**Problem Statement**

**Organization Name:** Booz Allen Hamilton

**Dataset Name:** Recycling Diversion**A close up of a logo

Description automatically generated**

**Difficulty:**

Level 2: Participants with basic data analysis knowledge.

The problem statement is open-ended yet straightforward. The dataset has a standard structure suitable for beginners. Creative and interdisciplinary solutions are welcomed.

# Background

# In New York City, Recycling Diversion rate and Capture Rate Capture are collected for each zone and district. This ratio measures how much of the targeted materials are actually being recycled, which is a measure of how successfully such materials are recycled.

# In order to understand what the participation rate or rate at which a district recycles is, we can explore the data for recycling collection. This gives opportunities for targeting education for specific zones and specific types of recycling. We can also use this dataset to predict recycling behavior.

# Deliverables

* Complete an EDA to explore things, such as
  + which district recycles the most for the different type of recycling wastes?
  + which type of recycling waste is collected at high rates?
  + what month is recycling lower or higher?
* Use Machine learning to predict the amount of recycling that will be collected for a specific zone.

# Data Considerations

This is a time series data set containing 9 columns and 2,832 rows.