

# **AMoDeus Simulation Report**

#### **Simulation Information**

User: root

Timestamp: 2018/12/04 - 00:11:30

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: 62.19%
Occupancy Ratio: 17.86 %

#### **Distances**

Total: 13172.05 km

Rebalancing: 506.77 km (3.85%)

Pickup: 4472.96 km (33.96%)

With Customer: 8192.32 km (62.19%)

Average Trip Distance: 16.38 km

#### **Total Distance Distribution**

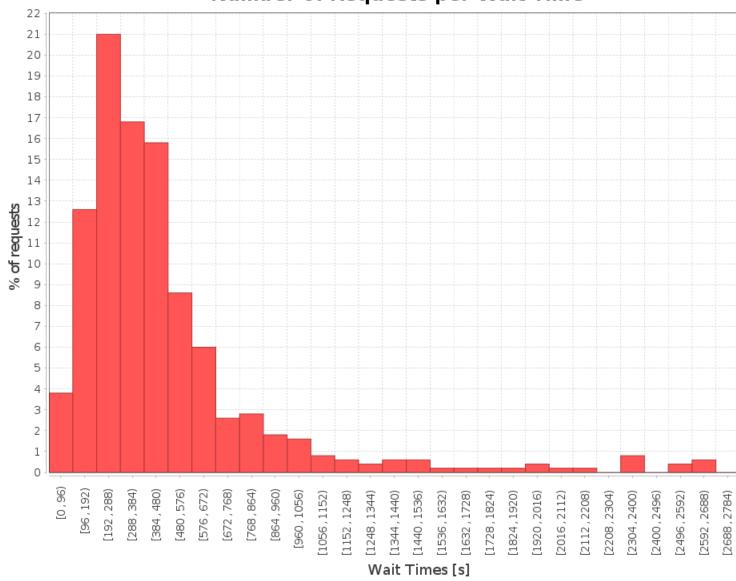
■ With Customer ■ Pickup ■ Rebalancing

0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0

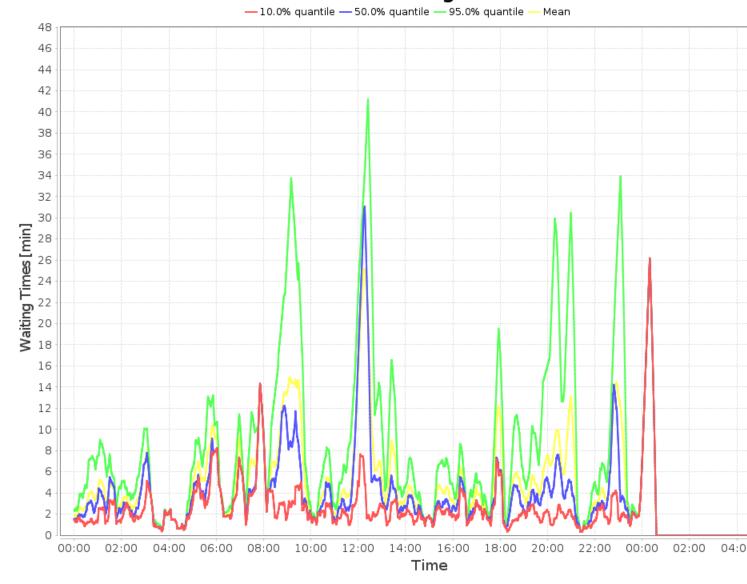
#### **Wait Times**

10.0% quantile	00:02:24
50.0% quantile	00:05:53
95.0% quantile	00:21:57
Mean	00:07:50
Maximum:	00:48:05

