

# **AMoDeus Simulation Report**

#### **Simulation Information**

User: root

Timestamp: 2019/04/24 - 09:05:17

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: 43.97%
Occupancy Ratio: 17.86 %

#### **Distances**

Total: 18637.36 km

Rebalancing: 644.68 km (3.46%)

Pickup: 9797.76 km (52.57%)

With Customer: 8194.92 km (43.97%)

Average Trip Distance: 16.39 km

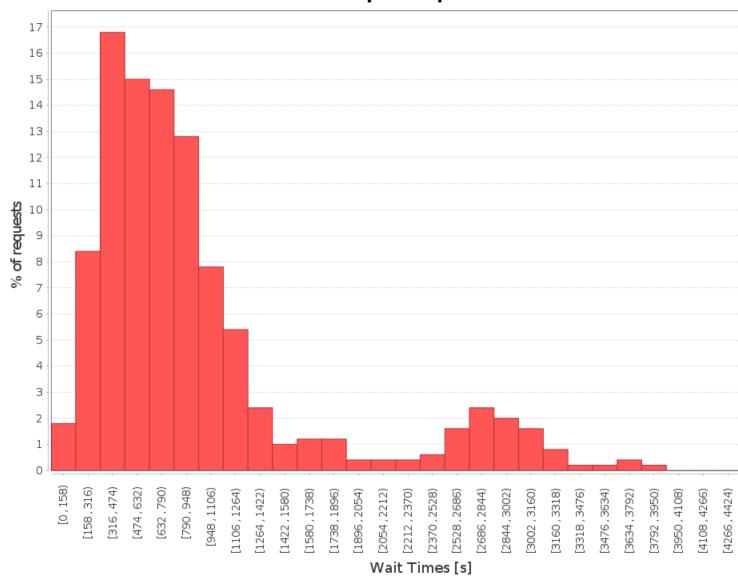
#### **Total Distance Distribution**



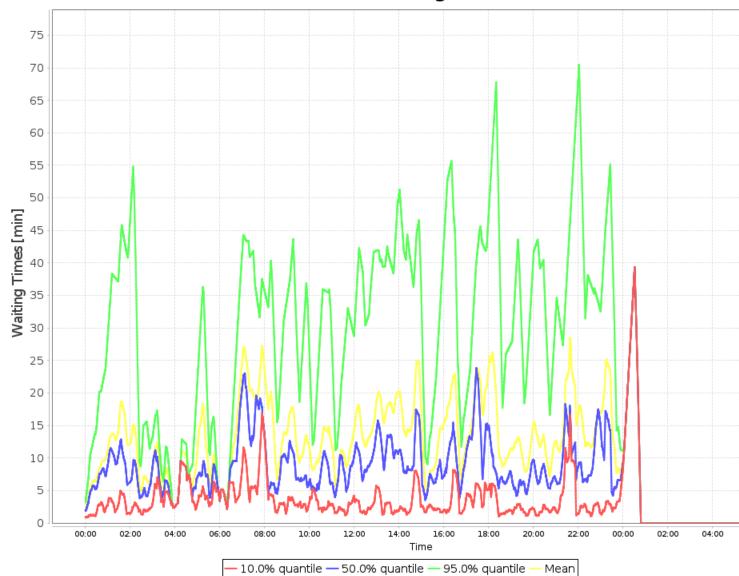
#### **Wait Times**

10.0% quantile	00:05:08
50.0% quantile	00:12:02
95.0% quantile	00:47:46
Mean	00:15:55
Maximum:	01:18:59

