




# Belfast and Northern Ireland Models: Cross Border Movements








Modelled Weekday 12hr Car/LGV Trips (UC4)

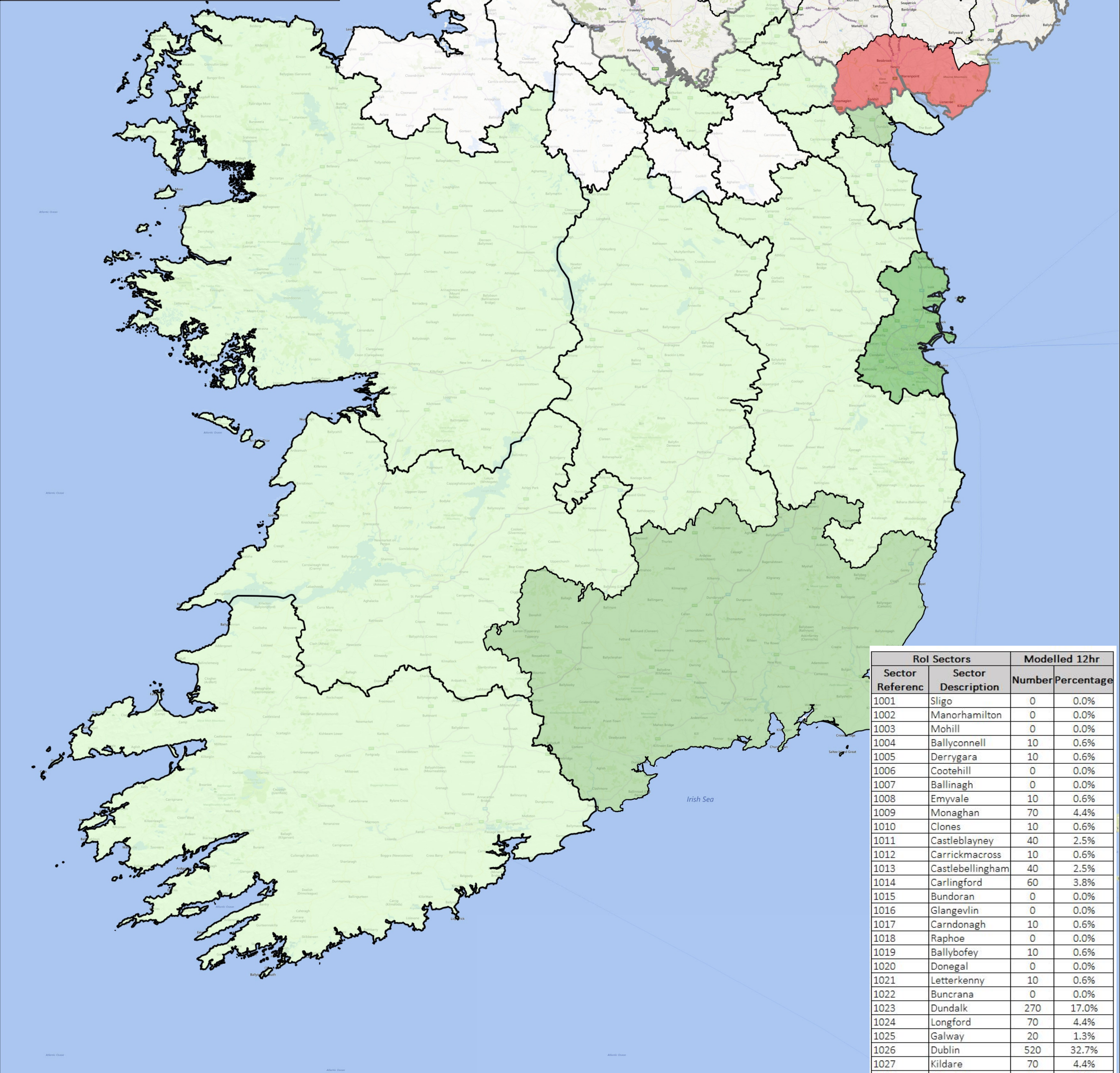
Origin: Sector 9522 (Newry)  
Destination: All RoI

**Legend**

-  NI/ROI Border
-  Model Sectors
-  Sector 9522 (Newry)

**Proportion of Trips from Sector 9522 to All RoI**

-  0%
-  1-10%
-  11-20%
-  21-30%
-  31-40%
-  41-50%
-  51+%



RoI Sectors		Modelled 12hr	
Sector Referenc	Sector Description	Number	Percentage
1001	Sligo	0	0.0%
1002	Manorhamilton	0	0.0%
1003	Mohill	0	0.0%
1004	Ballyconnell	10	0.6%
1005	Derrygara	10	0.6%
1006	Cootehill	0	0.0%
1007	Ballinagh	0	0.0%
1008	Emyvale	10	0.6%
1009	Monaghan	70	4.4%
1010	Clones	10	0.6%
1011	Castleblayney	40	2.5%
1012	Carrickmacross	10	0.6%
1013	Castlebellingham	40	2.5%
1014	Carlingford	60	3.8%
1015	Bundoran	0	0.0%
1016	Glangevlin	0	0.0%
1017	Carndonagh	10	0.6%
1018	Raphoe	0	0.0%
1019	Ballybofey	10	0.6%
1020	Donegal	0	0.0%
1021	Letterkenny	10	0.6%
1022	Buncrana	0	0.0%
1023	Dundalk	270	17.0%
1024	Longford	70	4.4%
1025	Galway	20	1.3%
1026	Dublin	520	32.7%
1027	Kildare	70	4.4%
1028	Limerick	10	0.6%
1029	Kilkenny	300	18.9%
1030	Cork	40	2.5%





# Technical note 03

Figure C.4 – All RoI to Sector 9522 (Newry) – HGV






# Belfast and Northern Ireland Models: Cross Border Movements








Modelled Weekday 12hr Car/LGV Trips (UC4)

