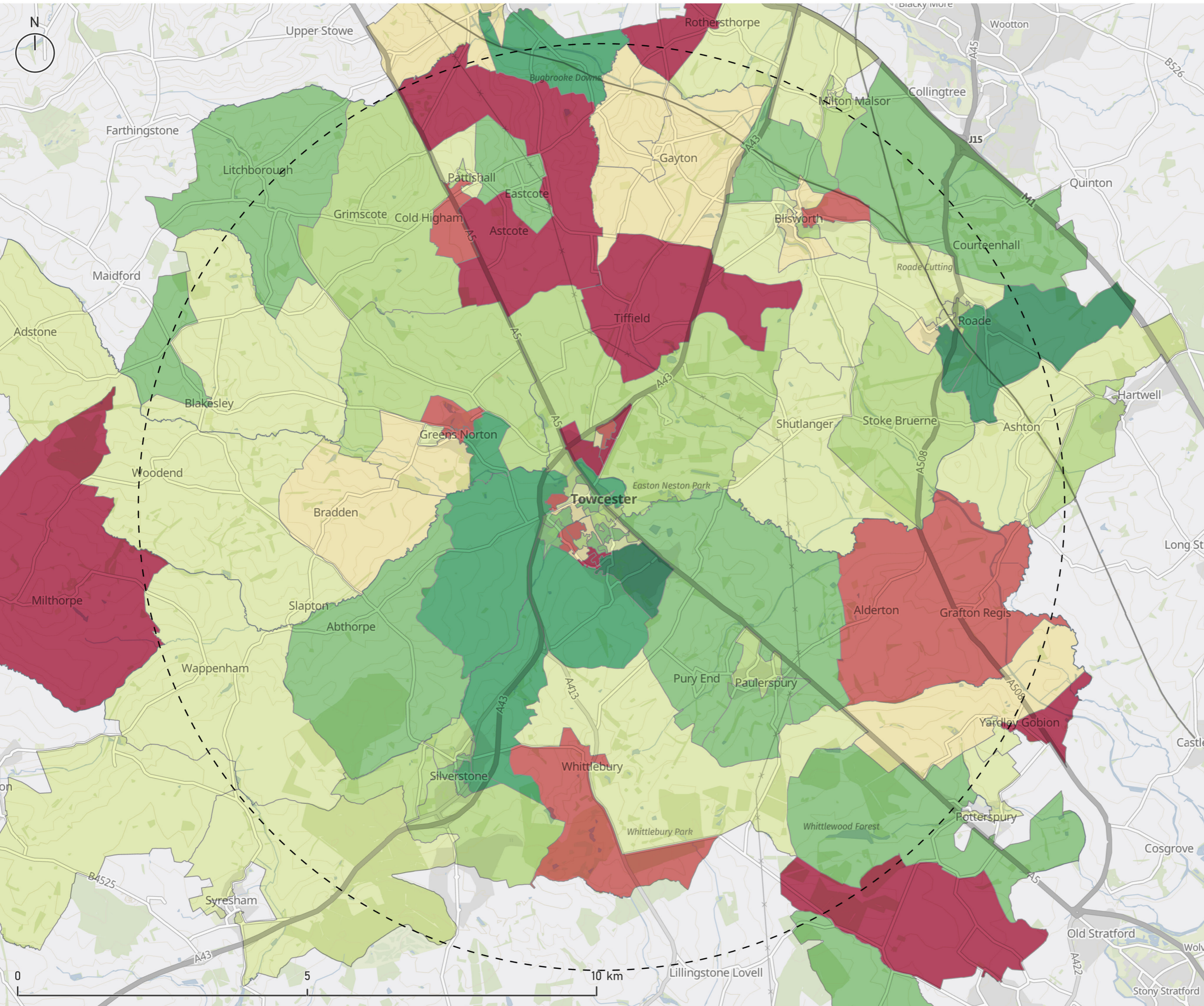
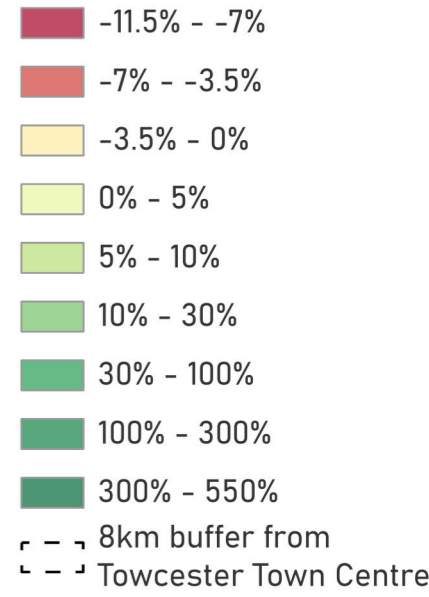


2011 Census OA in Towcester

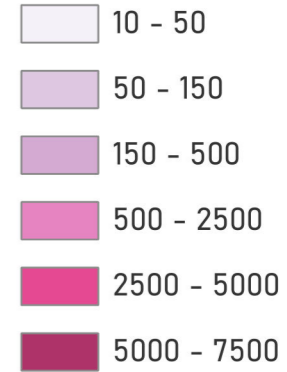
Percentage Change in Population from 2011 to 2021



