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# Introduction:

This project created a dashboard that assists aid workers with identifying what countries they would like to serve in. The user is given the option of evaluating all the countries or using a slider to adjust the countries displayed to their risk tolerance. Here is a [link to the dashboard](https://datastudio.google.com/reporting/809e72f9-0bef-41c2-816f-3a382c66ffd4).

A few examples of the questions that a user can find answers to are…

* what types of violence have occurred in a given country or group of countries from 1997 - 2020?
* how does a country compare to other countries based on risk?
* what attack methods were used across the incidents that have occurred in selected countries?

# Data:

Source:The [AWSD](https://aidworkersecurity.org/about) is a global compilation of reports on major security incidents involving deliberate acts of violence affecting aid workers.

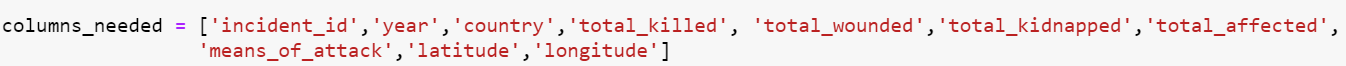
## Importance of this data:

This data can be used for a number of purposes, and in fact has been, as demonstrated by the variety of reports ([link to reports](https://aidworkersecurity.org/reports)) and [graphics](https://aidworkersecurity.org/incidents/report/location) created. As shared in the introduction the interactive dashboard that I created at [this link](https://datastudio.google.com/reporting/809e72f9-0bef-41c2-816f-3a382c66ffd4) helps an aid worker compare countries to serve in based on level of risk.

Data Analysis & Transformations:

The analysis for this project was completed in a Jupyter Notebook using Python. Here is a [link to the notebook,](https://github.com/krpopkin/data608/blob/main/Final%20Project/data_analysis_explore_and_clean.ipynb) and below is a summary of the cleanup and transformations performed…

* Filtered dataset to only to features needed for the dashboard:



* Removed attacks that were missing the country the attack occurred in
* Reduced the 10 methods of attack to 5 categories of kidnapping, shooting, explosives, bodily assault, and unknown
* Created a risk score for each attack…
* by attributing a value of 1 to a kidnapping, 2 to wounded, and 3 to killed
* applying a formula of risk score = (1 \* #kidnapped) + (2\*#wounded) + (3\*#killed)
* Created a risk score for each country by year, by accumulating the risk scores for each attack