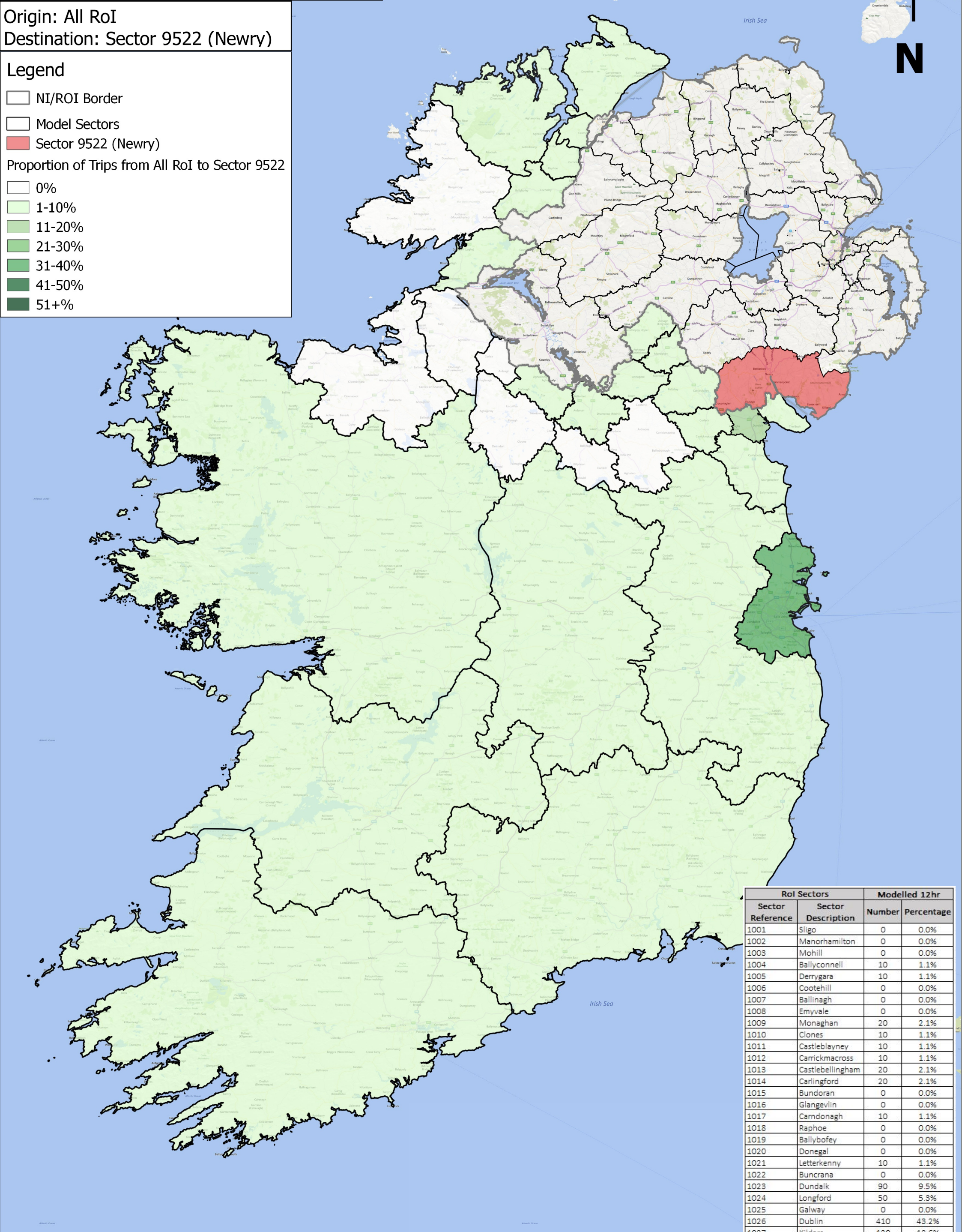
Origin: All RoI  
 Destination: Sector 9522 (Newry)

**Legend**

-  NI/ROI Border
-  Model Sectors
-  Sector 9522 (Newry)

**Proportion of Trips from All RoI to Sector 9522**

-  0%
-  1-10%
-  11-20%
-  21-30%
-  31-40%
-  41-50%
-  51+%



RoI Sectors		Modelled 12hr	
Sector Reference	Sector Description	Number	Percentage
1001	Sligo	0	0.0%
1002	Manorhamilton	0	0.0%
1003	Mohill	0	0.0%
1004	Ballyconnell	10	1.1%
1005	Derrygara	10	1.1%
1006	Cootehill	0	0.0%
1007	Ballinagh	0	0.0%
1008	Emyvale	0	0.0%
1009	Monaghan	20	2.1%
1010	Clones	10	1.1%
1011	Castleblayney	10	1.1%
1012	Carrickmacross	10	1.1%
1013	Castlebellingham	20	2.1%
1014	Carlingford	20	2.1%
1015	Bundoran	0	0.0%
1016	Glangevlin	0	0.0%
1017	Carndonagh	10	1.1%
1018	Raphoe	0	0.0%
1019	Ballybofey	0	0.0%
1020	Donegal	0	0.0%
1021	Letterkenny	10	1.1%
1022	Buncrana	0	0.0%
1023	Dundalk	90	9.5%
1024	Longford	50	5.3%
1025	Galway	0	0.0%
1026	Dublin	410	43.2%
1027	Kildare	120	12.6%
1028	Limerick	10	1.1%
1029	Kilkenny	120	12.6%
1030	Cork	20	2.1%

0 50 100 km



# Technical note 03

Figure C.5 – Sector 9507 (Belfast) to All RoI – Car/LGV



# Belfast and Northern Ireland Models: Cross Border Movements

Modelled Weekday 12hr Car/LGV Trips (UC1-3)

