**IFT 533: Data Visualization and Reporting for IT**

**Prof Dr. Asmaa**

**Project - Phase I: Planning**

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**Section 1: Dataset Description (10 points)**

The selected dataset is the "Anti-Civilian Violence" dataset from the Armed Conflict Location & Event Data Project (ACLED). The dataset focuses on collecting real-time information on political violence and protest events globally. The key attributes include:

* **Event Date:** Interval data indicating when the event occurred.
* **Year:** Ordinal data representing the year of the event.
* **Event Type:** Categorical data describing the type of event.
* **Fatalities:** Ratio data indicating the number of reported fatalities.
* **Region:** Categorical data specifying the region where the event occurred.
* **Country:** Categorical data indicating the country where the event took place.
* **Latitude and Longitude:** Ratio data providing the geographical location of the event.
* **Source:** Categorical data representing the sources used to record the event.
* **Sub\_Event\_Type:** Categorical subcategory of the event type.
* **Disorder\_Type:** Categorical data indicating the disorder category an event belongs to.
* **Actors:** Categorical data specifying the actors involved in the event.
* **Iso:** Categorical data, a unique three-digit numeric code assigned to each country.
* **Civilian\_Targeting:** Categorical data indicating whether the event involved civilian targeting.
* **Tags:** Categorical data providing additional structured information about the event.
* **Notes:** Unstructured data offering a short description of the event.

**Section 2: Prospective Dashboard Users (5 points)**

* **Journalists:** Identify common event types, actors, and event locations.
* **Tourists:** Assess recent protests or riots, understand local political climates, and take precautions during travel.
* **Lawmakers:** Develop policies and strategies to address underlying causes of violence.
* **Military:** Gain insights into potential conflict hotspots, understand actors involved, and aid in strategic planning.

**Section 3: List of User Requirements & Potential Questions (20 points)**

1. **Multi-layered Map:**
   * User Requirement: Create a multi-layered map showing the intensity of different types of events in each region.
   * Potential Question: What is the spatial distribution and intensity of various event types globally?
2. **Correlation Matrix:**
   * User Requirement: Create a correlation matrix showing the relationship between different variables such as event type, actor, and location.
   * Potential Question: How do variables like event type, actor, and location correlate with each other?
3. **Civilian Targeting Analysis:**
   * User Requirement: Explore the relationship between civilian targeting and actor types.
   * Potential Question: What is the correlation between the actors involved in events and the extent of civilian targeting?
4. **Sub-national Administrative Region:**
   * User Requirement: Identify the largest sub-national administrative region where most events took place.
   * Potential Question: Which sub-national administrative region experienced the highest frequency of events?
5. **Specific Event Inquiry:**
   * User Requirement: Identify actors involved in the riots in Medan, Indonesia, in February 2019.
   * Potential Question: Who were the actors participating in the riots in Medan, Indonesia, in February 2019?
6. **Trends in Political Violence:**
   * User Requirement: Analyze trends in political violence over time.
   * Potential Question: How has the frequency and nature of political violence changed over the years?
7. **Safe Travel Regions:**
   * User Requirement: Determine the safest areas to travel to in Southeast Asia.
   * Potential Question: Which regions in Southeast Asia have the lowest incidence of political violence for safe travel?
8. **Changes in Conflict Events:**
   * User Requirement: Evaluate how the number of conflict events has changed over time.
   * Potential Question: Has there been an increase or decrease in the number of conflict events over the years?
9. **Distribution by Event Type:**
   * User Requirement: Examine the distribution of events by event type.
   * Potential Question: What is the proportion of different event types in the overall dataset?
10. **Regional Comparison (2010 vs. 2023):**
    * User Requirement: Compare the number of events by region in the years 2010 and 2023.
    * Potential Question: How does the distribution of events across regions differ between 2010 and 2023?

**Section 4: References (5 points)**

* Dataset Link: [Armed Conflict Location & Event Data Project (ACLED)](https://chat.openai.com/c/dataset_link)
* Team's Mural Link: [Team Mural](https://chat.openai.com/c/mural_link)