**RESULTS**

The Shuttle General Information script generates the following information about the vehicle and its route. The map contains the current location of the vehicle and location of the stops, intersections and waypoints that EasyMile uses to track the progress of the vehicle. When accessed through the links, the map is zoomable and panable to examine regions of interest more closely.

Vehicle Information:

vehicle ID number: VJRD1A10224000054

last seen time: 2020-01-04T02:57:10.055685Z

current position (on map): 103.77585451715645, 1.2939321165345241

current orientation: 1.4613374471664429

current speed: 0.0

no. of passengers: null

payload: 64

battery: 73.0

connection status: disconnected

door status: closed

ramp status: closed

Route Information:

operation mode: Full Route

next stop: Opp HSSML

progress to next stop: 0.16959616005271294

eta to Innovation4.0 (depart): null

eta to Opp HSSML: 84

eta to 29 HMK Terrace: 411

eta to BIZ 2: 730

eta to Innovation4.0 (return): 810

full route distance: 1566.8291826900995

Stop name Leave after (s) close door after (s)

0 Innovation 4.0 0 0

1 Opp HSSML 0 0

2 29 HMK Terrace 0 0

3 BIZ 2 0 0

4 Innovation 4.0 0 0

Map Legend:

Purple square: current location

Red dots: stops

Green dots: road junctions

Yellow triangles: route waypoints

Map

Description automatically generated *Figure 1: Maps displaying shuttle location, intersections and waypoints*

The Post Route Analysis script generate data on passenger ridership, speed profile and displays the tracked locations on a map. It runs throughout as the shuttle moves from stop to stop and will generate results at the end of the loop. This allows us to identify anomalous points where the shuttle stops along the way and identify bottle necks to the shuttle’s route.

Distance travelled: 5.0

Battery used: 13.0 %

Graph of no of passengers served to each stop:

\*side note: at the time of data collection, no passengers were on board the shuttle presumably due to the vacation period

Graphical user interface, text, application

Description automatically generated

Speed profile over time:

Graphical user interface, application

Description automatically generated

Map Legend:

Purple square: stations

Triangles: tracked locations

Map

Description automatically generated

*Figure 3: Tracked positions of the shuttle every second*