

DATA 608 – Final Project

Distribution of USAID

The project will be designed to suggest final recommendations of distributing foreign aid by USA government taking into account country wise survey of primary health issues/Public issues faced by each government. It will be shown with visuals and graphs and app will be deployed with interactive user interface.

➤ **Data Source:**

- 1) <http://databank.worldbank.org/data/source/health-nutrition-and-population-statistics/Type/TABLE/preview/on>
- 2) <https://explorer.usaid.gov/data.html>

➤ **Parameters / Major data points:**

- 1) Country Code: Short name for country
- 2) Long Name: Original name for country
- 3) Region
- 4) Currency Unit
- 5) Fiscal year
- 6) US aid section
- 7) HIV/AIDS
- 8) Tuberculosis
- 9) Counter terrorism etc.

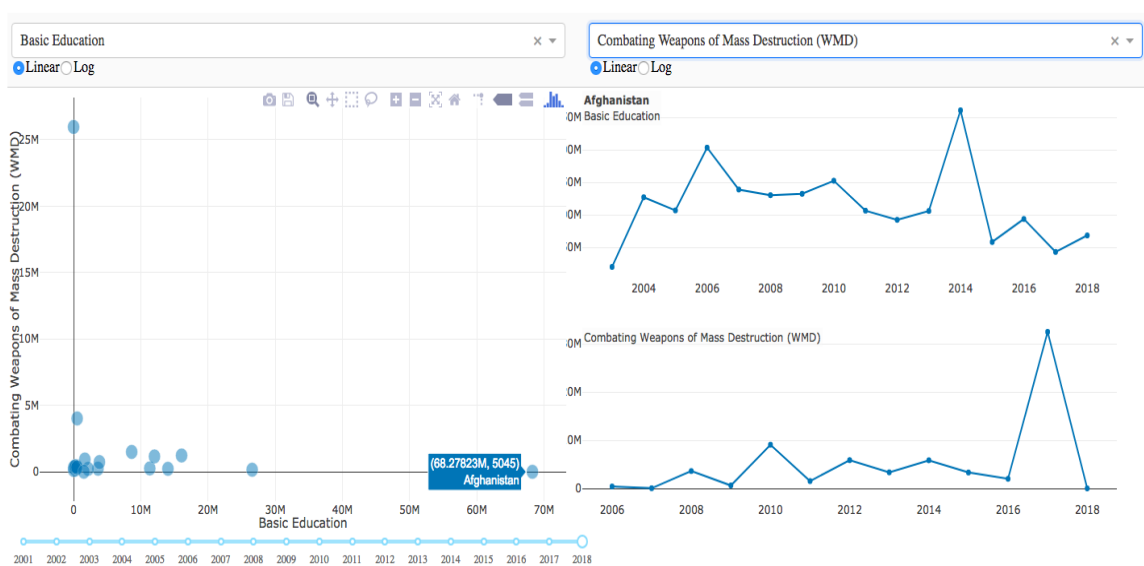
➤ **What data shows?**

Two to three datasets are linked to create visualizations for required results. USAid data offers a summary of obligations and disbursements in current and constant dollars by country from 1946 to the most recent year. World bank data gives population statistics for each country.

➤ Why it is important?

US Government spend wholesome amount each year on foreign sanctions and aid. If this amount is channeled to major health and public issues faced by developing and underdeveloped countries with detailed data screening, we could bring significant improvement on uplifting lives of infants, women and old people .It would be of great help for UNICEF to arrange relief funds and divert them in direction needed taking into account their current governance condition and public issues. As the money received by USAID is through taxpaying citizens of the country, this app gives them a closer insight of how the money is spent over the years.

➤ How application works?



The app has two drop down bars on top of surface giving option to choose between the parameters on which USAID is distributed for underdeveloped and developing countries.

