Canal Cordon Report 2017

Report on trends in mode share of vehicles and people crossing the Canal Cordon

2006 to 2017
1. Introduction

1.1 Background to Data Collection

Since 1980, Dublin City Council (DCC) has been conducting traffic counts at 33 locations around the cordon formed by the Royal and Grand Canals. The counts are conducted during the month of November each year. Since 1997 the counts have been conducted over the period between 07:00 and 10:00.

Between 1997 and 2009, the Dublin Transportation Office (DTO) collected data from a number of sources on people crossing the Canal Cordon into Dublin’s City Centre in the AM peak period between 07:00 and 10:00. The National Transport Authority (NTA) subsumed the DTO in 2009, and has continued to collate this data on an annual basis.

Combining the two sets of data enables the tracking of trends in the modes of travel that people are using to travel into the City Centre for the period 2006-2017.

1.2 Definition of the Canal Cordon

Map 1 illustrates the Canal Cordon and the 33 locations on the Cordon where data is annually collected on the movement of people in the AM peak period between 7:00 and 10:00. As the name suggests, the cordon has been chosen to ensure (as far as possible) that any person entering the City Centre from outside must pass through one of the 33 locations where the surveys were undertaken. It should be noted that the data as presented in this report refers to movements of people in one direction only (i.e. inbound into the city centre) across the various cordon points.

All 33 cordon points are on routes for general traffic into the City Centre, while 22 of the cordon points (shown in red in Map 1) are on bus routes into the City. People using DART and suburban rail services to enter the City Centre cross the cordon close to cordon points 2, 16 and 31 in Map 1, while those travelling on the two LUAS lines cross the cordon at points 7 and 13.
1.3 Data Sources

Data on the movement of people across the Canal Cordon has been assembled from a number of sources as outlined below:

- Dublin City Council has undertaken surveys at the Canal Cordon in November annually since 1980. Surveys are undertaken over two days at each location and an average across the two days is reported. The survey counts pedestrians, cyclists, cars, taxis, buses, goods vehicles and motorbikes crossing the cordon points in the inbound direction in the three hour, AM peak period 0700-1000.

- To complement the Dublin City Council Canal Cordon annual surveys, Dublin Bus have undertaken their own surveys annually on a single day at each location in November. This is not necessarily the same day as the DCC cordon counts. Since 1997 this survey has counted the number of passengers on all buses (including privately operated bus services)\(^1\) crossing inbound over the canal cordon points. This survey is undertaken at the 22 cordon points that are on bus routes into the City (shown in red in Figure1.1).

- Since 2012, Iarnród Éireann has undertaken a census of passengers boarding and alighting on all services passing through all stations in the national rail network on a single day. In 2017 the national rail census was carried out on 16th November. Prior to 2012 and since 1997, Iarnród Éireann had undertaken a similar passenger census for services operating within the Greater Dublin Area (GDA)\(^2\). Analysis of this data enables a calculation of the numbers of rail passengers crossing the three Canal Cordon points (inbound) between 0700-1000 on the census day.

- Transport Infrastructure Ireland (TII)\(^3\) undertakes an annual census of passengers boarding and alighting at all LUAS tram stops. This census is undertaken on a single day in November. It has been undertaken every year since both LUAS lines became operational in 2004. This data enables calculation of the number of LUAS passengers crossing the two Canal Cordon points (inbound) between 0700-1000 on census day.

By combining these four data sources, the NTA and DCC have been able to compile a comprehensive picture of the modes of travel used by people travelling across the Canal Cordon into the City in a typical AM peak period. There may be gaps in the data compiled in certain years, and some changes in the survey methodology for the DCC cordon counts have been introduced in recent years.

The introduction of LUAS also had a significant impact on the data trends. For these reasons, the analysis of trends in chapter 2 of this report is restricted to the years 2006 – 2016. For these 11 years, there is a consistent and continuous set of data that enables a direct comparison of mode share trends.

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\(^1\) Surveyors board all Dublin Bus services at the cordon point and conduct a count of passengers. For non-Dublin Bus services (such as Bus Éireann and privately operated services) experienced surveyors estimate the volume of passengers on board as the bus crosses the cordon point.

\(^2\) When the Census was GDA only, passengers who began their trip outside of the GDA would still be counted once they completed their trip within the GDA. For example a passenger travelling from Cork to Dublin would be counted crossing the Cordon at point 16 i.e. departing Parkwest and Cherry Orchard station.

