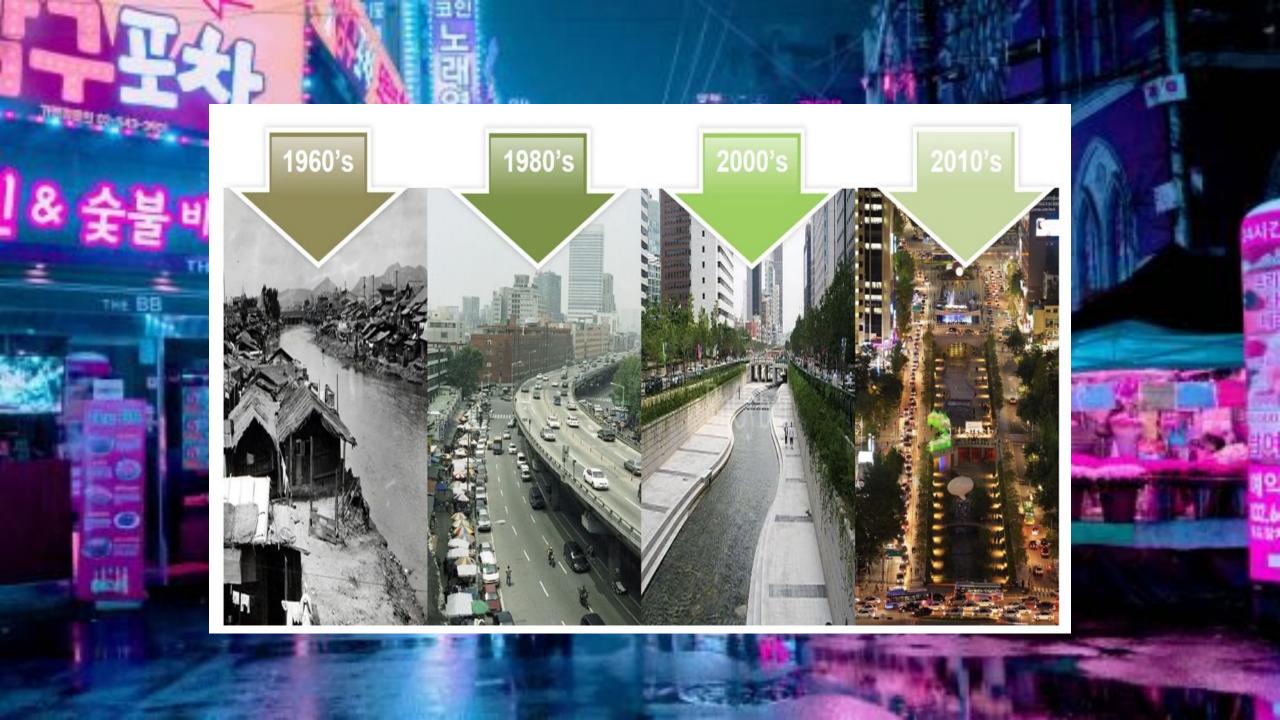


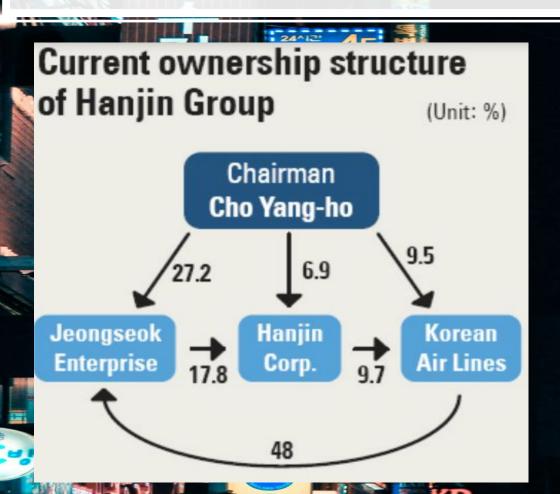
Regression Analysis of the Chaebol Dominance effect determining South Korean Economic Growth from 1974 to 2018.