Origin: Sector 9507 (Belfast)

Destination: All RoI

## Legend

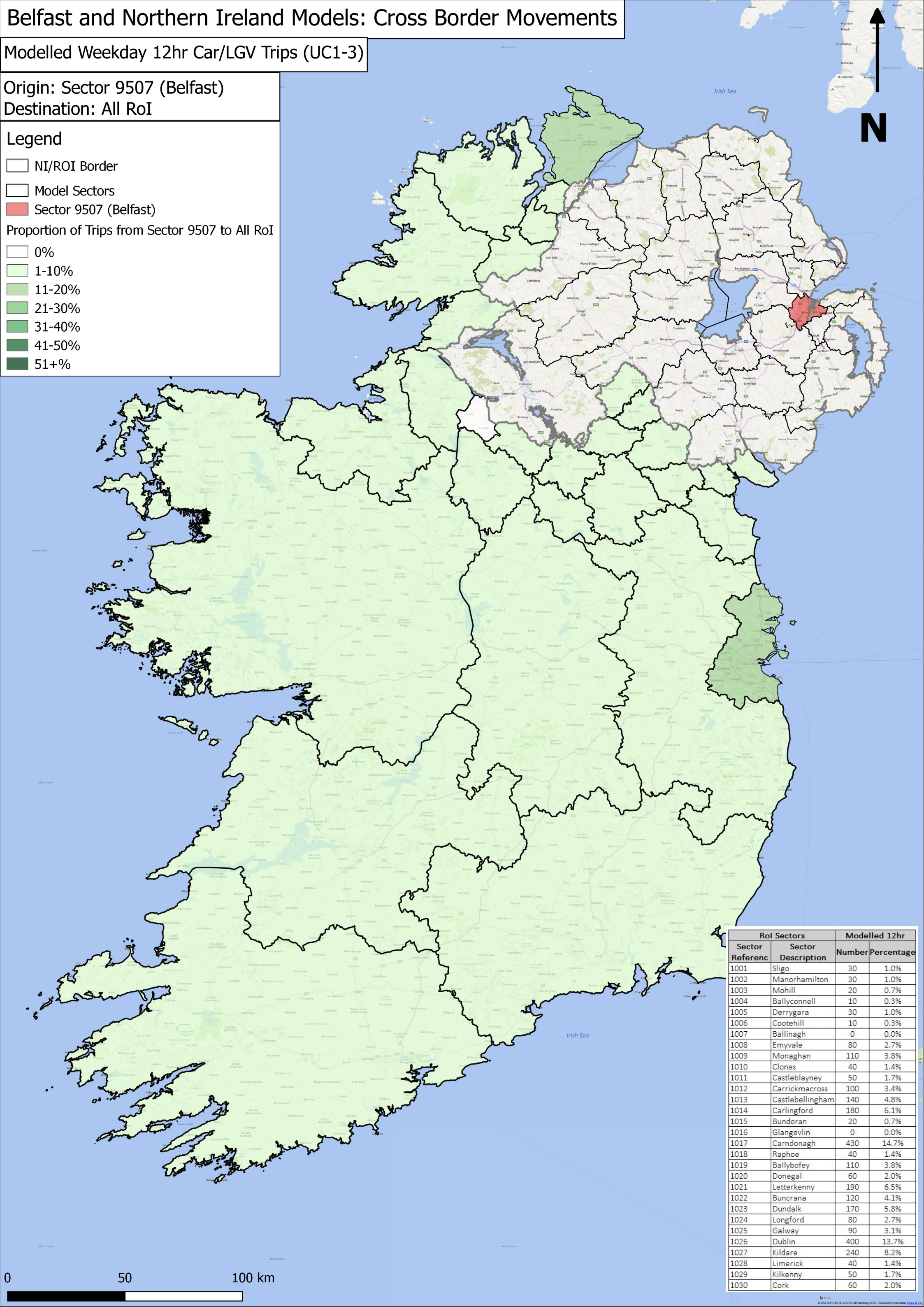
NI/ROI Border

Model Sectors

Sector 9507 (Belfast)

Proportion of Trips from Sector 9507 to All RoI

- 0%
- 1-10%
- 11-20%
- 21-30%
- 31-40%
- 41-50%
- 51+%



RoI Sectors		Modelled 12hr	
Sector Referenc	Sector Description	Number	Percentage
1001	Sligo	30	1.0%
1002	Manorhamilton	30	1.0%
1003	Mohill	20	0.7%
1004	Ballyconnell	10	0.3%
1005	Derrygara	30	1.0%
1006	Cootehill	10	0.3%
1007	Ballinagh	0	0.0%
1008	Emyvale	80	2.7%
1009	Monaghan	110	3.8%
1010	Clones	40	1.4%
1011	Castleblayney	50	1.7%
1012	Carrickmacross	100	3.4%
1013	Castlebellingham	140	4.8%
1014	Carlingford	180	6.1%
1015	Bundoran	20	0.7%
1016	Glangevlin	0	0.0%
1017	Carndonagh	430	14.7%
1018	Raphoe	40	1.4%
1019	Ballybofey	110	3.8%
1020	Donegal	60	2.0%
1021	Letterkenny	190	6.5%
1022	Buncrana	120	4.1%
1023	Dundalk	170	5.8%
1024	Longford	80	2.7%
1025	Galway	90	3.1%
1026	Dublin	400	13.7%
1027	Kildare	240	8.2%
1028	Limerick	40	1.4%
1029	Kilkenny	50	1.7%
1030	Cork	60	2.0%





# Technical note 03

Figure C.6 – All RoI to Sector 9507 (Belfast) – Car/LGV






# Belfast and Northern Ireland Models: Cross Border Movements








Modelled Weekday 12hr Car/LGV Trips (UC1-3)