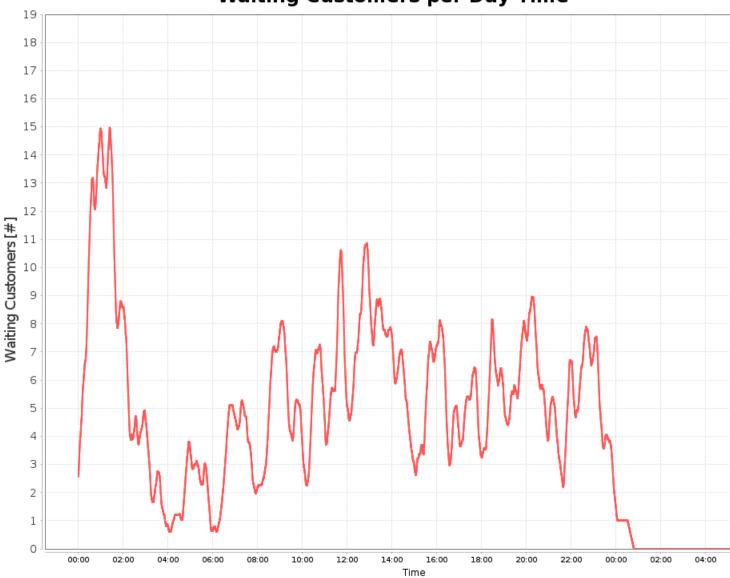
### Number of Requests per Wait Time



## **Binned Waiting Times**



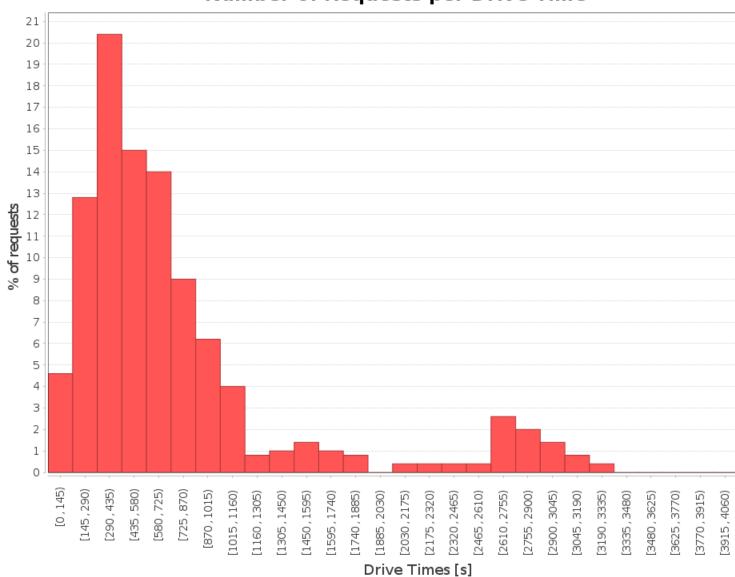
## Waiting Customers per Day Time



#### **Drive Times**

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

