







Annex 4 – Scotland East Maps

1. The mileage reported in **Figure A** is based on internal FirstGroup data. However, in order to assess market developments over time it has been necessary for FirstGroup to use data from the Traveline¹ database to estimate the level of services it provides, relative to other operators within the undertakings areas.
2. FirstGroup’s own internal data is likely to provide a more accurate view on its mileage within the undertakings areas, as it is based on detailed recording of actual distances travelled. As a result, analysis of the Traveline data should focus on comparisons across operators, rather than detailed analysis of the absolute size of FirstGroup’s own operations.
3. For ease of reference, **Figure B** provides a key showing the colour coding used for different operators throughout the remainder of this section of the notification.

Figure B - Route Key

Route key					
Route key					
	•	FirstGroup		•	Lothian
	•	Arriva		•	Stagecoach
	•	McGill’s		•	Other

Note that for clarity other operators are not shown.

Scotland East Market Developments

4. **Figure A** below shows how Scotland East business has developed over the last decade relative to other bus operators within the region.²

¹ The Traveline database of local bus routes includes information on the timetables and locations of all local bus services in Great Britain. The data set has been constructed by combining timetable and timing point information from the National Public Transport Data Repository (*NPTDR*) with bus stop location data taken from the National Public Transport Access Node (*NaPTAN*) database.

Traveline represents the only complete and tractable database of the timetables and locations of local bus services across Great Britain. It underlies journey planning and timetabling services offered by Traveline, Google Maps, and Transport Direct, and is often used for research on public transport accessibility. The Traveline database was extensively used by the Competition Commission during the local buses market investigation.

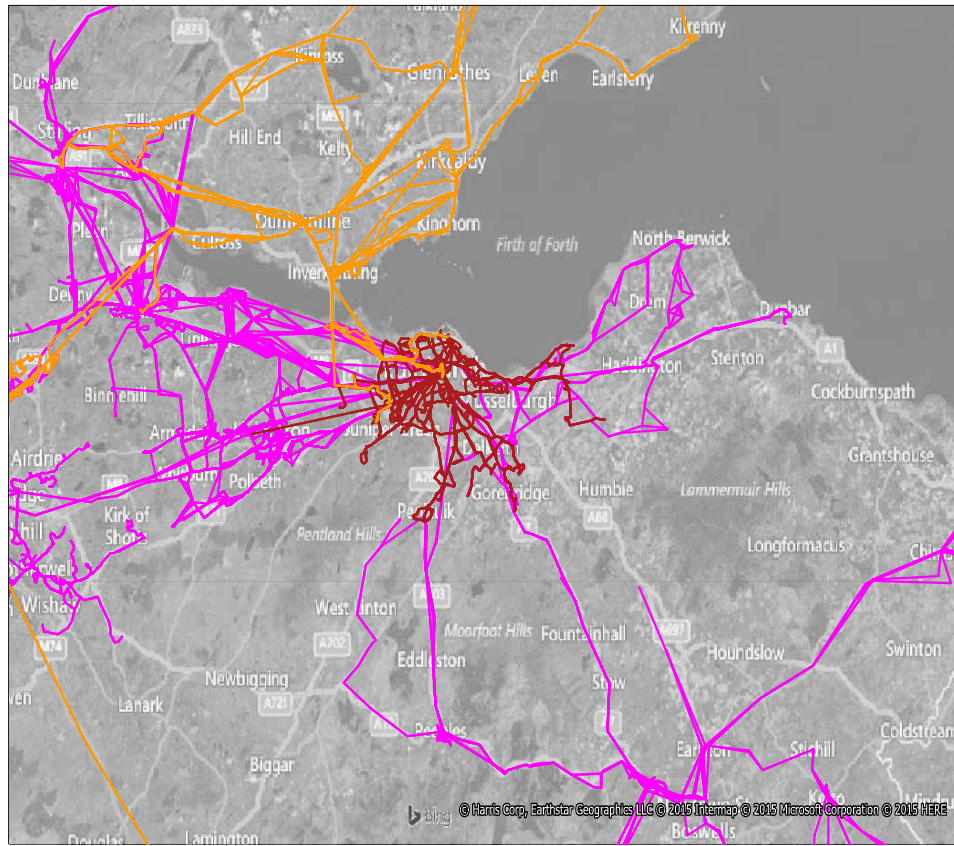
Traveline data is publicly available, and is now updated on a weekly basis. Prior to 2010, Traveline data was available on annual basis, using a sample week in early October of each year.

FirstGroup notes that the overall quality and accuracy of Traveline data has improved over time. Data from earlier years is therefore likely to be less reliable than data from the more recent past.

² Both figures are based on data drawn from the Traveline database.

Figure A - Network changes in South East Scotland from 2005 to 2015

October 2008



April 2015

