Ronaldlee(Ron):

1. What are the main indicators that influence a country’s economic development in South East Asia?

Here, we analyze the social-economic and demographic indicators of life expectancy in South East Asia , Latin America and compare them with First world countries..

We use regression and other machine learning techniques

In knowing these indicators, that is where aid should be allocated.

**Reference paper**:

<https://www.shs-conferences.org/articles/shsconf/pdf/2021/21/shsconf_icemt2021_02006.pdf>

1. How has humanitarian aid improved primary health care in South East Asia? We use machine learning to predict hypertension at the population level.

**Reference paper:** <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9008259/>

Seunggil

* **Clustering aid-needed country and give appropriate aid method**
* Larru, J. M., Ibar, R., & Quesada, C. (2021). Grouping Foreign Aid and the Multidimensional Poverty Index: A Cluster Analysis. *Journal of Economic Cooperation and Development*, *42*(3), 167–211.
  + This article shows multidimensional poverty index. Like this index, we can think some indicators for give appropriate aid.
  + There are some aspects for foreign aid,

1. finance health infrastructure (O)
2. finance educational infrasturcture
3. strengthen political institutions (O)
4. provide emergency relief (O)
5. stabilize economy from supply shocks

* So, we can gather data from SEA and LA, to know what they needed.
* Also, from clustered results, we can suggest***recommendation model* for give foreign aid**, or **construct the dashboards for visualize it**.

Jimin:

* **Provide Sports Infrastructure construction for countries like SEA, Latin America**
* Problem found :
  + many SEA countries haven’t ever won a medal for Olympic
  + Some Citizens of SEA and Latin America are expected live shorter
* Expected benefits
  + Diplomatic benefit for both provider & countries being provided
  + Their health benefit
  + Expected to win any medal from olympic in the future
* Model: using regression model, we can correlate sports infrastructure, expected life expectancy, expected olympic medal

Kushal

* Identify sectors within Latin America and Southeast Asia where aid is required

Data source: social media posts

* + Text analytics, clustering, recommendation system
  + Identify short term vs long term sectors and benefits
  + Identify/predict disasters which might affect development
    - Natural disasters, crime rate, poverty rate, inflation, war, etc

Reference: <https://www.nature.com/articles/s41893-022-00874-z>

* Measure the impact of aid

Data source: world bank , Aid data, foreign assistance data

* + Do Governments or agencies bring out the most impact?
  + Flow of aid? Where are aid activities being carried out?
    - Short term & long term impact
  + In which sector, aid is more effective based on previous experiments?

Mentor feedback

* Can be a tool (phase) of the project (not the final product)
* Difficult to measure the impact
  + Possibility: Tie aid back to development metrics (GDP, crime rate, poverty)