

# Findings of the analysis of Compass IOT data.

01-02-2024 - 28-02-2024

## Individual period analysis

Drop off period		
Days analysed:	20	
Hours analysed:	30.0	
Traffic Analysis		
Vehicles in the area:		
	Total vehicles in data:	44
	Hourly average:	1.467
Destination in the area:		
	Total vehicles in data:	6
	Hourly average:	0.2
Car Density in Ormond Road (Main Road):		
	Total vehicles per KM:	6.875
	Hourly average:	0.229
Car Density in Amberly Road (Main Road):		
	Total vehicles per KM:	0.0
	Hourly average:	0.0
Speeding Analysis		
Vehicles that speed more than 80% of their trajectory:		
	Total Vehicles in data:	11
	Hourly average:	0.367
Rat Racing Analysis		
Paths going through main roads:		
	Total paths in data:	7
	Hourly average:	0.233
Paths avoiding main roads:		
	Total paths in data:	17
	Hourly average:	0.567

For Car Density and rat racing analysis paths shorter than 10 coordinates were skipped 15 paths were skipped which represents the 34.091% of all the paths

Some paths could not be identified 5 paths were not identifiable which represents the 11.364% of all the paths

# Comparison of hourly averages

## Traffic Analysis

Analysis	Drop off	Pick up	Weekdays - outside school hours	Weekends	Public holidays	School holidays
Paths going through main roads	0.233	0.425	0.105	0.057	0.0	0.0
Destination in the area	0.2	0.575	0.127	0.057	0.0	0.0
Car Density in Ormond Road (Main Road)	0.229	0.359	0.079	0.055	0.0	0.0
Car Density in Amberly Road (Main Road)	0.0	0.068	0.038	0.014	0.0	0.0

## Speeding Analysis

Analysis	Drop off	Pick up	Weekdays - outside school hours	Weekends	Public holidays	School holidays
Vehicles that speed more than 80% of their trajectory	0.367	0.375	0.176	0.141	0.0	0.0

## Rat Racing Analysis

Analysis	Drop off	Pick up	Weekdays - outside school hours	Weekends	Public holidays	School holidays
Paths on the main roads	1.467	2.05	0.654	0.411	0.0	0.0
Paths avoiding main roads	0.567	0.625	0.156	0.115	0.0	0.0

### Pick up period

Days analysed:	20	
Hours analysed:	40.0	
Traffic Analysis		
Vehicles in the area:		

	Total vehicles in data:	82
	Hourly average:	2.05
Destination in the area:		
	Total vehicles in data:	23
	Hourly average:	0.575
Car Density in Ormond Road (Main Road):		
	Total vehicles per KM:	14.375
	Hourly average:	0.359
Car Density in Amberly Road (Main Road):		
	Total vehicles per KM:	2.7272727272727
	Hourly average:	0.068
Speeding Analysis		
Vehicles that speed more than 80% of their trajectory:		
	Total Vehicles in data:	15
	Hourly average:	0.375
Rat Racing Analysis		
Paths going through main roads:		
	Total paths in data:	17
	Hourly average:	0.425
Paths avoiding main roads:		
	Total paths in data:	25
	Hourly average:	0.625

For Car Density and rat racing analysis paths shorter than 10 coordinates were skipped 40 paths were skipped which represents the 48.78% of all the paths

Some paths could not be identified 0 paths were not identifiable which represents the 0.0% of all the paths

# Comparison of hourly averages

## Traffic Analysis

Analysis	Drop off	Pick up	Weekdays - outside school hours	Weekends	Public holidays	School holidays
Paths going through main roads	0.233	0.425	0.105	0.057	0.0	0.0
Destination in the area	0.2	0.575	0.127	0.057	0.0	0.0
Car Density in Ormond Road (Main Road)	0.229	0.359	0.079	0.055	0.0	0.0
Car Density in Amberly Road (Main Road)	0.0	0.068	0.038	0.014	0.0	0.0

## Speeding Analysis

Analysis	Drop off	Pick up	Weekdays - outside school hours	Weekends	Public holidays	School holidays
Vehicles that speed more than 80% of their trajectory	0.367	0.375	0.176	0.141	0.0	0.0

## Rat Racing Analysis

Analysis	Drop off	Pick up	Weekdays - outside school hours	Weekends	Public holidays	School holidays
Paths on the main roads	1.467	2.05	0.654	0.411	0.0	0.0
Paths avoiding main roads	0.567	0.625	0.156	0.115	0.0	0.0