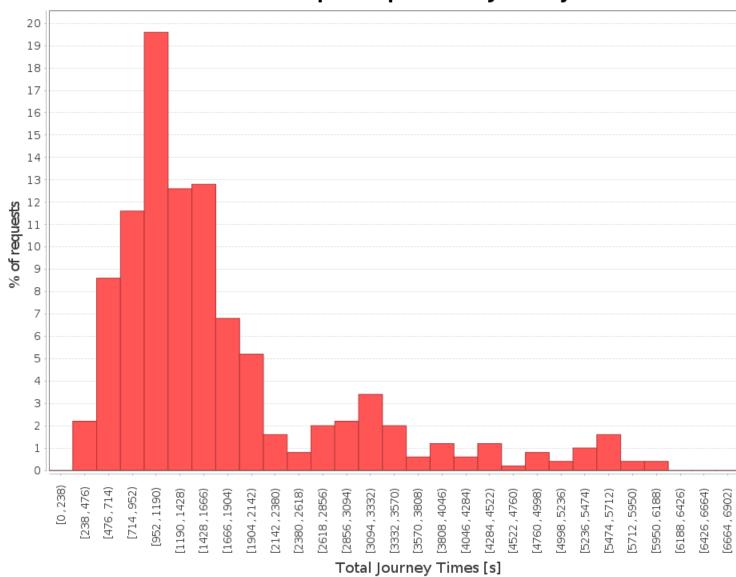
### Number of Requests per Drive Time



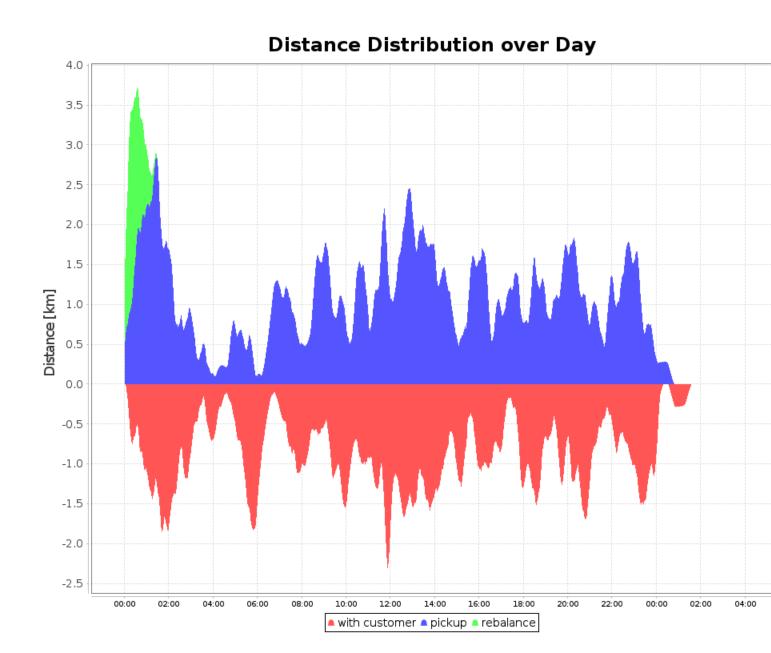
#### **Total Journey Times**

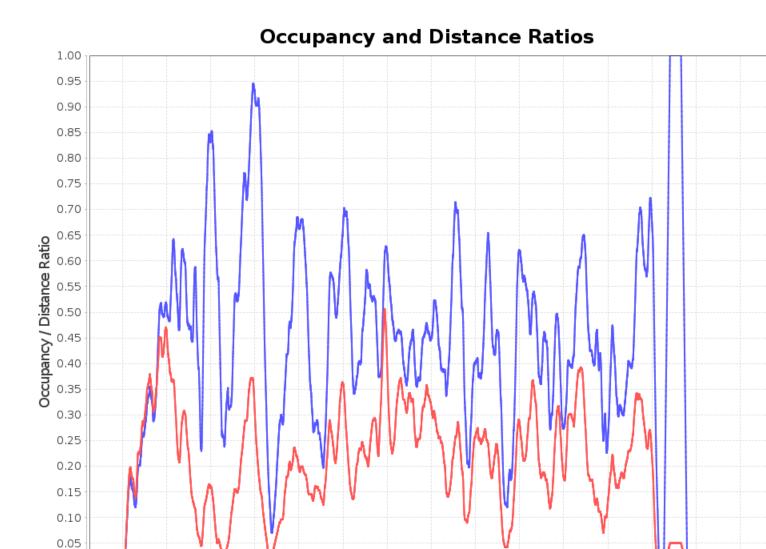
10.0% quantile	00:11:30
50.0% quantile	00:22:03
95.0% quantile	01:14:25
Mean	00:28:47
Maximum:	01:59:06