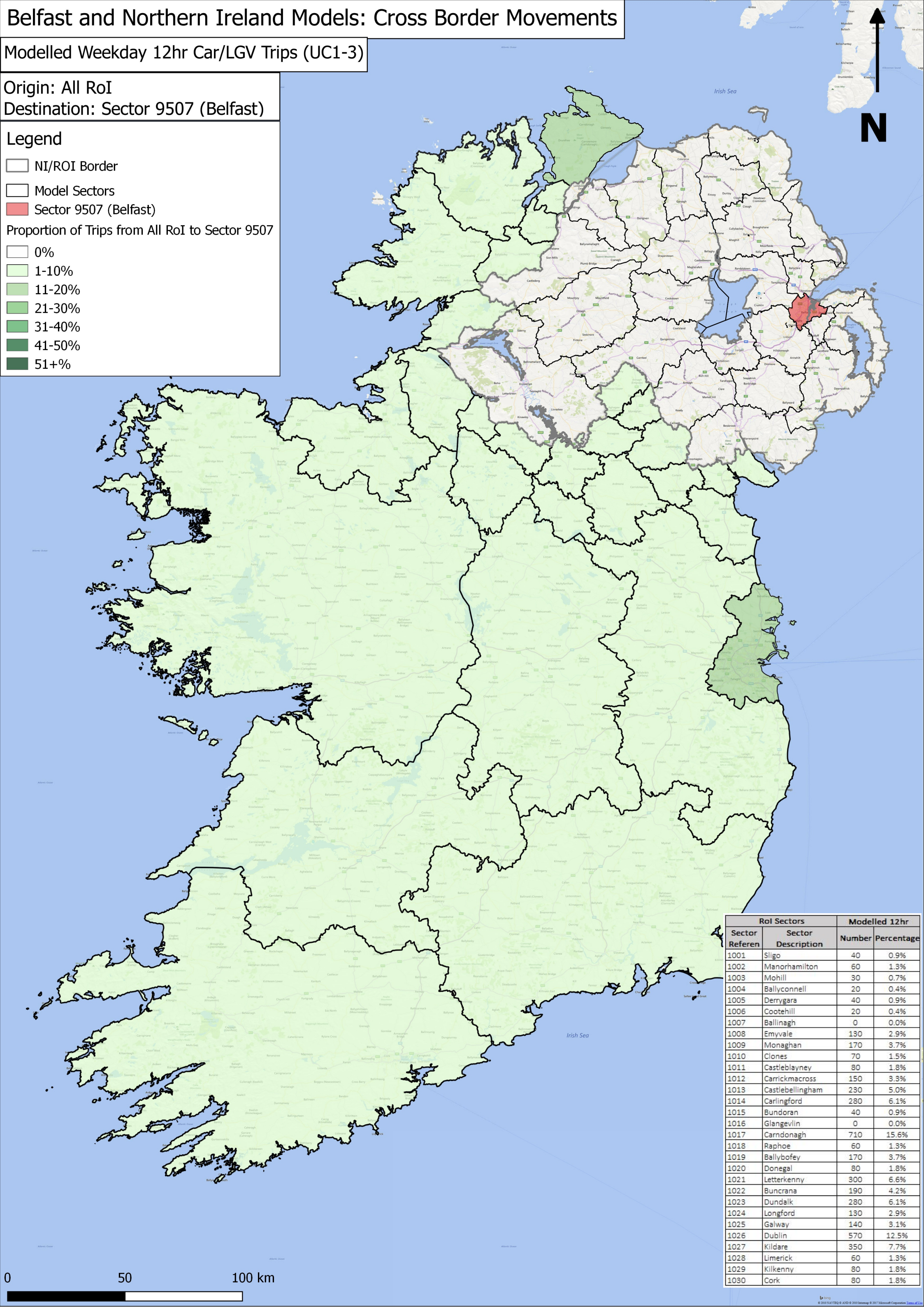
Origin: All RoI  
 Destination: Sector 9507 (Belfast)

**Legend**

-  NI/ROI Border
-  Model Sectors
-  Sector 9507 (Belfast)

**Proportion of Trips from All RoI to Sector 9507**

-  0%
-  1-10%
-  11-20%
-  21-30%
-  31-40%
-  41-50%
-  51+%



RoI Sectors		Modelled 12hr	
Sector Referen	Sector Description	Number	Percentage
1001	Sligo	40	0.9%
1002	Manorhamilton	60	1.3%
1003	Mohill	30	0.7%
1004	Ballyconnell	20	0.4%
1005	Derrygara	40	0.9%
1006	Cootehill	20	0.4%
1007	Ballinagh	0	0.0%
1008	Emyvale	130	2.9%
1009	Monaghan	170	3.7%
1010	Clones	70	1.5%
1011	Castleblayney	80	1.8%
1012	Carrickmacross	150	3.3%
1013	Castlebellingham	230	5.0%
1014	Carlingford	280	6.1%
1015	Bundoran	40	0.9%
1016	Glangevlin	0	0.0%
1017	Carndonagh	710	15.6%
1018	Raphoe	60	1.3%
1019	Ballybofey	170	3.7%
1020	Donegal	80	1.8%
1021	Letterkenny	300	6.6%
1022	Buncrana	190	4.2%
1023	Dundalk	280	6.1%
1024	Longford	130	2.9%
1025	Galway	140	3.1%
1026	Dublin	570	12.5%
1027	Kildare	350	7.7%
1028	Limerick	60	1.3%
1029	Kilkenny	80	1.8%
1030	Cork	80	1.8%

0 50 100 km



# Technical note 03

Figure C.7 – Sector 9507 (Belfast) to All Rol – HGV






# Belfast and Northern Ireland Models: Cross Border Movements








Modelled Weekday 12hr Car/LGV Trips (UC4)

