# Analysis of Drug Consumption Dataset

## Team Members:

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* Rock David Adeline
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## Project Outline:

The primary objective of this data analytics project is to investigate the patterns of drug consumption among individuals and explore the potential relationships between personal traits/behaviour and drug usage. This analysis will utilize the Python library Pandas for data manipulation and Matplotlib for data visualization.

## Research Questions:

* Does having a higher level of education decrease the likelihood of drug consumption?
* What correlations exist between an individual's personality traits and their drug usage patterns.
* Can ethnicity or Country Residency predict the type of drugs and/or the frequency of drug use?

## Dataset:

The dataset contains a record of 1,855 participants recruited over a 12-month period, between March 2011 and March 2012.

For each participant 12 different attributes are known:

* 7 Personality Trait Measures including:
  + Revised NEO Personality Inventory (NEO-FFI-R), which assess an individual on five dimensions of personality: neuroticism, extraversion, openness to experience, agreeableness, and conscientiousness.
  + Impulsivity (BIS-11).
  + Sensation Seeking (ImpSS).
* Level of Education.
* Age.
* Gender.
* Country of Residence.
* Ethnicity.

In addition, participants were asked in the use of 18 different legal and illegal drug use.

Source: <https://www.kaggle.com/datasets/mexwell/drug-consumption-classification>

## Task Assignment

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| **Task** | **Assigned to:** |
| Data Cleaning | Daniel, David |
| Initial data analysis and statistical measures | Daniel |
| Plotting Statistical Results | Tammy |
| Results Analysis | David, Lisa |
| Preparing Power Point Slides | Lisa |
| Results Presentation | (all) |