### Weekdays - outside school hours period

Days analysed:	20	
Hours analysed:	480	
Traffic Analysis		
Vehicles in the area:		

	Total vehicles in data:	268
	Hourly average:	0.654
Destination in the area:		
	Total vehicles in data:	52
	Hourly average:	0.127
Car Density in Ormond Road (Main Road):		
	Total vehicles per KM:	32.5
	Hourly average:	0.079
Car Density in Amberly Road (Main Road):		
	Total vehicles per KM:	15.454545454545453
	Hourly average:	0.038
Speeding Analysis		
Vehicles that speed more than 80% of their trajectory:		
	Total Vehicles in data:	72
	Hourly average:	0.176
Rat Racing Analysis		
Paths going through main roads:		
	Total paths in data:	43
	Hourly average:	0.105
Paths avoiding main roads:		
	Total paths in data:	64
	Hourly average:	0.156

For Car Density and rat racing analysis paths shorter than 10 coordinates were skipped 153 paths were skipped which represents the 57.09% of all the paths

Some paths could not be identified 8 paths were not identifiable which represents the 2.985% of all the paths

# Comparison of hourly averages

## Traffic Analysis

Analysis	Drop off	Pick up	Weekdays - outside school hours	Weekends	Public holidays	School holidays
Paths going through main roads	0.233	0.425	0.105	0.057	0.0	0.0
Destination in the area	0.2	0.575	0.127	0.057	0.0	0.0
Car Density in Ormond Road (Main Road)	0.229	0.359	0.079	0.055	0.0	0.0
Car Density in Amberly Road (Main Road)	0.0	0.068	0.038	0.014	0.0	0.0

## Speeding Analysis

Analysis	Drop off	Pick up	Weekdays - outside school hours	Weekends	Public holidays	School holidays
Vehicles that speed more than 80% of their trajectory	0.367	0.375	0.176	0.141	0.0	0.0

## Rat Racing Analysis

Analysis	Drop off	Pick up	Weekdays - outside school hours	Weekends	Public holidays	School holidays
Paths on the main roads	1.467	2.05	0.654	0.411	0.0	0.0
Paths avoiding main roads	0.567	0.625	0.156	0.115	0.0	0.0

### Weekends period

Days analysed:	8	
Hours analysed:	192	
Traffic Analysis		
Vehicles in the area:		

	Total vehicles in data:	79
	Hourly average:	0.411
Destination in the area:		
	Total vehicles in data:	11
	Hourly average:	0.057
Car Density in Ormond Road (Main Road):		
	Total vehicles per KM:	10.625
	Hourly average:	0.055
Car Density in Amberly Road (Main Road):		
	Total vehicles per KM:	2.7272727272727
	Hourly average:	0.014
Speeding Analysis		
Vehicles that speed more than 80% of their trajectory:		
	Total Vehicles in data:	27
	Hourly average:	0.141
Rat Racing Analysis		
Paths going through main roads:		
	Total paths in data:	11
	Hourly average:	0.057
Paths avoiding main roads:		
	Total paths in data:	22
	Hourly average:	0.115

For Car Density and rat racing analysis paths shorter than 10 coordinates were skipped 46 paths were skipped which represents the 58.228% of all the paths

Some paths could not be identified 0 paths were not identifiable which represents the 0.0% of all the paths



# Comparison of hourly averages

## Traffic Analysis

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Destination in the area	0.2	0.575	0.127	0.057	0.0	0.0
Car Density in Ormond Road (Main Road)	0.229	0.359	0.079	0.055	0.0	0.0
Car Density in Amberly Road (Main Road)	0.0	0.068	0.038	0.014	0.0	0.0

## Speeding Analysis

Analysis	Drop off	Pick up	Weekdays - outside school hours	Weekends	Public holidays	School holidays
Vehicles that speed more than 80% of their trajectory	0.367	0.375	0.176	0.141	0.0	0.0

## Rat Racing Analysis

Analysis	Drop off	Pick up	Weekdays - outside school hours	Weekends	Public holidays	School holidays
Paths on the main roads	1.467	2.05	0.654	0.411	0.0	0.0
Paths avoiding main roads	0.567	0.625	0.156	0.115	0.0	0.0

