

# CHALMERS

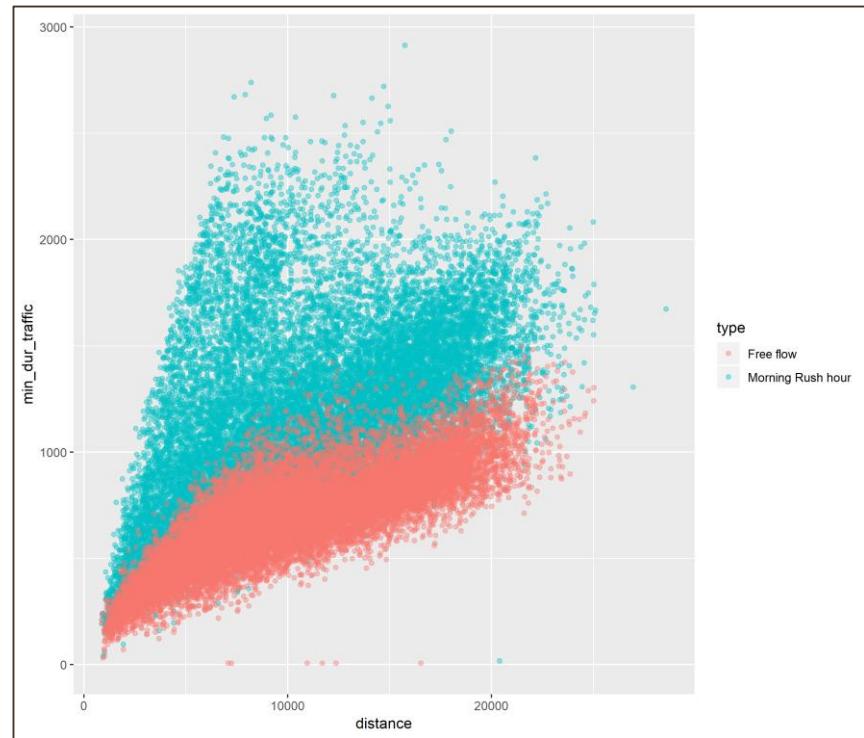
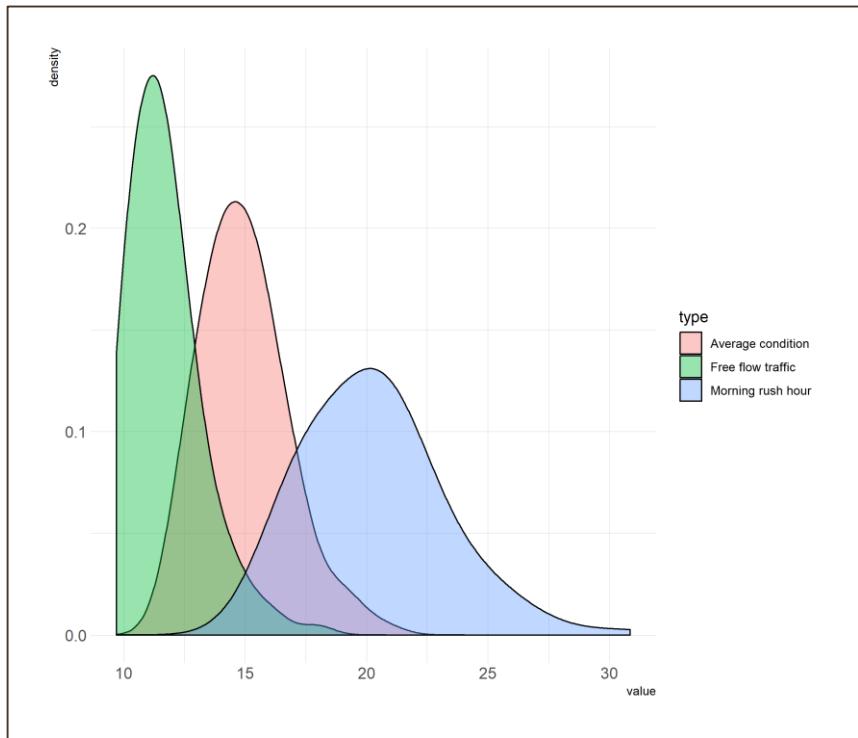
# SPATIALIZING CONGESTION

## PRELIMINARY RESULTS

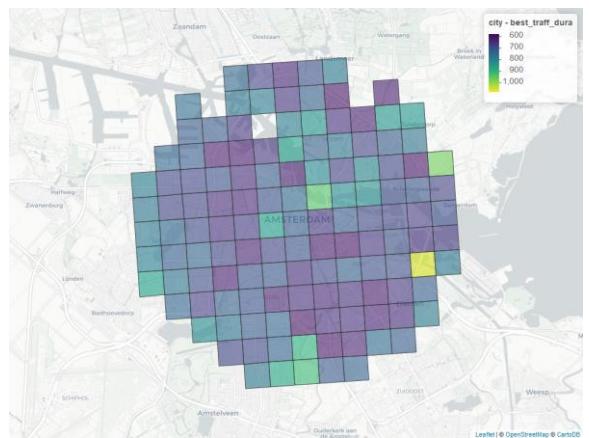
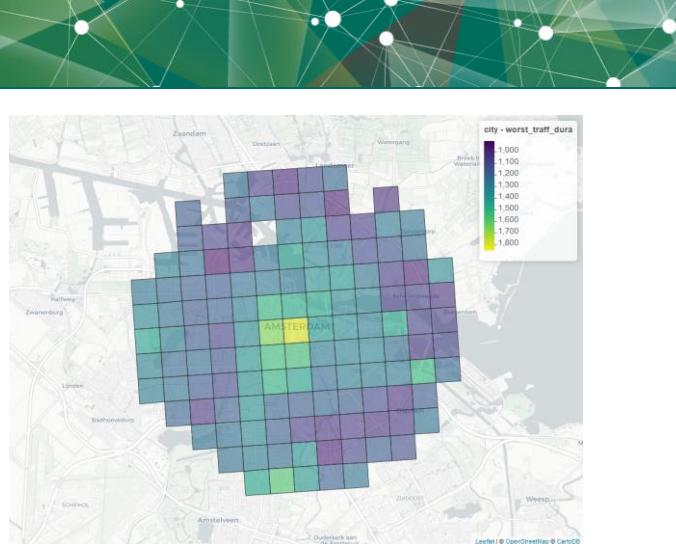
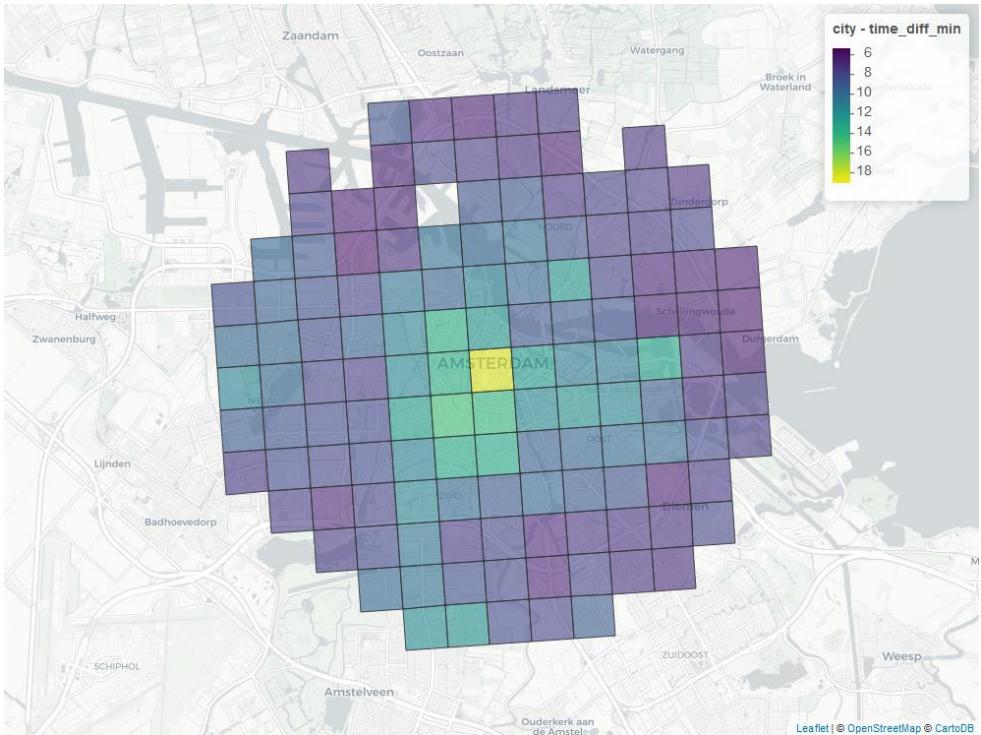




