

# **AMoDeus Simulation Report**

#### **Simulation Information**

User: root

Timestamp: 2018/11/21 - 20:57:00

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: 43.34%
Occupancy Ratio: 17.86 %

#### **Distances**

Total: 18917.88 km

Rebalancing: 608.76 km (3.22%)

Pickup: 10110.91 km (53.45%)

With Customer: 8198.21 km (43.34%)

Average Trip Distance: 16.40 km

#### **Total Distance Distribution**

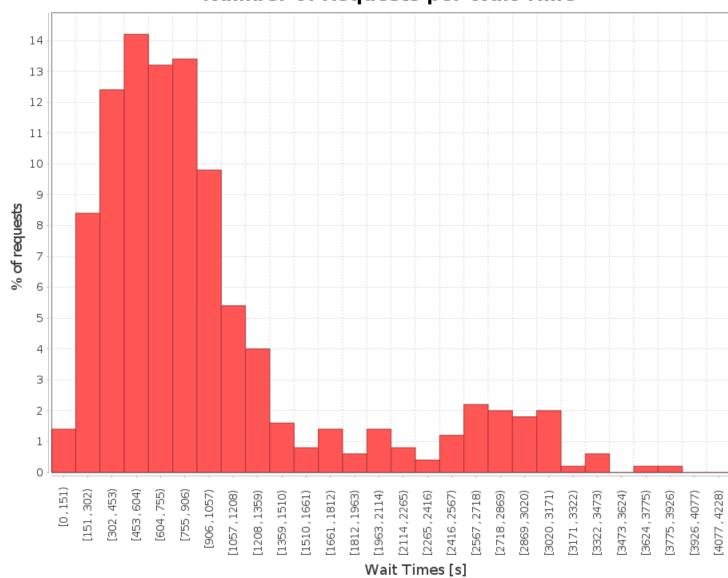
■ With Customer ■ Pickup ■ Rebalancing

0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0

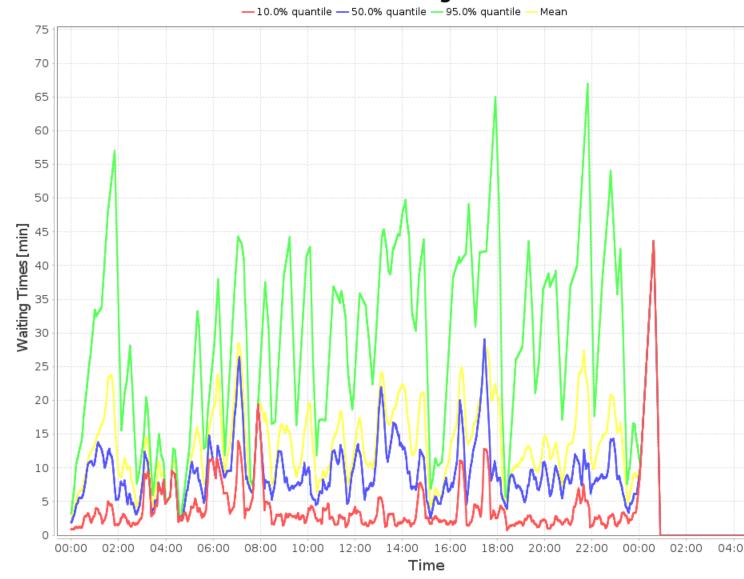
#### **Wait Times**

10.0% quantile	00:05:02
50.0% quantile	00:12:43
95.0% quantile	00:48:48
Mean	00:16:36
Maximum:	01:15:28

