## **Business Understanding**

### **Overview of the Business**

Bluecar is bringing a smarter, greener transportation option to most parts of the developed countries mostly in the big cities, improving the community and environment one ride at a time. Bluecar sharing provides members with new, fully electric vehicles for their everyday needs. Clean and convenient electric vehicles can be picked up and dropped off at most of the locations around the major cities.

### **Business Objective**

* To identify the most popular hour of the day for picking up a shared electric car (Bluecar) in the city of Paris over the month of April 2018.
* To determine the most popular hour for returning the cars.
* To determine the most popular station.
* To determine the most popular picking hour.
* To determine which postal code is the most popular for picking up Blue cars.
* To determine whether the results change if you consider Utilib and Utilib 1.4 instead of Blue cars.

### **Assessing the Situation**

We consider the dataset provided as shown below:

[Autolib\_DDI\_DB\_description\_MoringaSchool\_w4.docx](https://drive.google.com/a/moringaschool.com/file/d/13DXF2CFWQLeYxxHFekng8HJnH_jtbfpN/view?usp=sharing)

We then check through the data for any missing or irrelevant data and thereafter perform data cleaning and analysis using:

* Python
* Pandas
* Numpy

### **Data Mining Goals**

Our main goal is to identify the most popular hour of the day for picking up a shared electric car (Bluecar) in the city of Paris over the month of April 2018.

## **Data Understanding**

### **Data Understanding Overview**

Data was sourced from opendataparis.com where the Autolib availability information was available in real-time. The fields are as follows:

* Address
* Cars
* Bluecar counter
* Utilib counter
* Utilib 1.4 counter
* Charge Slots
* Charging Status
* City
* Displayed comment
* ID
* Kind
* Geo point
* Postal code
* Public name
* Rental status
* Scheduled at
* Slots
* Station type
* Status
* Subscription status
* Year
* Month
* Day
* Hour
* Minute

## **Data Preparation**

The data is loaded to the python notebook for analysis