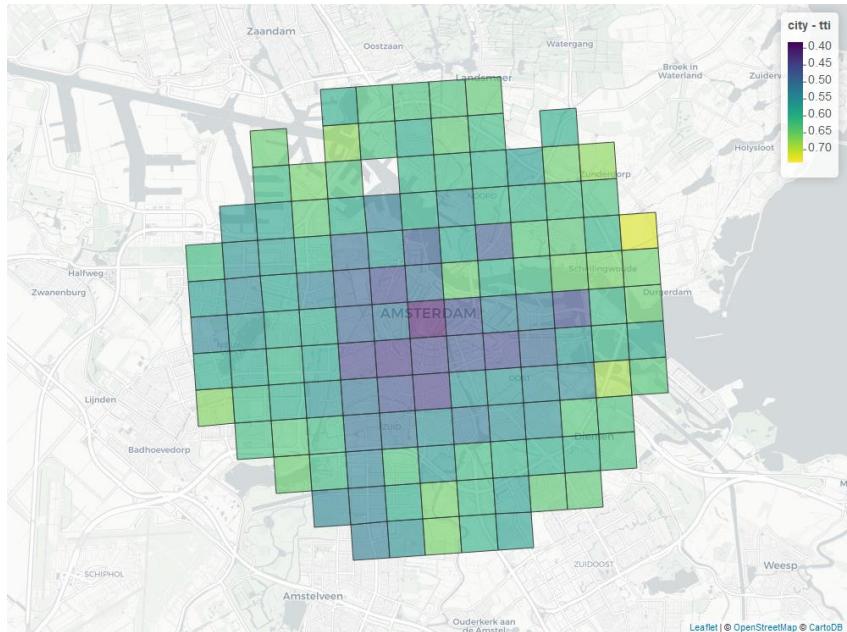
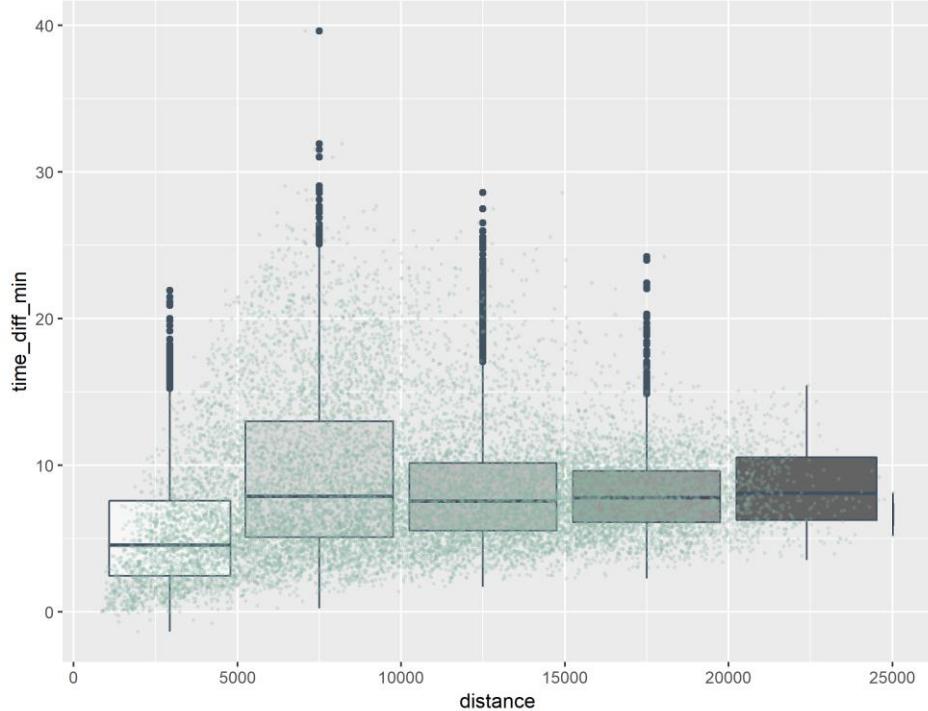
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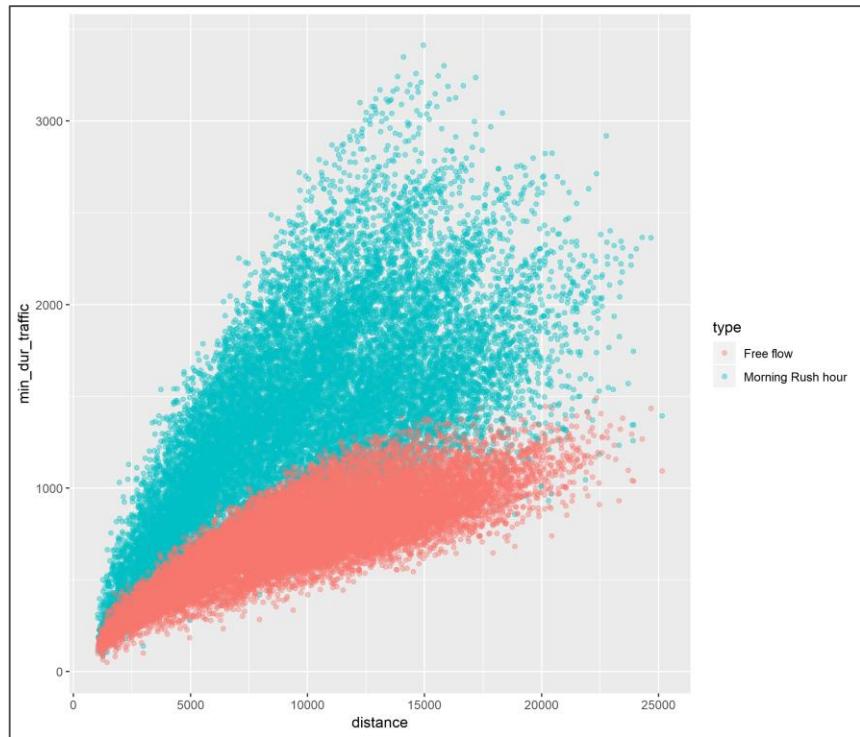
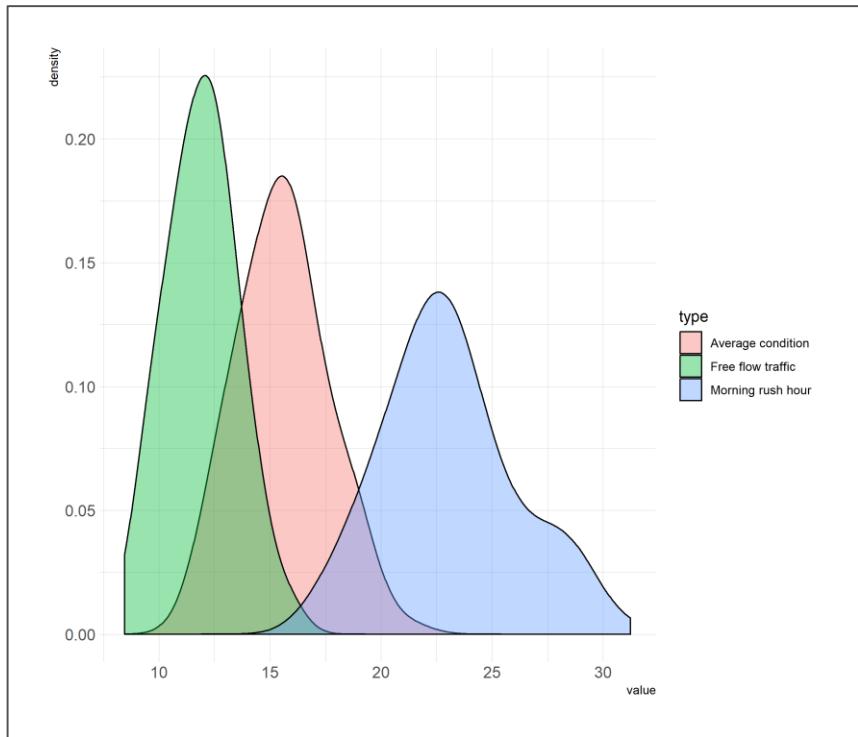
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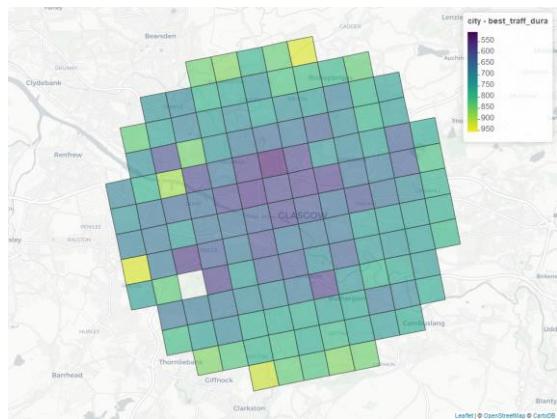
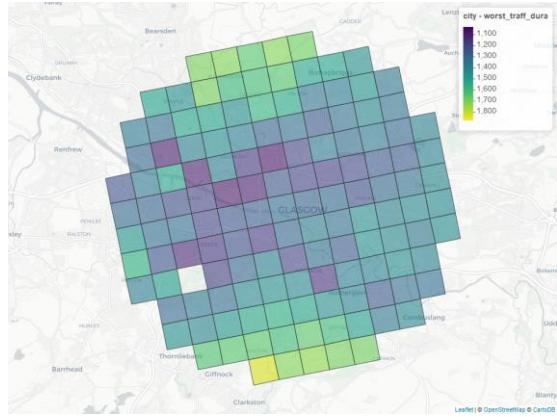
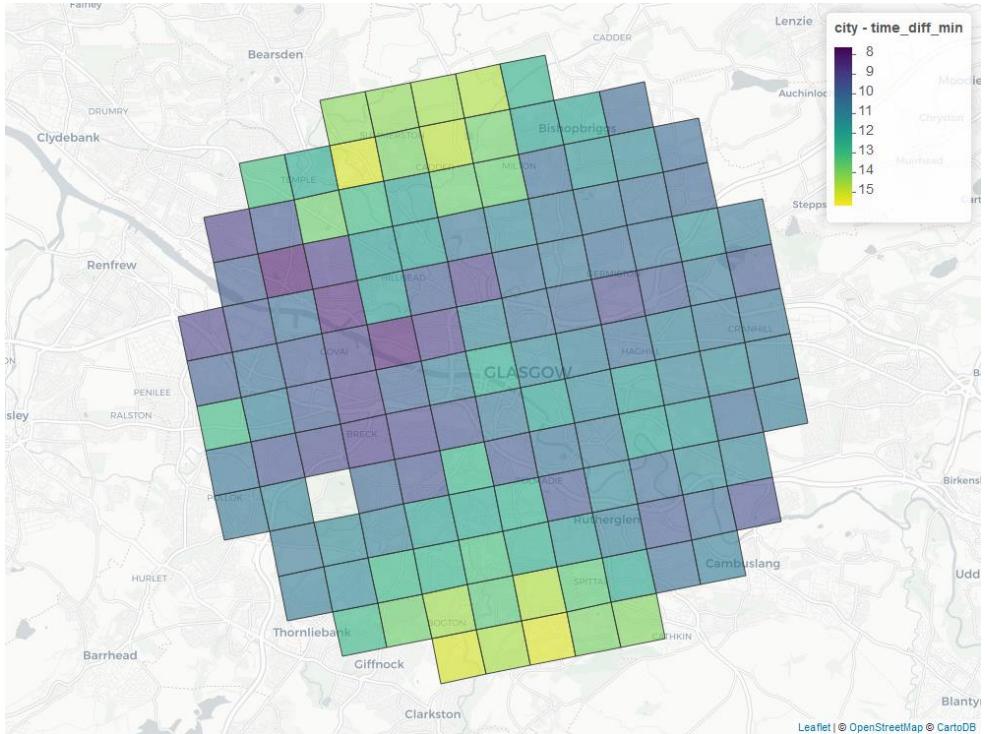
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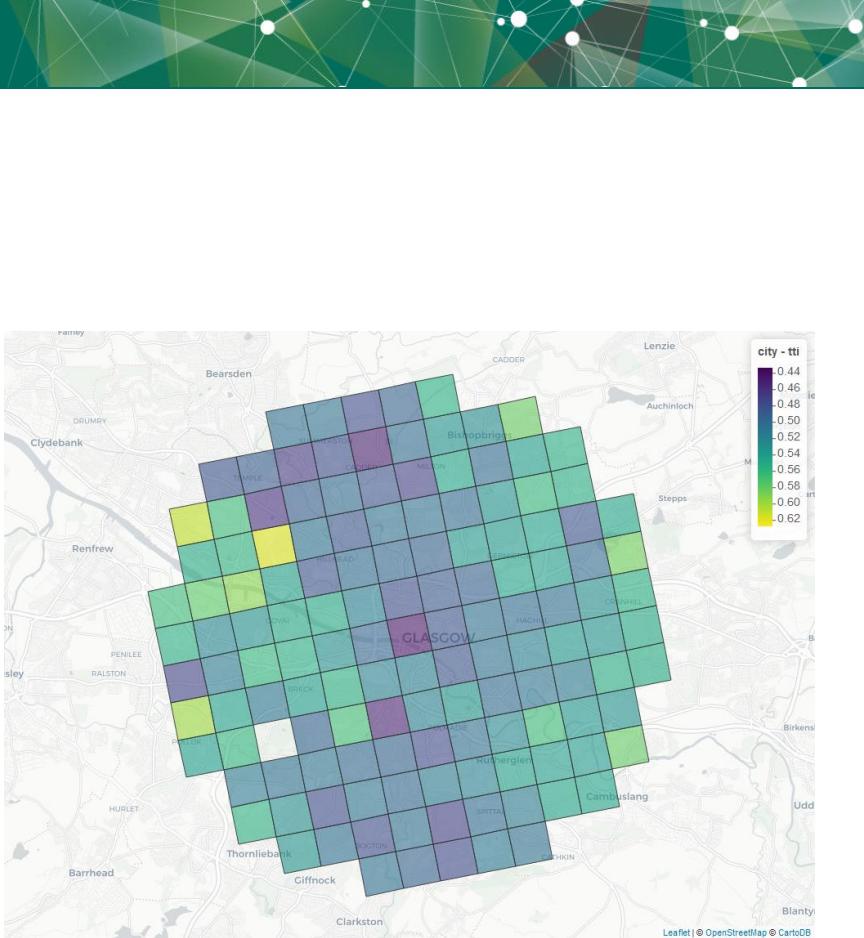
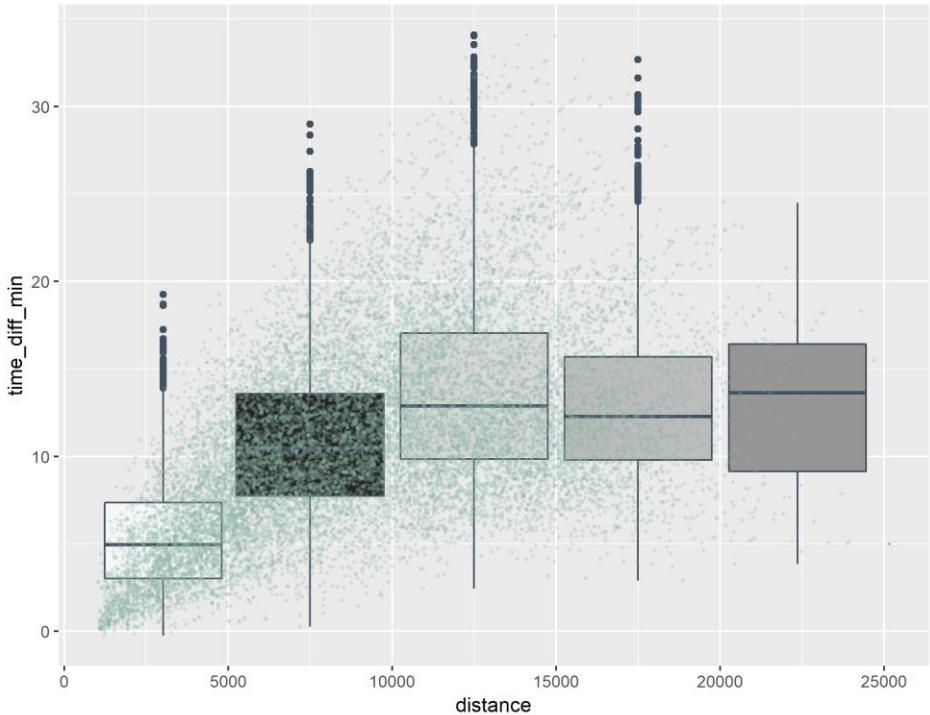
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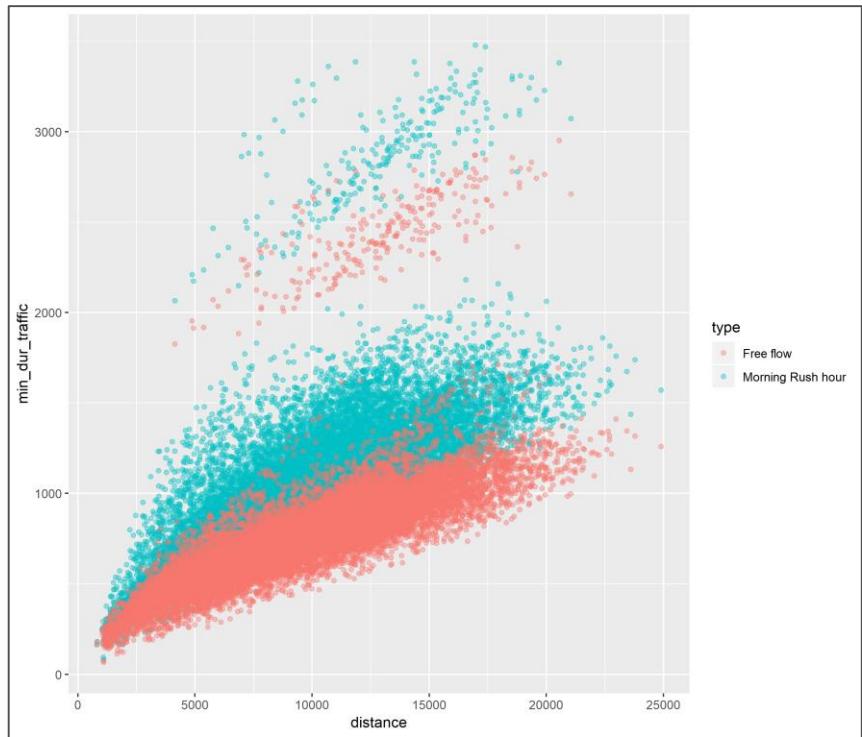
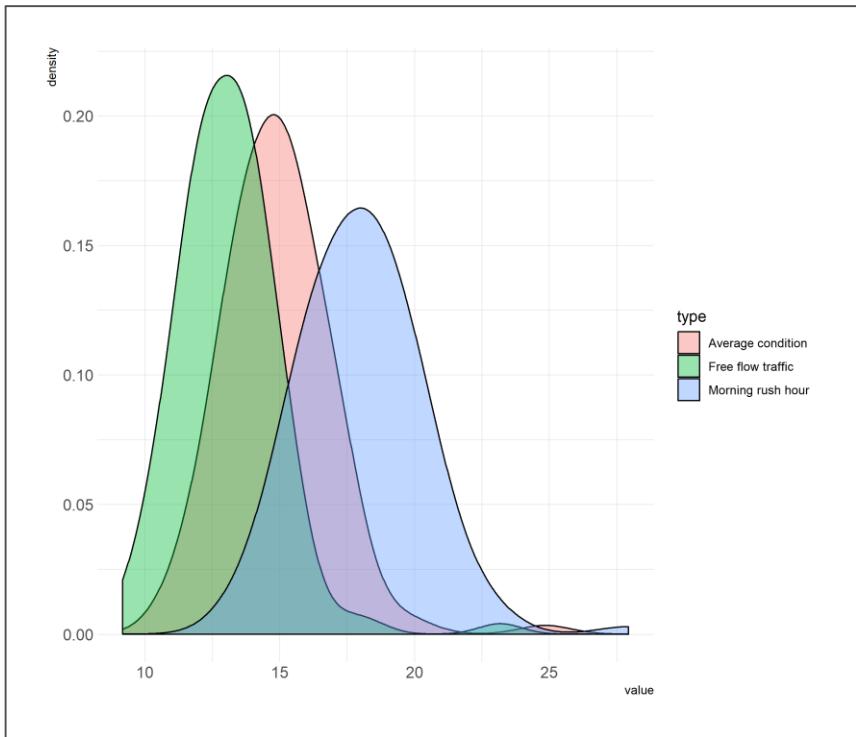
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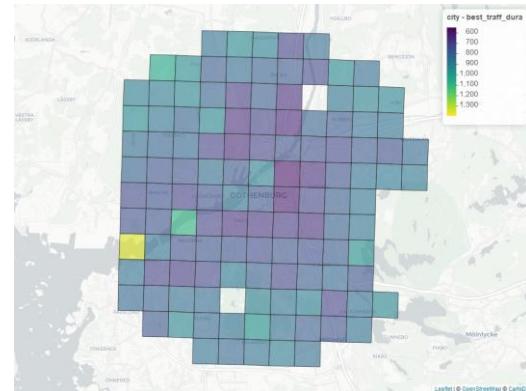
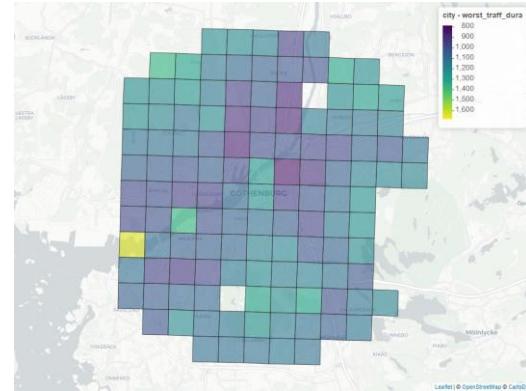
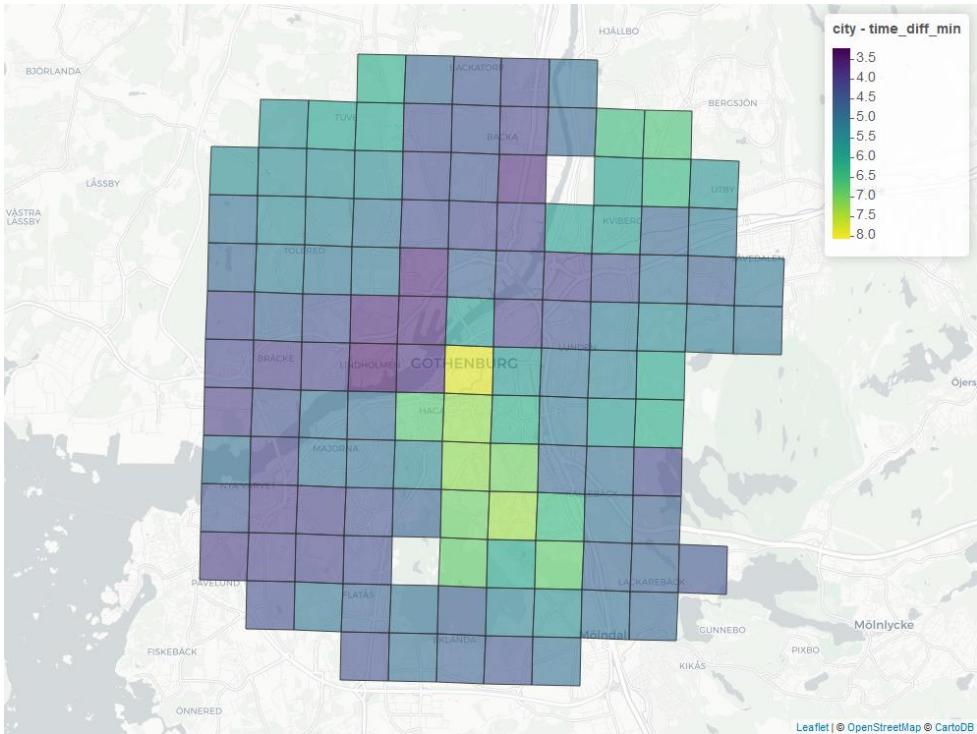
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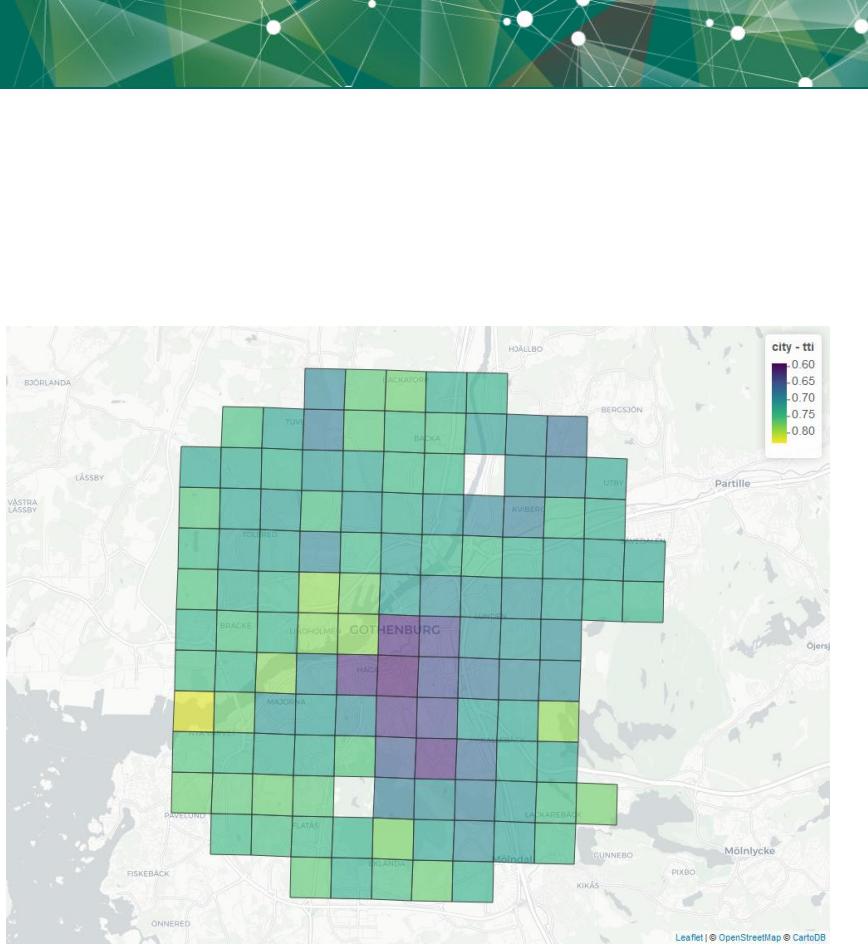