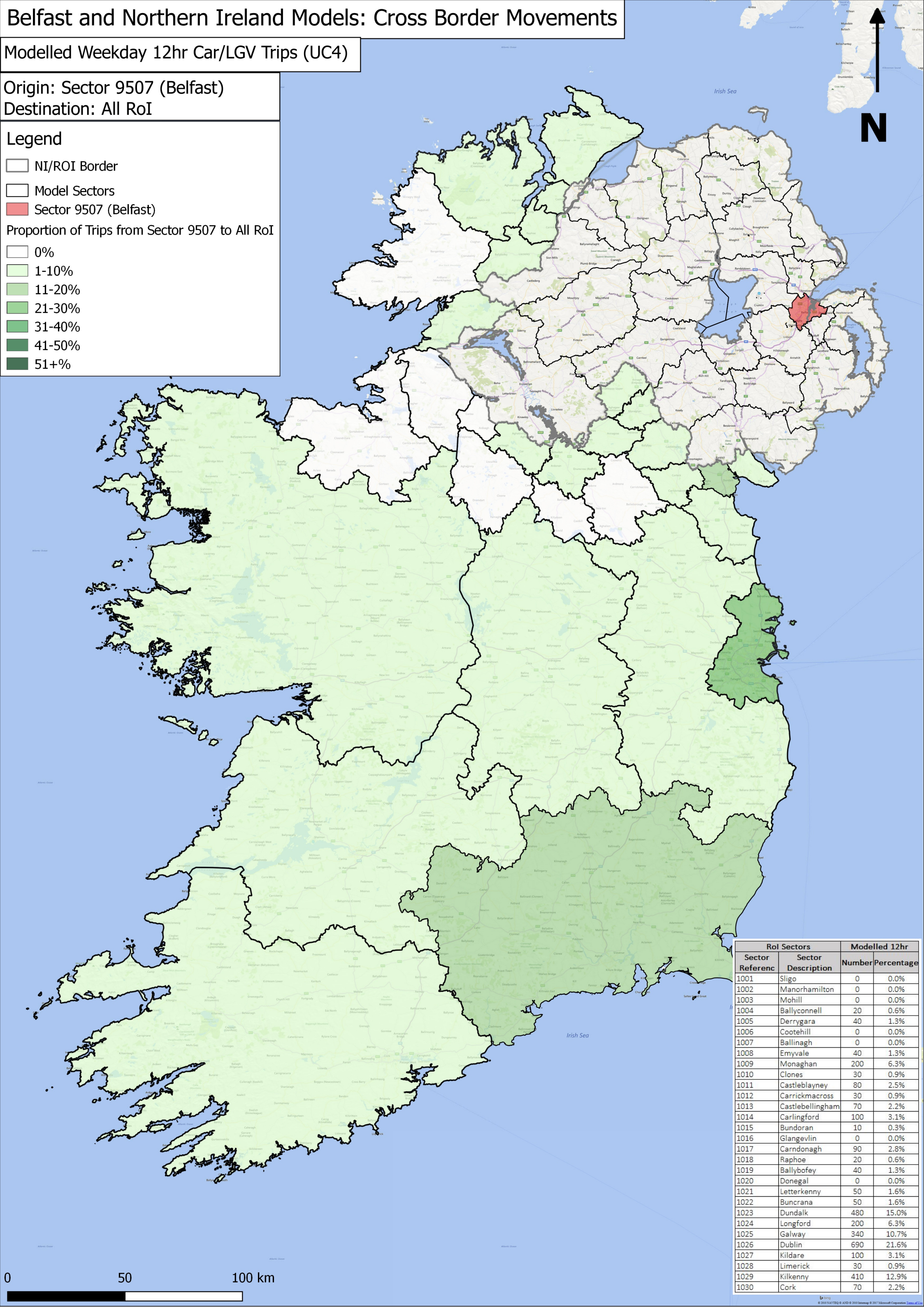
Origin: Sector 9507 (Belfast)  
Destination: All RoI

**Legend**

-  NI/ROI Border
-  Model Sectors
-  Sector 9507 (Belfast)

**Proportion of Trips from Sector 9507 to All RoI**

-  0%
-  1-10%
-  11-20%
-  21-30%
-  31-40%
-  41-50%
-  51+%



RoI Sectors		Modelled 12hr	
Sector Referenc	Sector Description	Number	Percentage
1001	Sligo	0	0.0%
1002	Manorhamilton	0	0.0%
1003	Mohill	0	0.0%
1004	Ballyconnell	20	0.6%
1005	Derrygara	40	1.3%
1006	Cootehill	0	0.0%
1007	Ballinagh	0	0.0%
1008	Emyvale	40	1.3%
1009	Monaghan	200	6.3%
1010	Clones	30	0.9%
1011	Castleblayney	80	2.5%
1012	Carrickmacross	30	0.9%
1013	Castlebellingham	70	2.2%
1014	Carlingford	100	3.1%
1015	Bundoran	10	0.3%
1016	Glangevlin	0	0.0%
1017	Carndonagh	90	2.8%
1018	Raphoe	20	0.6%
1019	Ballybofey	40	1.3%
1020	Donegal	0	0.0%
1021	Letterkenny	50	1.6%
1022	Buncrana	50	1.6%
1023	Dundalk	480	15.0%
1024	Longford	200	6.3%
1025	Galway	340	10.7%
1026	Dublin	690	21.6%
1027	Kildare	100	3.1%
1028	Limerick	30	0.9%
1029	Kilkenny	410	12.9%
1030	Cork	70	2.2%





# Technical note 03

Figure C.8 – All RoI to Sector 9507 (Belfast) – HGV






# Belfast and Northern Ireland Models: Cross Border Movements








Modelled Weekday 12hr Car/LGV Trips (UC4)

