**Explanation of data**

This document contains the description of the data which are used for the study of Van Drone Routing Problem with Multiple Delivery Points and Cooperation (VDRPMDPC) as they are described in the article entitled *Dataset for the van-drone routing problem with multiple delivery drop points*. Below the name of the excel file is given, coupled with a brief description for each file concerning the type of vehicle, the kind of area and the number of clients to be served. The excel files are accompanying this explanation memo.

|  |  |
| --- | --- |
| **Name of the file** | **Description** |
| Van\_Semi-Urban\_100.xlsx | This file includes the distances between 100 clients and the depot via the road network for a Semi-Urban area. |
| Van\_Semi-Urban\_60.xlsx | This file includes the distances between 60 clients and the depot via the road network for Semi-Urban area. |
| Van\_Semi-Urban\_40.xlsx | This file includes the distances between 40 clients and the depot via the road network for Semi-Urban area. |
| Van\_Semi-Urban\_20.xlsx | This file includes the distances between 20 clients and the depot via the road network for Semi-Urban area. |
| Van\_Urban\_100.xlsx | This file includes the distances between 100 clients and the depot via the road network for Urban area. |
| Van\_Urban\_60.xlsx | This file includes the distances between 60 clients and the depot via the road network for Urban area. |
| Van\_Urban\_40.xlsx | This file includes the distances between 40 clients and the depot via the road network for Urban area. |
| Drone\_Semi-Urban\_100.xlsx | This file includes the Euclidian distances between 100 clients and the depot for a Semi-Urban area. |
| Drone\_Semi-Urban\_60.xlsx | This file includes the Euclidian distances between 60 clients and the depot for a Semi-Urban area. |
| Drone\_Semi-Urban\_40.xlsx | This file includes the Euclidian distances between 40 clients and the depot for a Semi-Urban area. |
| Drone\_Semi-Urban\_20.xlsx | This file includes the Euclidian distances between 20 clients and the depot for a Semi-Urban area. |
| Drone\_Urban\_100.xlsx | This file includes the Euclidian distances between 100 clients and the depot for a Urban area. |
| Drone\_Urban\_60.xlsx | This file includes the Euclidian distances between 60 clients and the depot for a Urban area. |
| Drone\_Urban\_40.xlsx | This file includes the Euclidian distances between 40 clients and the depot for a Urban area. |