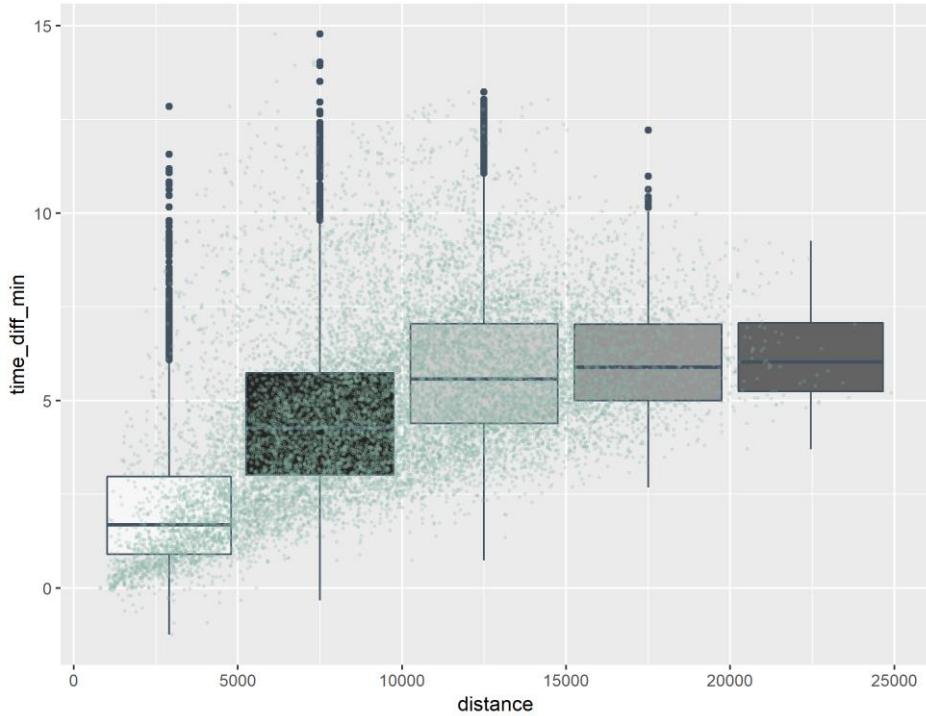
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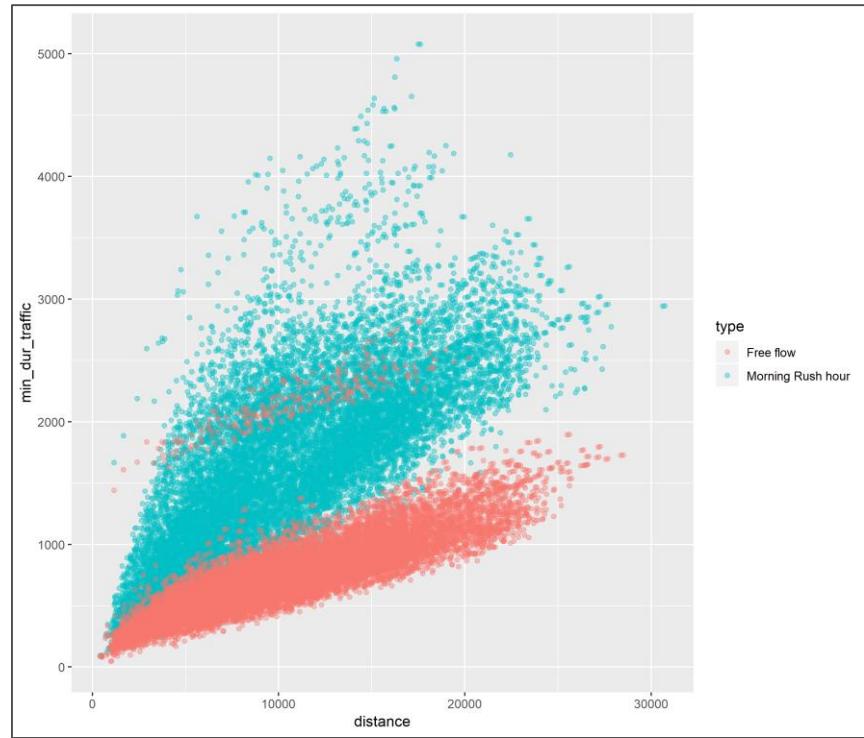
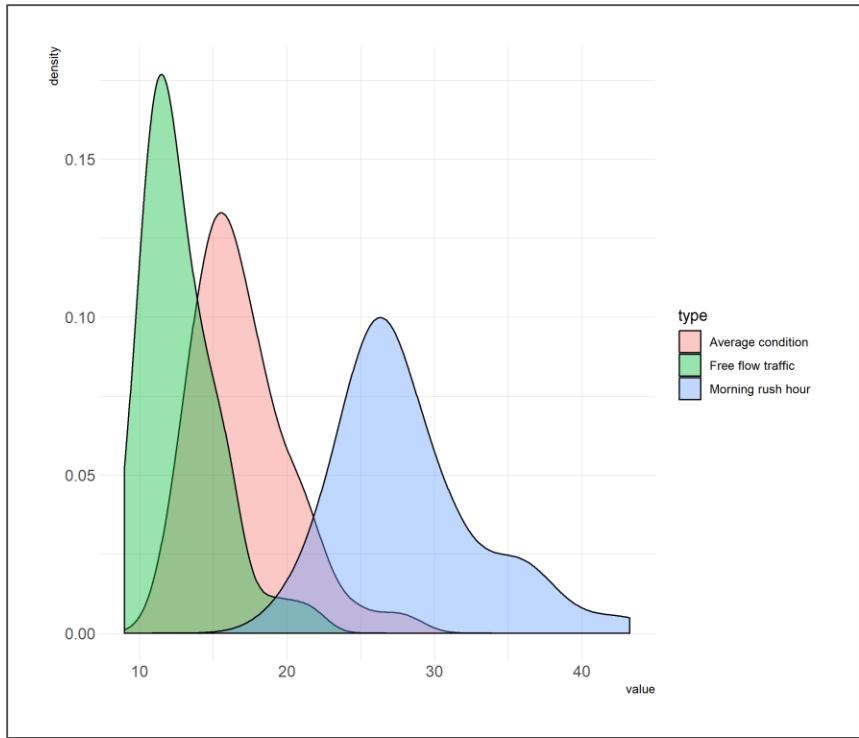
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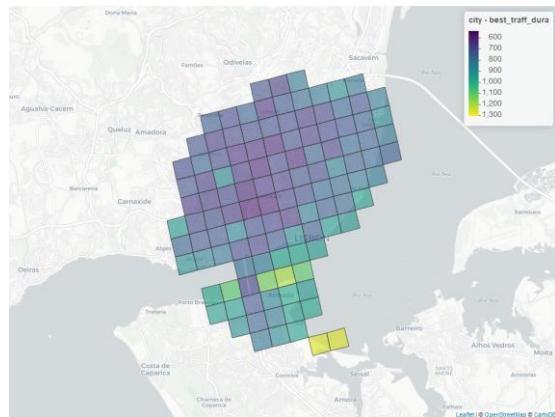
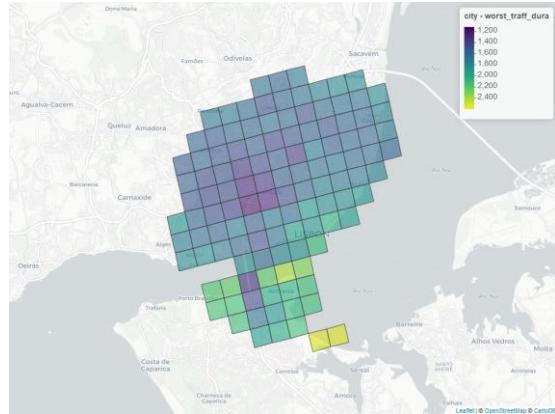
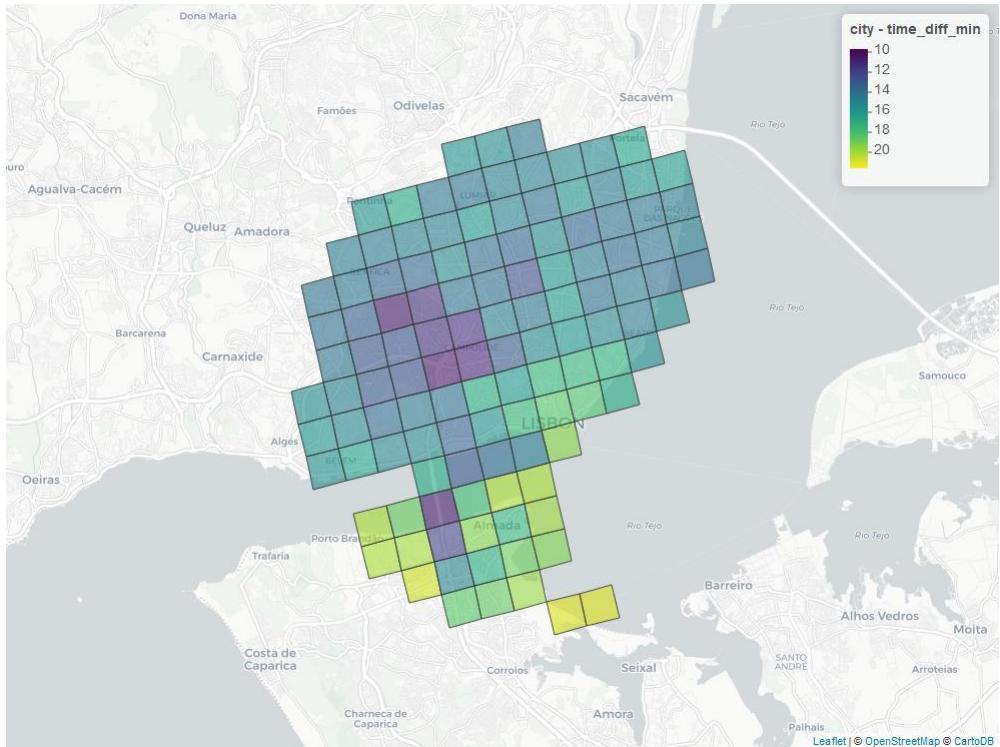
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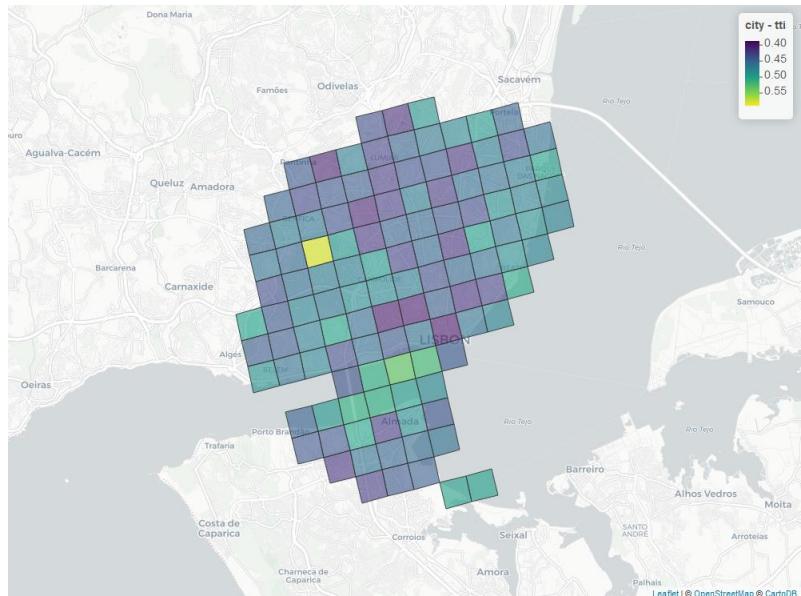
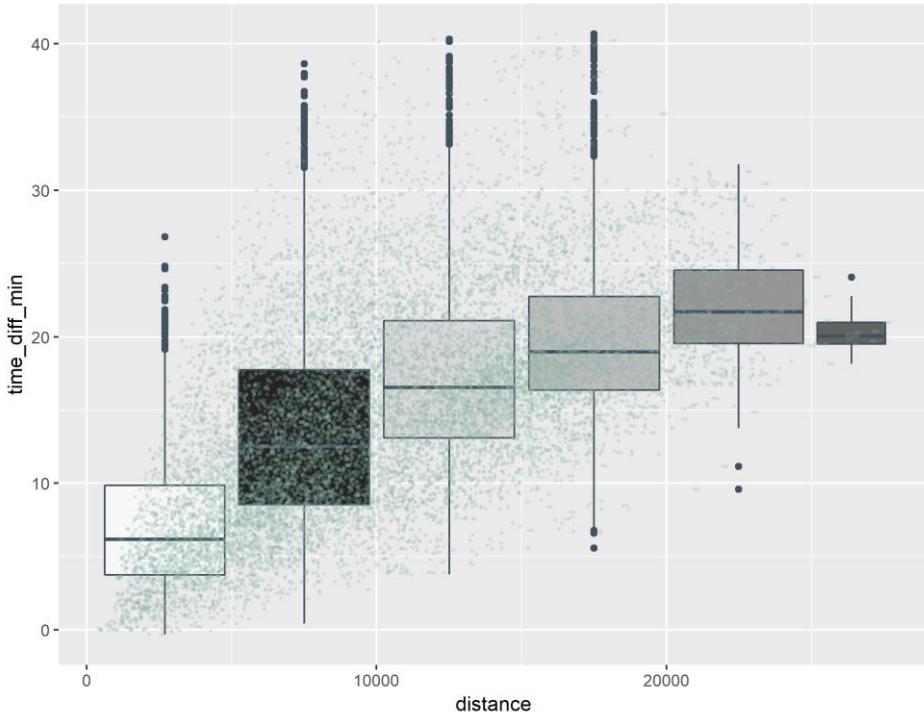
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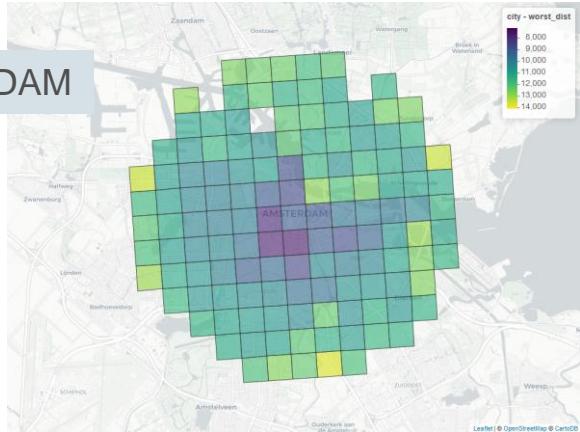
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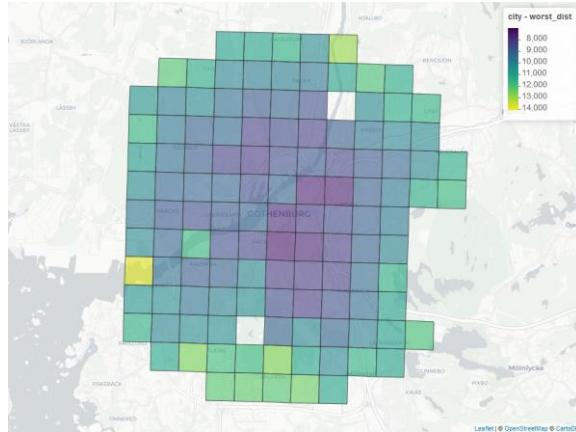
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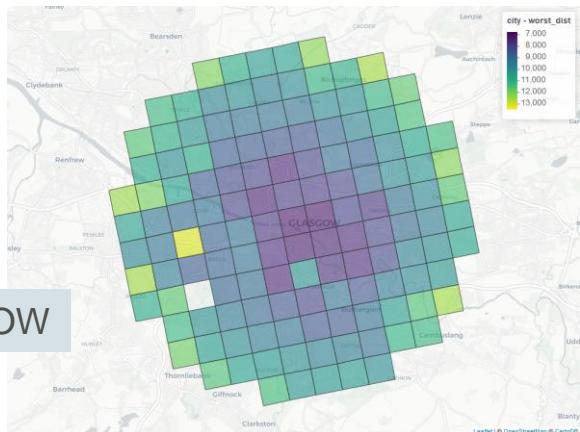
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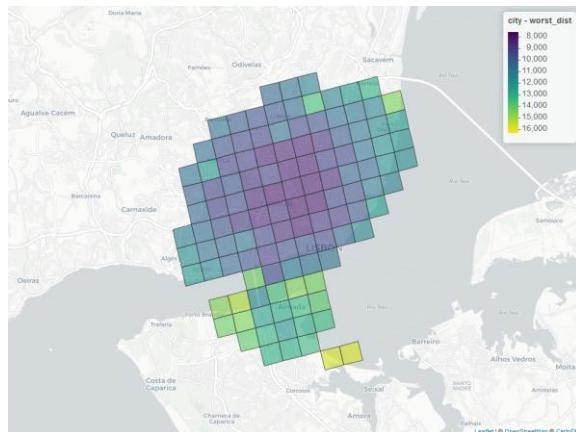
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GLASGOW

