Appendix 50

HTp/1107/TN/20 – Traffic Growth (May 2017)

HighgateTransportation

Land at Peel Hall, Warrington

Technical Note on Traffic Growth

(HTp/1107/TN/20)

May 2017

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Contents

		Page
1.0	Introduction	1
2.0	Growth Rates	2

Figures

Figure 2.1	Census 2011 Data, Warrington 006
Figure 2.2	Census 2011 Data, Warrington Super Output Areas

Appendices

Appendix 1	TEMPRO Screen Captures

1.0 Introduction

1.1 This Technical Note has been prepared by Highgate Transportation Limited further to Technical Note TN/07/Addendum on Traffic Growth (October 2016), to update the growth rates used for modelling the traffic impact of the proposed Peel Hall development in the future years of 2025 and 2030.

1.2 Previously TEMPRO 6 (version 6.2) was used. However, now that the modelling is being revised the opportunity has been taken to use TEMPRO 7. The latest version currently available is version 7.2, which has been used for this exercise.

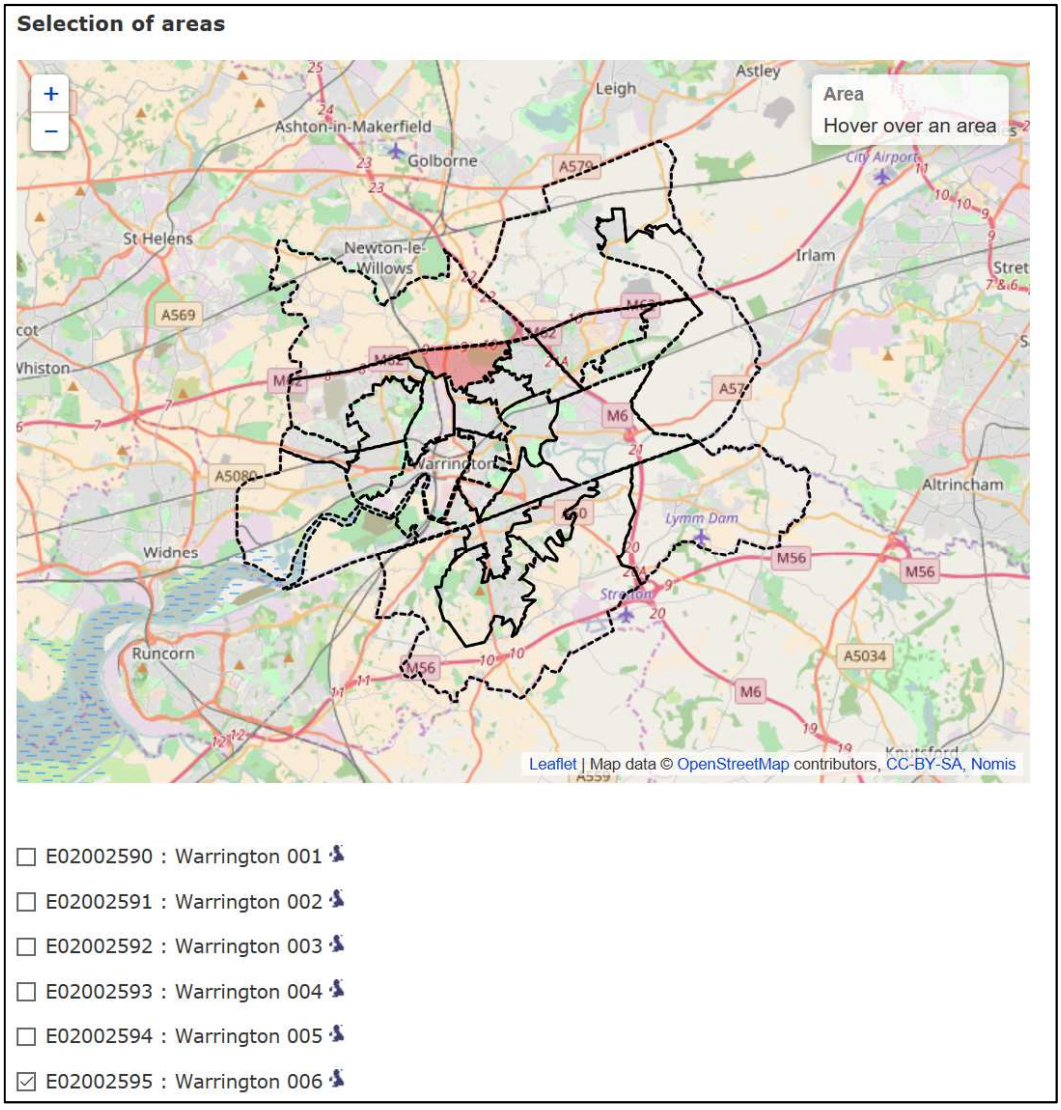
1.3 Technical Note TN/07 on Growth Rates dated May 2016 set out that there was an agreement to use Motorway growth rates for the modelling. It should be noted that this represents an over-estimate for the traffic growth over much of the model network because it is the highest growth factor from this dataset in the TEMPRO programme; it will nevertheless provide confidence in the modelling results as well as account for trips from the OMEGA development.