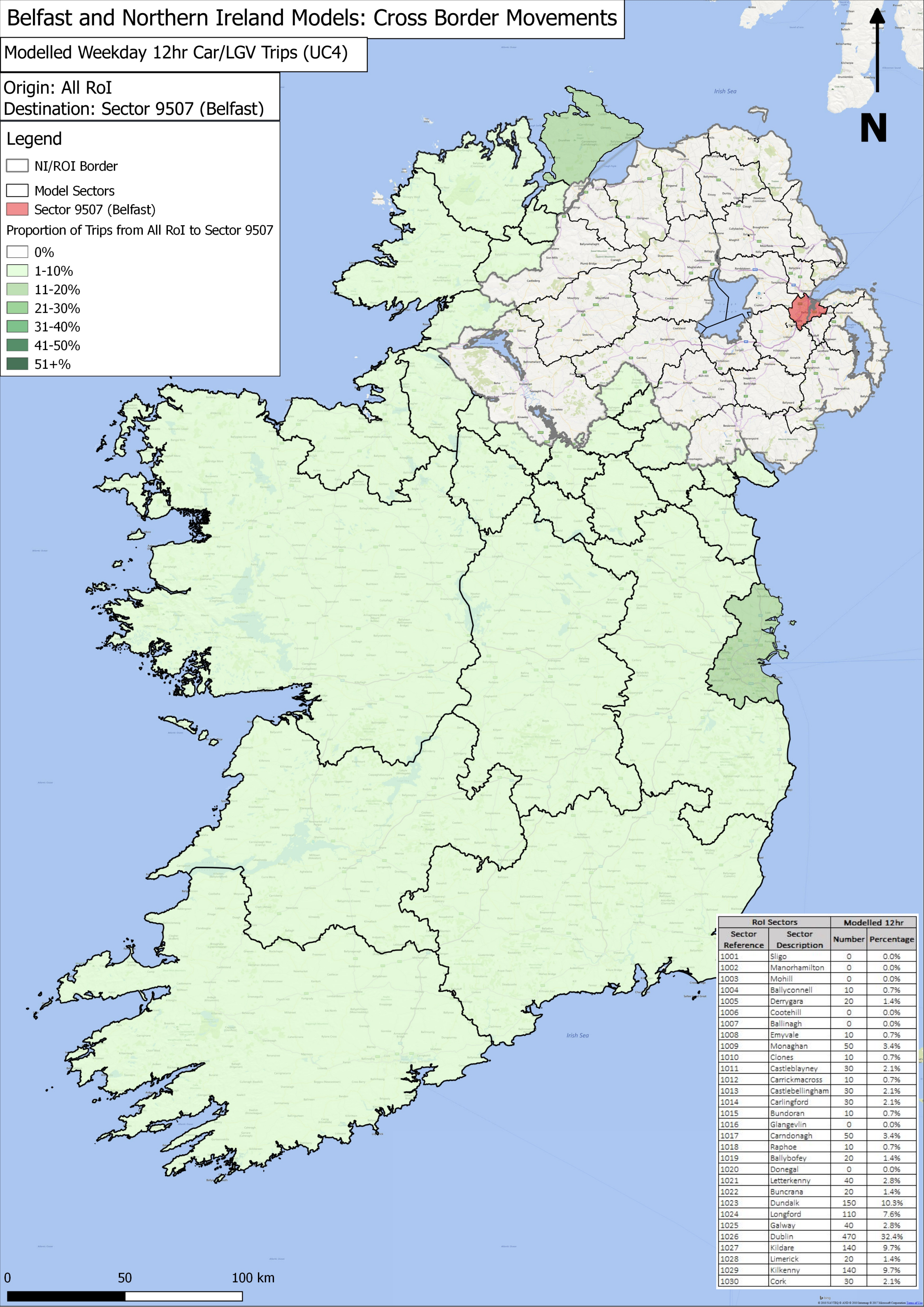
Origin: All RoI  
 Destination: Sector 9507 (Belfast)

**Legend**

-  NI/ROI Border
-  Model Sectors
-  Sector 9507 (Belfast)

**Proportion of Trips from All RoI to Sector 9507**

-  0%
-  1-10%
-  11-20%
-  21-30%
-  31-40%
-  41-50%
-  51+%



RoI Sectors		Modelled 12hr	
Sector Reference	Sector Description	Number	Percentage
1001	Sligo	0	0.0%
1002	Manorhamilton	0	0.0%
1003	Mohill	0	0.0%
1004	Ballyconnell	10	0.7%
1005	Derrygara	20	1.4%
1006	Cootehill	0	0.0%
1007	Ballinagh	0	0.0%
1008	Emyvale	10	0.7%
1009	Monaghan	50	3.4%
1010	Clones	10	0.7%
1011	Castleblayney	30	2.1%
1012	Carrickmacross	10	0.7%
1013	Castlebellingham	30	2.1%
1014	Carlingford	30	2.1%
1015	Bundoran	10	0.7%
1016	Glangevlin	0	0.0%
1017	Carndonagh	50	3.4%
1018	Raphoe	10	0.7%
1019	Ballybofey	20	1.4%
1020	Donegal	0	0.0%
1021	Letterkenny	40	2.8%
1022	Buncrana	20	1.4%
1023	Dundalk	150	10.3%
1024	Longford	110	7.6%
1025	Galway	40	2.8%
1026	Dublin	470	32.4%
1027	Kildare	140	9.7%
1028	Limerick	20	1.4%
1029	Kilkenny	140	9.7%
1030	Cork	30	2.1%

0 50 100 km



# Technical note 03

Figure C.9 – Sector 1022 (Buncrana) to All N.I. – Car/LGV






# Belfast and Northern Ireland Models: Cross Border Movements








Modelled Weekday 12hr Car/LGV Trips (UC1-3)