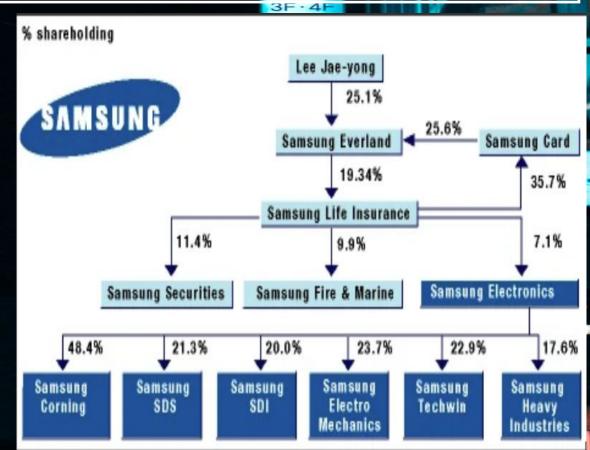
**Adolfo Artola Madrigal** 



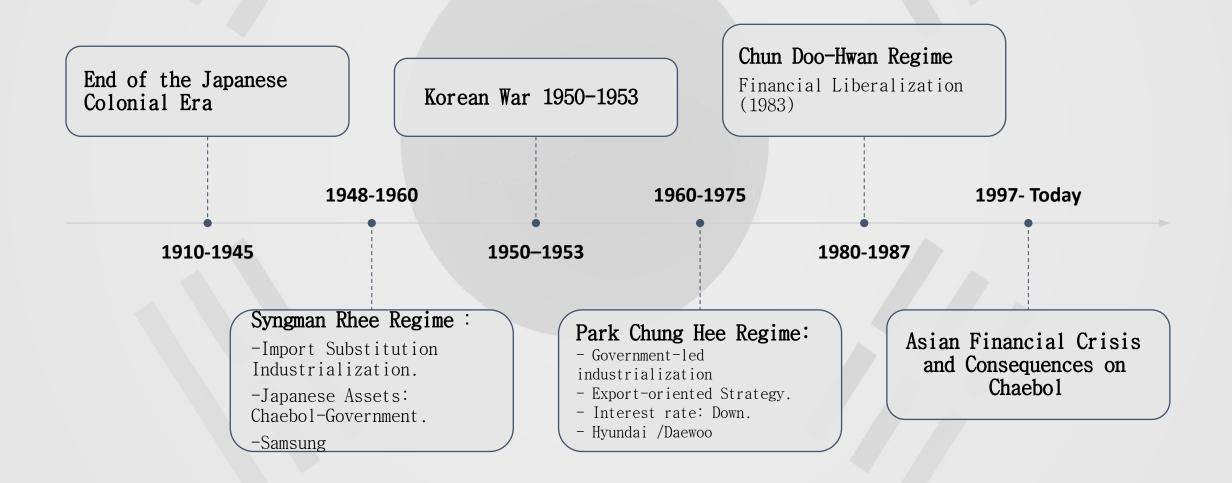


A chaebol is a large, family-owned South Korean conglomerate, typically with diverse subsidiaries, significant political influence and centralized control.





# Literature Review: Government-Chaebol Relationship

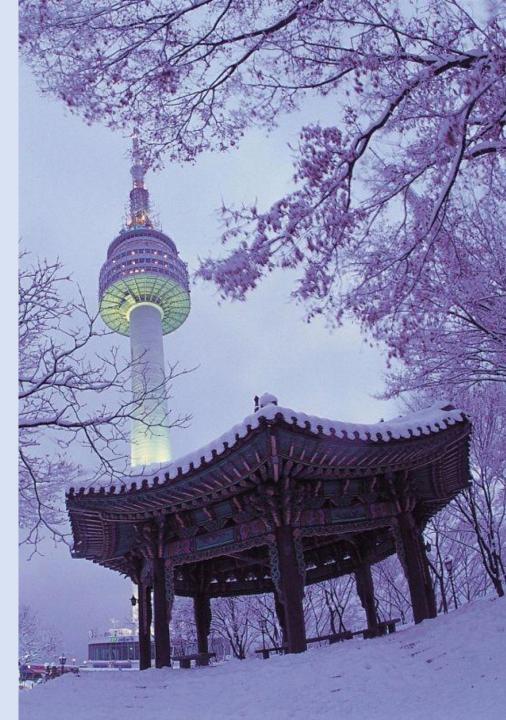


# Methodology

Variables	Measures
Economic Growth	GDP (constant LCU)
Chaebol Dominance	Combined Annual Sales of Korean
	business groups whose sales ≥ than 50
	billion Korean Won expressed in
Government expenditure on Education	Constant LCU Expressed as (% of the Korean GDP)
Exports of Goods and Services	Expressed as Constant LCU Wons
Education Expenditure	Expressed as Constant LCU Wons
Population Annual Growth	Expressed as Yearly Total Population
	World Bank Development Indicators, Korean Statistical

Source:

Information System, Myung Hun Kang (1996)