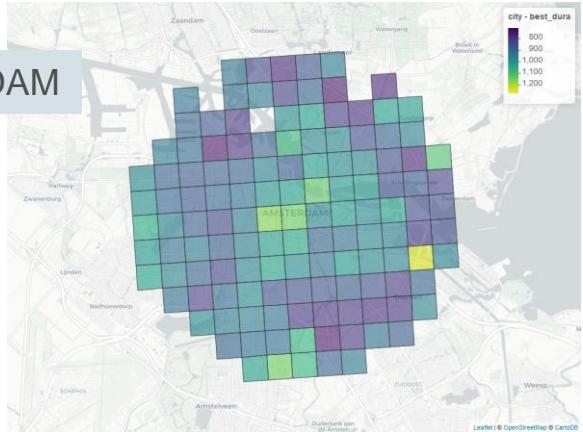


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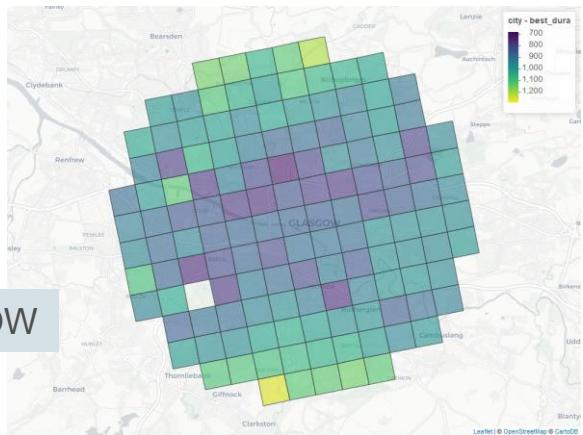


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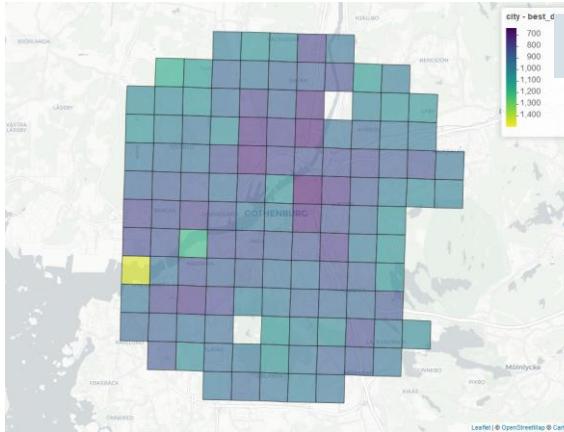
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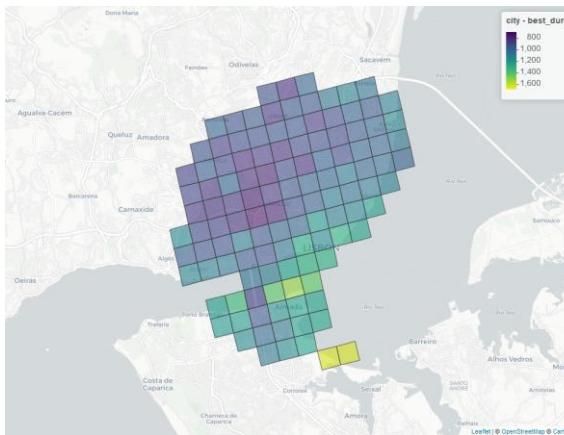
GLASGOW



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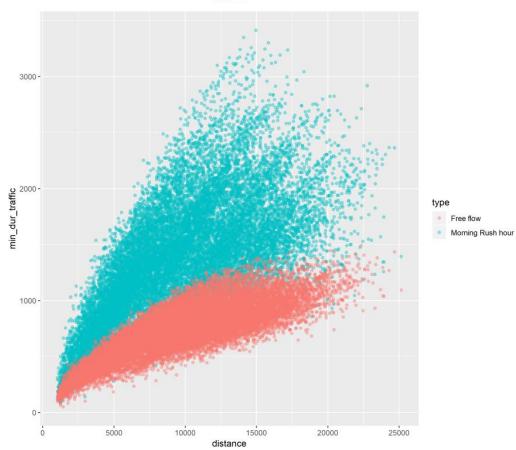
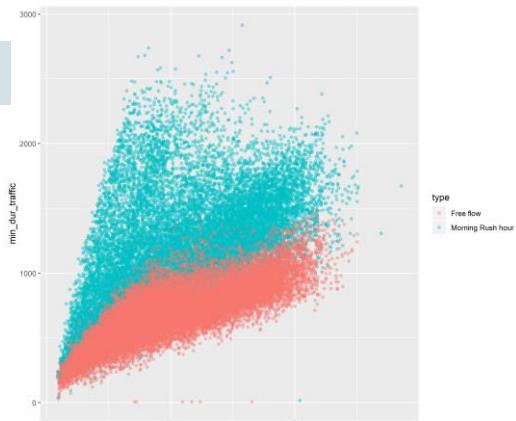


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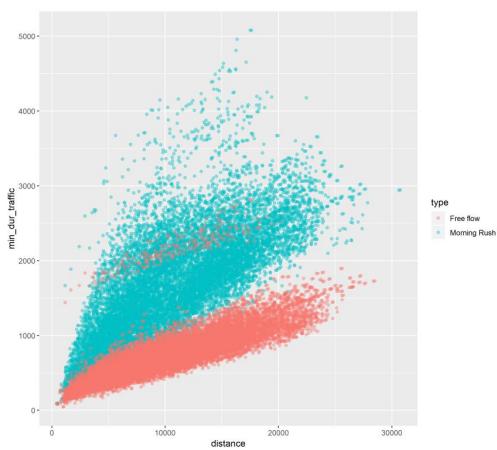
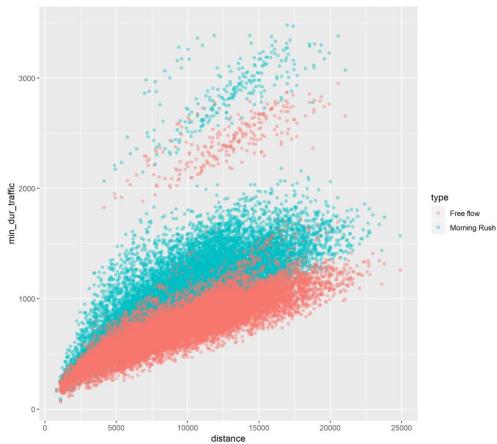


## TIME VS DISTANCE

AMSTERDAM



GOTEBORG

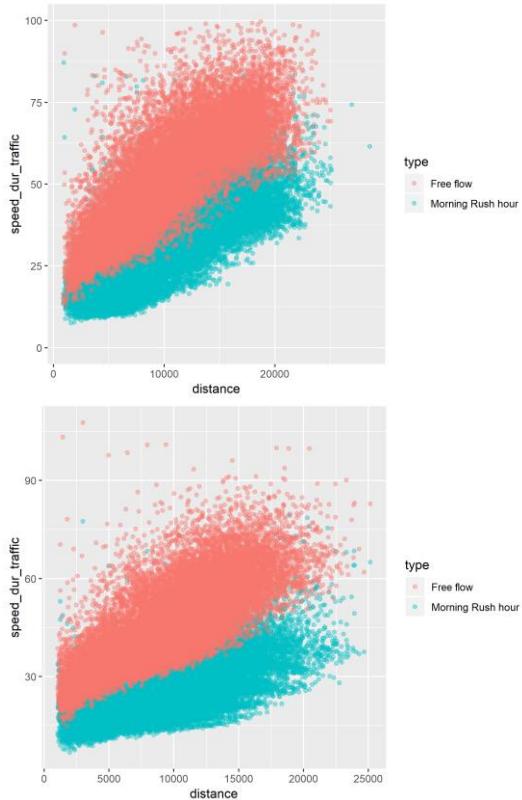


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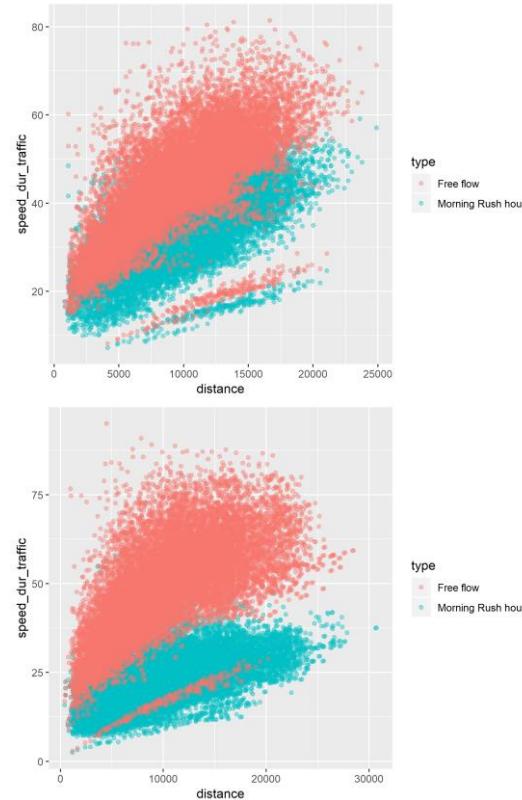
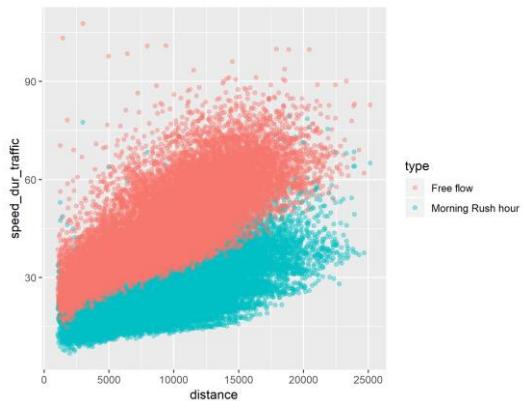
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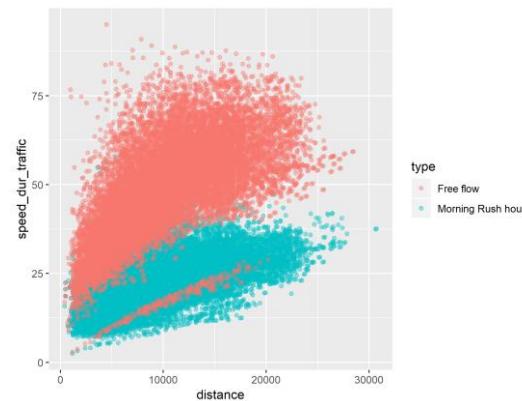
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GLASGOW



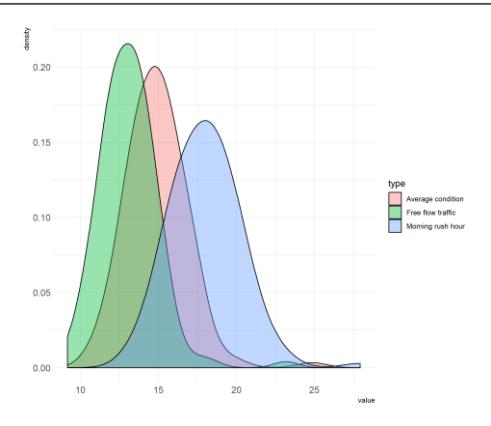
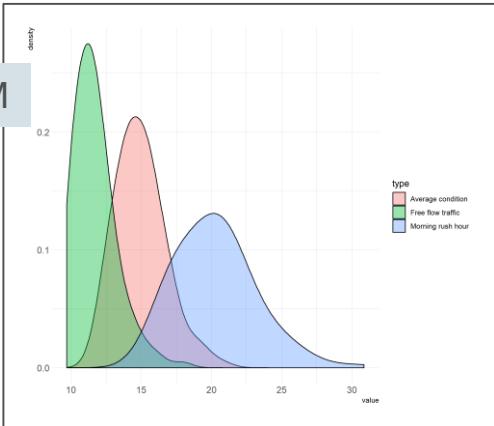
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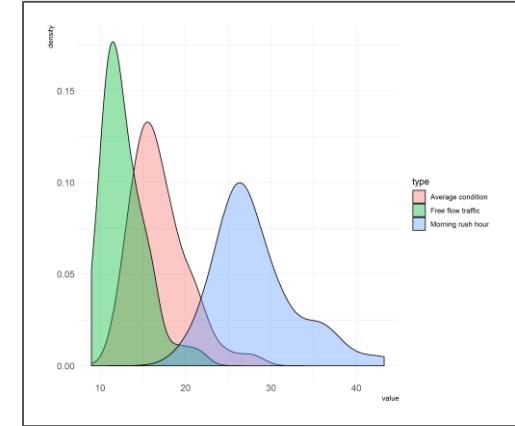
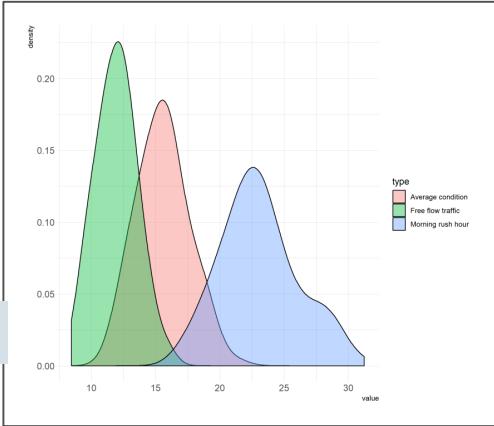
LISBON