### Public holidays period

Days analysed:	1	
Hours analysed:	24	
Traffic Analysis		
Vehicles in the area:		

	Total vehicles in data:	0
	Hourly average:	0.0
Destination in the area:		
	Total vehicles in data:	0
	Hourly average:	0.0
Car Density in Ormond Road (Main Road):		
	Total vehicles per KM:	0.0
	Hourly average:	0.0
Car Density in Amberly Road (Main Road):		
	Total vehicles per KM:	0.0
	Hourly average:	0.0
Speeding Analysis		
Vehicles that speed more than 80% of their trajectory:		
	Total Vehicles in data:	0
	Hourly average:	0.0
Rat Racing Analysis		
Paths going through main roads:		
	Total paths in data:	0
	Hourly average:	0.0
Paths avoiding main roads:		
	Total paths in data:	0
	Hourly average:	0.0

# Comparison of hourly averages

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Paths avoiding main roads	0.567	0.625	0.156	0.115	0.0	0.0

### School holidays period

Days analysed:	1	
Hours analysed:	24.0	
Traffic Analysis		
Vehicles in the area:		

	Total vehicles in data:	0
	Hourly average:	0.0
Destination in the area:		
	Total vehicles in data:	0
	Hourly average:	0.0
Car Density in Ormond Road (Main Road):		
	Total vehicles per KM:	0.0
	Hourly average:	0.0
Car Density in Amberly Road (Main Road):		
	Total vehicles per KM:	0.0
	Hourly average:	0.0
Speeding Analysis		
Vehicles that speed more than 80% of their trajectory:		
	Total Vehicles in data:	0
	Hourly average:	0.0
Rat Racing Analysis		
Paths going through main roads:		
	Total paths in data:	0
	Hourly average:	0.0
Paths avoiding main roads:		
	Total paths in data:	0
	Hourly average:	0.0

# Comparison of hourly averages

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Destination in the area	0.2	0.575	0.127	0.057	0.0	0.0
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Vehicles that speed more than 80% of their trajectory	0.367	0.375	0.176	0.141	0.0	0.0

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Paths avoiding main roads	0.567	0.625	0.156	0.115	0.0	0.0

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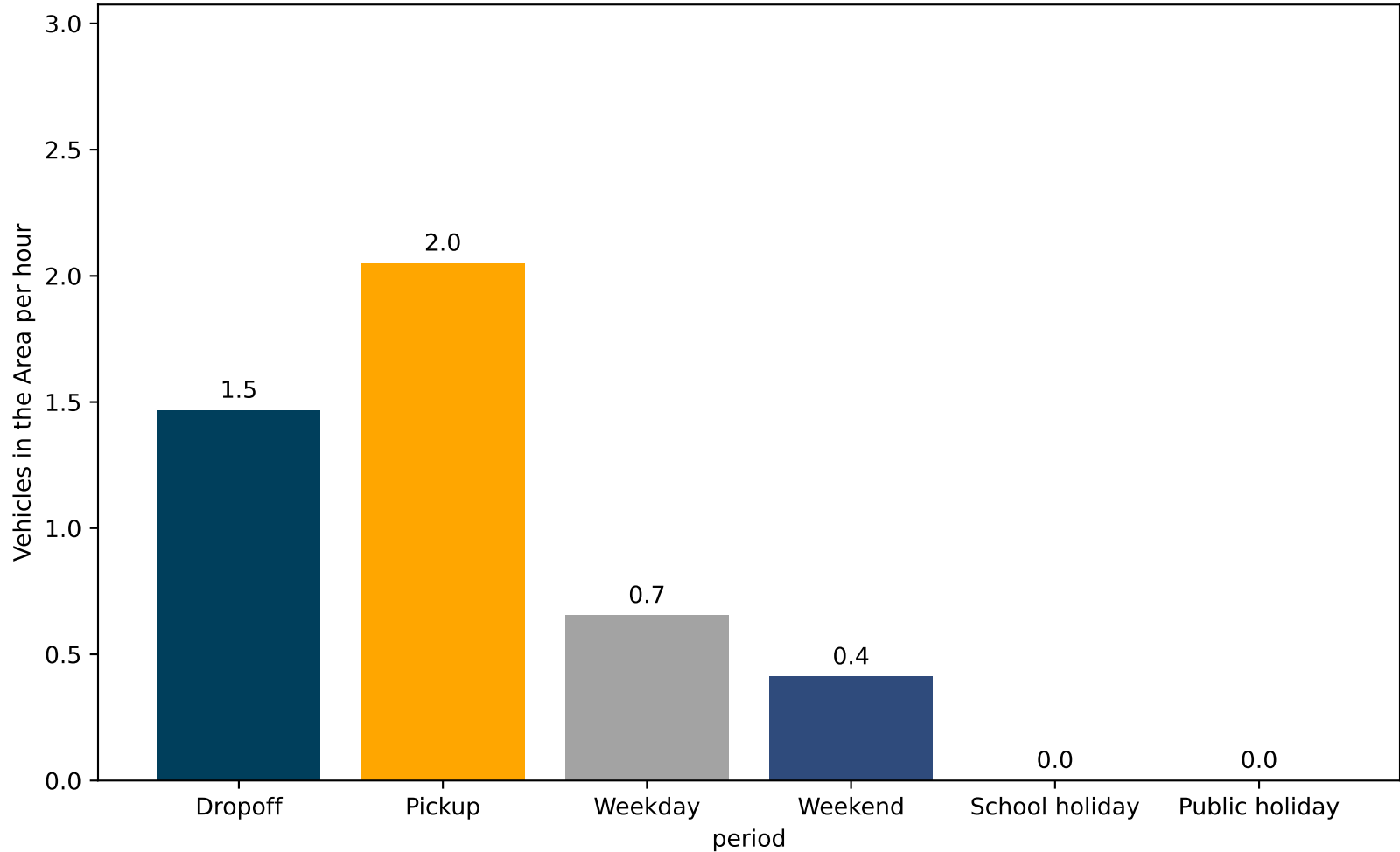