### Number of Requests per Total Journey Time



# **Fleet Efficiency**





0.00

00:00

02:00

04:00

08:00

06:00

10:00

12:00

14:00

- occupancy ratio — distance ratio

16:00

Time

18:00

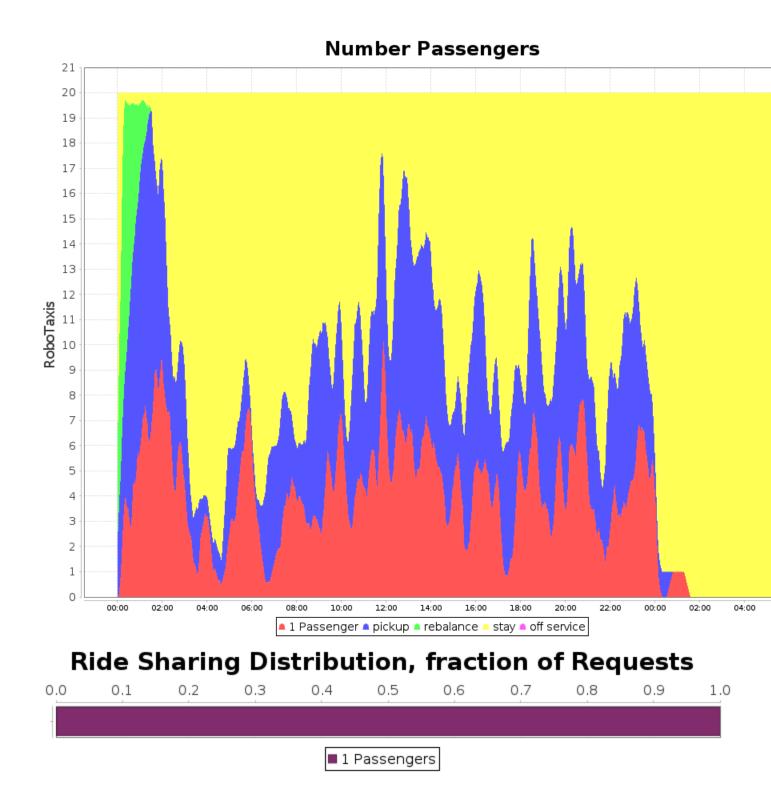
20:00

22:00

00:00

02:00

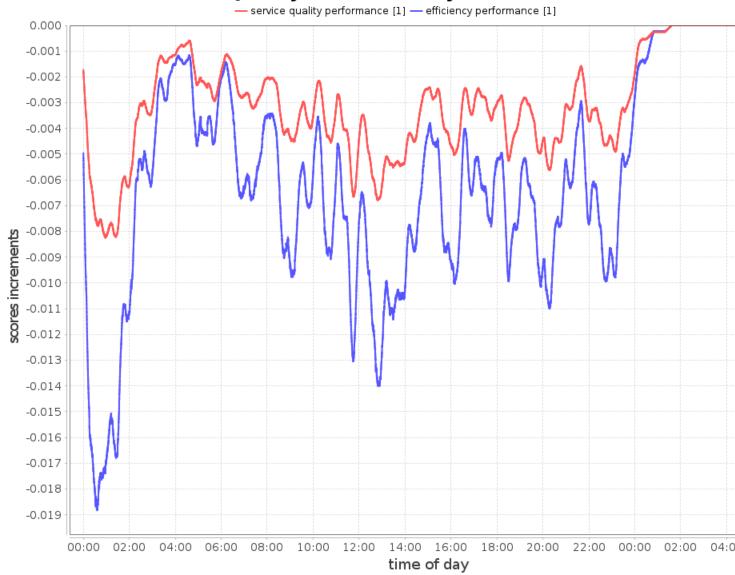
04:00



#### **Aido Scores**

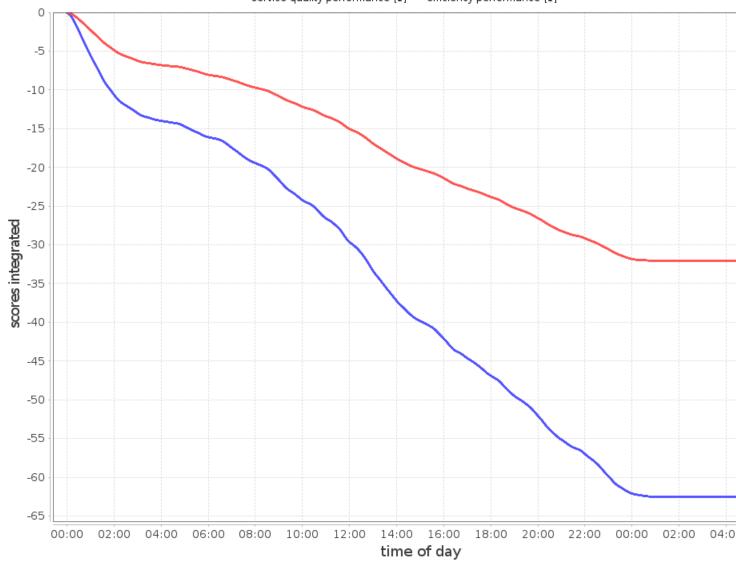
**Scores during Simulation** 

#### Service Quality and Efficiency Score Increments



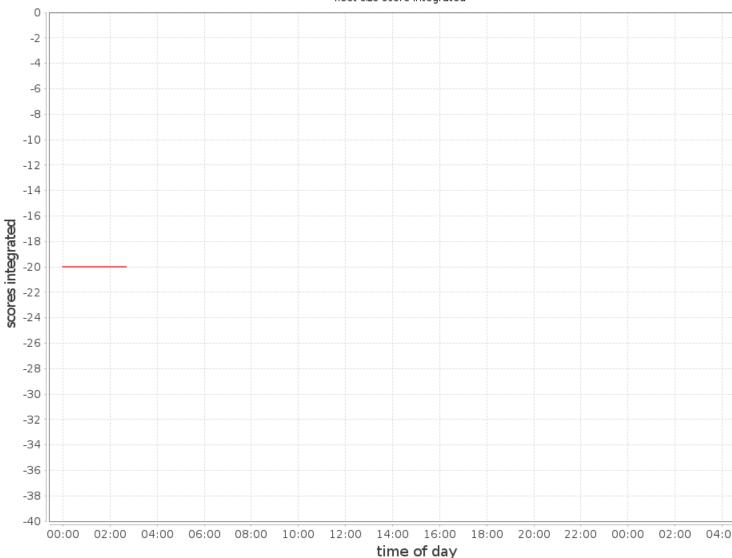
### Service Quality and Efficiency Score Integrated

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



#### Fleet Size Score Integrated

- fleet size score integrated



#### **Final Scores**

final service quality score: -32.09069227440324

final efficiency score: -62.55208909761053

final fleet size score: -Infinity

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