**Project Title**: Climate change in BRIC Countries: Blessing or curse

**Team**: Dave Eum, Ekamjit Deol, Jennifer Huynh, Omar Colmenares

**Project Description/Outline:**

Our project is to uncover patterns of climate change per countries in scope and their carbon/greenhouse emission data. We will examine if this has any correlation to the top emerging economies(BRICS countries).

**Research Questions:**

Concentrating on emerging countries -> Brazil, Russia, India, China, South Africa:

1. Illustrate climate change indicators (temperature, rainfall and other indicators) over a period of time
2. How much carbon/greenhouse emissions have been reported by each countries vs. the climate change data?
3. How has GDP/GDP per capita/poverty index changed over time vs climate change?
4. How has the percentage of the economy that depends on primary, secondary and tertiary sectors changed over time?
5. Health care indicators- changes over time, compared to climate change.

**Datasets to Be Used:**

1. WorldBank API:
   1. <https://datahelpdesk.worldbank.org/knowledgebase/articles/902061-climate-data-api>
2. Metostat API:
   1. <https://api.meteostat.net/#introduction>
3. Climate Watch:
   1. <https://www.climatewatchdata.org/>
4. Quandl Economic Data:
   1. <https://blog.quandl.com/api-for-economic-data>
5. World Health Organization:
   1. <https://apps.who.int/gho/data/node.resources.api?lang=en>
6. Worldwide Resources Institute
   1. <https://www.wri.org/our-work/project/cait-climate-data-explorer/data-availability>

**Rough Breakdown of Tasks:**

* Establish plans for success: Roadmap with timelines for project milestones.
* Explore, gather and store the data repositories.
* Data Cleanup & Main Analysis: data trend analysis
* Create visuals:
  + Climate change Indicators over time
  + Carbon/greenhouse emissions reported by each countries vs. the climate change data
  + Carbon/greenhouse emissions per capita through time
  + GDP/GDP per capita/poverty index changed over time vs climate change?
  + Air quality indicators for each country (or specific areas) vs. time
  + Percentage of the economy that depends on primary, secondary and tertiary sectors
* Summarize the findings/visuals
* Create a Google Slides presentation
* Present the findings to the class