## TIME HISTOGRAMS

AMSTERDAM



GLASGOW

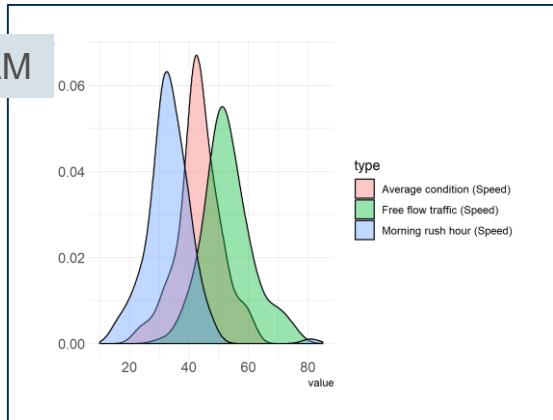


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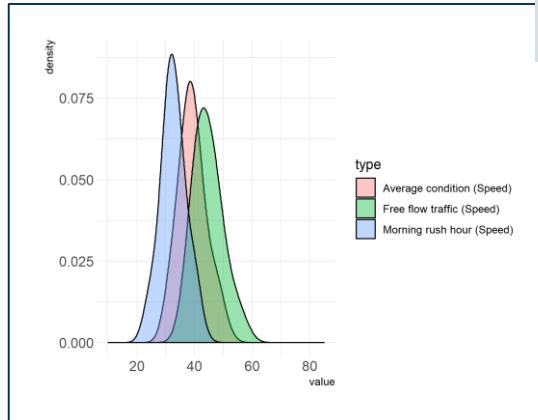
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## SPEED HISTOGRAMS

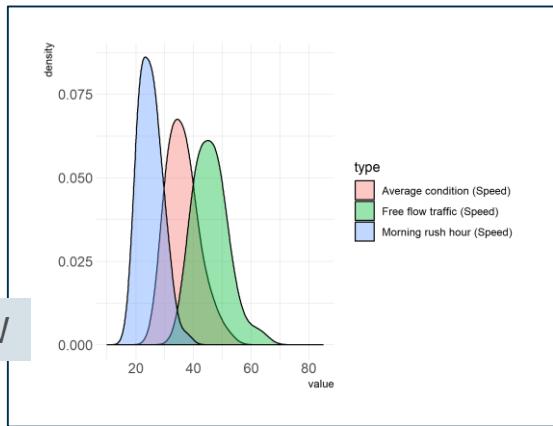
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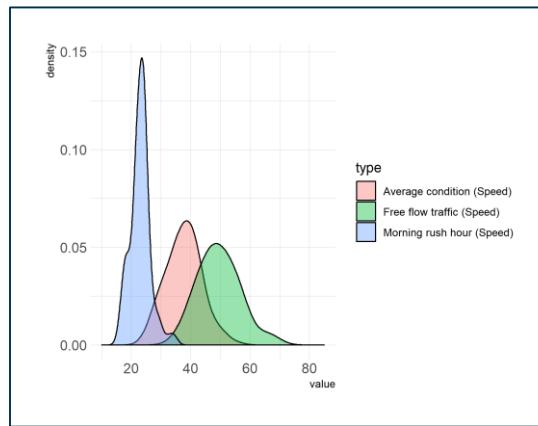
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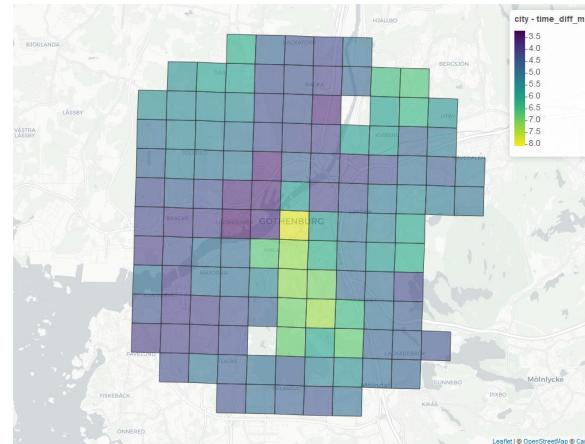
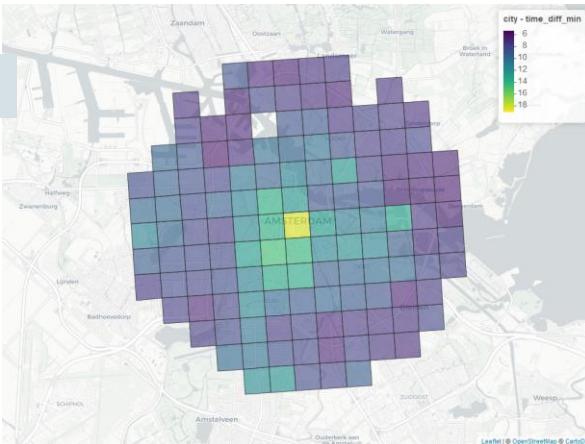


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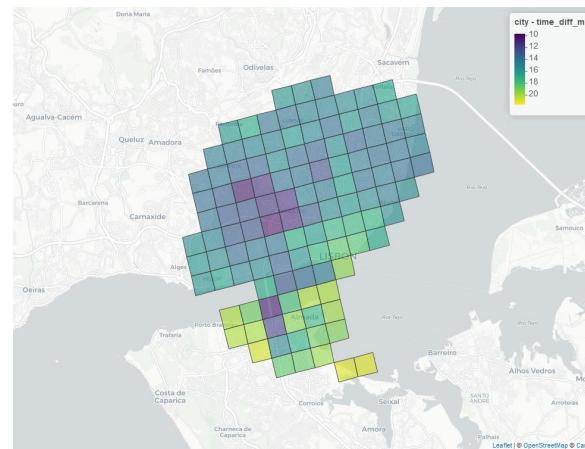
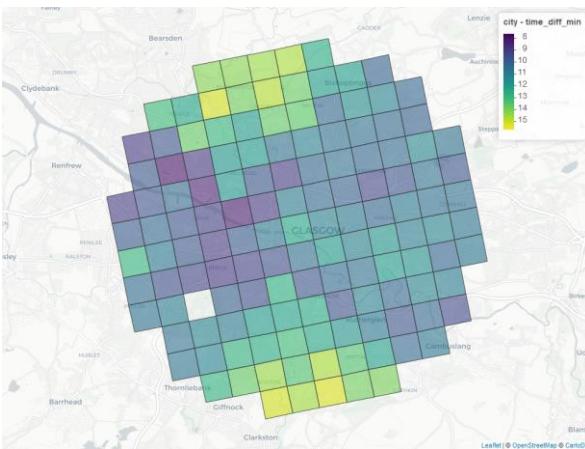


# TIME DIFFERENCE

AMSTERDAM



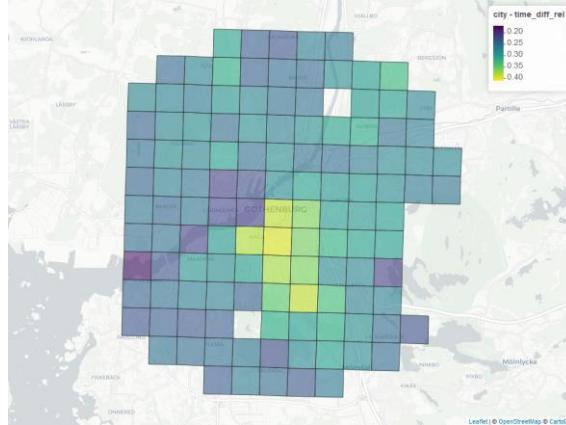
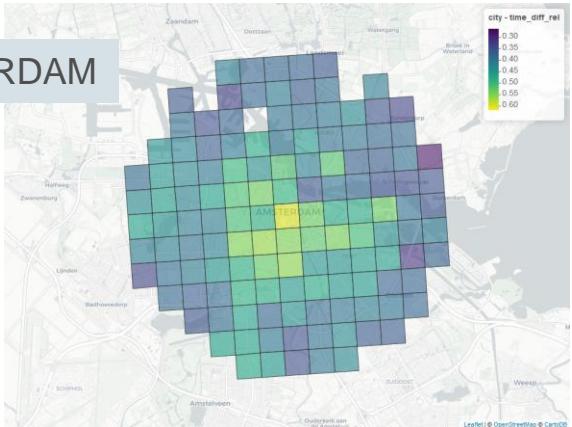
GÖTEBORG



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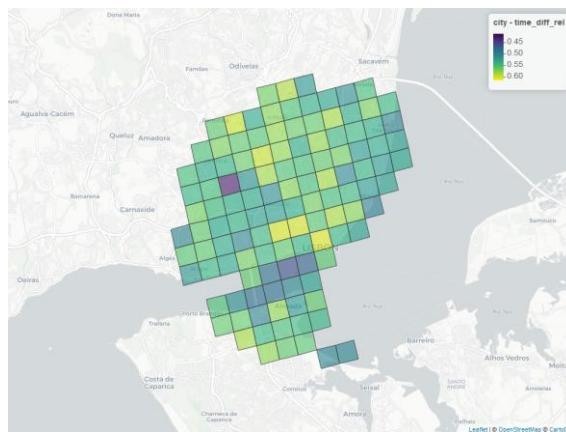
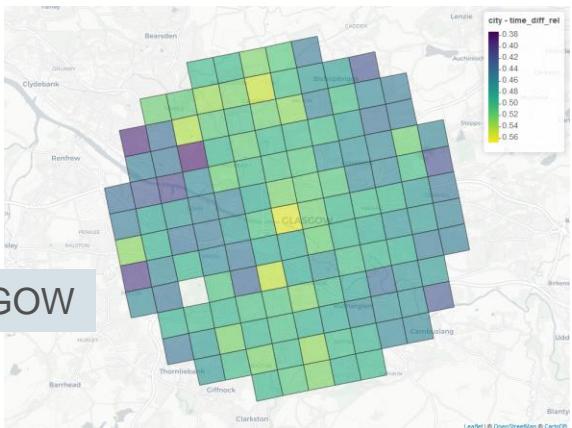
TIME DIFFERENCE  
REL

AMSTERDAM



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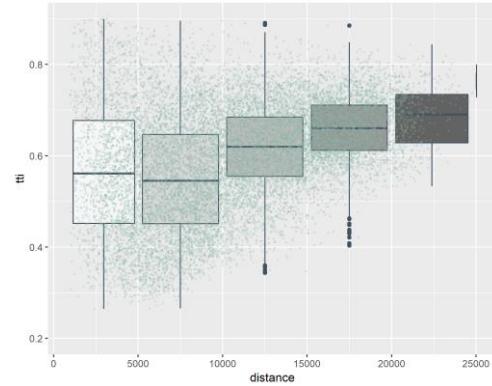
GLASGOW



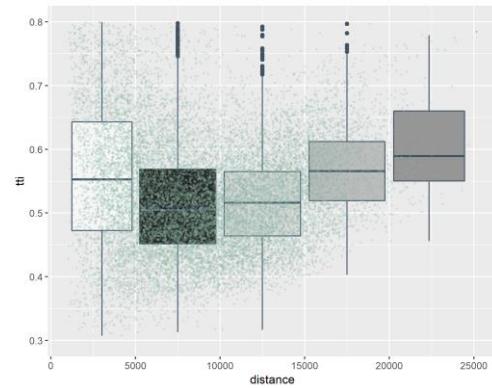
LISBON

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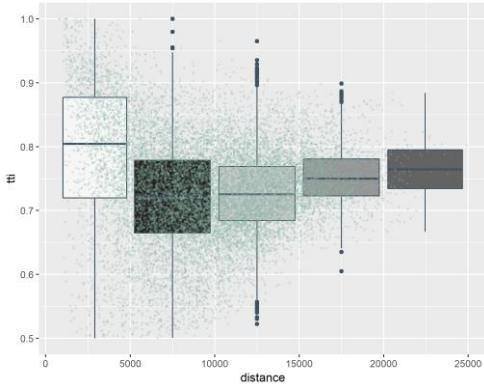
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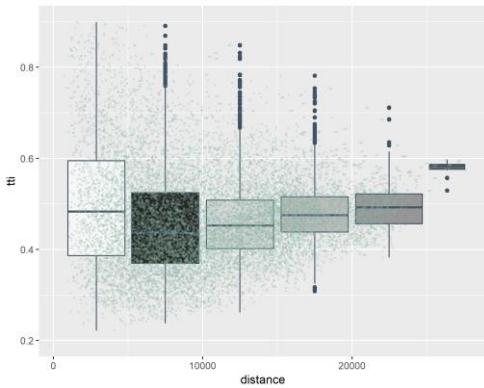
GLASGOW