2.0 Growth Rates

2.1 The TEMPRO database version 7.2 has been reviewed for the appropriate growth factors to apply to the 2015 base model flows to forecast traffic in the future years of 2025 and 2030.

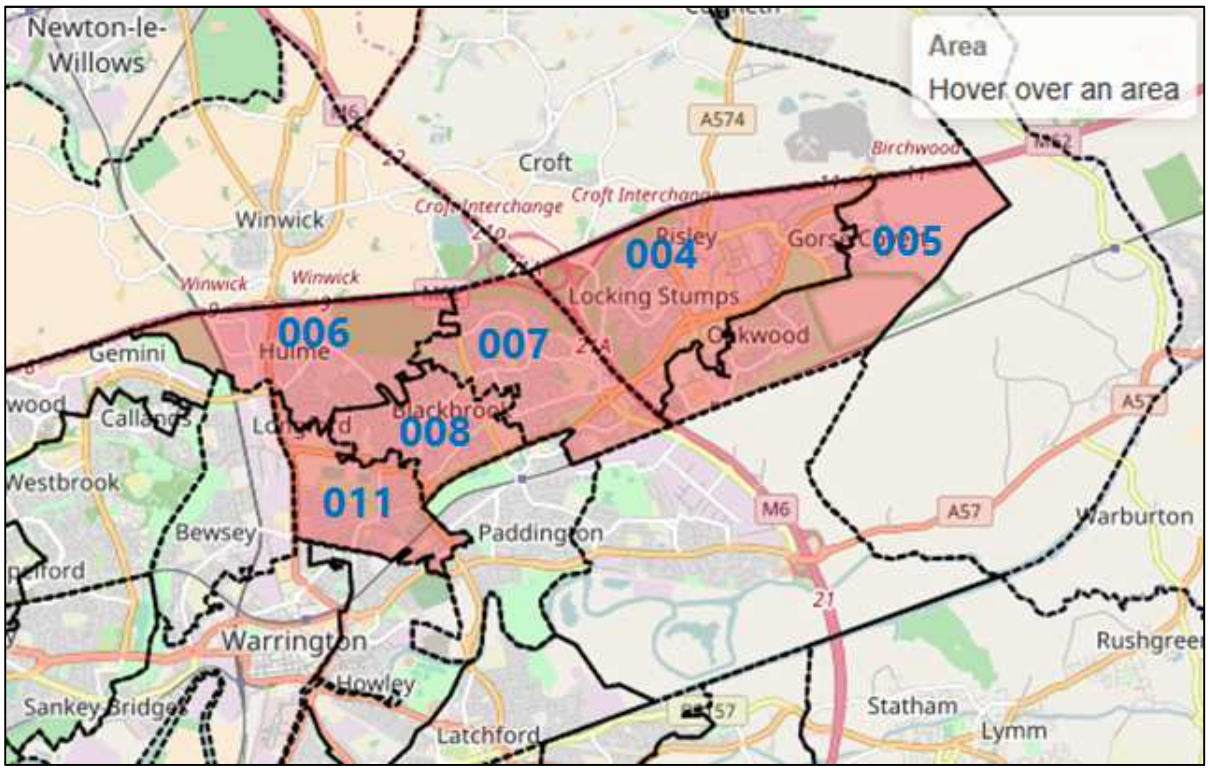
2.2 TEMPRO version 7 uses census 2011 Super Output Areas (mid layer) data. The Peel Hall site is located in the Hulme area, as indicated in **Figure 2.1** below, which is Warrington 006 (E02002595), see below.

