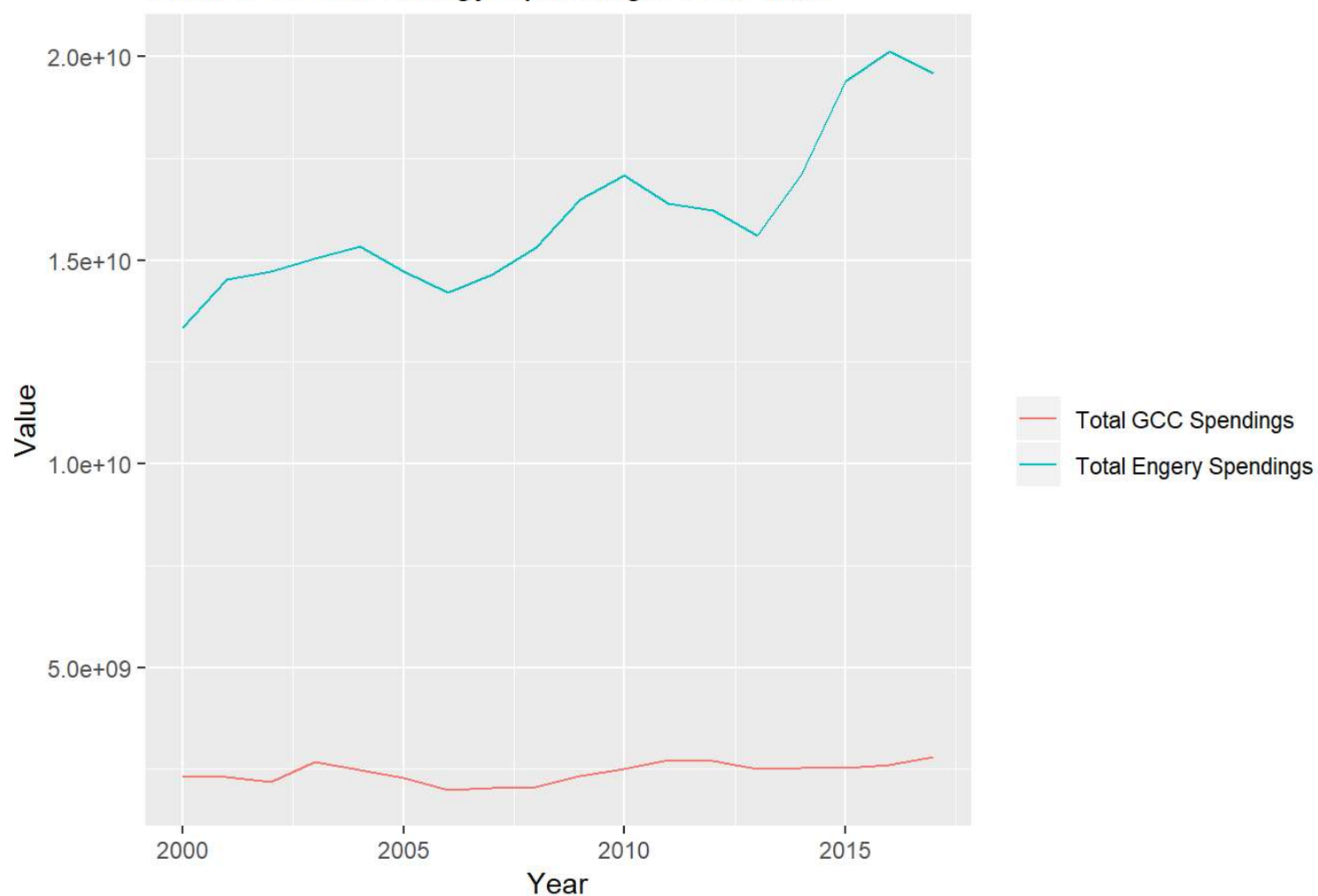


# Energy Spendings Over Time

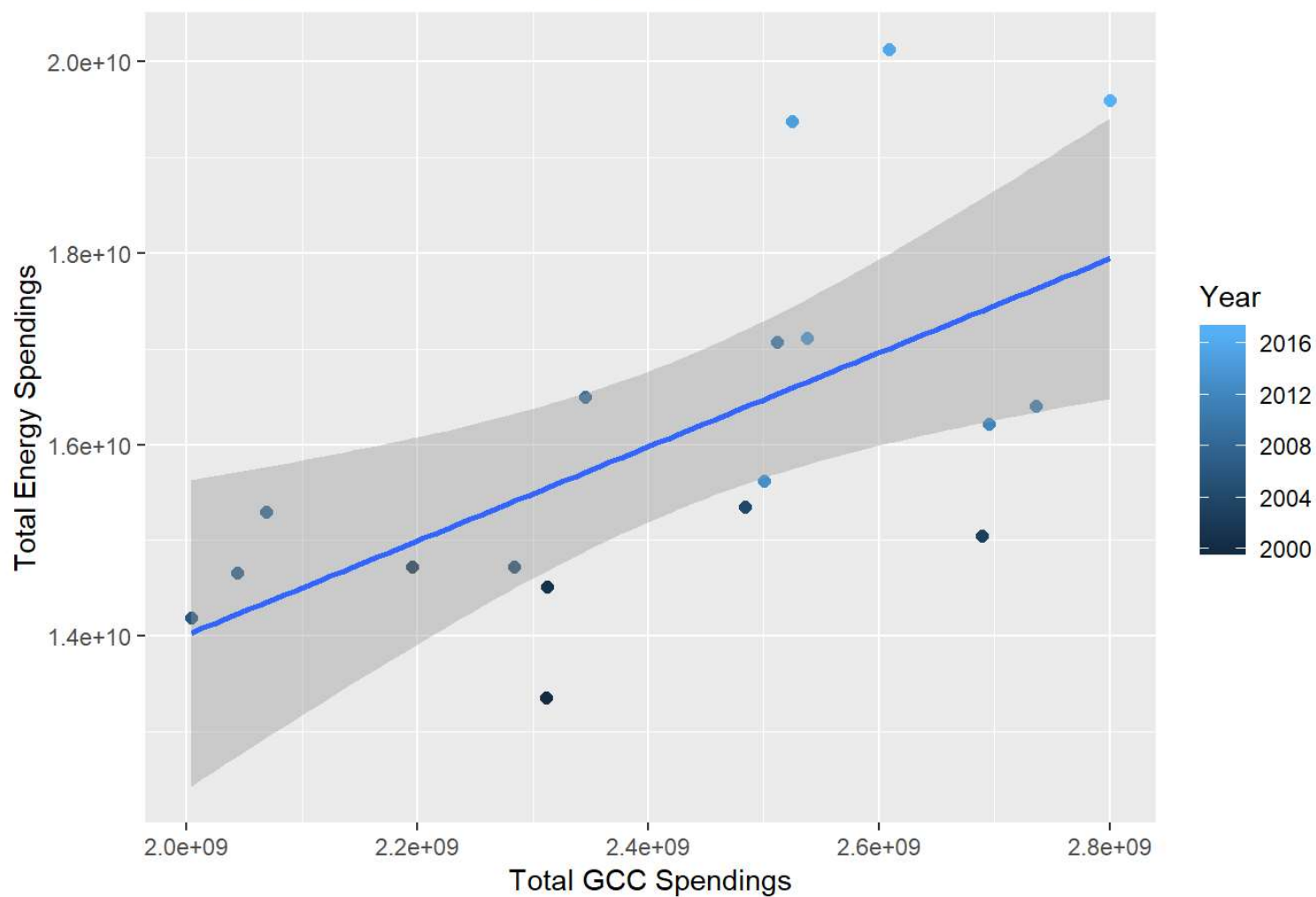


What is the relationship between climate spendings and energy Spendings?

### Total GCC and Energy Spendings Over Time



### Energy Spendings Vs GCC Spendings



The GCC spending may have positive relationship with energy spending. But it needs hypothesis test to prove it.