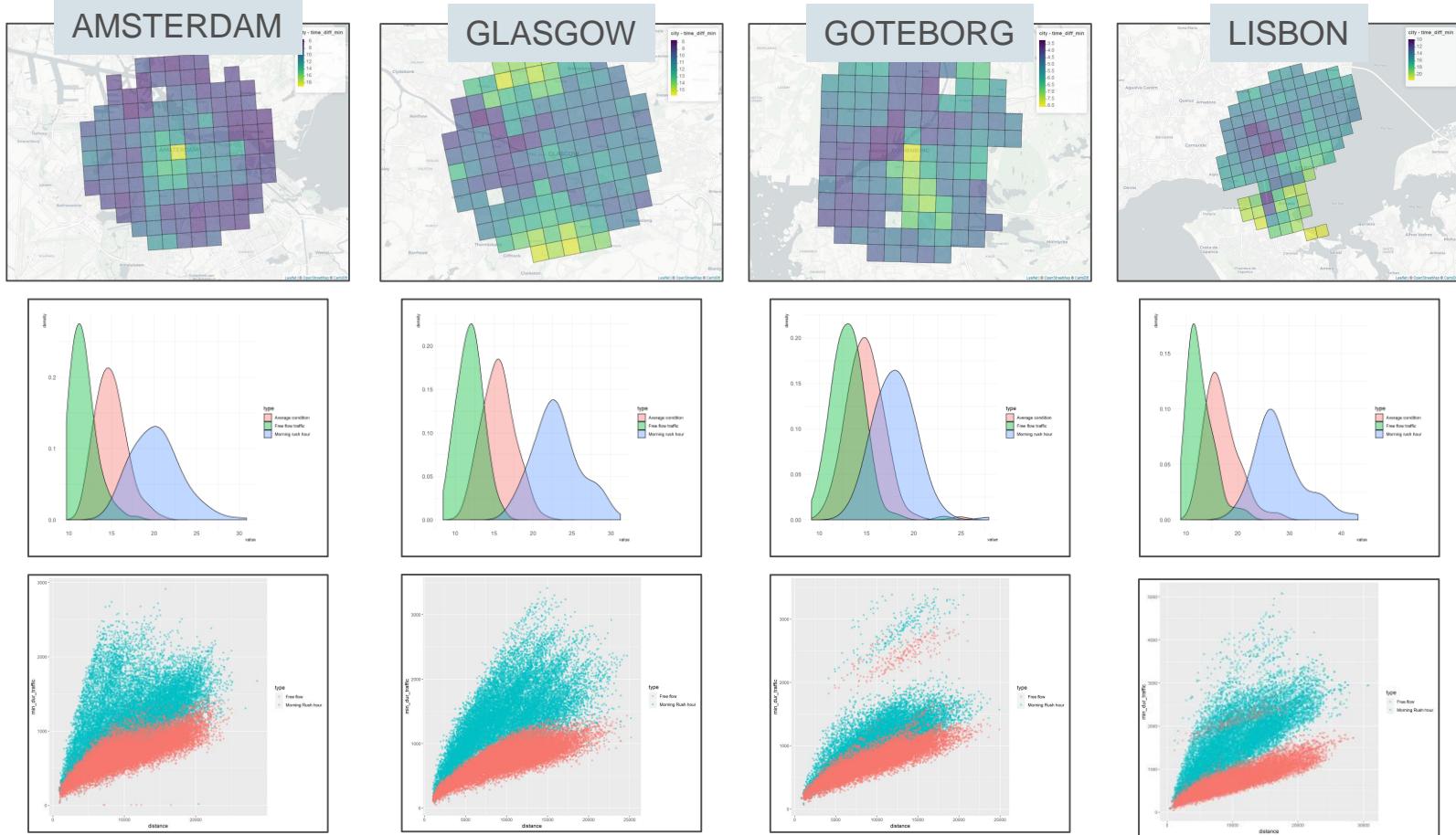


GOTEborg

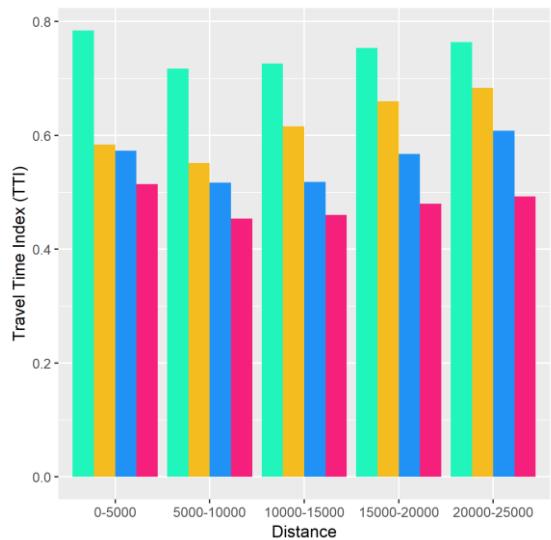
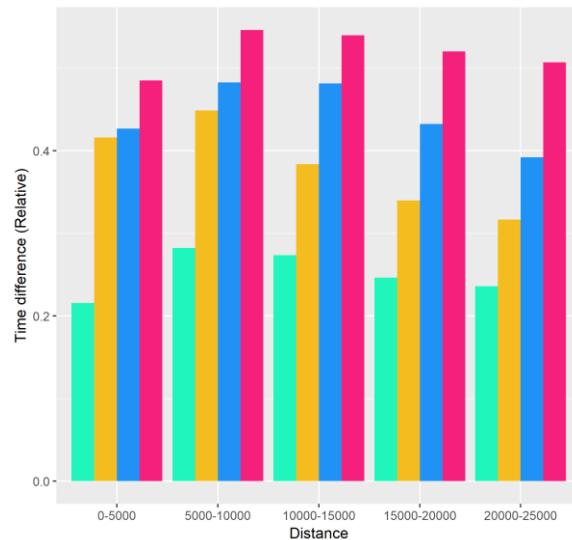
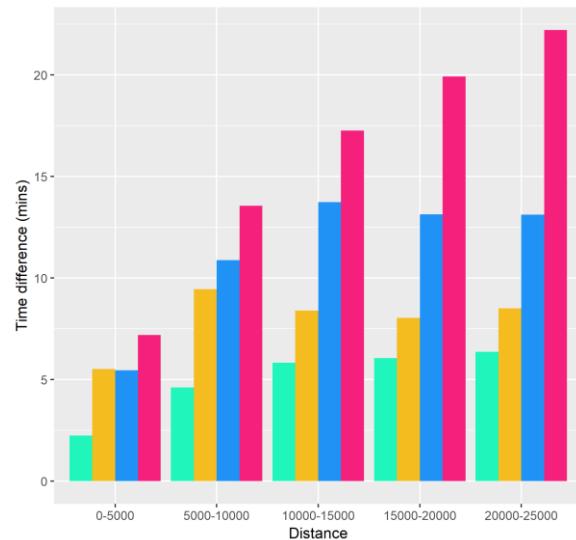


LISBON



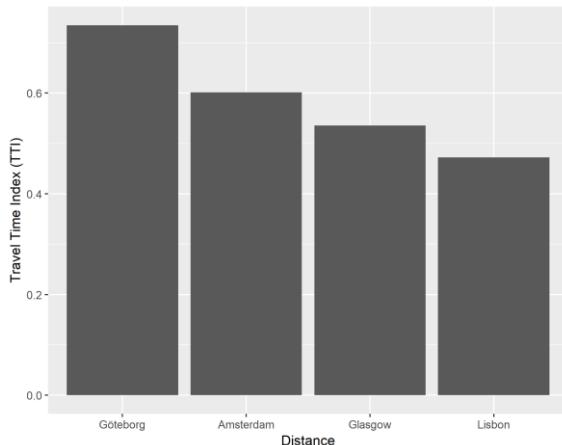
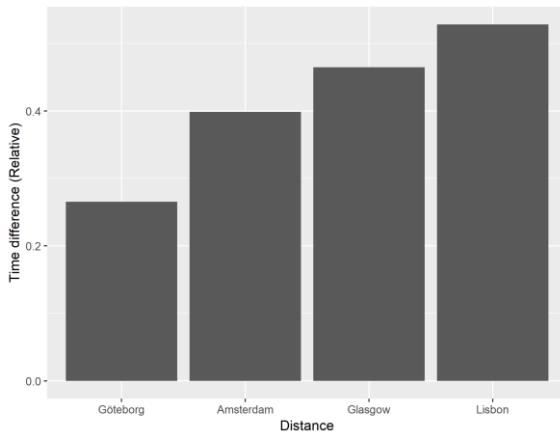
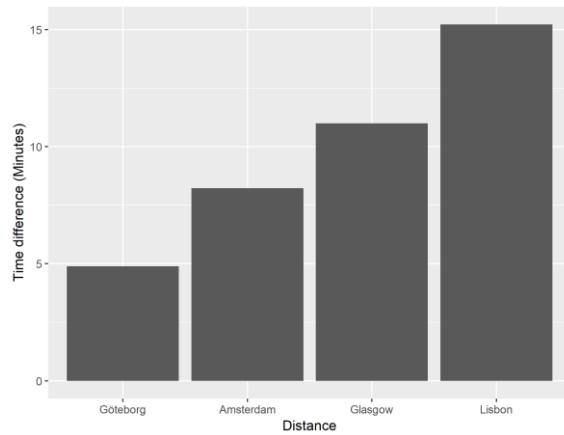


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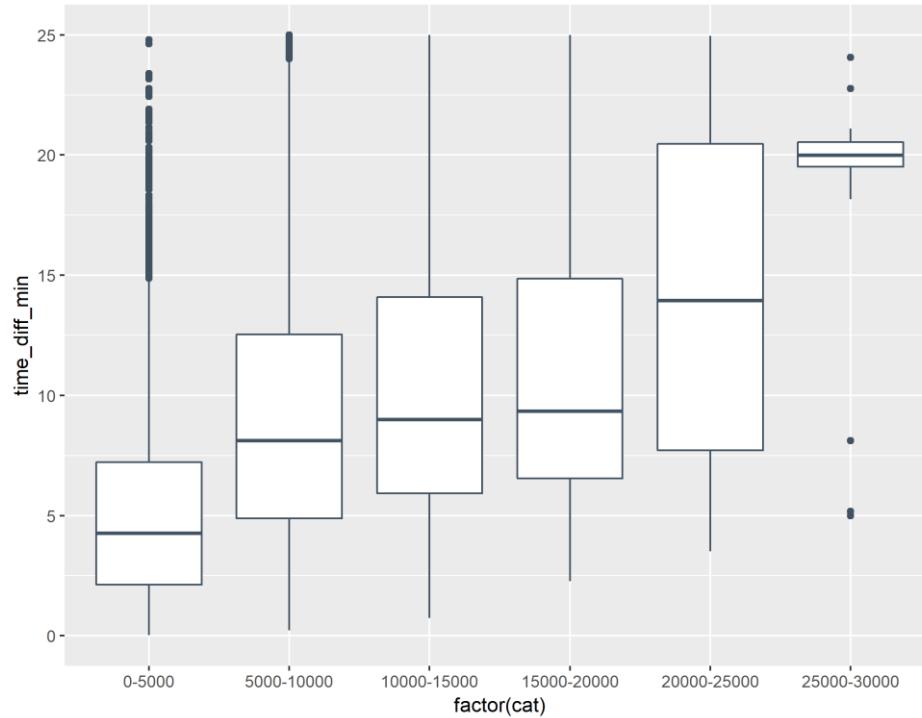


Case Studies  
Göteborg  
Amsterdam  
Glasgow  
Lisbon

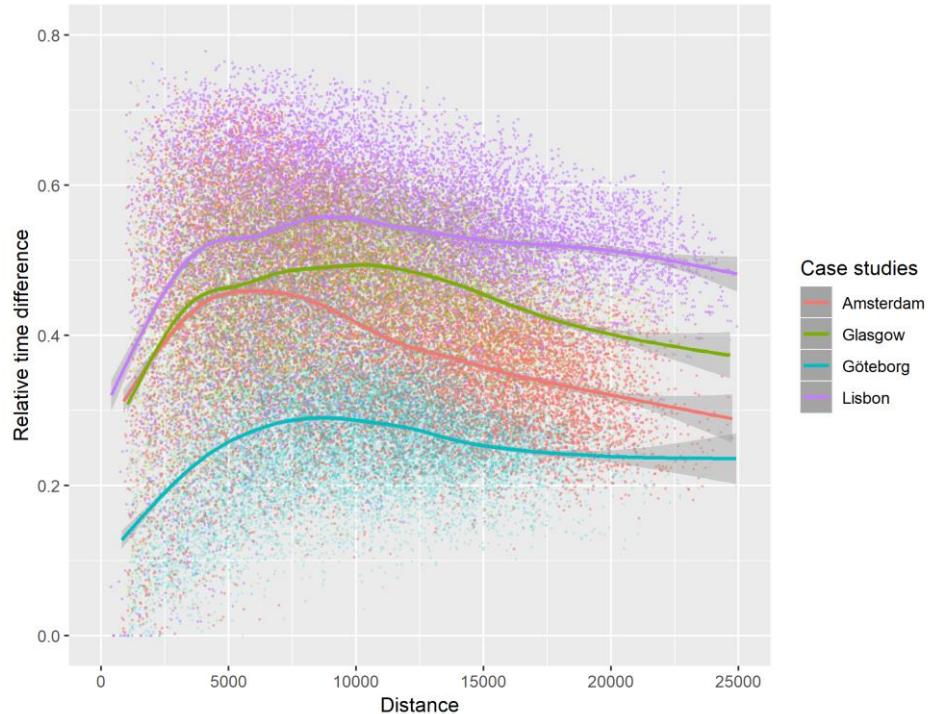
# MEAN VALUES



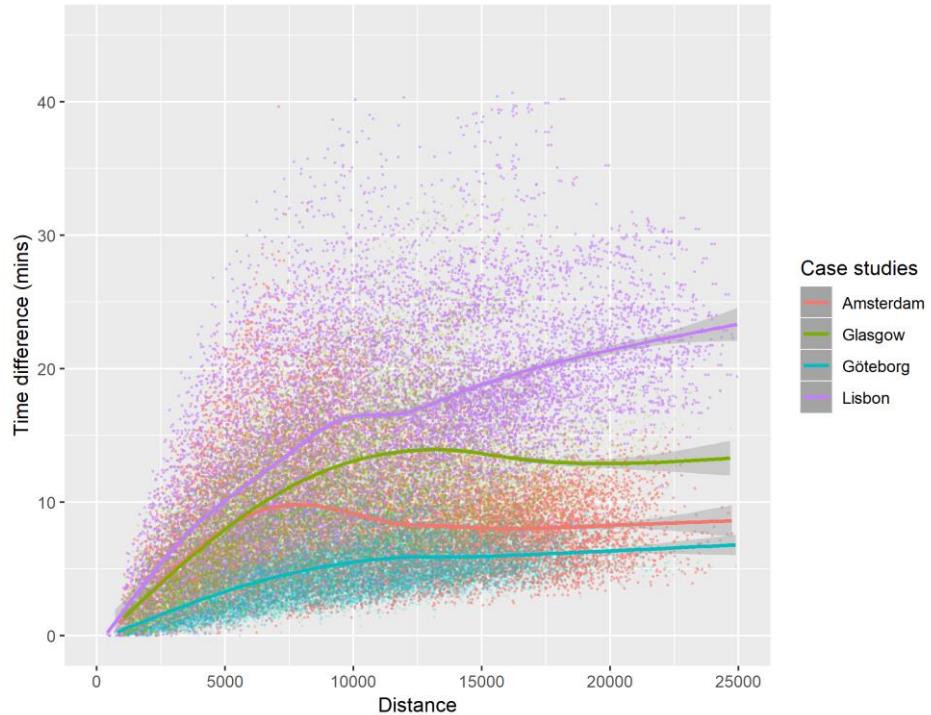
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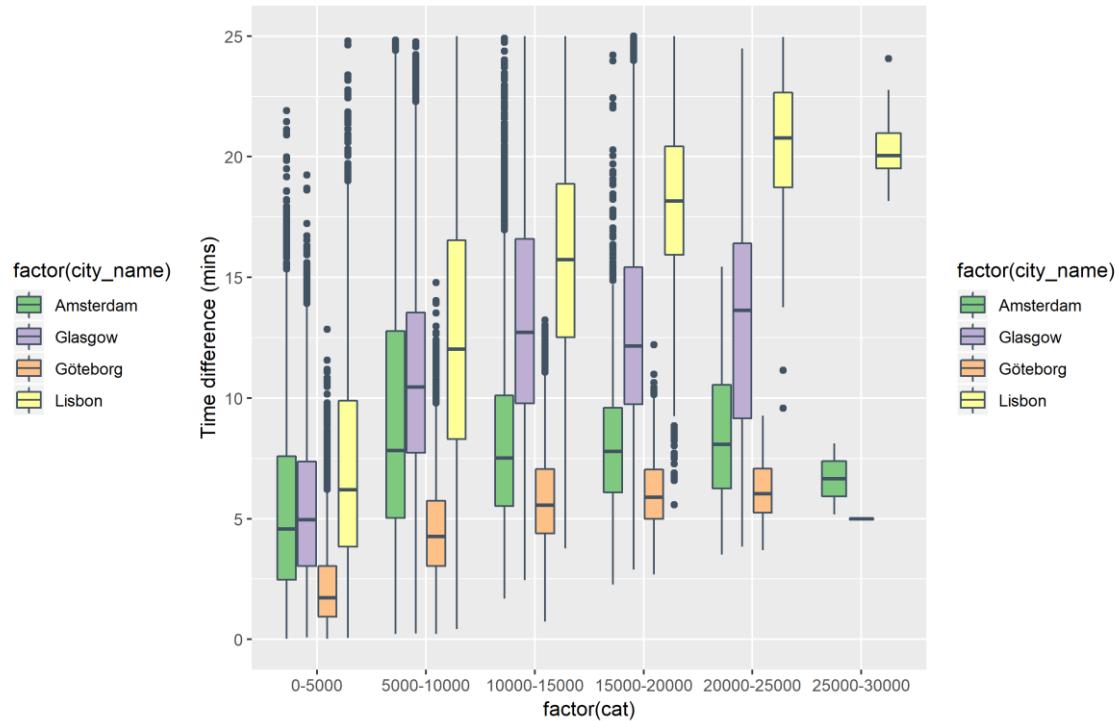
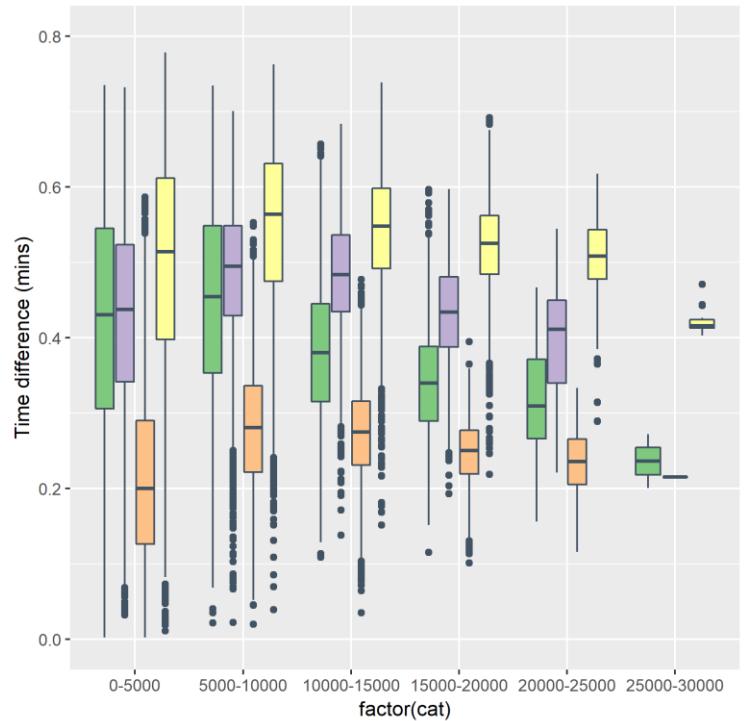
# COMPARISON