Figure 2.1 – Census 2011 Data, Warrington 006



2.3 The other areas classified by the census data that are covered within the area-wide modelling for the Peel Hall site are illustratively shown in **Figure 2.2** below for ease of reference.

Figure 2.2 – Census 2011 Data, Warrington Super Output Areas



2.4 The census reference numbers for the areas shown above are as follows:

i. 007, E02002596
ii. 004, E02002593
iii. 005, E02002594
iv. 008, E02002597
v. 011, E02002600

2.5 Therefore the Warrington 006 are will be selected for calculating the growth rate for the Peel Hall assessments.

2.6 Using Urban Motorway roads to forecast 2025 and 2030 traffic growth the resultant growth factors are set out in **Table 2.1** below. The TEMPRO data is contained in **Appendix 1** for reference.

Table 2.1 – Growth rates

	AM	PM
2015-2025	1.1749	1.1652
2015-2030	1.2211	1.2098

2.7 For reference, the above growth rates are higher than any of the other areas also highlighted in **Figure 2.1** and **paragraph 2.4** above, as set out below for reference (for 2015-2030):

i. Selecting 004 gives growth rates of AM 1.1921, PM 1.1798.
ii. Selecting 005 gives growth rates of AM 1.1886, PM 1.1842.
iii. Selecting 007 gives growth rates of AM 1.1693, PM 1.1536.
iv. Selecting 008 gives growth rates of AM 1.2010, PM 1.1986.
v. Selecting 011 gives growth rates of AM 1.1882, PM 1.1857.
vi. Selecting Warrington (Authority) gives AM 1.1838, PM 1.1765.

2.8 Therefore it is considered that the use of the Warrington 006 growth rates are appropriate for the Peel Hall area-wide modelling.

Employment

2.9 As previously set out in Technical Note TN/07/Addendum on Traffic Growth (October 2016) and agreed with highway officers, two of the employment sites identified as committed developments; Calver Park (ref: 2015/26685 and 2013/22533) and Birchwood Park (ref: 2015/26044, 214/23358 and 2008/12744), are included in the Local Plan.

2.10 Therefore it can reasonably be assumed that an estimation of the volume of trips these developments would generate will have been provided by Warrington and feed into TEMPRO, and as such these committed developments have not been added again in the future years.

2.11 Furthermore, highway officers have confirmed that the Winwick B&Q proposals can be excluded from the list of committed developments as it is agreed that any additional traffic is insignificant.

2.12 In summary, the committed developments added to the Peel Hall modelling can be summarised as follows:

i. Land at Benson Road, Birchwood (ref: 2015/26220).
ii. Birchwood Shopping Centre (ref: 2015/25880).