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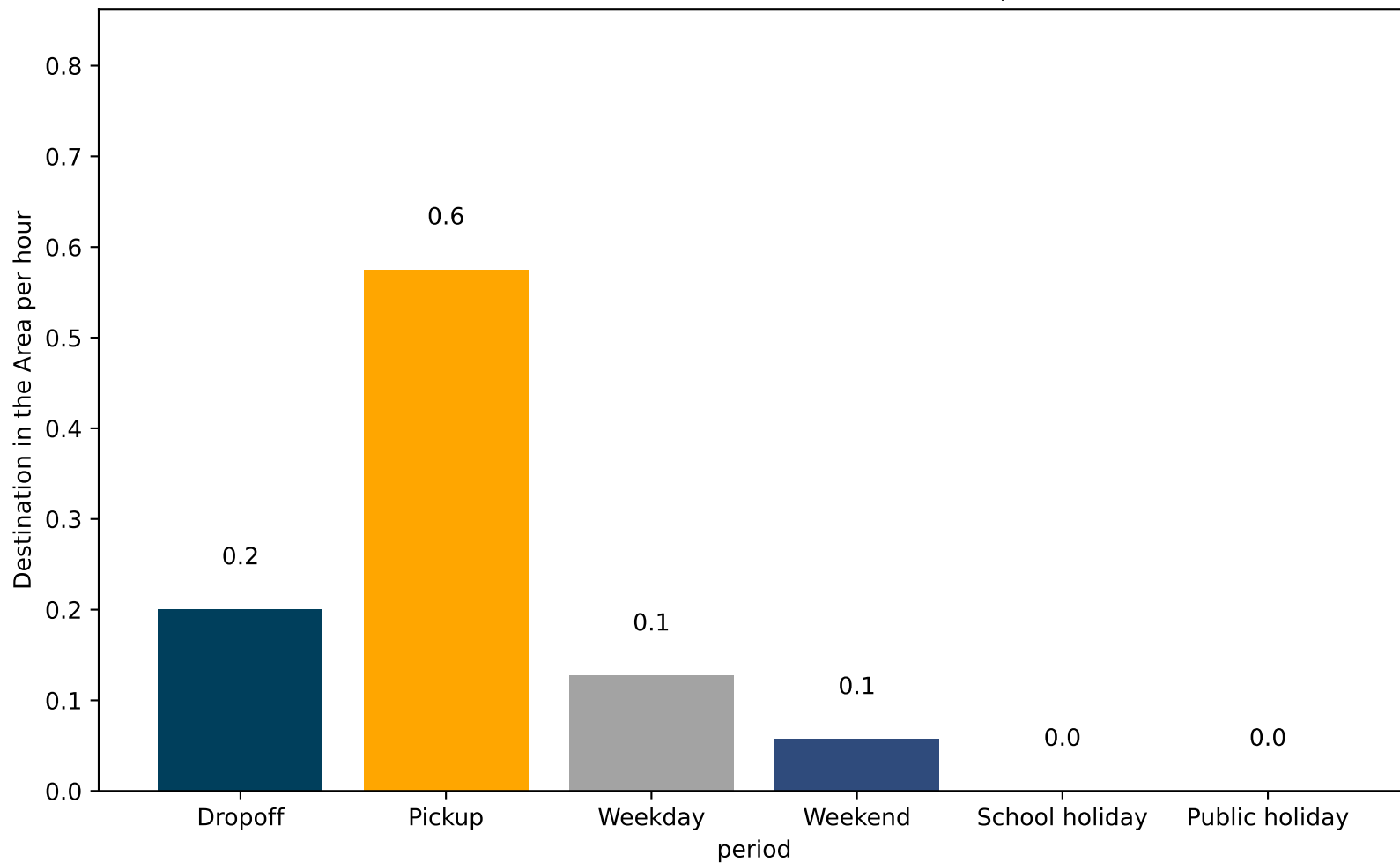
