***DATA REPORT***

[Github repository link](https://github.com/emunyala/Moringa-IP-W3)

# Phase 1: Business Understanding

**⦁ Statement of business objective**

MTN Cote d'Ivoire would like to upgrade its technology infrastructure for its mobile users in Ivory Coast. Studying the given dataset, how does MTN Cote d'Ivoire go about the upgrade of its infrastructure strategy within the given cities

Sample data sets sources have been provided for analysis.

They include:

1. cells\_geo\_description.xlsx [[Link]](https://drive.google.com/a/moringaschool.com/file/d/1-rIM5ihDu79RaH7rAs-d-7SQSAQhrY9N/view?usp=sharing)
2. cells\_geo.csv [[Link]](https://drive.google.com/a/moringaschool.com/file/d/1ABZux280OjL3yWcOn8BDA_f5QsyO0QPU/view?usp=sharing)
3. CDR\_description.xlsx [[Link]](https://drive.google.com/open?id=1cVoNXl25IO5-_yQk97ThdeqhE6yw8YTD)
4. CDR 20120507 [[http://bit.ly/TelecomDataset1]](http://bit.ly/Telcom_dataset1)
5. CDR 20120508 [[http://bit.ly/TelecomDataset2]](http://bit.ly/Telcom_dataset2)
6. CDR 20120509 [[http://bit.ly/TelecomDataset3]](http://bit.ly/Telcom_dataset3)

# Phase 2: Data Understanding

We have only been given a sample data of three day telcom use covering specific regions in Cote d'Ivoire, thus can not give a conclusive report on the situation around the country.

# Phase 3: Data Preparation

1. Download and save data from the link sources
2. Upload and load using into our notebook
3. Import python data manipulation tools like Pandas and Numpy

# Phase 4: Data Analysis

With the data provided you are required to find:

* + 1. Which ones were the most used city for the three days?
    2. Which cities were the most used during business and home hours?
    3. Most used city for the three days?

# Phase 5: RECOMMENDATIONS

From our analysis, we recommend that:

Cities of COCODY, YOPOUGON, ABOBOMARCORY and TREICHVILLE are the cities with the most usage of mobile users in the city.

DANANON, OUANGOLO, KOTOULO, MEMNI AND TAABO are the least cities with hardly any mobile usages.