\(^3\) Previously Railway Procurement Agency (RPA)
2. Traffic Surveys – Vehicles, Cyclist, Pedestrians

2.1 Overview

This Chapter of the report records the data collected from the traffic counts only, which records the numbers of vehicles of different types and the numbers of cyclists and pedestrians. It does not include the public transport surveys which supplements the traffic counts with the additional passenger numbers on the various modes of public transport. That information is included in Chapter 3 of this report.

Table 1 below presents the total numbers of vehicles, pedestrians and cyclists crossing the Canal Cordon inbound between 0700-1000 from 2006-2017. Figure 1 illustrates this data in graphical format.

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<td>5,676</td>
<td>6,143</td>
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<td>1,423</td>
<td>1,372</td>
<td>1,390</td>
<td>1,464</td>
<td>1,532</td>
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</tbody>
</table>

Table 1 – Vehicle, cyclists and pedestrians crossing the Canal Cordon by mode of travel 2006-2017
The next sections provide an analysis of this data by mode of travel, identifying the trends in the number of vehicles, pedestrians and cyclists crossing the canal cordon during the AM peak period from 0700-1000.

In Chapter 3, this analysis is supplemented with additional public transport patronage data to provide a full picture of the travel trends in person terms across the canal cordon.

### 2.2 Numbers of Vehicles, Cyclists and Pedestrians Crossing the Canal Cordon by Mode

#### 2.2.1 Buses

Between 2016 and 2017, there has been a slight increase in the number of buses crossing the cordon from 1,625 to 1,637. However within this total, Dublin Bus vehicle numbers increased by 4% whereas buses operated by Bus Éireann and private operators actually decreased by 9%.

In the period 2006-2017 the total number of buses crossing the cordon has decreased by 3%. In the same time period, the number of Dublin Bus vehicles has decreased by 6% whilst the number of Bus Éireann and privately operated buses has increased by 11%.

Number of Buses Crossing Cordon in AM Peak Period, 2006-2017

![Number of Buses Crossin Cordon in AM Peak Period, 2006-2017](image-url)
2.2.2 Cars
Continuing the trend of recent years, there was a decrease in the number of cars crossing the cordon from 51,908 to 50,158 between 2016 and 2017. This represents a decrease of just over 3%.

In the period 2006-2017 the peak year for cars crossing the canal cordon was in 2008 with almost 59,000 vehicles. The 2017 Figure represents a decrease of 15%, or 8,739 cars, since this peak.

Number of Cars Crossing Cordon in AM Peak Period, 2006-2017

2.2.3 Taxis
Taxis made up 6% of all cars crossing the canal cordon in 2006. This increased to 8.4% in 2016 but this has decreased slightly to 7.5% in 2017. 2017 saw a significant fall in the number of taxis crossing the cordon in the AM peak period from the previous year, down by 14% or 681 vehicles.

Number of Taxis Crossing Cordon in AM Peak Period, 2006-2017
2.2.4 Pedestrians
The number of pedestrians crossing the canal cordon has continued to increase from 21,473 in 2016 to 24,936 in 2017, an increase of almost 16% or 3,463 people. In the period 2006 to 2017, there has been a 46% increase in the number of pedestrians crossing the cordon during the AM peak period.

Number of Pedestrians Crossing Cordon in AM Peak Period, 2006-2017

2.2.5 Cyclists
The upward trend of cyclists crossing the canal continued between 2016-2017 with numbers increasing by 3%. There has been a steady year on year growth in the number of cyclists crossing the cordon since 2010. In 2017 almost 12,500 cyclists crossed the cordon in the AM peak period. This represents an increase of 157% when compared with 2006, and represents an increase of over 57% in the last five years.

Number of Cyclists Crossing Cordon in AM Peak Period, 2006-2017
2.2.6 Goods Vehicles
The number of goods vehicles crossing the Canal Cordon in the AM Peak has remained relatively static over recent years, with a small decline of 1% between 2016 and 2017 following a 1% rise between 2015 and 2016. Overall, the volume of goods vehicles crossing the cordon has remained broadly unchanged since 2009. Over the longer period from 2006 to 2017 however, the number of goods vehicles crossing the cordon has decreased by over 52%. The majority of that decrease, 70%, occurred in the period 2006-2007, and coincided with the opening of the Dublin Port Tunnel in 2006 and the implementation of the HGV Management Strategy in 2007.