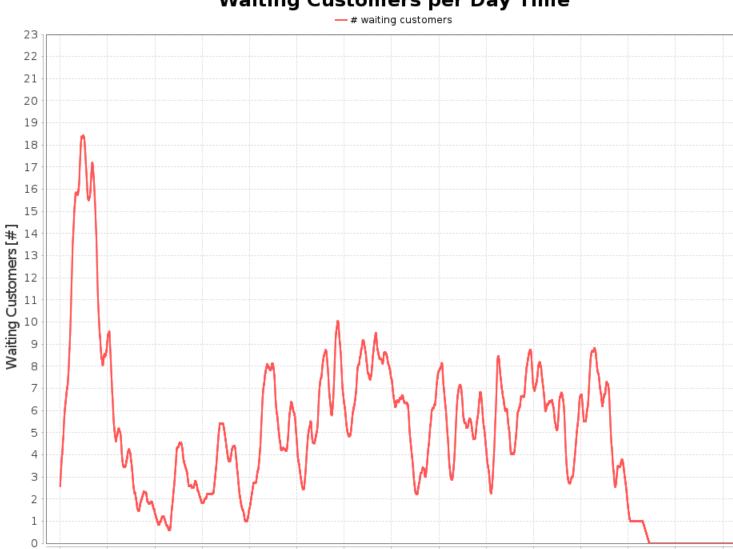
## Number of Requests per Wait Time



## **Binned Waiting Times**



## Waiting Customers per Day Time



14:00 16:00

Time

22:00

00:00

02:00

18:00 20:00

#### **Drive Times**

00:00

02:00

10.0% quantile	00:03:40
50.0% quantile	00:09:10
95.0% quantile	00:45:30
Mean	00:12:51
Maximum:	01:12:20

