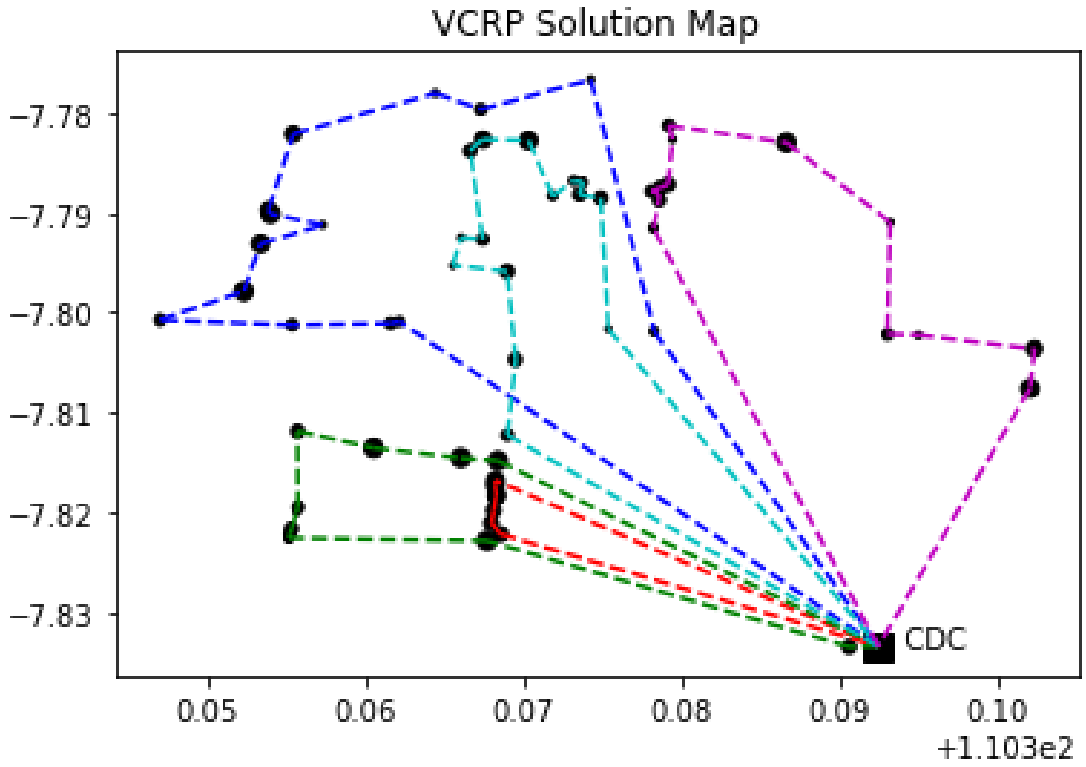
## CVRP Gurobi Python Result Summary

Objective

1. Menghitung rute tempuh
2. Menghitung jumlah kendaraan yg dibutuhkan
3. Integrasi Maps dan Visualisasi

Result

- Map visualisasi solusi Gurobi optimalization




- Detail banyak rute dan titik yang perlu dilalui setiap rutenya

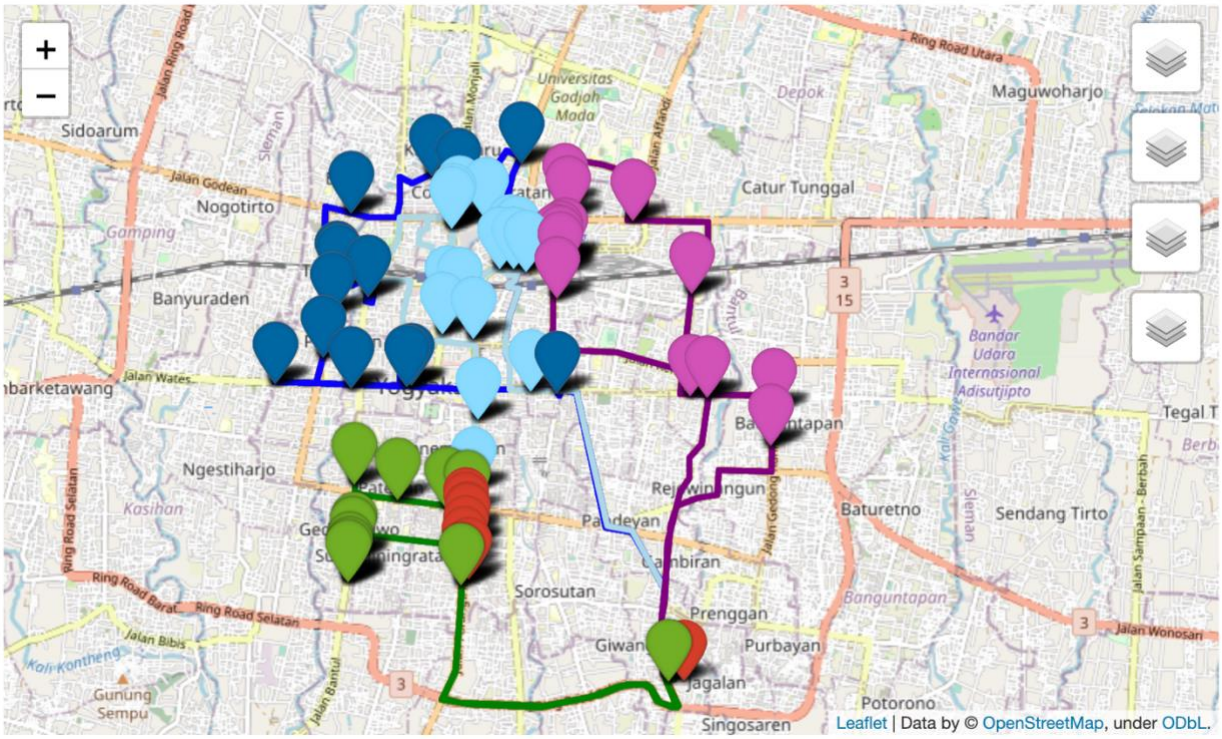
```
{0: [0, 12, 15, 17, 4, 5, 3, 1, 0],
 1: [0, 23, 14, 25, 35, 44, 41, 34, 36, 11, 2, 13, 0],
 2: [0, 30, 27, 46, 47, 19, 9, 29, 10, 8, 18, 43, 57, 58, 62, 0],
 3: [0, 33, 48, 45, 39, 59, 32, 56, 31, 16, 6, 50, 22, 55, 61, 40, 38, 0],
 4: [0, 42, 51, 52, 49, 54, 53, 37, 60, 7, 26, 28, 24, 21, 20, 0]}
```

- Detail Jarak tempuh setiap rute dalam meter

```
# Jarak rute tempuh masing2 rute dalam meter
total_distances_dict
```

```
{0: 11906.1, 1: 16403.9, 2: 25528.0, 3: 30662.9, 4: 21098.7}
```

- Visualisasi akhir dengan Maps




- Jarak tempuh Total

```
sum_total_distance = 0

# Total keseluruhan jarak tempuh
for key, value in total_distances_dict.items():
    sum_total_distance += value

print(sum_total_distance)
```

```
105599.59999999999
```