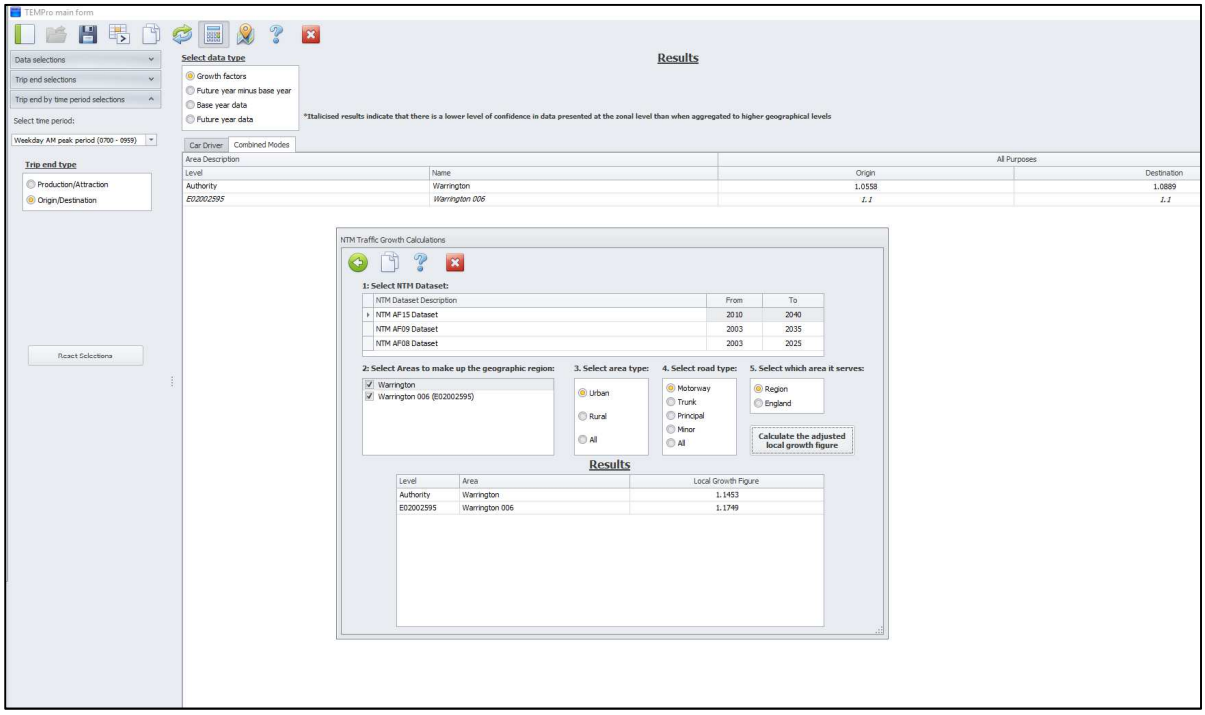
Appendix 1

TEMPRO Screen Capture

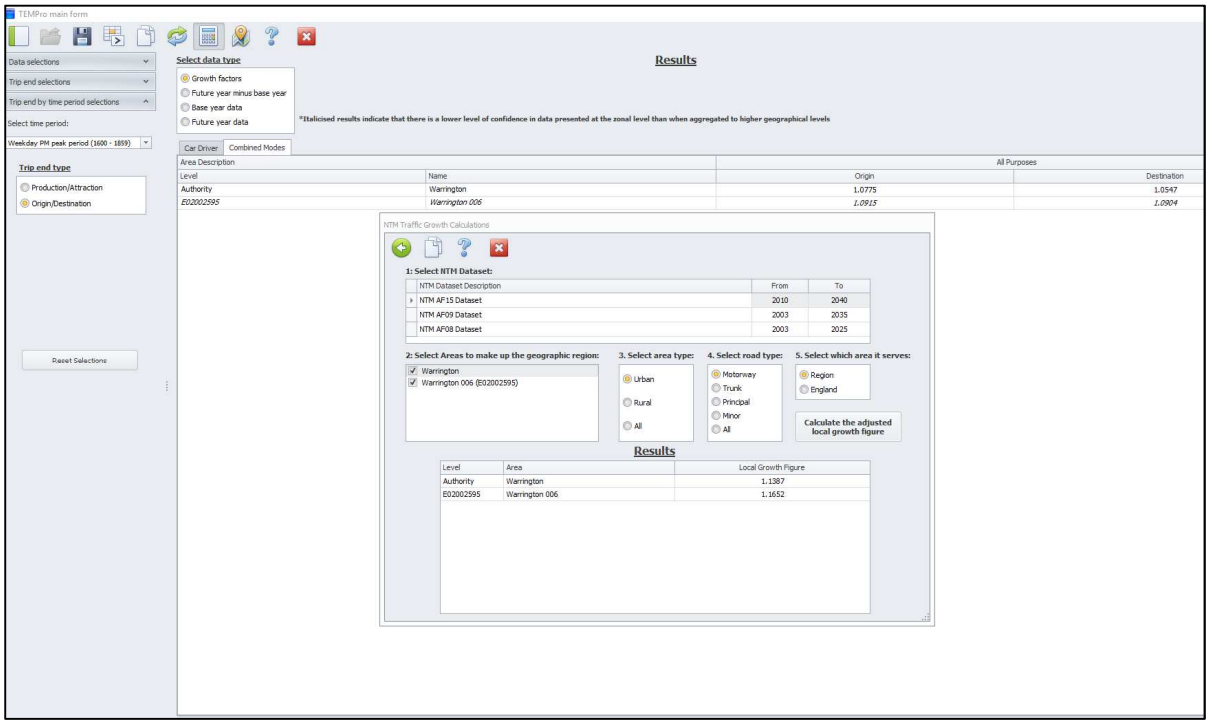
1107 Peel Hall
