

# **AMoDeus Simulation Report**

#### **Simulation Information**

User: root

Timestamp: 2018/11/13 - 15:00:19

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: 43.35%
Occupancy Ratio: 17.86 %

#### **Distances**

Total: 18905.40 km

Rebalancing: 790.35 km (4.18%)

Pickup: 9919.45 km (52.47%)

With Customer: 8195.60 km (43.35%)

Average Trip Distance: 16.39 km

#### **Total Distance Distribution**

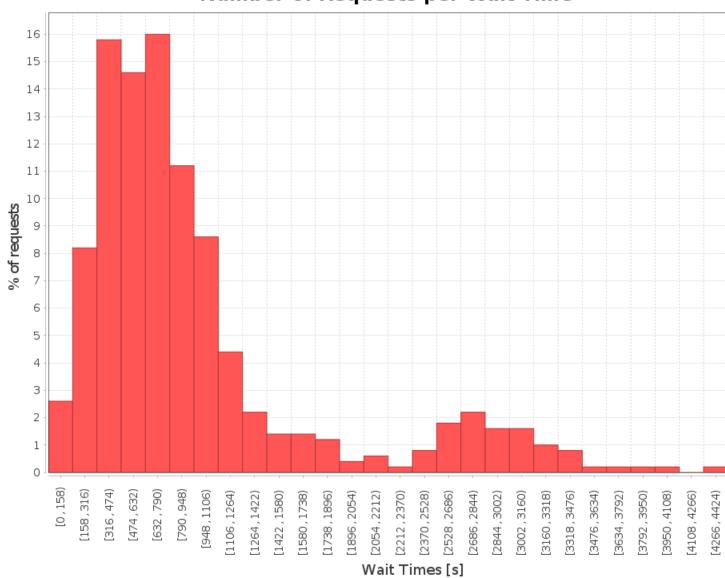
■ With Customer ■ Pickup ■ Rebalancing

0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0