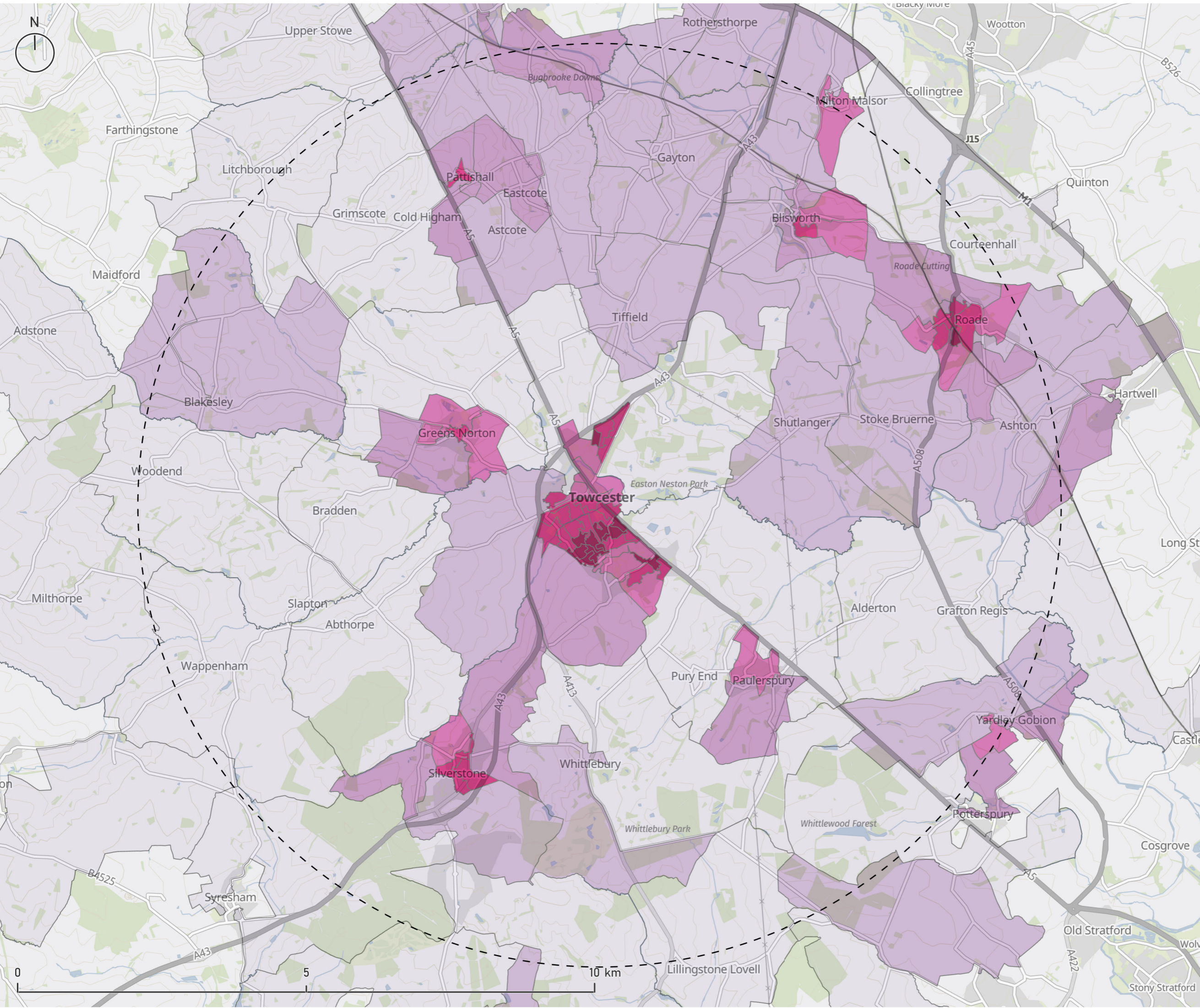
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2021 Census OA in Towcester