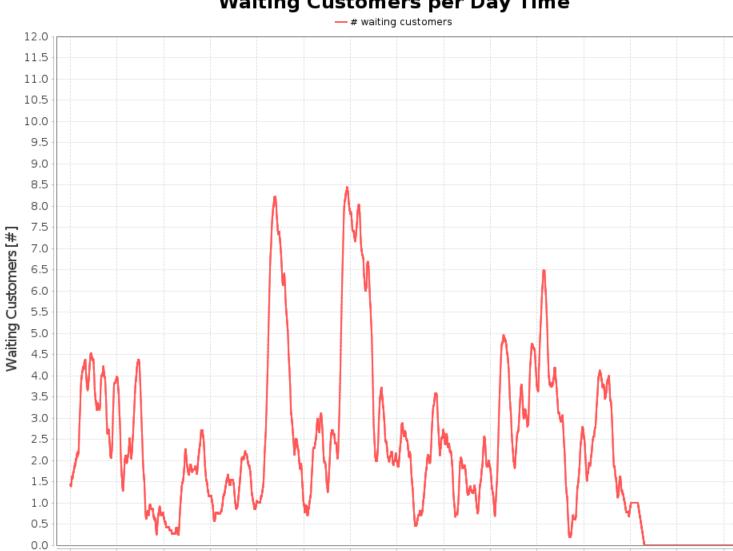
### Number of Requests per Wait Time



### **Binned Waiting Times**



### Waiting Customers per Day Time



14:00

Time

10:00 12:00

16:00 18:00 20:00

22:00

00:00

02:00

#### **Drive Times**

00:00

02:00

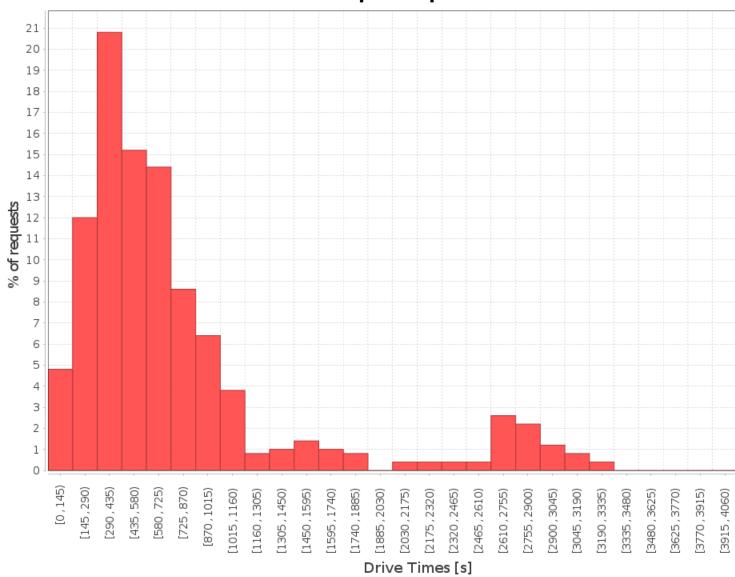
04:00

10.0% quantile	00:03:30
50.0% quantile	00:09:10
95.0% quantile	00:45:30
Mean	00:12:50
Maximum:	01:12:20