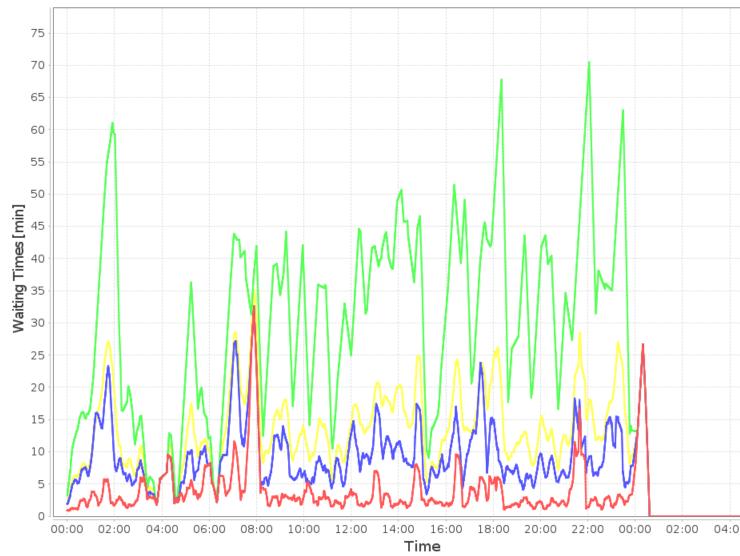
#### **Wait Times**

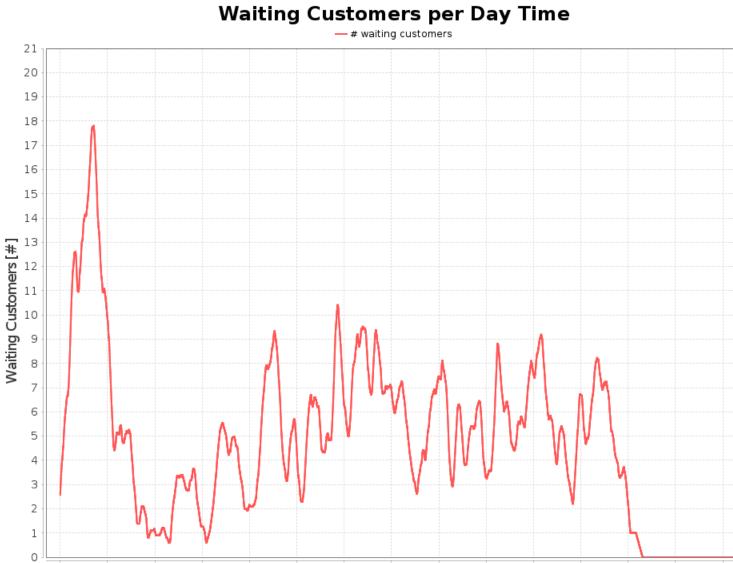
10.0% quantile	00:05:02
50.0% quantile	00:12:05
95.0% quantile	00:47:58
Mean	00:16:18
Maximum:	01:18:59

# Number of Requests per Wait Time



# Binned Waiting Times —10.0% quantile —50.0% quantile —95.0% quantile —Mean





14:00

Time

16:00

18:00

20:00

22:00

00:00

02:00

#### **Drive Times**

00:00

02:00

04:00

06:00

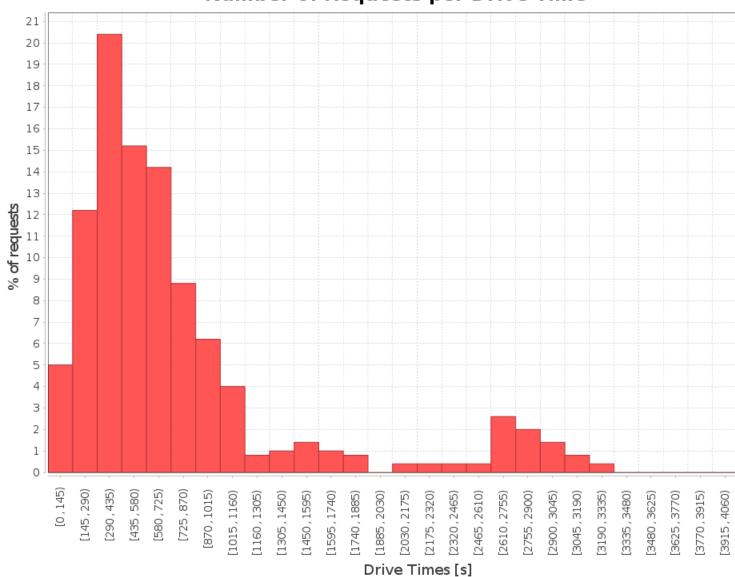
10.0% quantile	00:03:30
50.0% quantile	00:09:10
95.0% quantile	00:45:30
Mean	00:12:51
Maximum:	01:12:20

