**Problem Statement**

**Organization Name:** Metropolitan Washington Council of Governments (MWCOG)

**Dataset Name:** Regional Traffic Count (6 – 9 AM)

**A close up of a logo

Description automatically generatedDifficulty:**

Level 3: Participants with some data analysis background.

The problem statement is open-ended about what the final product may look like. The dataset may contain many variables of interest. Analyses from different angles by various techniques are encouraged.

# Background

MWCOG has organized and published annual average daily traffic by vehicle classifications for the National Capital Region. The suggested dataset for this Challenge represents the average hourly traffic counts between 6 and 9 A.M. in a typical 2017 weekday. As the regional transportation planning organization, we are interested in knowing what can be told about the traffic conditions of the morning rush hours in the Capital Region.

# Questions

Teams should start by revealing traffic patterns in different parts of the region. We then expect teams to explain the patterns they observe using other datasets in the Regional Transportation Data Clearinghouse (RTDC, <https://rtdc-mwcog.opendata.arcgis.com/>). Here are a few examples:

* Population and employment (current and projected) – Cooperative Forecast Round 9.1;
* Activity centers;
* Commuters’ mode of transportation;
* Vehicle availability;
* Metro accessibility.

Teams can also consider using external data sources from public agencies in the DC, Maryland, and Virginia areas.

Tell a story about the AM rush hour traffic in the region using data analyses and visualizations. In addition, come up with some suggestions about transportation planning in the region based on your analyses.

# Data Considerations

893 rows of data are contained in this dataset.

The online data portal is also available for the raw dataset and the GIS shapefile <https://rtdc-mwcog.opendata.arcgis.com/datasets/weekday-vehicle-classification-am-600-859>