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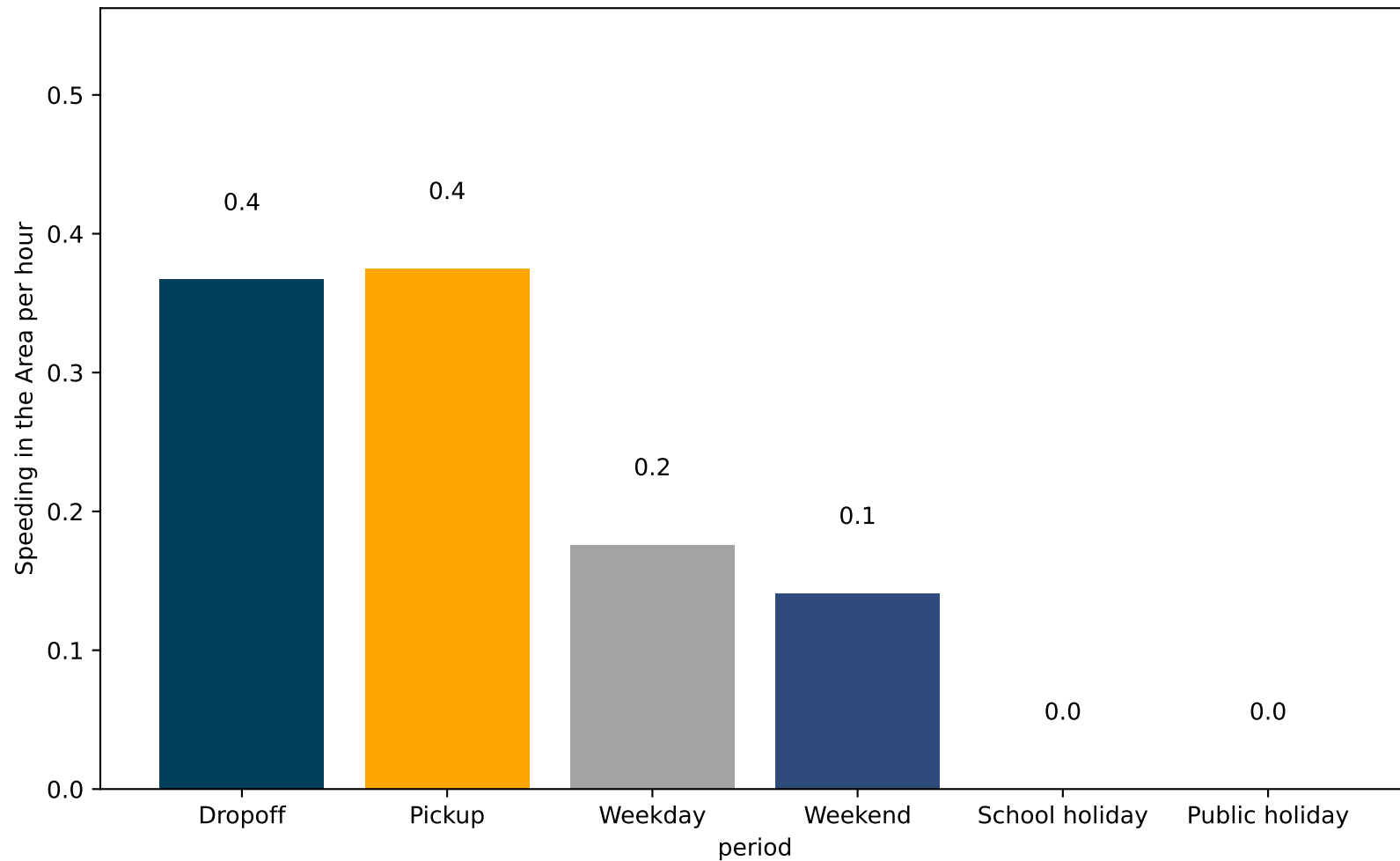
Vehicles in the Area between different periods



