**5 STEPS TO PROCESS DATA FOR YOUR PROJECTS**

1. **Define Your Goals for Data Processing**
   - Identify Problems: Define the types of problems you want to solve, and consider whether data analysis is a proper approach to solve your problems.
   - Assess Your Problems: Evaluate the difficulties of solving the problems and the benefits that solving them can bring to your project.
   - Know Your Stakeholders: List and map the internal and external stakeholders related to your project.
   - Establish Key Indicators: Define key measures to evaluate your problems.

2. **Assess Data You Already Have and Collect the Data You Need**
   - Concretize Your Workflow: Sketch out the workflow of your daily work, such as how you deliver services or how you advocate your ideas to the people.
   - Data Inventory: List the data sets and data tables you need.
   - Define the Table Schema for Your Data: Examine your data tables to identify the relationship between each data table.
   - Data Collection: Define what type of data format (e.g. Excel, JSON) you need before you start collecting data.

3. **Transform Your Data**
   - Improve Data Quality: Examine the quality of data, such as identifying and dealing with missing or inaccurate data etc.
   - Clean Data: Clean data by ensuring that the format of all the data is consistent.
   - Integrate Data: Transform, merge, reallocate, or adjust data fields according to your needs.

4. **Analyze Your Data**
   - Conduct Descriptive Analysis: Visualise your data by using a software to create charts. This allows you to see trends in the distribution of your data.
   - Explore Multidimensional Correlation: If you have more than two data sets or data fields (variables), see whether a relationship exists between them.
   - Analyze Data: Select appropriate approaches to analyse your data, such as hypothesis testing, classification, or regression.

5. **Use Your Data Analysis to Support Decision-Making**
   - Check the Result of Data Analysis: Interpret the results of the analysis according to the requirements and goals you set at the beginning.
   - Establish an Action Plan: Link the results of the analysis with your domain knowledge to generate, define, and implement your action plan.
   - Risk assessment: Assess how effective and beneficial your decision will be and how likely your action plan is to achieve the goal.
   - Redesign Your Workflow: Optimize and adjust your workflow based on the result of your data analysis.