The parameters are:

'Agriculture', 'Basic Education', 'Civil Society', 'Clean Productive Environment', 'Combating Weapons of Mass Destruction (WMD)', 'Conflict Mitigation and Reconciliation', 'Counter-Narcotics', 'Counter-Terrorism', 'Democracy, Human Rights, and Governance - General', 'Direct Administrative Costs', 'Disaster Readiness', 'Economic Development - General', 'Economic Opportunity', 'Education and Social Services - General', 'Family Planning and Reproductive Health', 'Financial Sector', 'Good Governance', 'HIV/AIDS', 'Health - General', 'Higher Education', 'Infrastructure', 'Labor Policies and Markets', 'Macroeconomic Foundation for Growth', 'Manufacturing', 'Maternal and Child Health', 'Mining and Natural Resources', 'Multi-sector - Unspecified', 'Natural Resources and Biodiversity', 'Nutrition', 'Other Public Health Threats', 'Pandemic Influenza and Other Emerging Threats (PIOET)', 'Peace and Security - General', 'Policies, Regulations, and Systems', 'Political Competition and Consensus-Building', 'Private Sector Competitiveness', 'Protection, Assistance and Solutions', 'Rule of Law and Human Rights', 'Social Assistance', 'Social Services', 'Stabilization Operations and Security Sector Reform', 'Trade and Investment', 'Transnational Crime', 'Tuberculosis', 'Water Supply and Sanitation', 'Monitoring and Evaluation', 'Environment - General', 'Malaria', 'International Contributions', 'Environment', 'Humanitarian Assistance - General', 'Migration Management', 'Debt Relief'.

You can choose between the parameters and application shows how much money is spent over years in each country around the word to solve the issue. Two separate plots for X-axis and Y-axis represent change in amount over year for a particular country.

Plotly map to sum up which countries are highest receivers of USAID from 1980:

Iraq and Afghanistan received maximum aid over all this year (In Trillion \$)

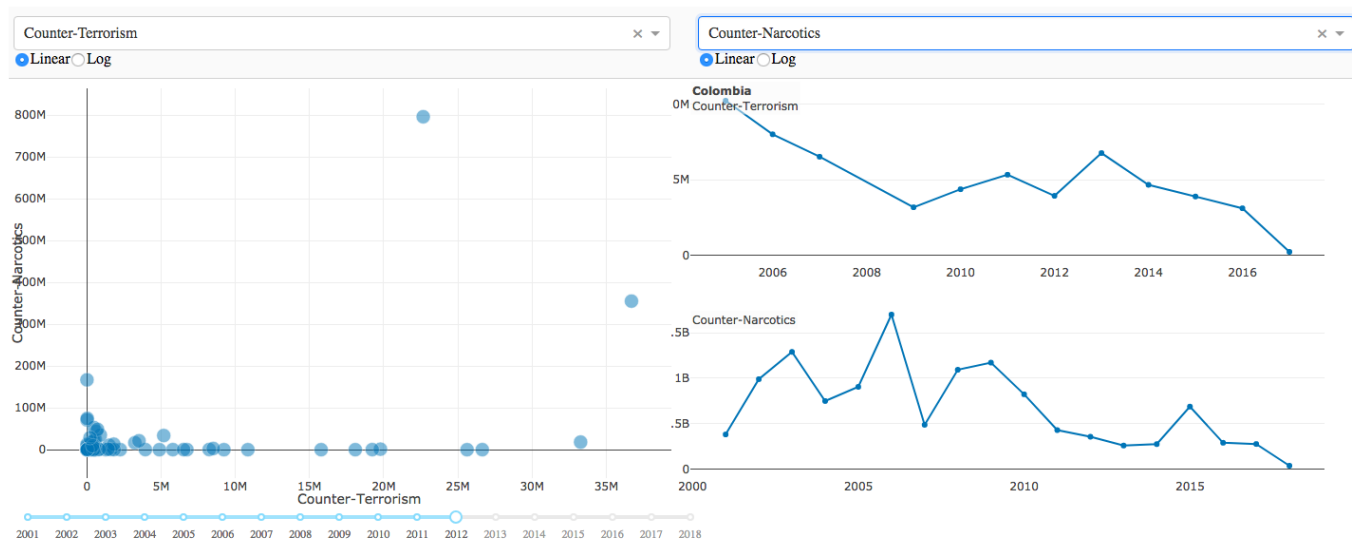
USAID distribution



Use case I:

Counter Narcotics vs. Counter Terrorism:

Taking into account some ground realities through news and media for counter- narcotics and counter terrorism, Columbia and Afghanistan top charts in respective fields. Nearly \$ 274 M were spent by USAID for counter Narcotics activities in Columbia in 2017. Afghanistan received \$ 55 M for countering terrorist activities. Similarly there are many use cases with health issues, which could be answered by using application.



Future Developments:

- 1) Deployment of application on 'Heroku' server.
- 2) Include breaking of money in each sector and state of particular country and statistics to compare need of spending.
- 3) Ground reality survey on countries facing civil and health issues and diversion of AID to those countries.