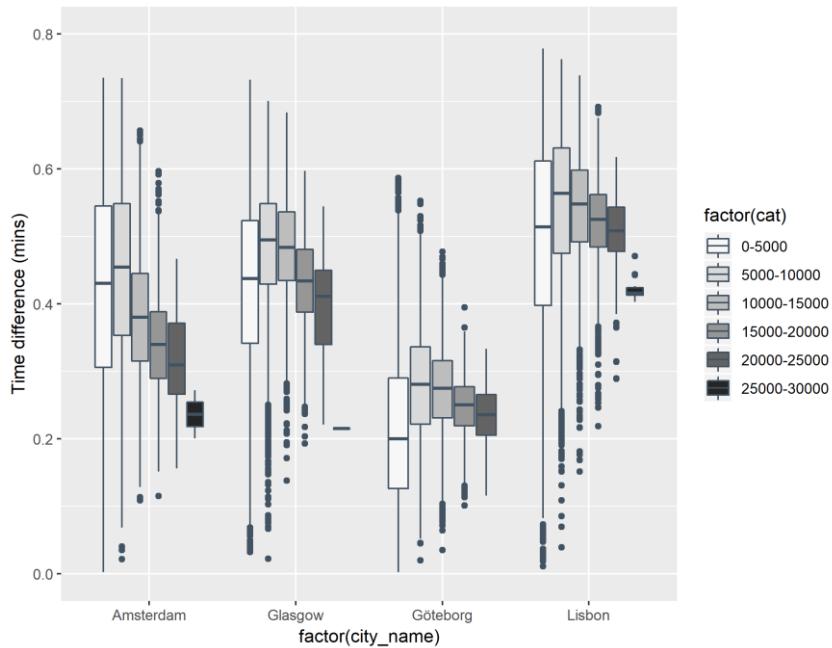
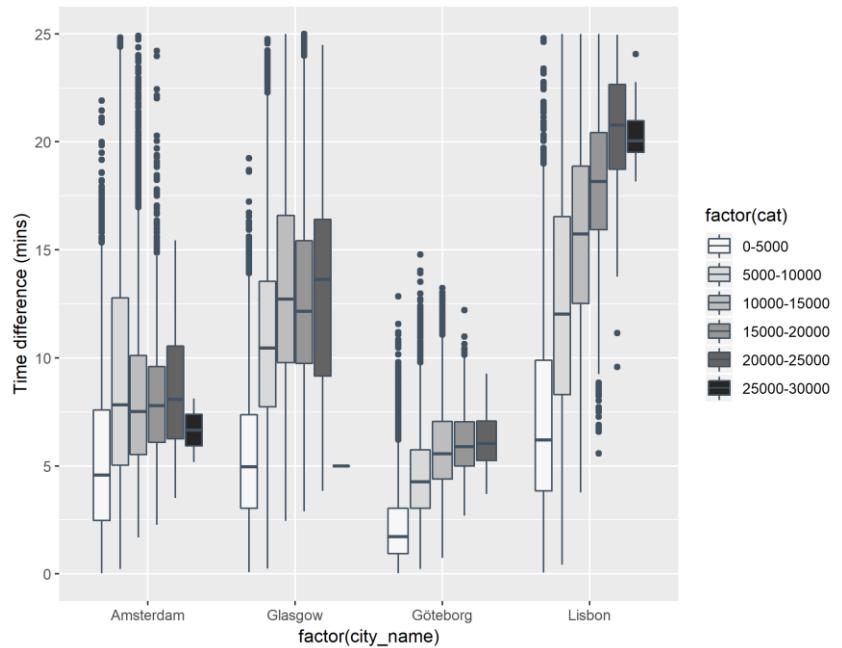
# COMPARISON



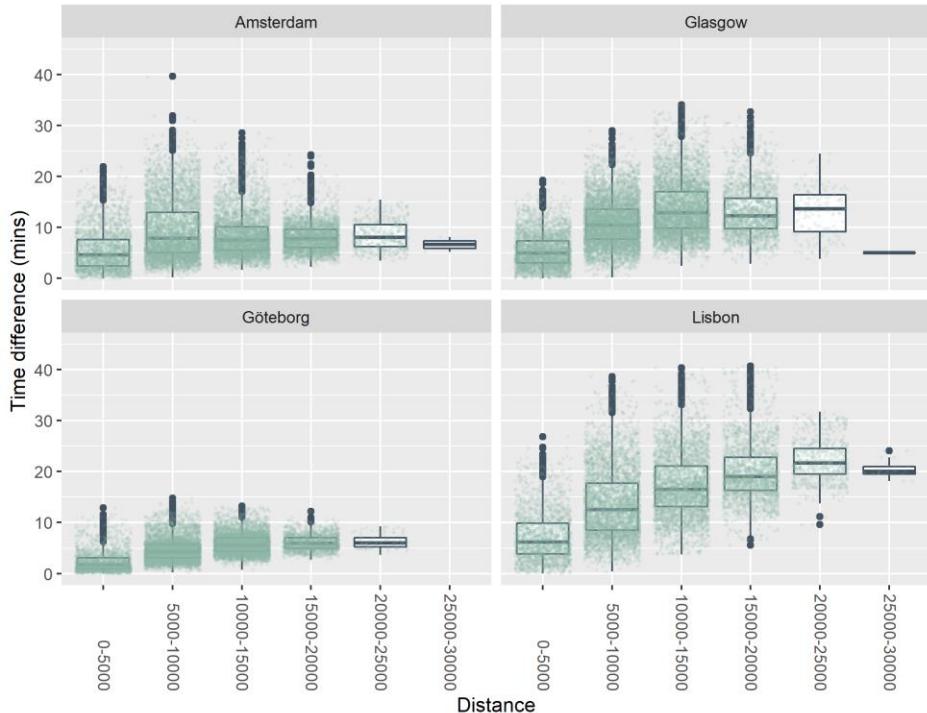
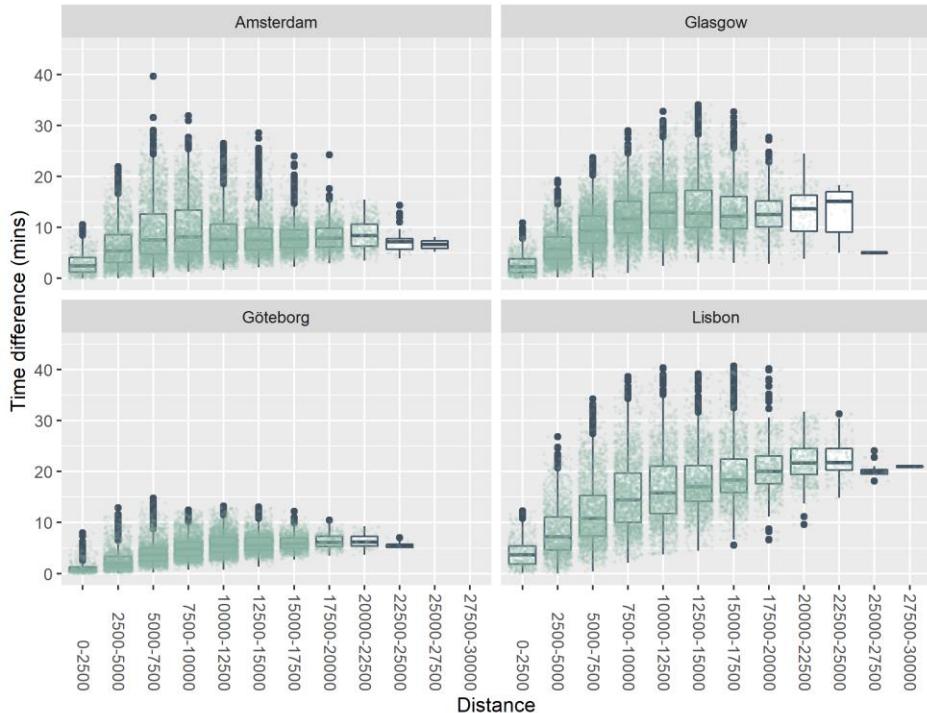
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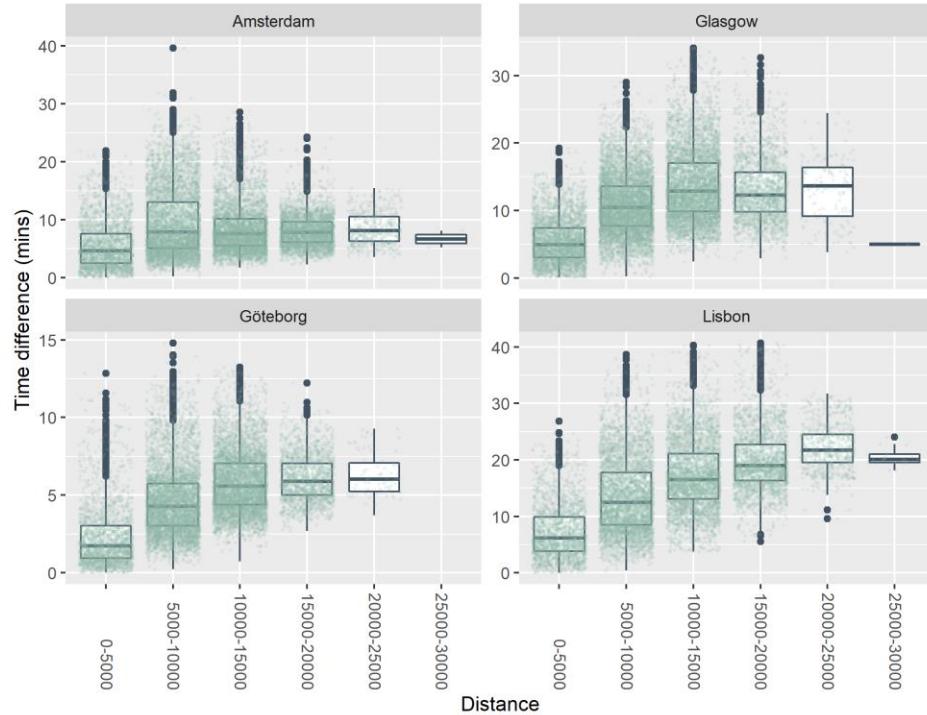
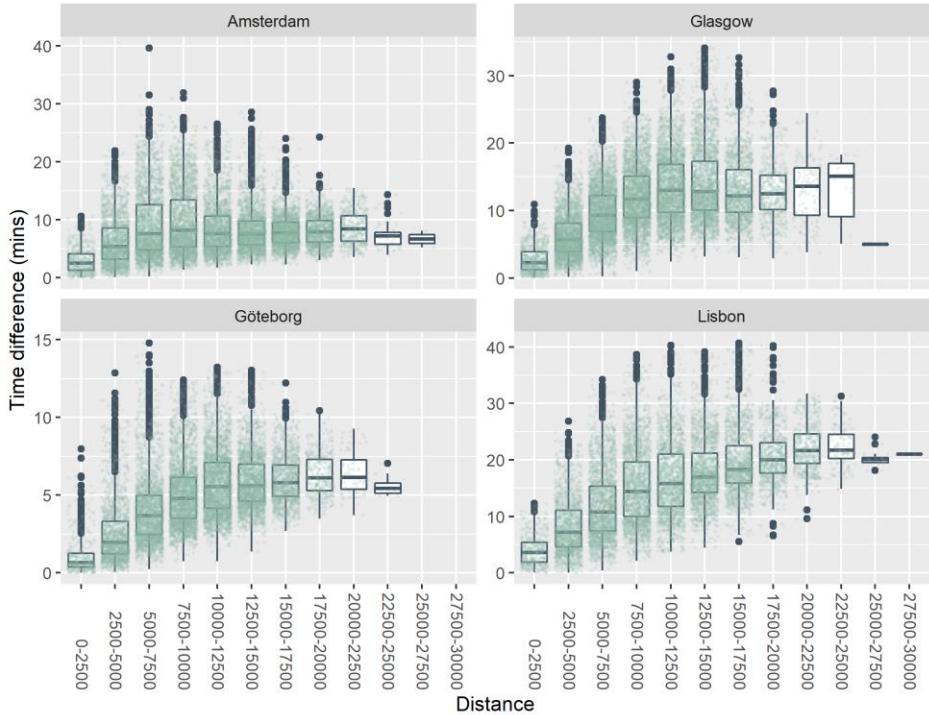
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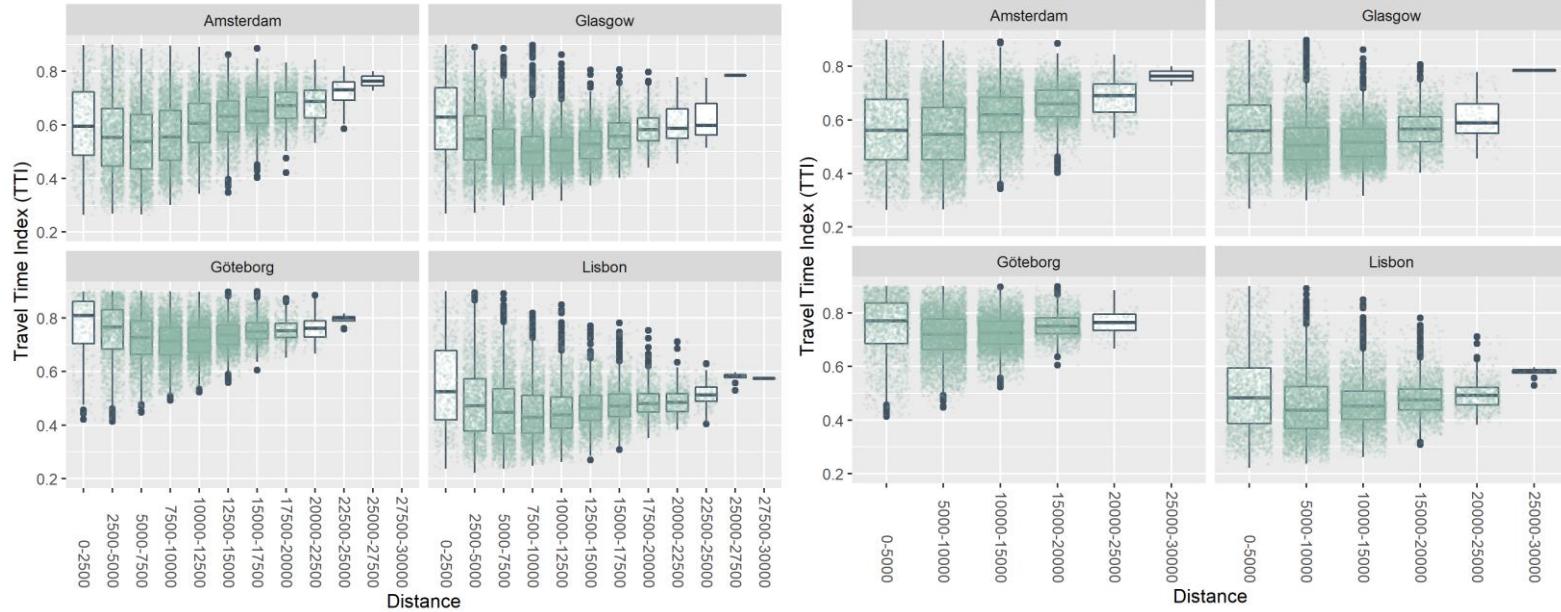
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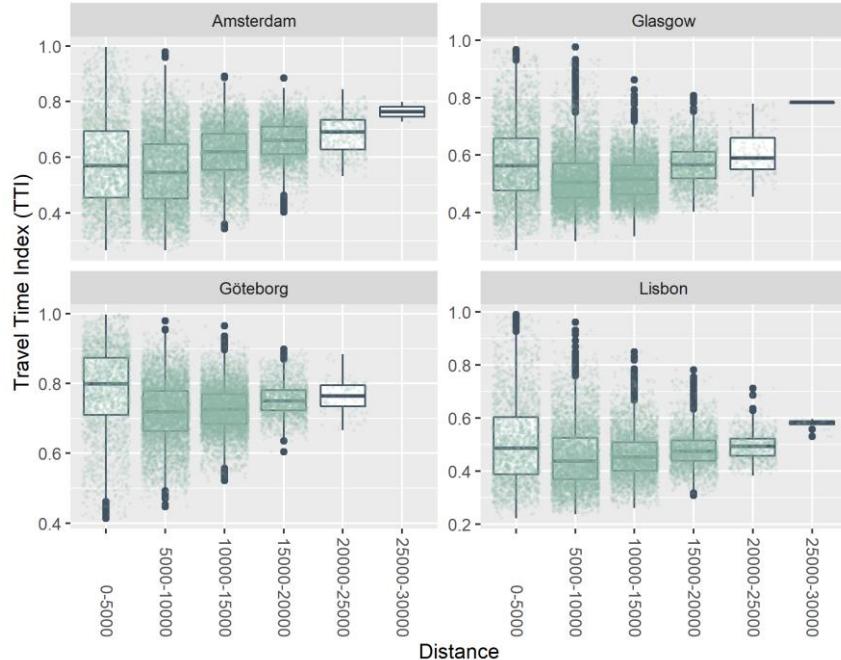
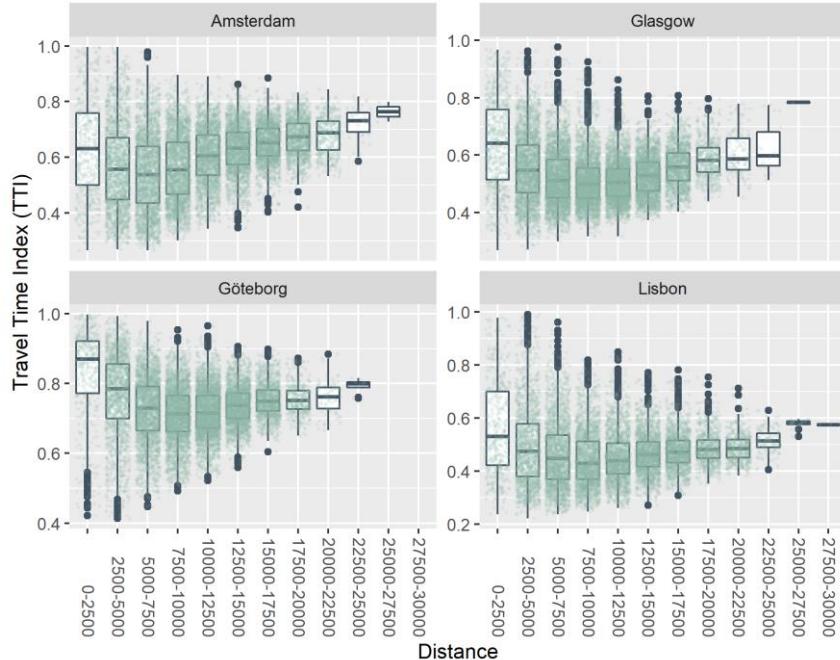
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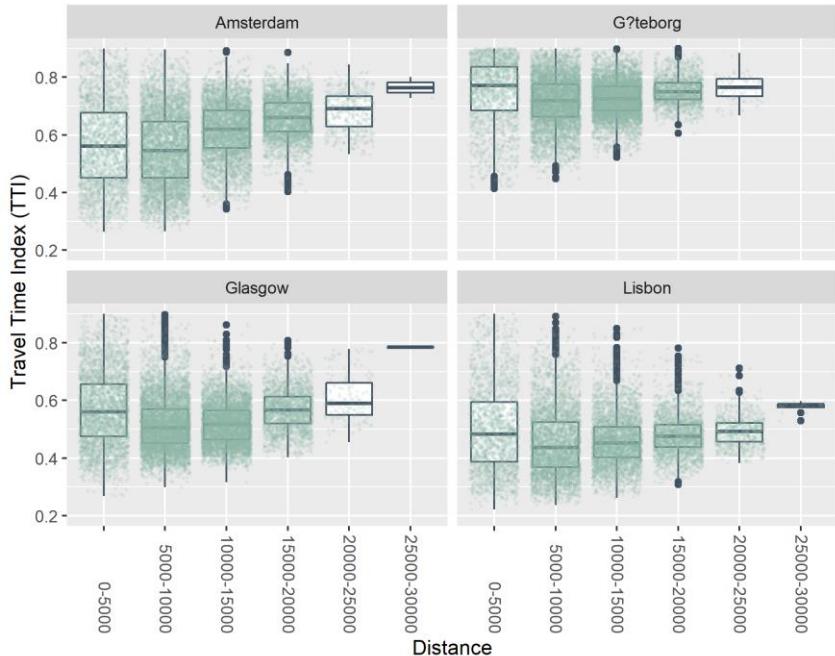
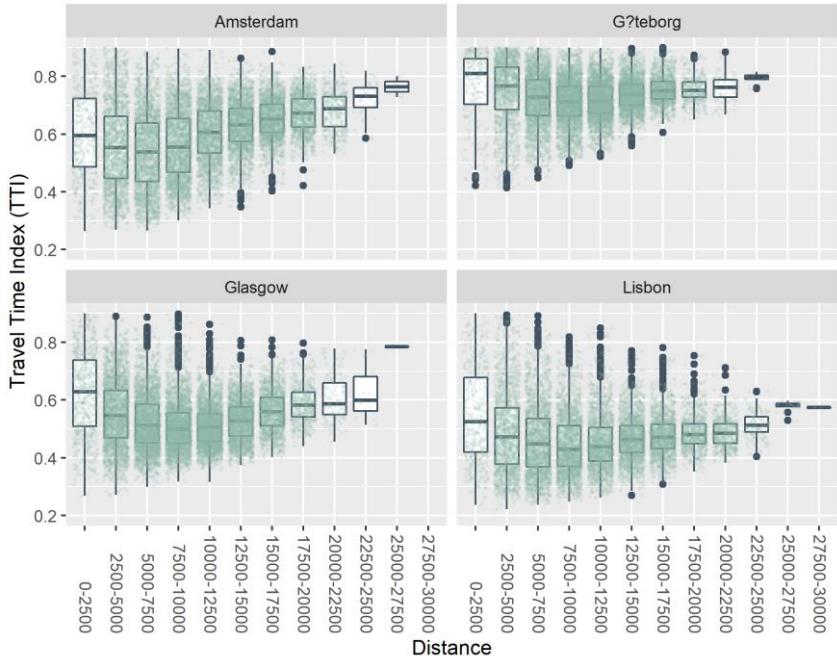