#### Model

Korean Economic Growth (GDP Annual

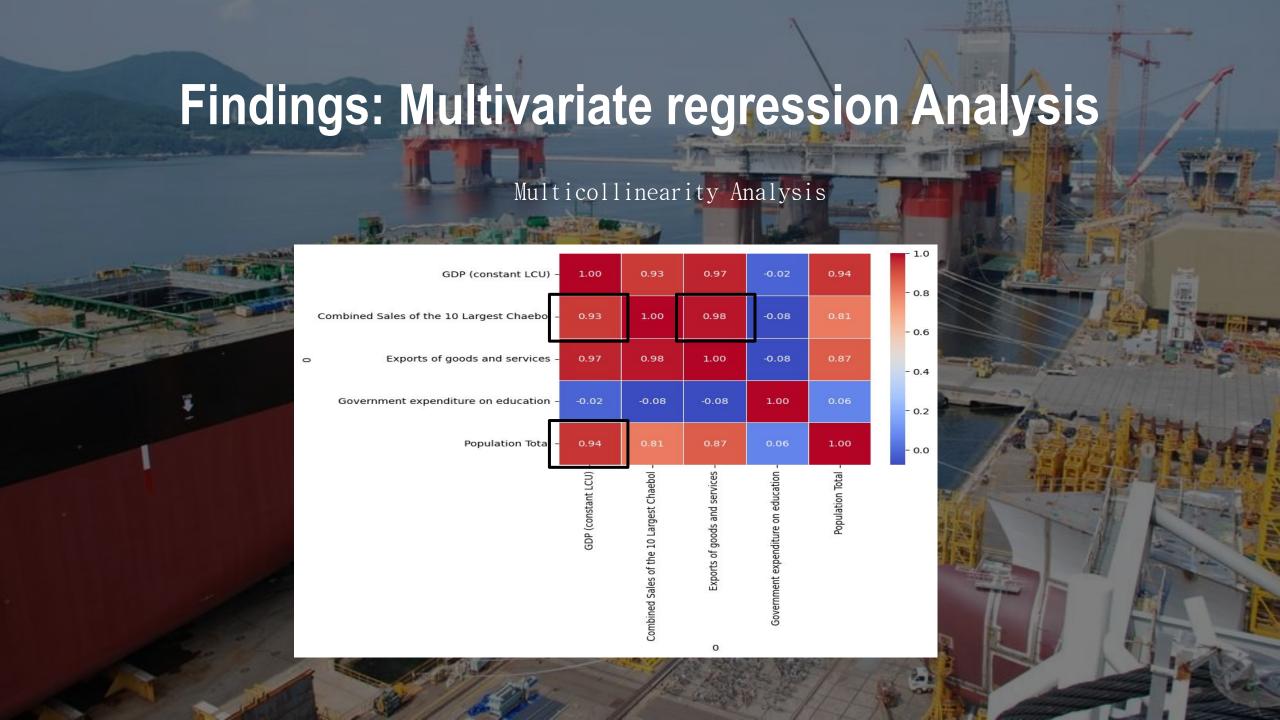
**%Growth)**= ((Combined Annual Sales of Korean business groups whose sales are bigger than 50 billion Korean Won expressed in Current LCU (% of the Korean GDP)\*(x1) +

Government Expenditure on education as a % of the Korean GDP\*(x2) +

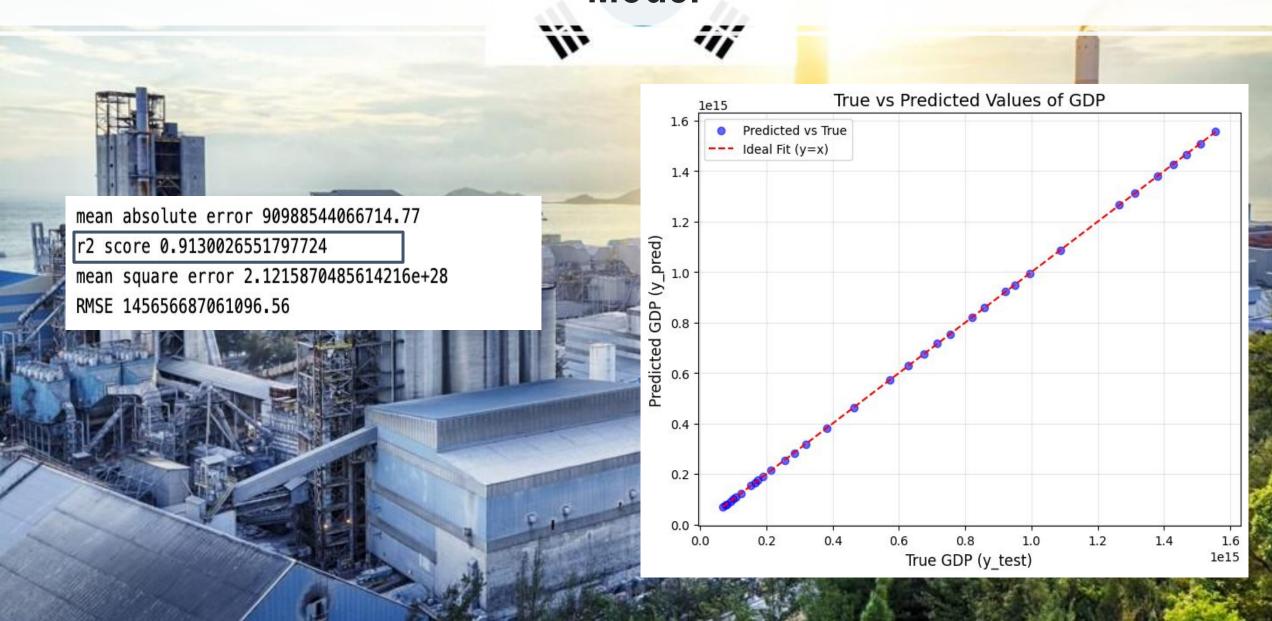
Exports of Goods and Services (% of the Korean GDP)\*(x3) +