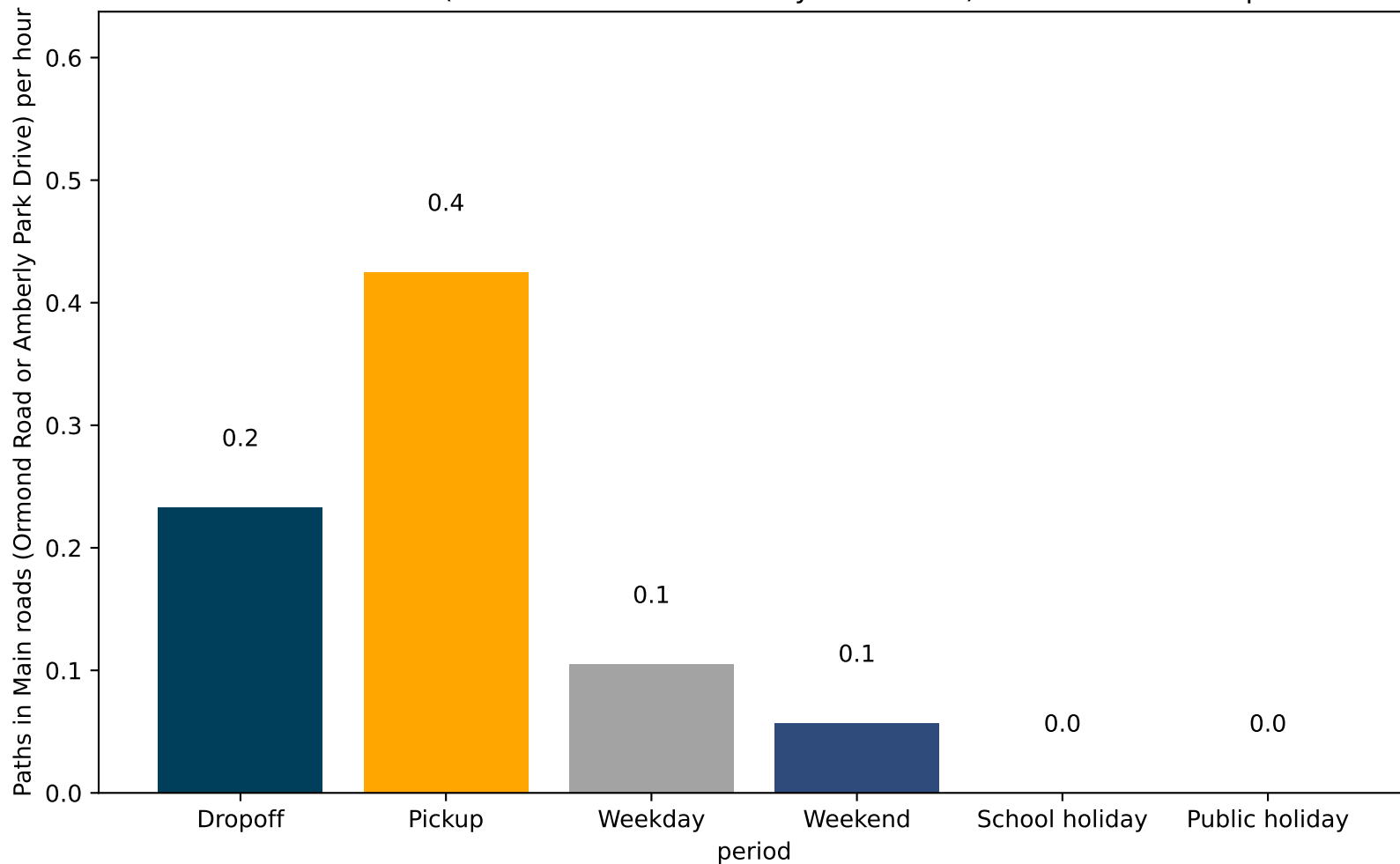
Destination in the Area between different periods