TEMPRO 7.2
2015-2025

Motorway Growth

Warrington 006 – AM Peak Hour

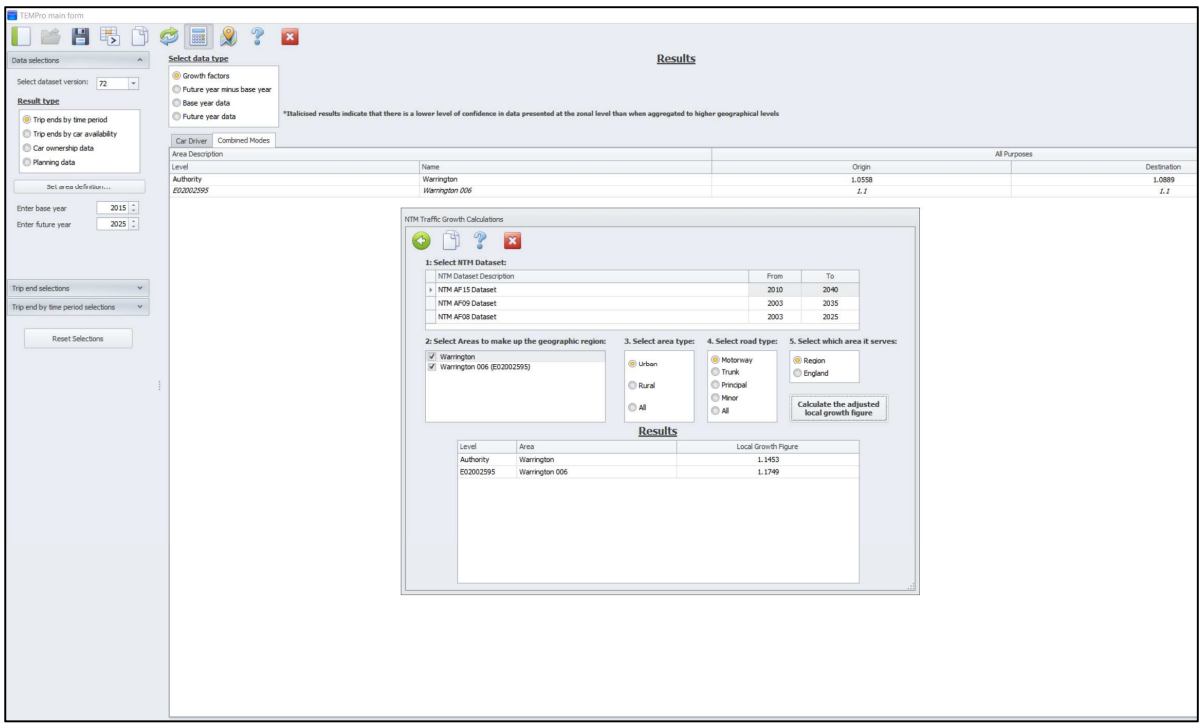


Warrington 006 – PM Peak Hour