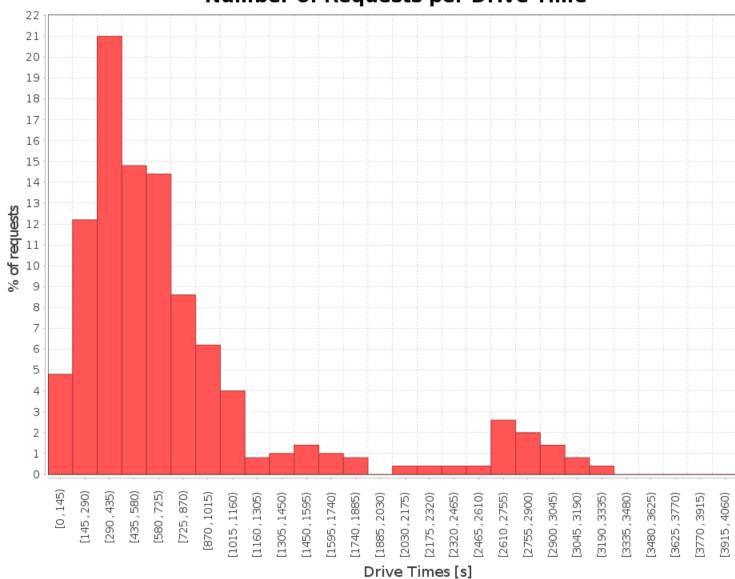
06:00

08:00

10:00

12:00

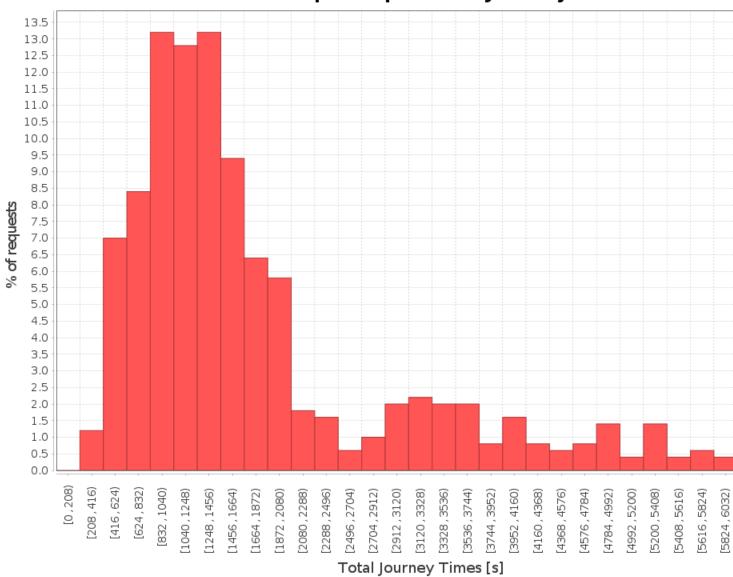
## Number of Requests per Drive Time



#### **Total Journey Times**

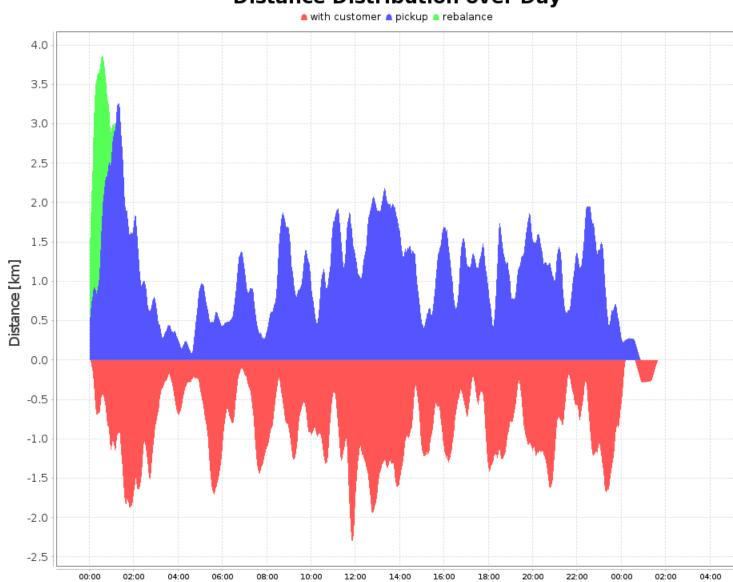
10.0% quantile	00:10:56
50.0% quantile	00:22:37
95.0% quantile	01:17:37
Mean	00:29:27
Maximum:	01:44:03