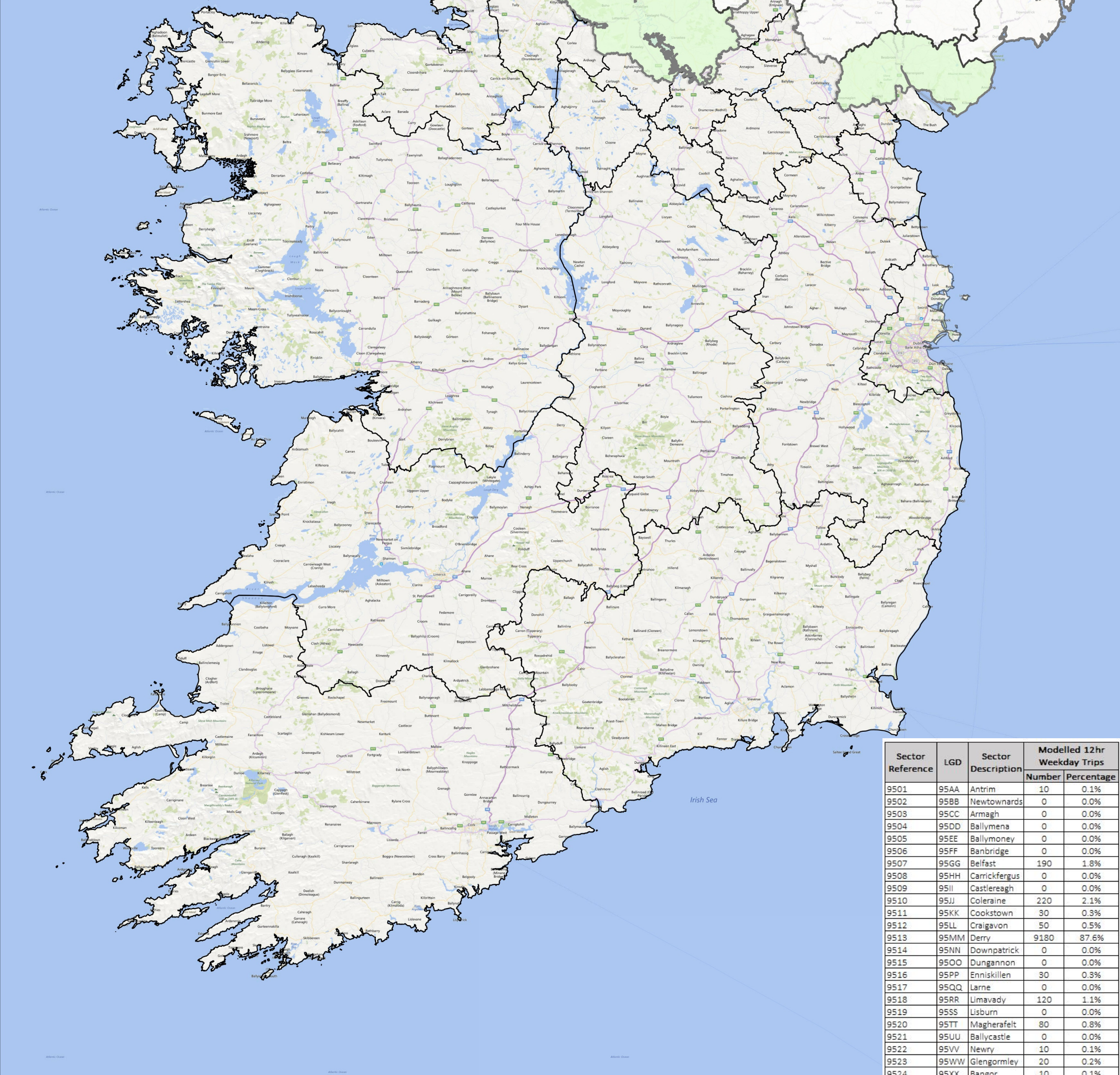
Origin: Sector 1022 (Buncrana)  
Destination: All NI

**Legend**

-  NI/ROI Border
-  Model Sectors
-  Sector 1022 (Buncrana)

**Proportion of Trips from Sector 1022 to All NI**

-  0%
-  1-10%
-  11-20%
-  21-30%
-  31-40%
-  41-50%
-  51+%



Sector Reference	LGD	Sector Description	Modelled 12hr Weekday Trips	
			Number	Percentage
9501	95AA	Antrim	10	0.1%
9502	95BB	Newtownards	0	0.0%
9503	95CC	Armagh	0	0.0%
9504	95DD	Ballymena	0	0.0%
9505	95EE	Ballymoney	0	0.0%
9506	95FF	Banbridge	0	0.0%
9507	95GG	Belfast	190	1.8%
9508	95HH	Carrickfergus	0	0.0%
9509	95II	Castlereagh	0	0.0%
9510	95JJ	Coleraine	220	2.1%
9511	95KK	Cookstown	30	0.3%
9512	95LL	Craigavon	50	0.5%
9513	95MM	Derry	9180	87.6%
9514	95NN	Downpatrick	0	0.0%
9515	95OO	Dungannon	0	0.0%
9516	95PP	Enniskillen	30	0.3%
9517	95QQ	Larne	0	0.0%
9518	95RR	Limavady	120	1.1%
9519	95SS	Lisburn	0	0.0%
9520	95TT	Magherafelt	80	0.8%
9521	95UU	Ballycastle	0	0.0%
9522	95VV	Newry	10	0.1%
9523	95WW	Glengormley	20	0.2%
9524	95XX	Bangor	10	0.1%
9525	95YY	Omagh	190	1.8%
9526	95ZZ	Strabane	340	3.2%
<b>Total</b>			<b>10480</b>	<b>100%</b>