10:00

12:00

08:00

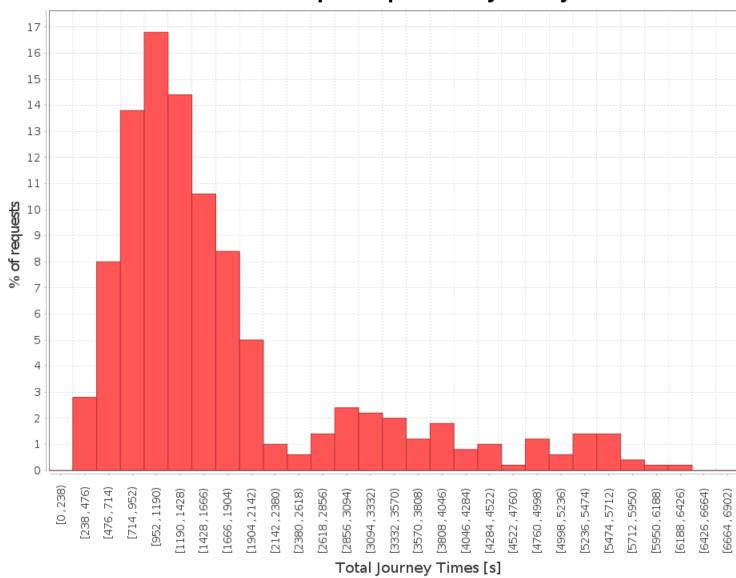
# Number of Requests per Drive Time



#### **Total Journey Times**

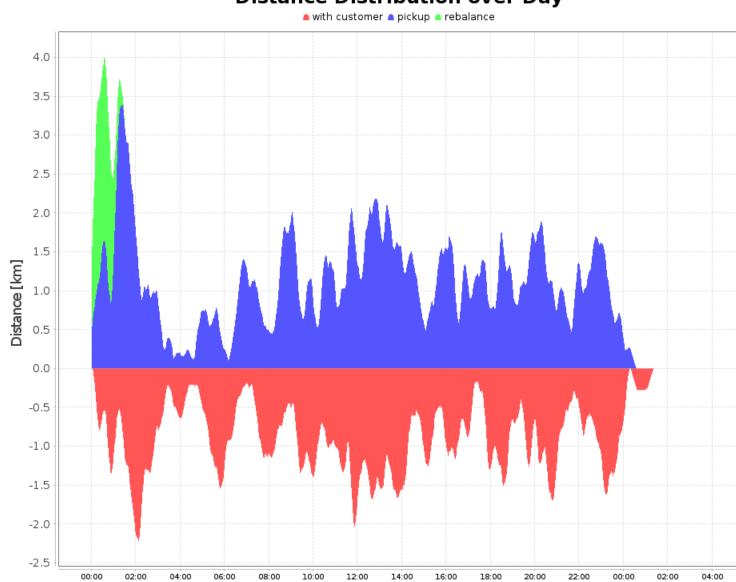
10.0% quantile	00:11:13
50.0% quantile	00:22:06
95.0% quantile	01:21:35
Mean	00:29:09
Maximum:	01:59:06