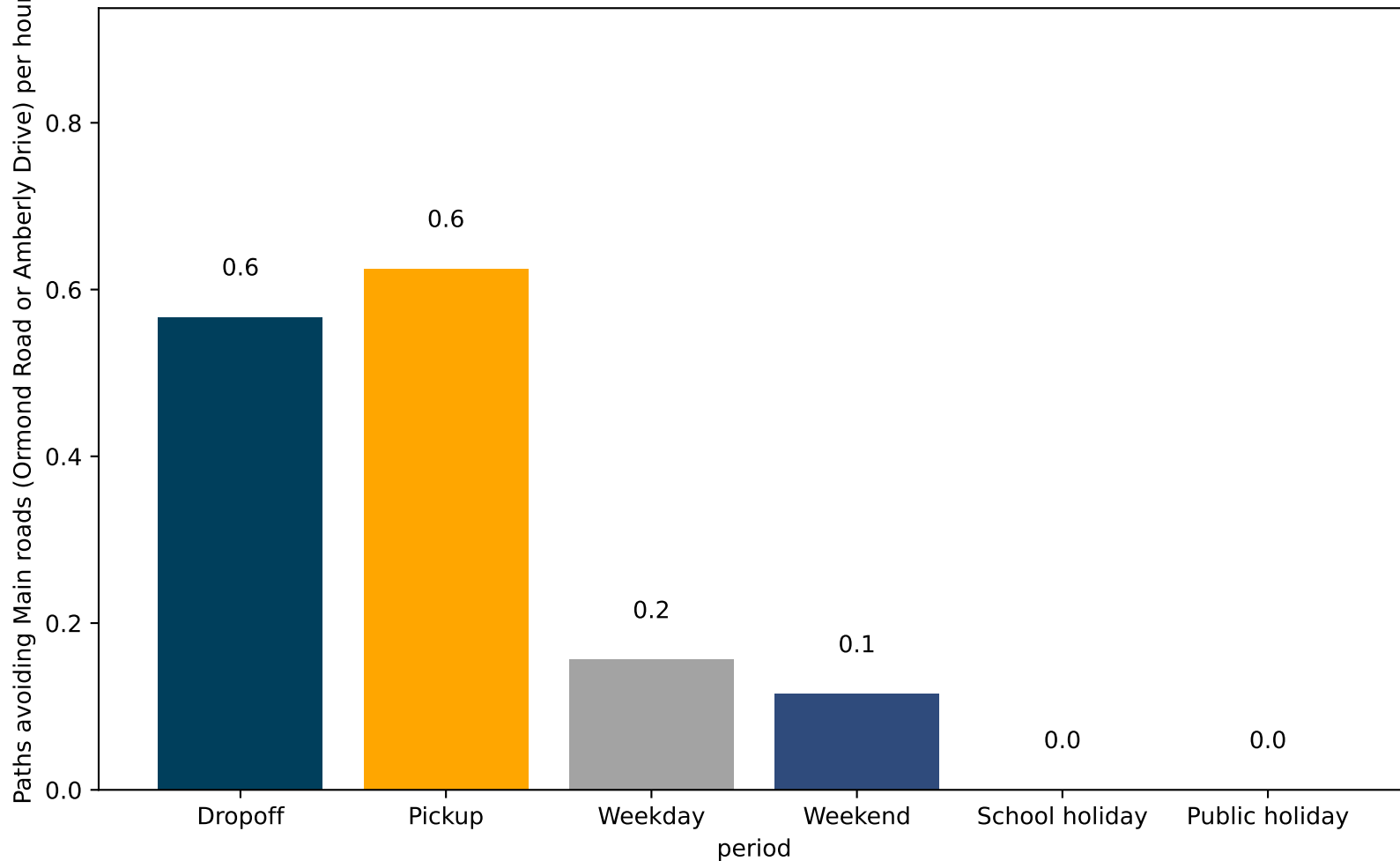
Speeding in the Area between different periods