#### Number of Requests per Total Journey Time

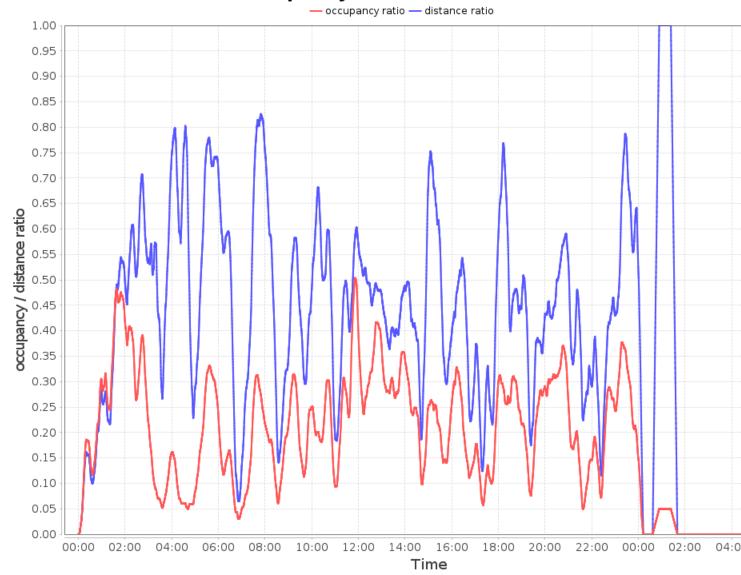


# **Fleet Efficiency**

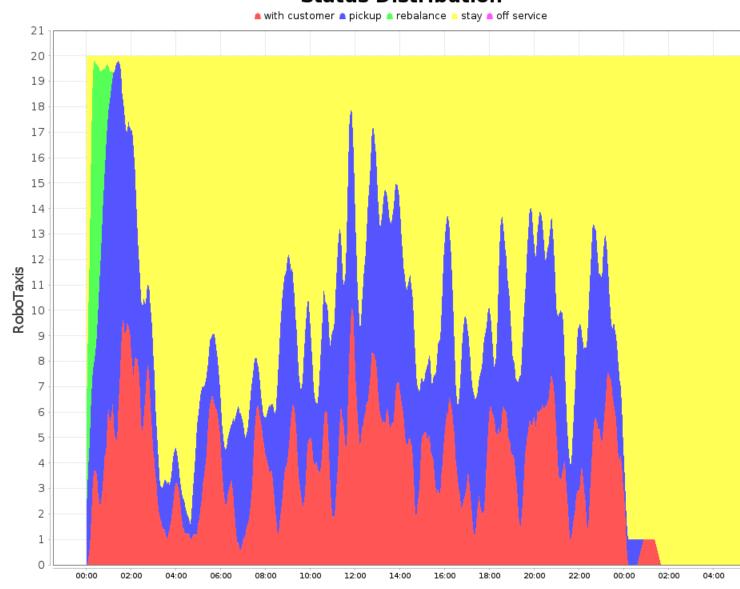
## **Distance Distribution over Day**



## **Occupancy and Distance Ratios**



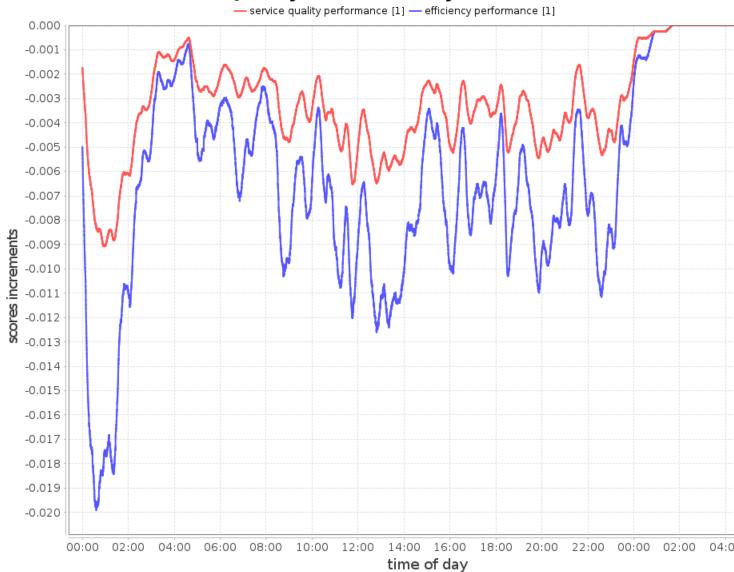
#### **Status Distribution**



## **Aido Scores**

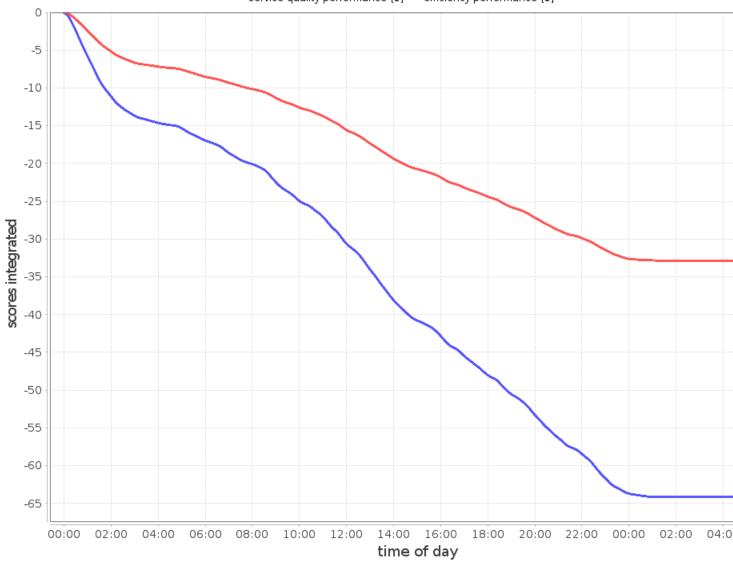
**Scores during Simulation** 

## Service Quality and Efficiency Score Increments



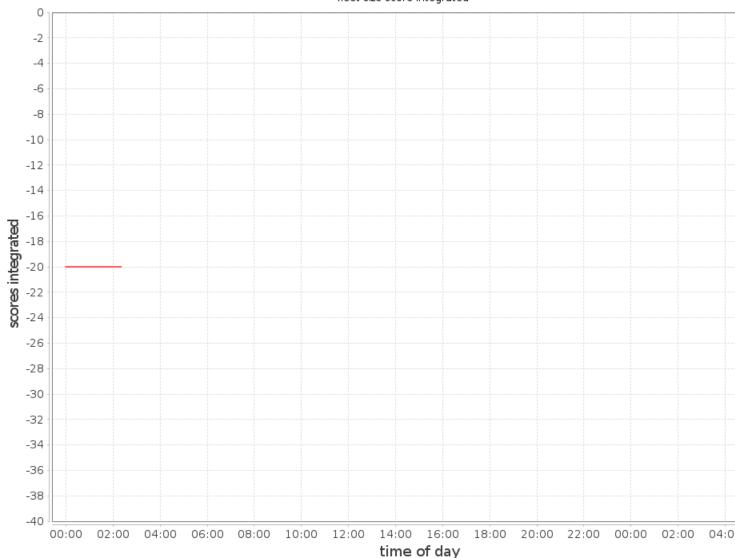
## Service Quality and Efficiency Score Integrated

— service quality performance [1] — efficiency performance [1]



#### Fleet Size Score Integrated

- fleet size score integrated



#### **Final Scores**

final service quality score: -32.87038394834193

final efficiency score: -64.14325579336746

final fleet size score: -Infinity

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