Number of Good Vehicles Crossing Cordon in AM Peak Period, 2006-2016

2.2.7 Motor Bikes
There was an increase of just under 5% in the number of motor cyclists crossing the canal cordon between 2016 and 2017. In the period 2006-2016 the volume of motor cyclists crossing the cordon in the AM peak has fallen by roughly 36%. However the declining trend has stabilised somewhat since 2012.

Number of Motor Bikes Crossing Cordon in AM Peak Period, 2006-2016
3. Traffic and Transport Surveys - Overall Movements of People

3.1 Numbers of People Crossing the Canal Cordon

While Chapter 2 reports the number of vehicles, cyclists and pedestrians crossing the canal cordon, this chapter supplements that information with the data obtained from the public transport surveys, to give the overall number of people travelling into the central area of the City.

Using that supplementary data, Table 2 gives the total numbers of people crossing the canal cordon inbound between 0700-1000 for 2017 and for each year since 2006, broken down by mode of travel. The data is displayed in graphical format in Figure 2.

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<td>2,429</td>
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<td>1,485</td>
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<td>1,532</td>
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<tr>
<td>Total Person Trips</td>
<td>207,379</td>
<td>203,959</td>
<td>199,767</td>
<td>188,540</td>
<td>181,042</td>
<td>183,569</td>
<td>185,481</td>
<td>192,188</td>
<td>192,670</td>
<td>199,943</td>
<td>203,863</td>
<td>211,416</td>
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Table 2 – Numbers of people crossing the Canal Cordon by mode of travel 2006-2017
Figure 2 – Numbers of people crossing the Canal Cordon by mode of travel 2006-2017
3.2 Percentage Mode Share of People Crossing the Canal Cordon

Table 3 gives the percentage mode share for all modes of travel used by people crossing the canal cordon inbound between 0700 and 1000 for the years 2006 to 2017. The trend is graphed in Figure 3.

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<td>199,943</td>
<td>203,863</td>
<td>211,416</td>
</tr>
</tbody>
</table>

Table 3 – Mode share of people crossing the Canal Cordon by mode of travel 2006-2017
Figure 3 – Mode share of people crossing the Canal Cordon by mode of travel 2006-2017
3.3 Trips Crossing the Canal Cordon by Sustainable Modes

The tables below show the number and mode share of trips crossing the canal cordon in the AM peak period by sustainable modes during the period 2006 to 2017. Sustainable modes consist of public transport, active modes (walking and cycling) and taxi.

### Table 4 – Numbers of people crossing the Canal Cordon by sustainable modes of travel 2006-2017

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<td>67,755</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>207,379</strong></td>
<td><strong>203,959</strong></td>
<td><strong>199,767</strong></td>
<td><strong>188,540</strong></td>
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<td><strong>199,943</strong></td>
<td><strong>203,863</strong></td>
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### Table 5 – Mode share of people crossing the Canal Cordon by sustainable modes 2006-2017

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</thead>
<tbody>
<tr>
<td>Sustainable Modes</td>
<td>61%</td>
<td>63%</td>
<td>64%</td>
<td>61%</td>
<td>59%</td>
<td>61%</td>
<td>62%</td>
<td>63%</td>
<td>65%</td>
<td>66%</td>
<td>67%</td>
<td>70%</td>
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<tr>
<td>Car, Goods and Other Modes</td>
<td>39%</td>
<td>37%</td>
<td>36%</td>
<td>39%</td>
<td>41%</td>
<td>39%</td>
<td>38%</td>
<td>37%</td>
<td>35%</td>
<td>34%</td>
<td>33%</td>
<td>30%</td>
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</tbody>
</table>

During the 2017 AM peak period (7am to 10am), 70% of all inbound trips crossing the canal cordon were made by a sustainable mode (walking, cycling public transport or taxi). The sustainable mode share has grown year on year since 2010. In the last 11 years the share for sustainable modes has grown by 9 percentage points.

In 2017, 147,166 trips crossed the cordon by sustainable modes in the three hour AM peak period. This is the highest level of mode share and person trips by sustainable modes since the cordon count began. This represents 21,323 more person trips by sustainable mode than were made in 2006.