08:00

06:00

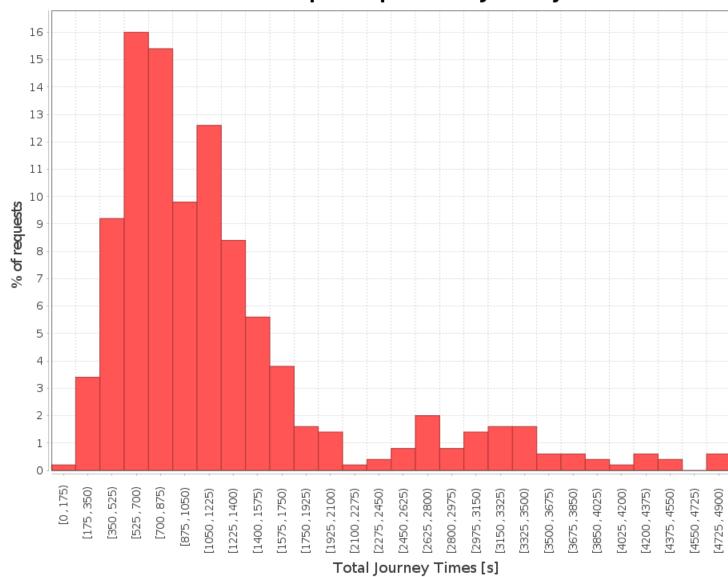
### Number of Requests per Drive Time



#### **Total Journey Times**

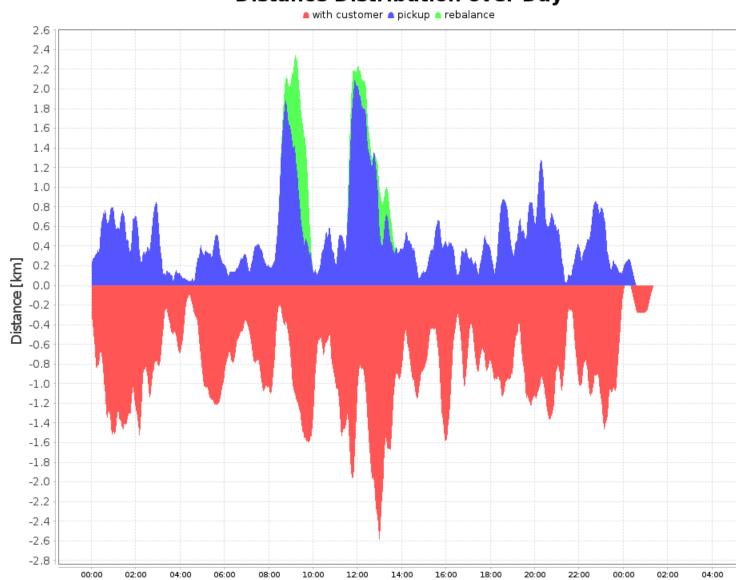
10.0% quantile	00:88:00
50.0% quantile	00:16:19
95.0% quantile	00:56:05
Mean	00:20:41
Maximum:	01:27:16