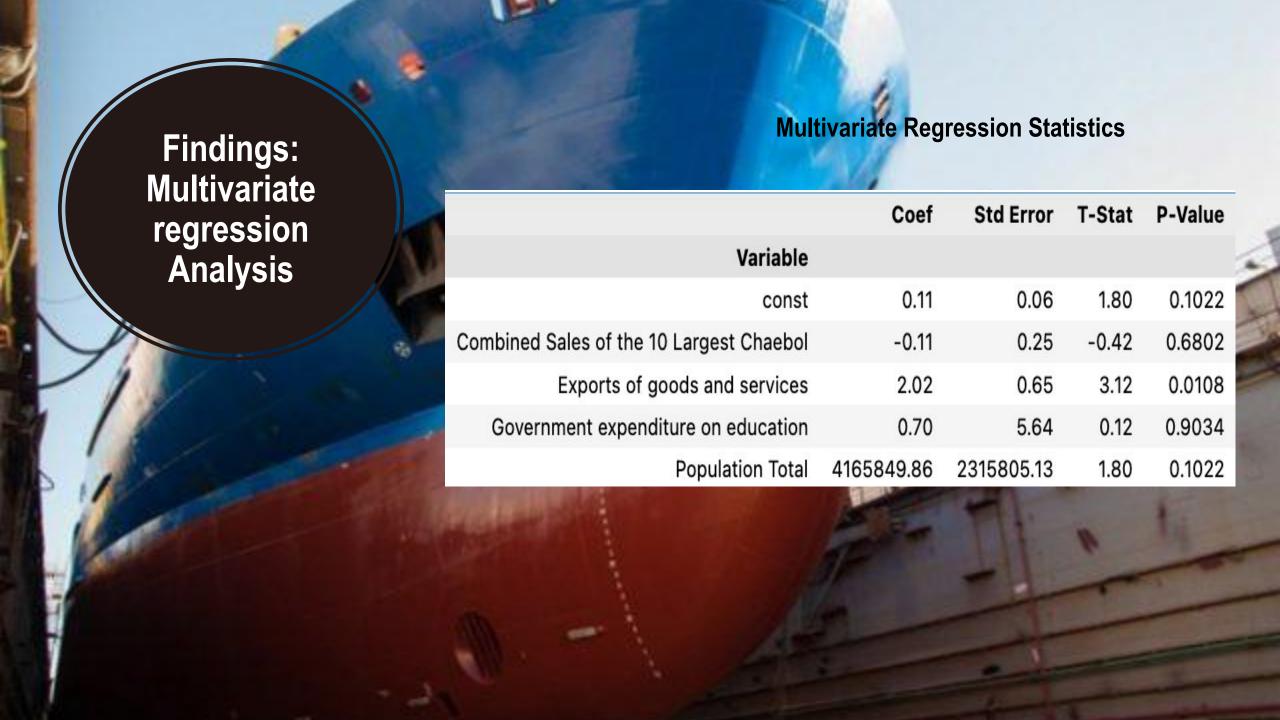
Population Annual Growth (%)\*(x4)) + B





## Model





### **Key Findings:**

- Risk of Overfitting:
  - Small dataset to learn different patterns.
  - The model memorizes every specific line on the data set and it predicts perfectly the economic growth.
- Analyze whether the GDP is a good measure for determining measuring the economic growth.
- Corporate Sales wrongly considered as measured to be compared with GDP