The graphs below show the trend in trips by sustainable modes over the 10 year period 2006 – 2017.

![Figure 4 - Mode share of people crossing the Canal Cordon by sustainable modes 2006 & 2017](image-url)
Figure 5 - Numbers of people crossing the Canal Cordon by sustainable modes of travel 2006-2017

Figure 6 - Mode share of people crossing the Canal Cordon by sustainable modes 2006-2017

Figure 7 - Relative increase/decrease in use of sustainable and other modes 2006-2017
INDEX: 2006 = 100
4. Commentary on Canal Cordon Trends

4.1 Overall Trends
As shown in Table 3 and Figure 3, the total number of people crossing the canal cordon in the AM peak period (0700-1000) increased by 3.7% between 2016 and 2017. This is an increase of 7,553 person trips, bringing the total number of people crossing the canal (inbound) in the AM peak period to 211,416. There are now more people crossing the canal in the AM peak than in 2006.

4.2 Public Transport Usage
Between 2016 and 2017, there was an increase of just under 3.5% in the number of public transport users crossing the cordon between 0700 and 1000. In 2017 over 107,000 people used public transport to get into the City Centre on census day.

There was a slight decrease in the use of LUAS (2%) whilst rail and bus both showed an increase. Continuing a trend of growth since 2014, Rail showed a significant increase of 10% relative to 2016, while bus saw a growth of 7% on 2016 figures, reversing the slight fall in 2016. Overall, since 2006, the number of public transport passengers has increased by just under 5%.

4.3 Mode Trends
A summary of the key changes in travel across the canal cordon set out above is described below:

In percentage terms mode share for bus travel across the canal cordon in 2017 is now 28.8%. This is an increase of over 1% on 2016 figures, and almost equal to the peak bus mode share of 30.3% in 2008. In absolute terms bus patronage increased in 2017 by almost 3,100 person trips, and now carries almost 61,000 people into the City Centre in the AM peak period. This represents 57% of all public transport trips into the City Centre in the peak period.

The mode share for rail across the canal cordon in 2017 was 16.3%. This is the highest it has been since the peak rail mode share of 17.5% in 2007. Intercity, Suburban Rail and DART had lost a significant share of travel into the City Centre between 2007 and 2014. However this trend was reversed in 2015 and rail mode share increased by 30% since its low point in 2011.

Car mode share (excluding taxis) declined in 2017, continuing a year on year decline since 2010. Overall since 2006 car usage has declined by almost 20%. Car use declined by another 5% between 2016 and 2017. On census day 2017 over 15,000 less cars entered the City during the AM peak period than on census day 2006.

Walking increased by almost 16% between 2016 and 2017, following a trend of strong growth over recent years. Walking levels are now at their highest since the cordon count began; the walk mode share is now 11.8%. There are now over 37,000 “active trips” (walking and cycling) cross the canal cordon during the AM peak period, more than is carried by the entire heavy rail network for the same period.

Cycling has continued its steady trend of increasing usage and now represents a mode share of 5.9%, similar to 2016. Whilst overall cycle numbers are up 157% on 2006 levels, the cycle mode share has more than doubled in the same period and has increased year on year since 2010.

Over 2,600 people entered the City by taxi in 2017 - this represents an 4% decrease on 2016 levels. The observed decline of taxi use in 2017 is a continuation of the trend since 2012, when taxi use peaked at over 3,250 passengers crossing the canal in the AM peak period.

The number of motor cyclists entering the City has reduced significantly since 2016 (by 36%). However the trend remained relatively flat between 2015 and 2016 (5% increase). Motor cycle mode share has remained static at 0.7% in 2017.
The number of goods vehicles entering the City during the AM peak period has declined by over 55% since 2006. The mode share for goods vehicles has remained relatively unchanged since 2007. Between 2006 and 2007 the goods vehicle mode share fell by almost 40%. Goods vehicle volumes in 2017 have remained relatively unchanged, with just over 1,000 vehicles crossing the canal cordon in the AM peak period.

Since 2010, there has been a trend of increasing mode share for sustainable transport modes, with a consistent level of increase each year. In 2017 the overall mode share for sustainable transport modes - walking, cycling and public transport was 70% (up 3% on 2016), its highest level since the canal cordon counts began. Goods vehicles and journeys by car and motorbike now account for only 30% of the trips crossing the canal cordon.
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