

# **AMoDeus Simulation Report**

#### **Simulation Information**

User: root

Timestamp: 2018/12/06 - 17:41:01

Iterations: 1 ,i.e., 0 in matsim config.

AV File AV\_Config File

Dispatcher: AidoDispatcherHost

Rebalancing Period: -00:00:01
Redispatching Period: 00:00:10

Network: null\_prepared

Virtual Nodes: no virtual network found

Population: 500

Number of Vehicles: 20

Number of Requests 500

## **Aggregated Results**

Distance Ratio: 63.68%
Occupancy Ratio: 17.86 %

#### **Distances**

Total: 12859.86 km

Rebalancing: 52.28 km (0.41%)

Pickup: 4618.96 km (35.92%)

With Customer: 8188.62 km (63.68%)

Average Trip Distance: 16.38 km

#### **Total Distance Distribution**

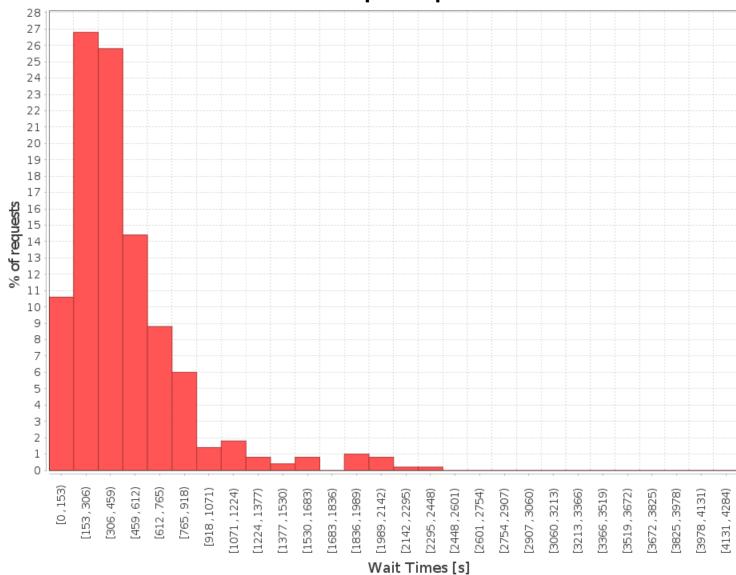
■ With Customer ■ Pickup ■ Rebalancing

0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0

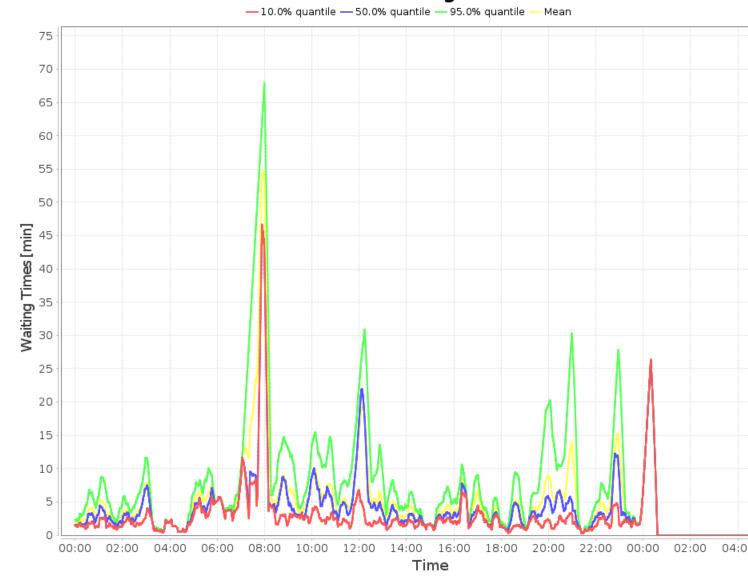
#### **Wait Times**

10.0% quantile	00:02:24
50.0% quantile	00:06:16
95.0% quantile	00:19:10
Mean	00:07:53
Maximum:	01:16:26

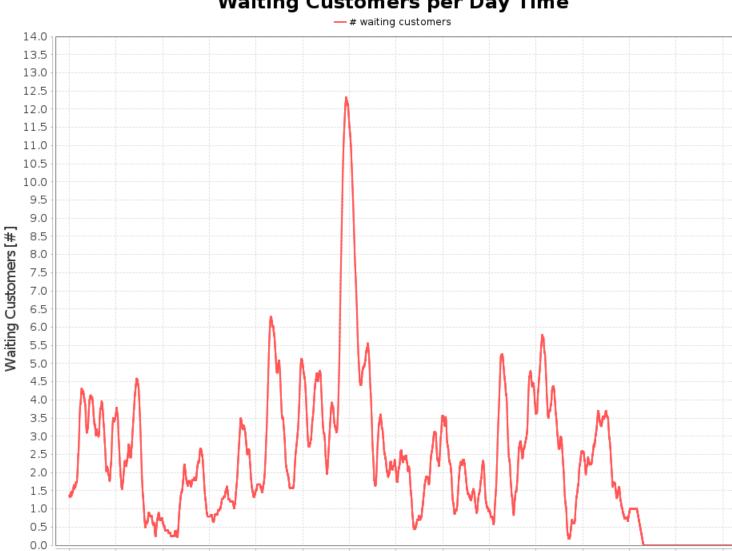
### Number of Requests per Wait Time



### **Binned Waiting Times**



### Waiting Customers per Day Time



02:00

00:00

22:00

#### **Drive Times**

00:00

10.0% quantile	00:03:30
50.0% quantile	00:09:10
95.0% quantile	00:45:30
Mean	00:12:51
Maximum:	01:12:20