# Number of Requests per Total Journey Time

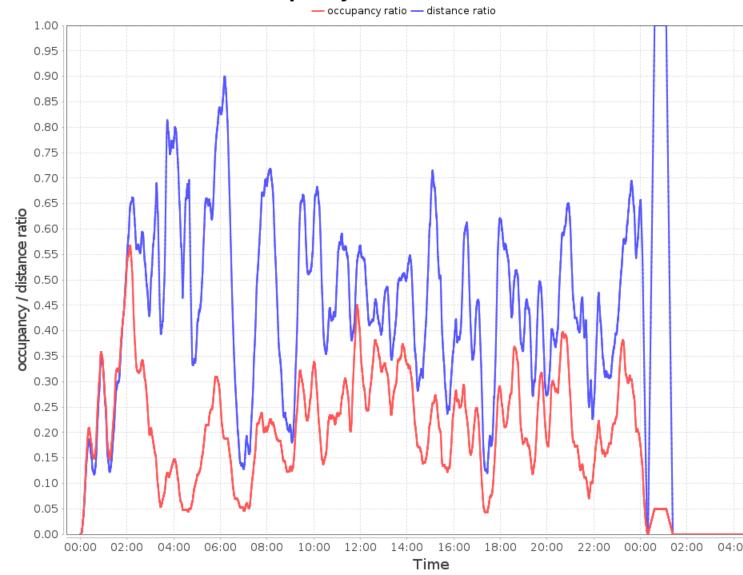


# **Fleet Efficiency**

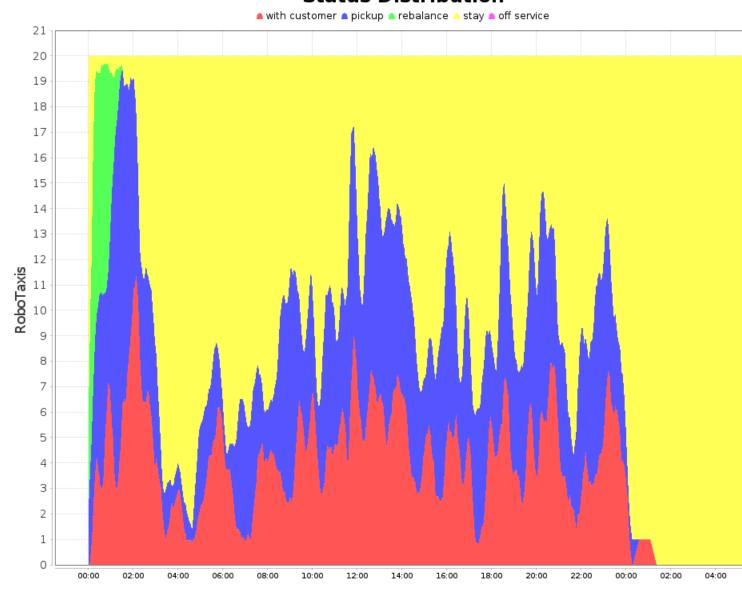
# **Distance Distribution over Day**



# Occupancy and Distance Ratios



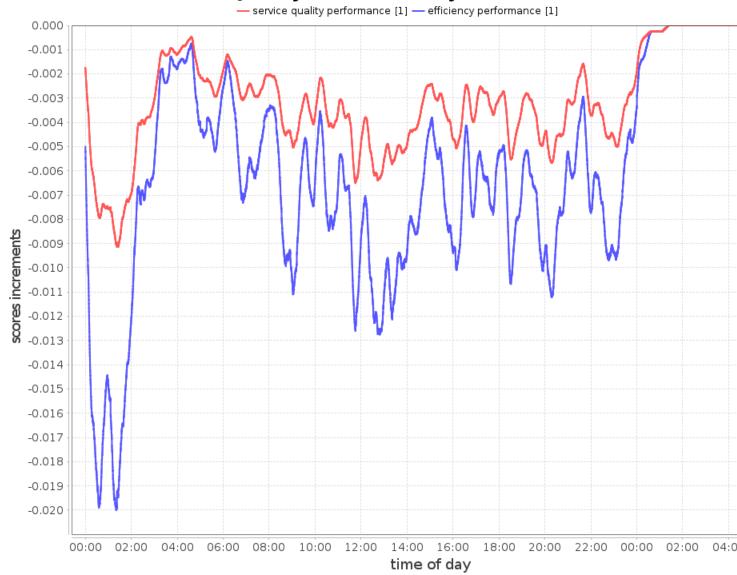
#### **Status Distribution**



# **Aido Scores**

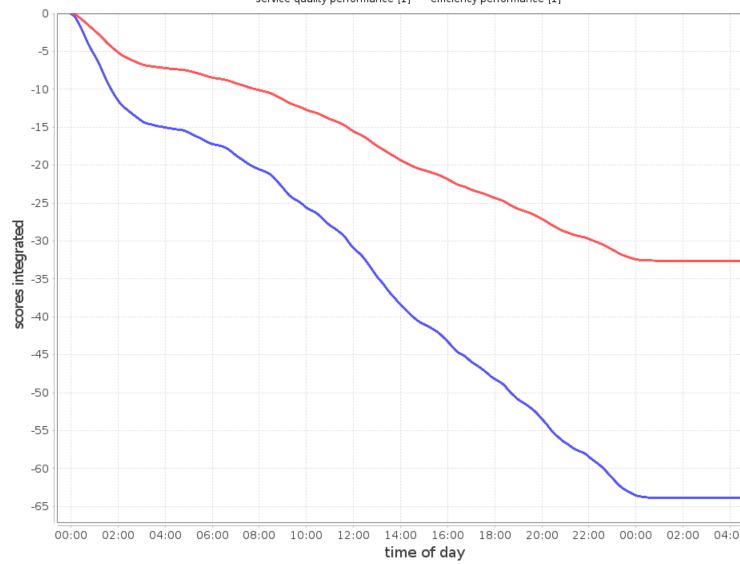
**Scores during Simulation** 

#### 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: -32.640257841471076

final efficiency score: -63.89231136588219

final fleet size score: -Infinity

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