### Number of Requests per Total Journey Time

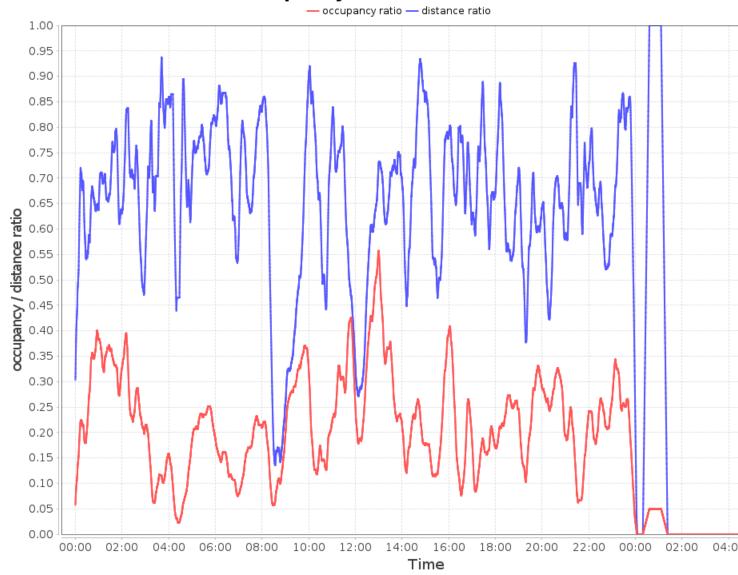


# **Fleet Efficiency**

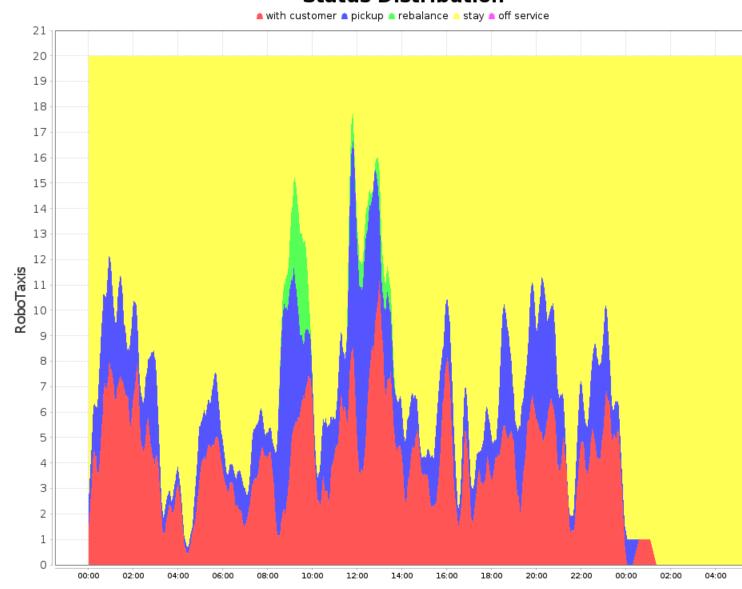
#### **Distance Distribution over Day**



### Occupancy and Distance Ratios



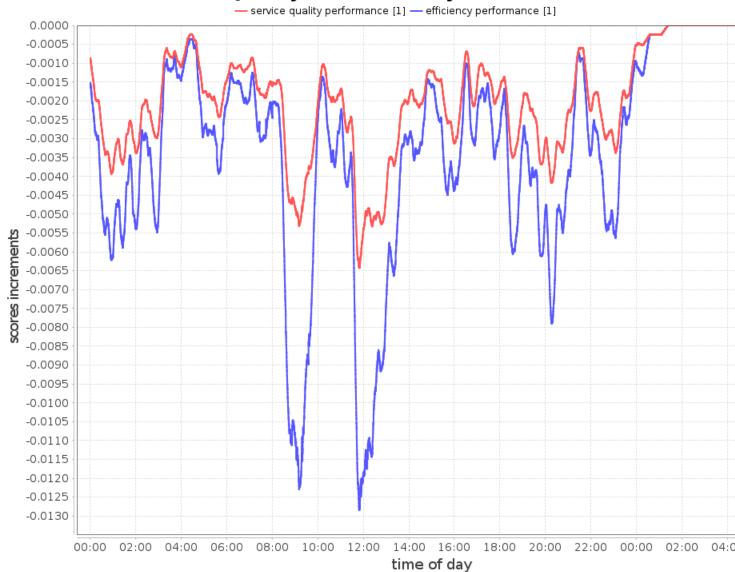
#### **Status Distribution**



### **Aido Scores**

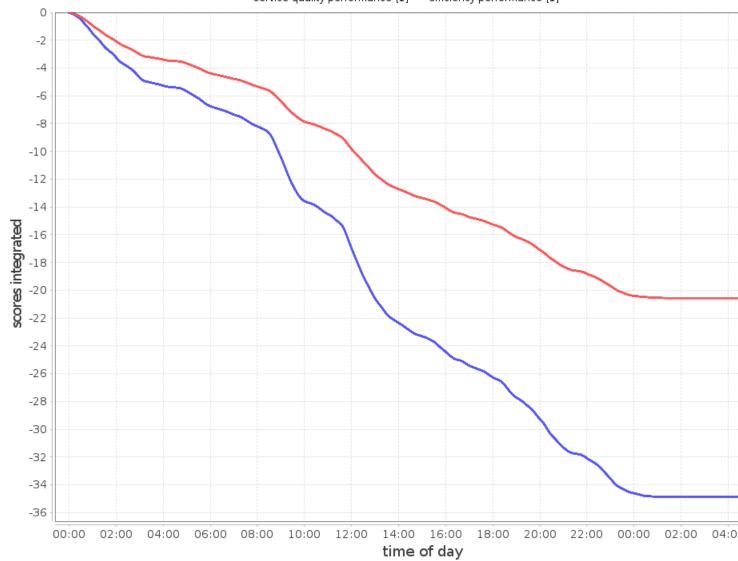
**Scores during Simulation** 

#### 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**

 $final\ service\ quality\ score: \qquad -20.554737476387672$ 

final efficiency score: -34.87094990554855

final fleet size score: -Infinity

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