1107 Peel Hall
TEMPRO 7.2
2015-2025

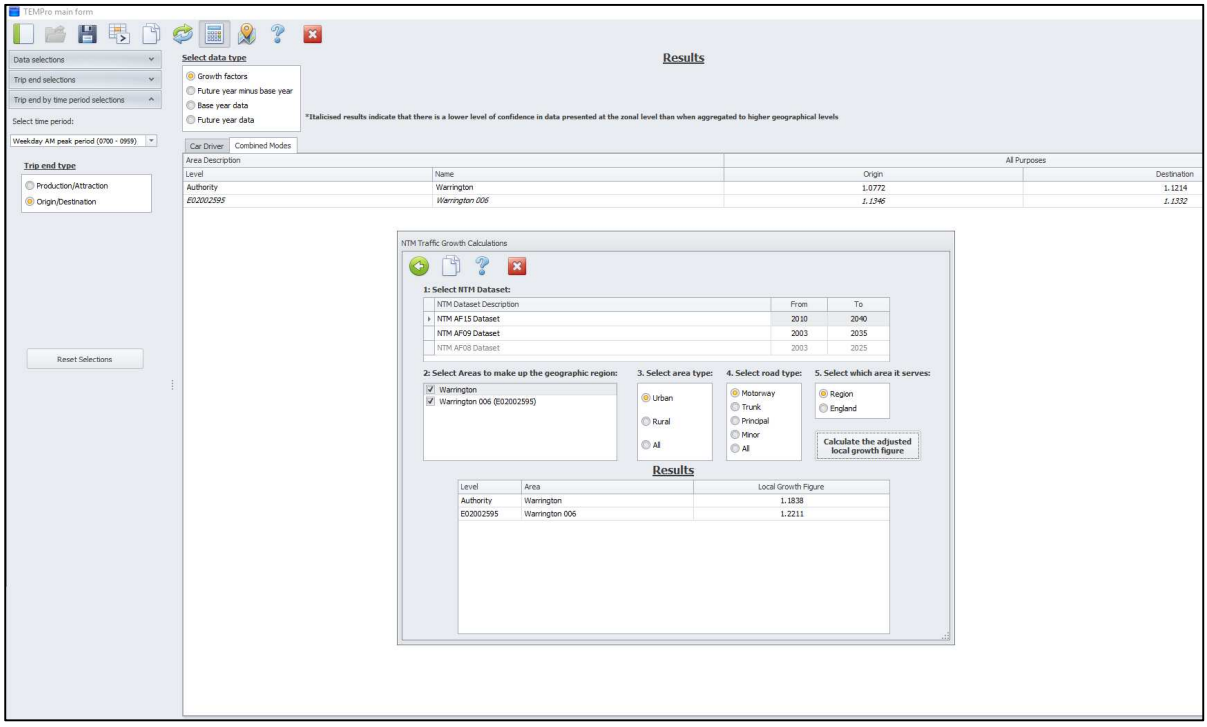
AM Peak Hour – displaying years of 2015-2025