# TIME REL

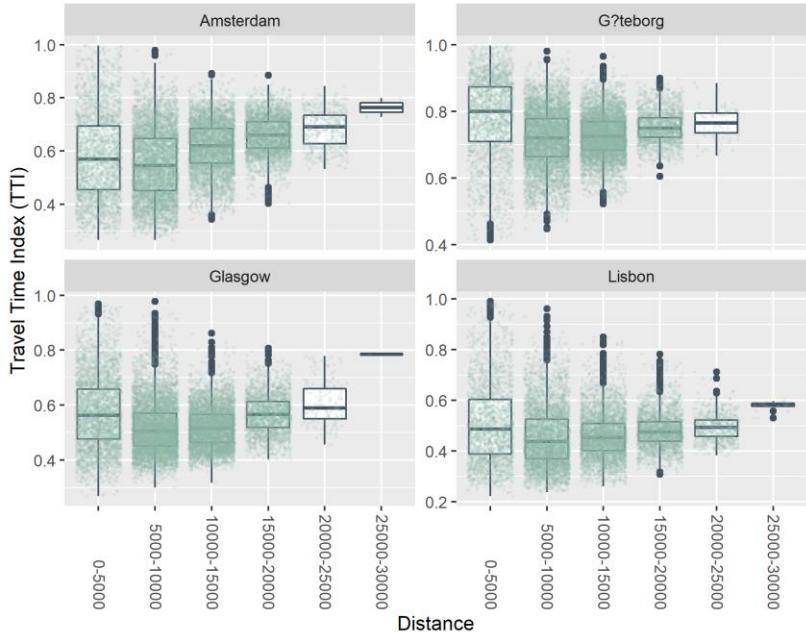
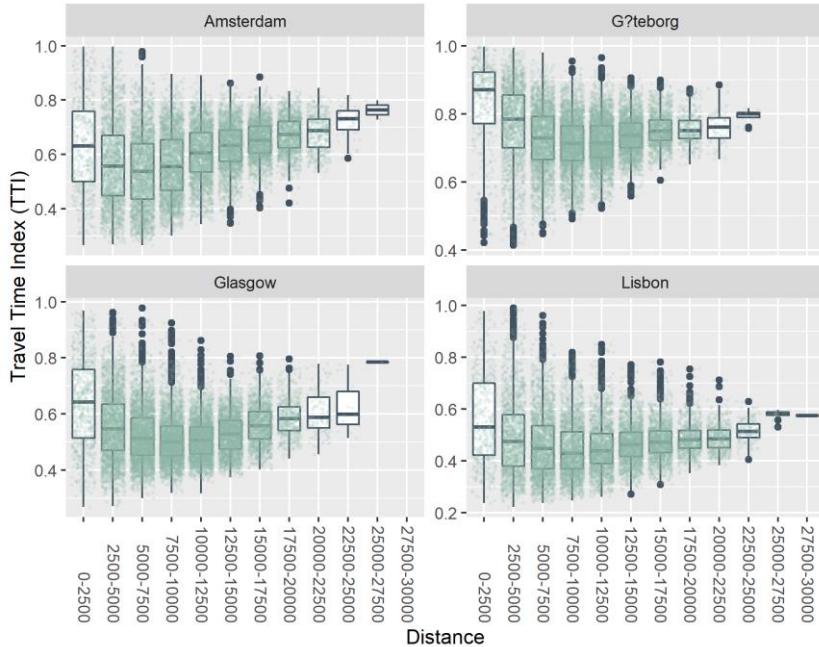


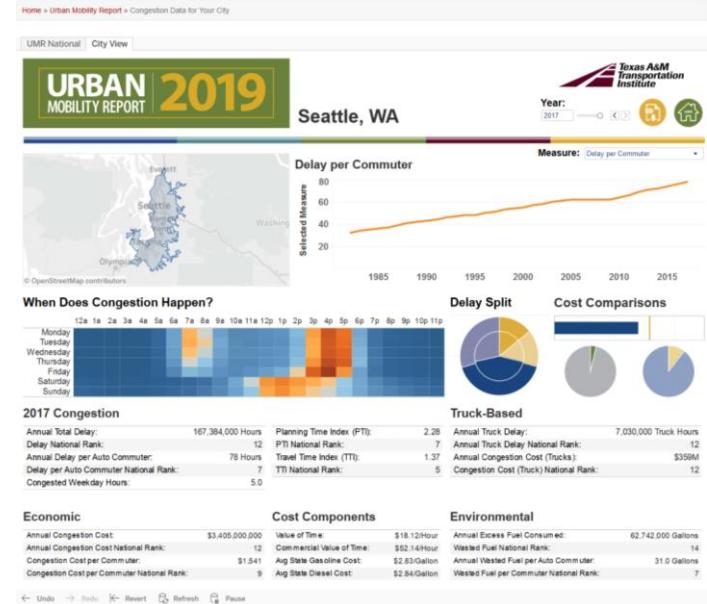
# TIME REL (FLEX)





# TTI (FLEX)



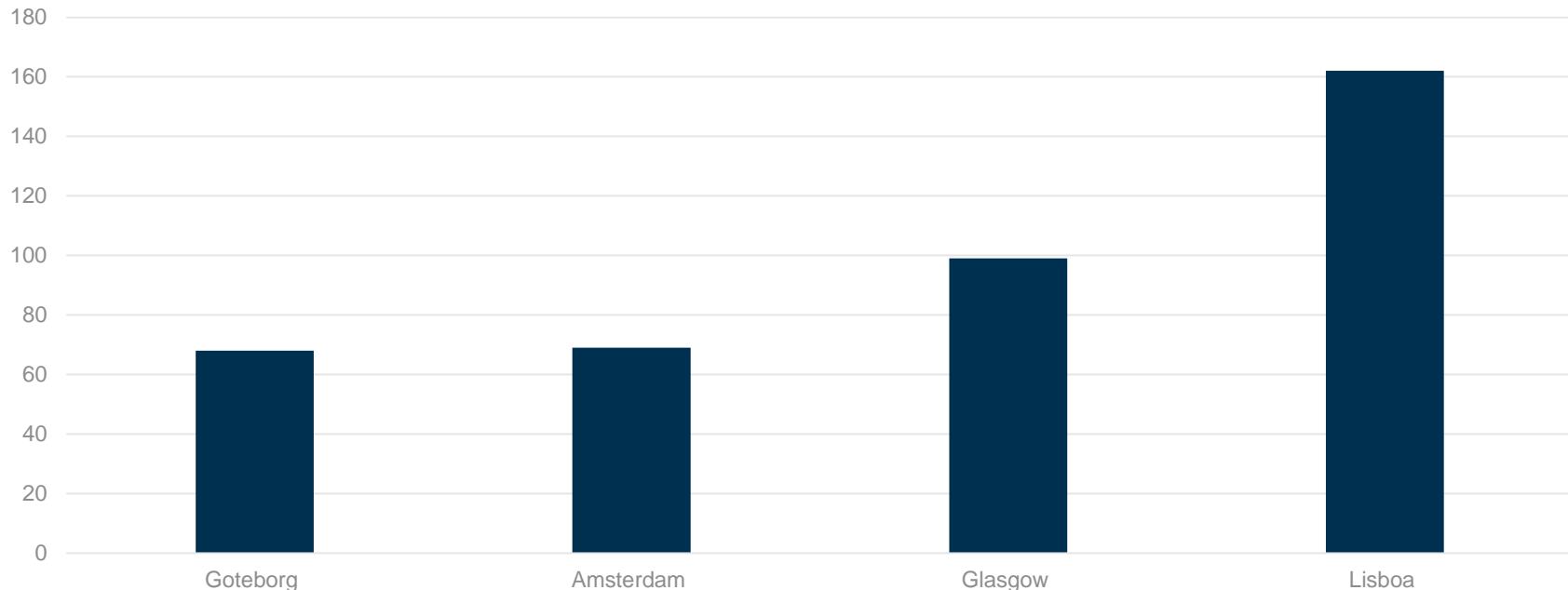


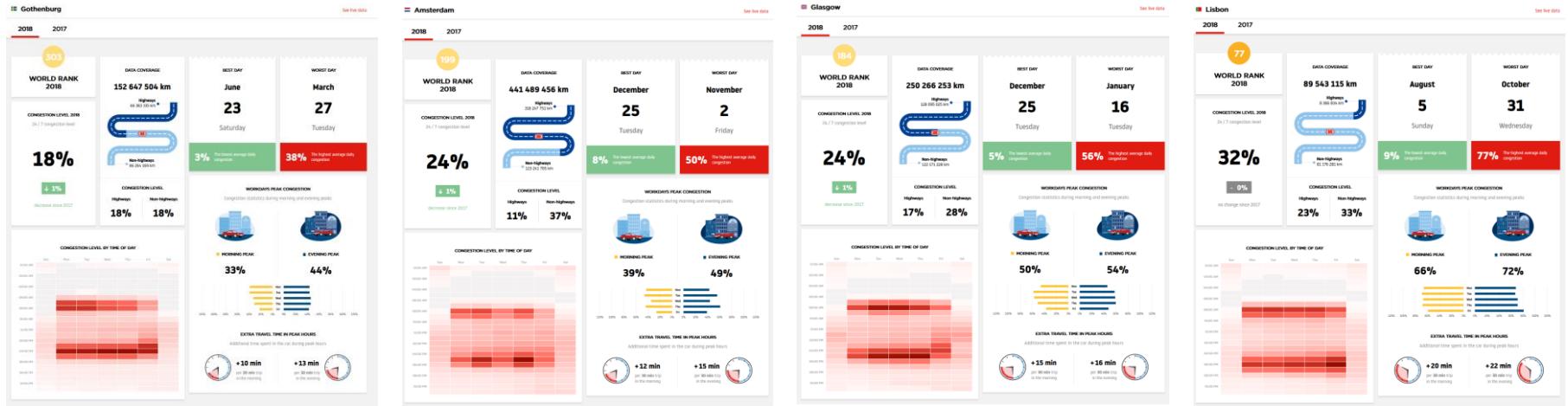
<https://mobility.tamu.edu/umr/congestion-data/>

# INRIX CONGESTION INDEX

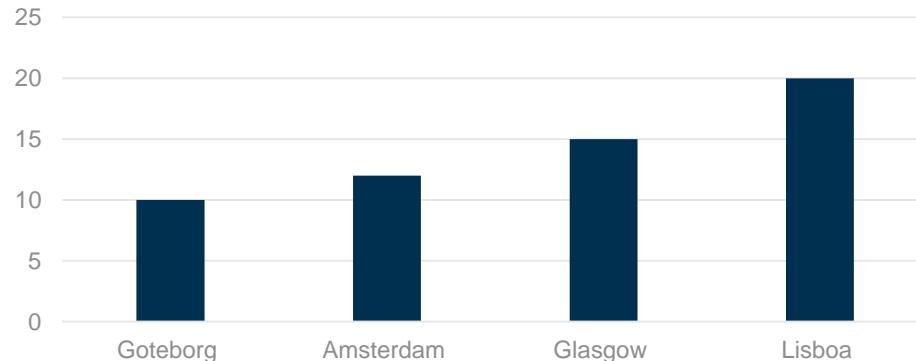
Hours lost in Congestion

<http://inrix.com/scorecard/>





## Additional time in rush hours



[https://www.tomtom.com/en\\_gb/traffic-index/ranking](https://www.tomtom.com/en_gb/traffic-index/ranking)



**CHALMERS**