# Technical note 03

Figure C.10 – All N.I. to Sector 1022 (Buncrana) – Car/LGV



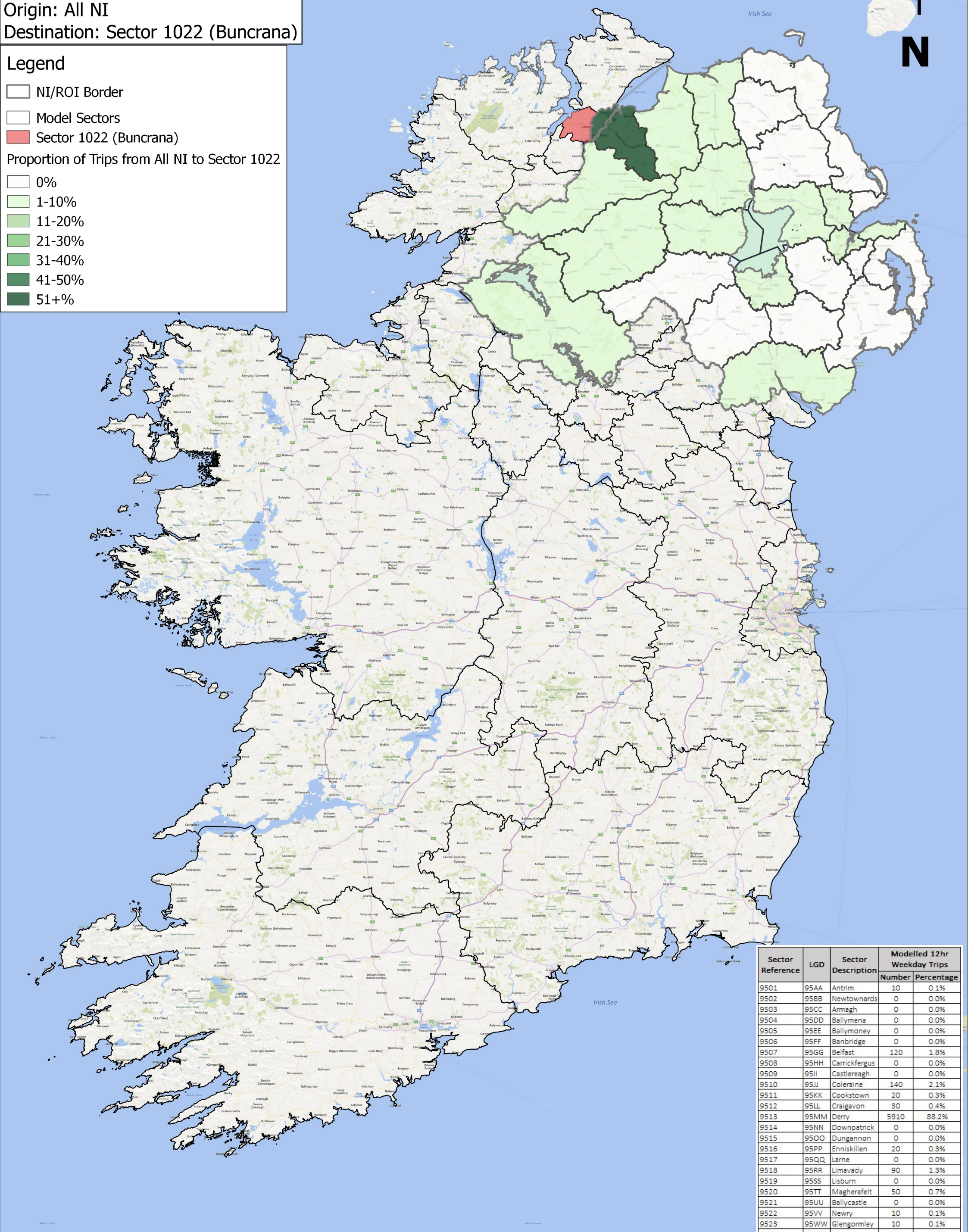
# Belfast and Northern Ireland Models: Cross Border Movements

Modelled Weekday 12hr Car/LGV Trips (UC1-3)

Origin: All NI  
Destination: Sector 1022 (Buncrana)

## Legend

- NI/ROI Border
  - Model Sectors
  - Sector 1022 (Buncrana)
- Proportion of Trips from All NI to Sector 1022
- 0%
  - 1-10%
  - 11-20%
  - 21-30%
  - 31-40%
  - 41-50%
  - 51+%



Sector Reference	LGD	Sector Description	Modelled 12hr Weekday Trips	
			Number	Percentage
9501	95AA	Antrim	10	0.1%
9502	95BB	Newtownards	0	0.0%
9503	95CC	Armagh	0	0.0%
9504	95DD	Ballymena	0	0.0%
9505	95EE	Ballymoney	0	0.0%
9506	95FF	Banbridge	0	0.0%
9507	95GG	Belfast	120	1.8%
9508	95HH	Carrickfergus	0	0.0%
9509	95II	Castlereagh	0	0.0%
9510	95JJ	Coleraine	140	2.1%
9511	95KK	Cookstown	20	0.3%
9512	95LL	Craigavon	30	0.4%
9513	95MM	Derry	5910	88.2%
9514	95NN	Downpatrick	0	0.0%
9515	95OO	Dungannon	0	0.0%
9516	95PP	Enniskillen	20	0.3%
9517	95QQ	Larne	0	0.0%
9518	95RR	Limavady	90	1.3%
9519	95SS	Lisburn	0	0.0%
9520	95TT	Magherafelt	50	0.7%
9521	95UU	Ballycastle	0	0.0%
9522	95VV	Newry	10	0.1%
9523	95WW	Glengormley	10	0.1%
9524	95XX	Bangor	10	0.1%
9525	95YY	Omagh	120	1.8%
9526	95ZZ	Strabane	160	2.4%
<b>Total</b>			<b>6700</b>	<b>100%</b>

0 50 100 km