06:00

08:00

10:00

12:00

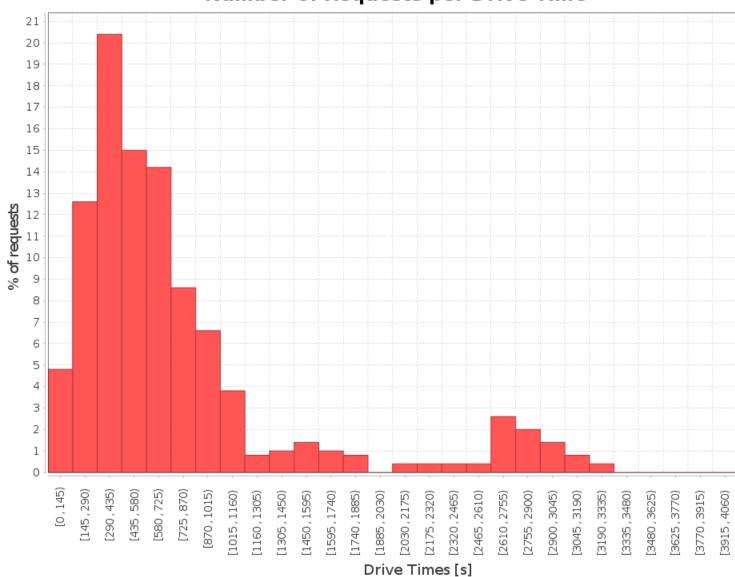
14:00

Time

16:00 18:00 20:00

04:00

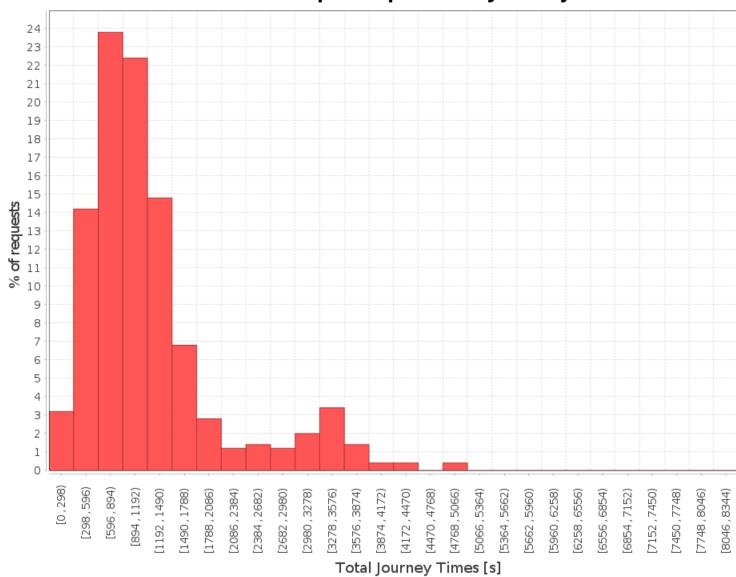
### Number of Requests per Drive Time



#### **Total Journey Times**

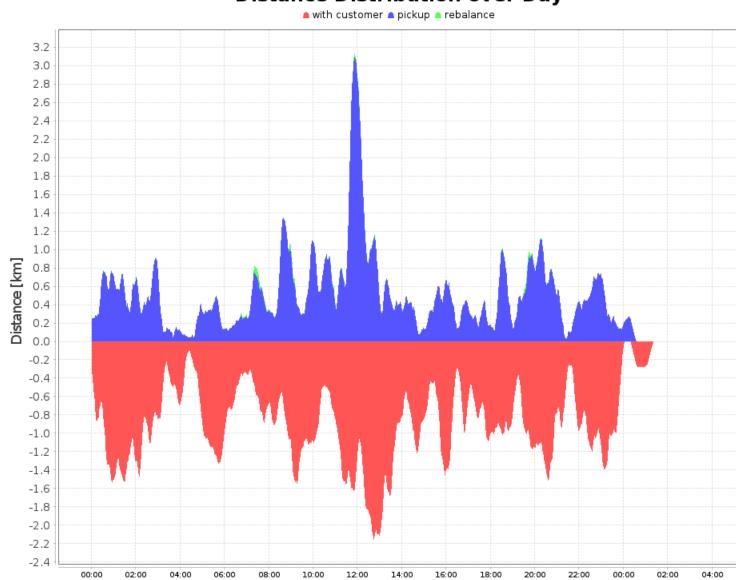
10.0% quantile	00:08:04
50.0% quantile	00:17:05
95.0% quantile	00:56:17
Mean	00:20:44
Maximum:	02:28:46