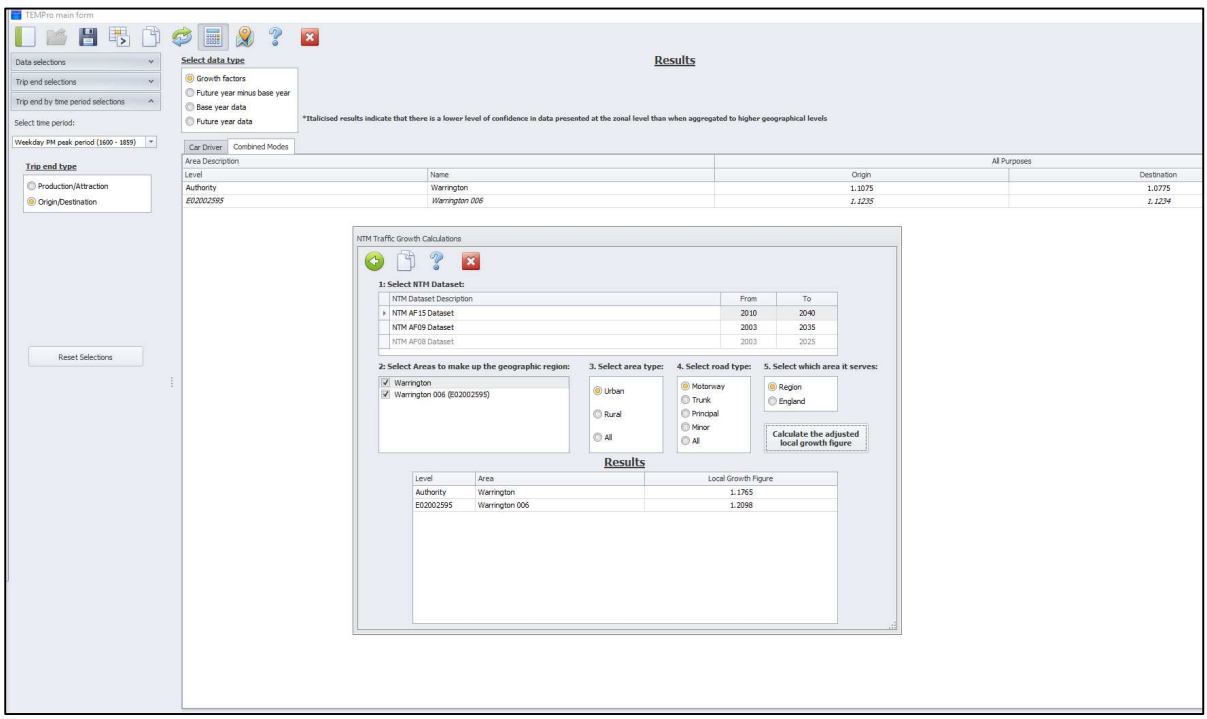
1107 Peel Hall
TEMPRO 7.2
2015-2030

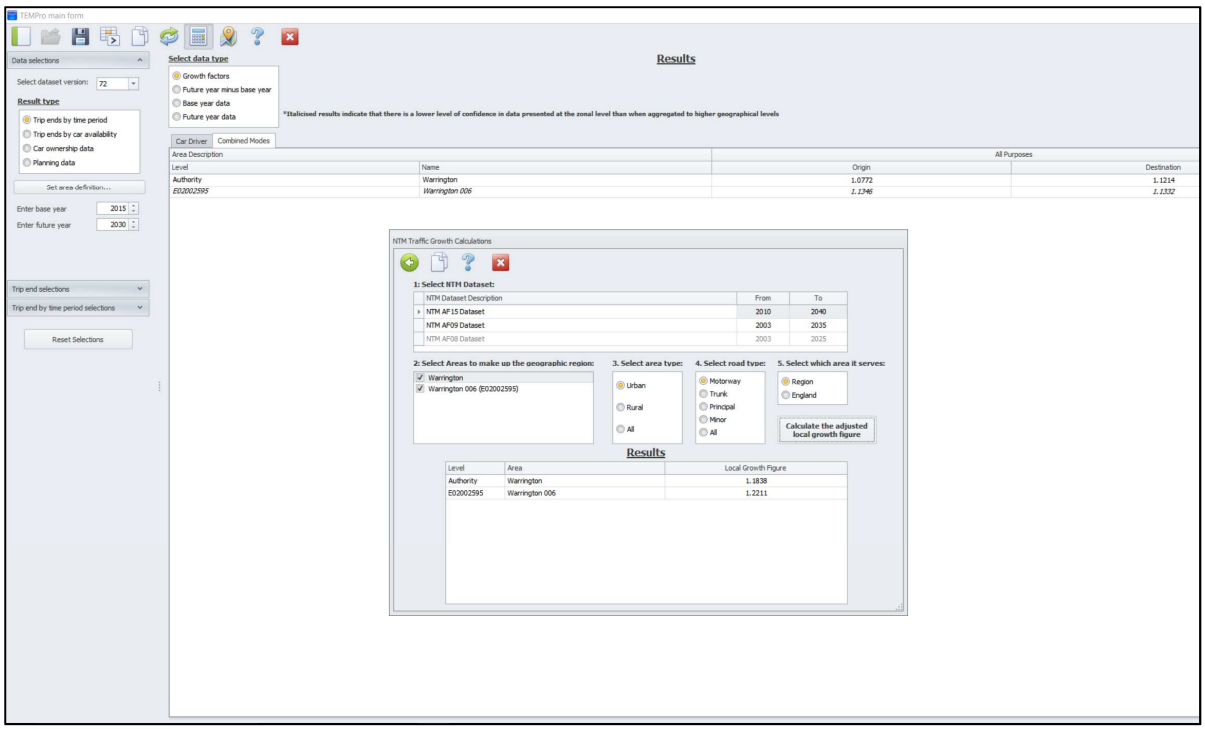
Motorway Growth

Warrington 006 – AM Peak Hour



Warrington 006 – PM Peak Hour



1107 Peel Hall
TEMPRO 7.2
2015-2030

AM Peak Hour – displaying years of 2015-2030