Paths in Main roads (Ormond Road or Amberly Park Drive) between different periods

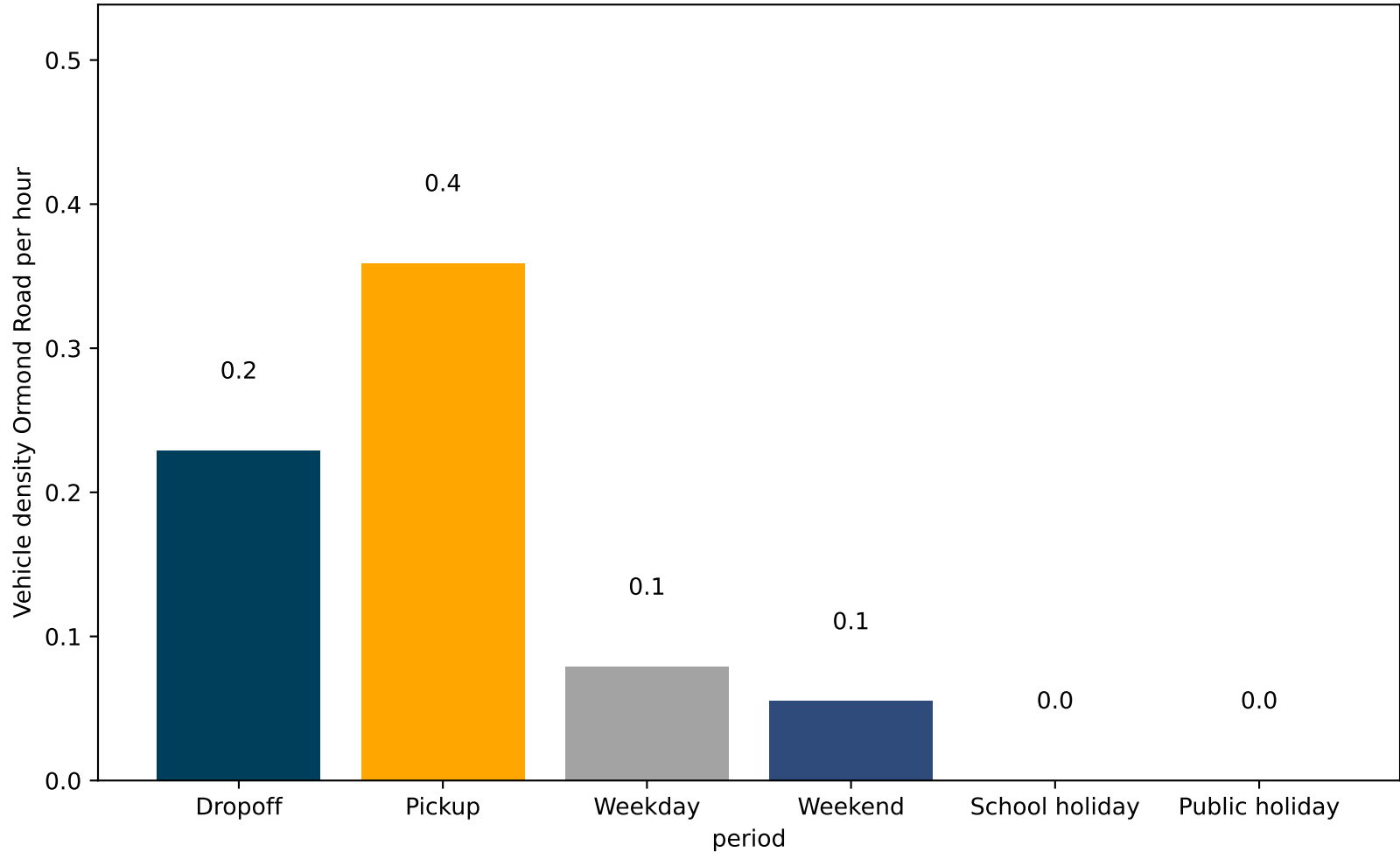


Paths avoiding Main roads (Ormond Road or Amberly Drive) between different periods





Vehicle density Ormond Road between different periods



Vehicle density Amberly Park Drive between different periods