### Number of Requests per Total Journey Time

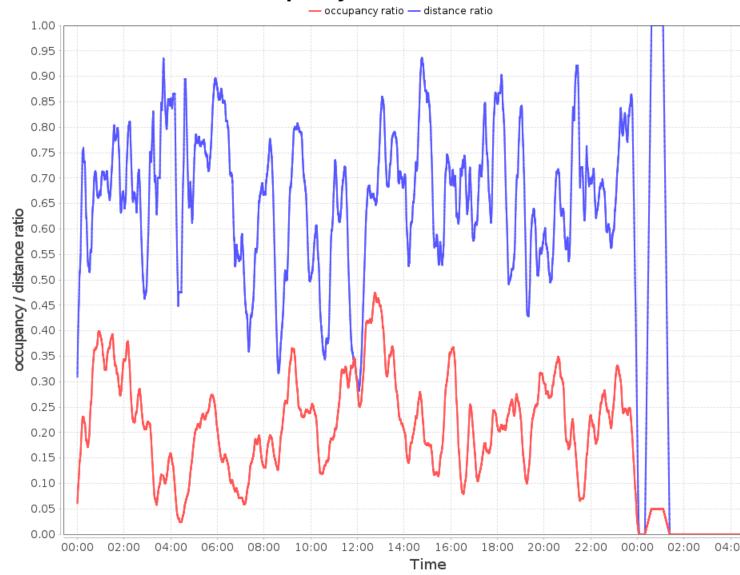


## **Fleet Efficiency**

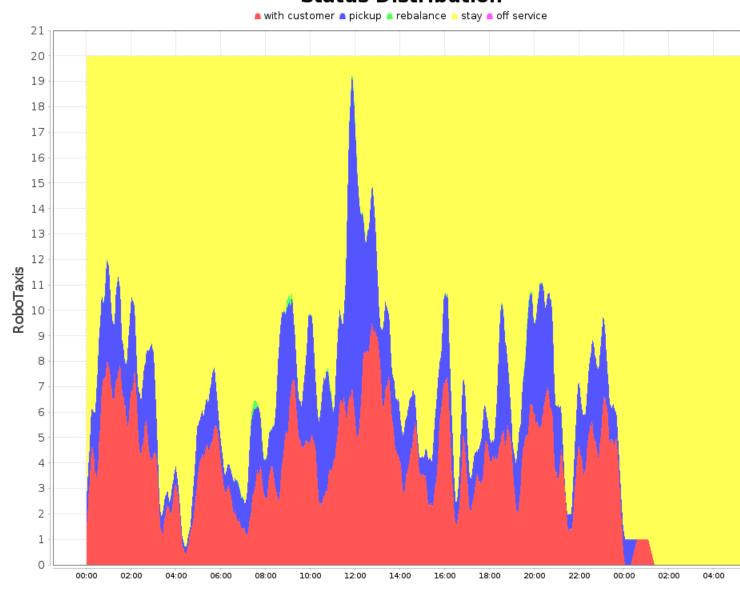
#### **Distance Distribution over Day**



### Occupancy and Distance Ratios



#### Status Distribution



### **Aido Scores**

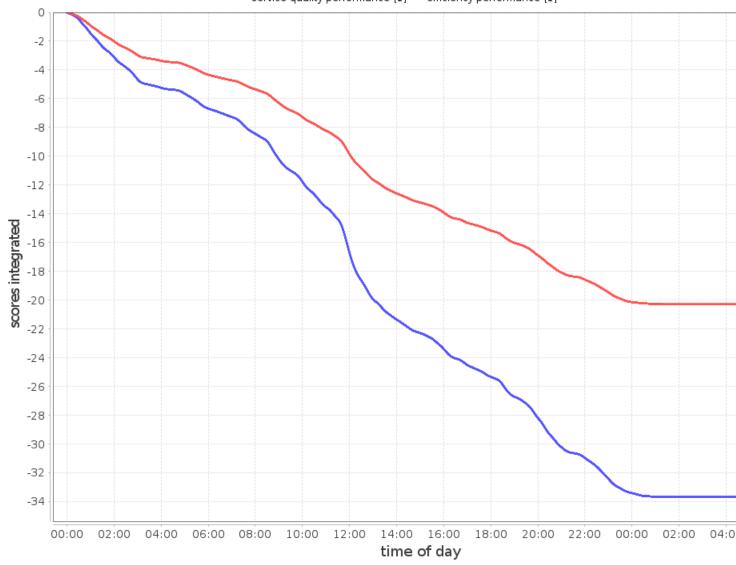
**Scores during Simulation** 

#### Service Quality and Efficiency Score Increments



### Service Quality and Efficiency Score Integrated

- service quality performance [1] - efficiency performance [1]



#### Fleet Size Score Integrated

- fleet size score integrated



#### **Final Scores**

final service quality score: -20.28668464892319

final efficiency score: -33.67257859569076

final fleet size score: -Infinity

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