Person per sq km

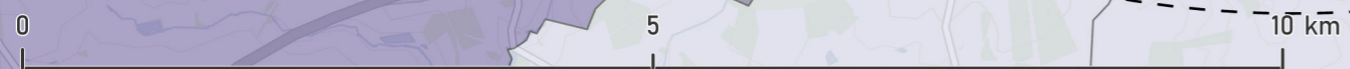
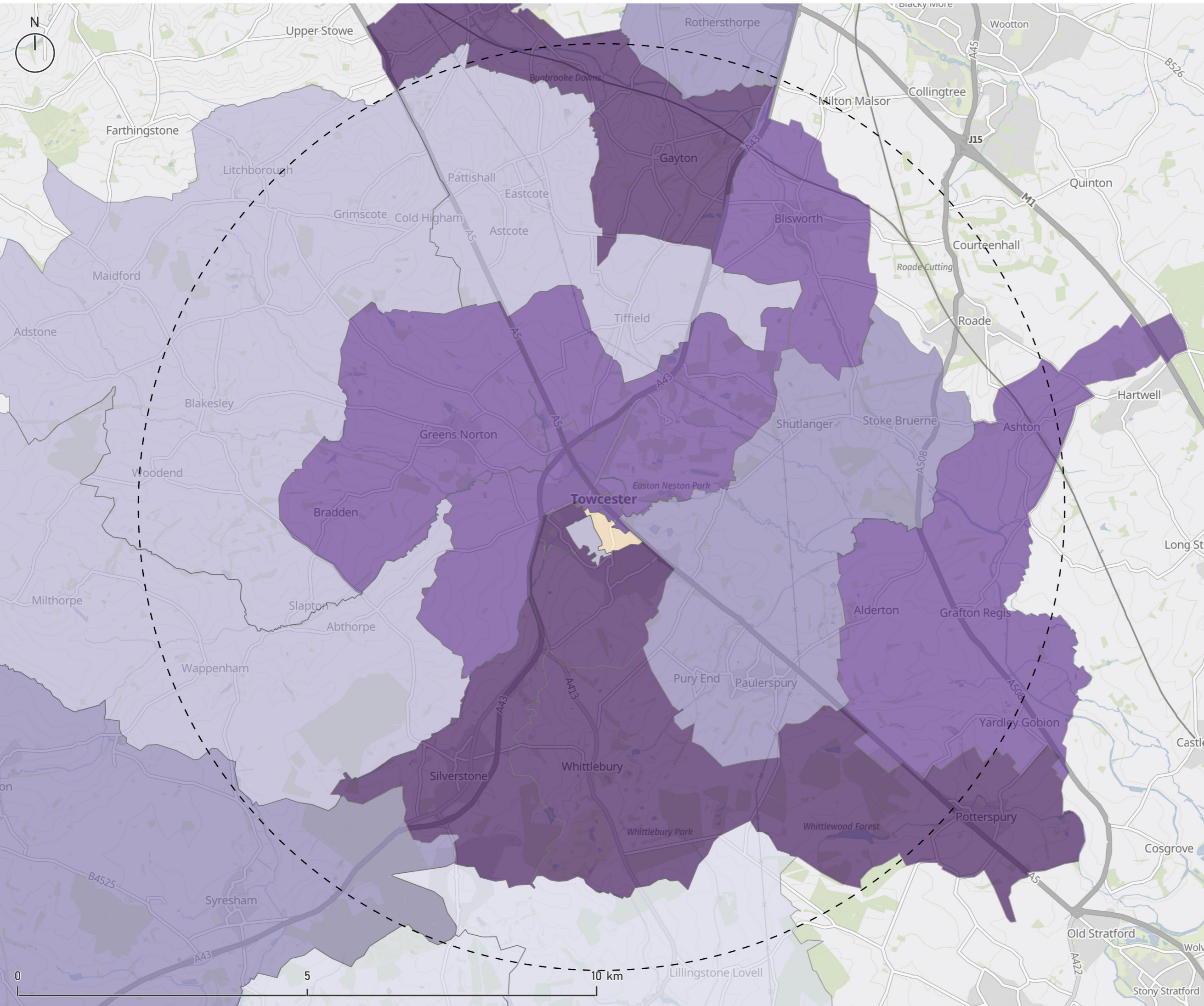
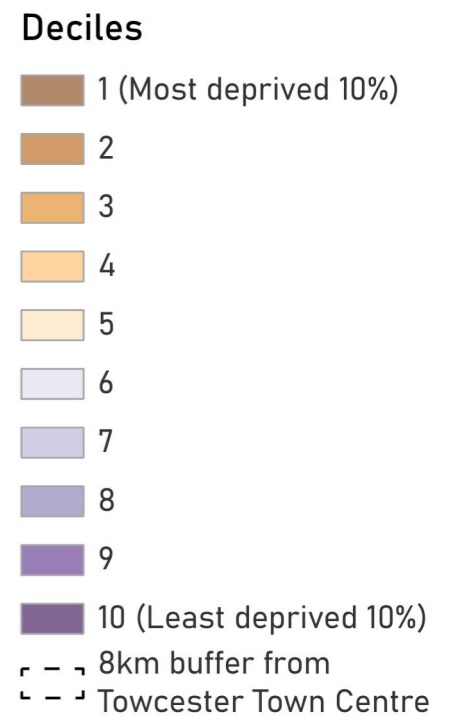


--- 8km buffer from Towcester Town Centre



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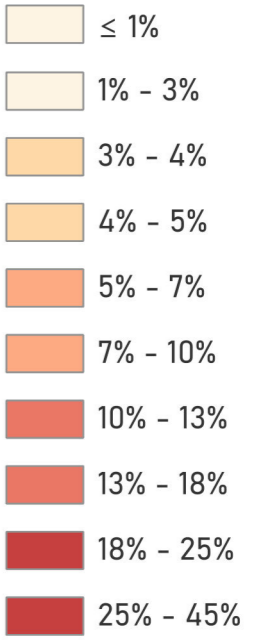
Indices of Multiple Deprivation 2021



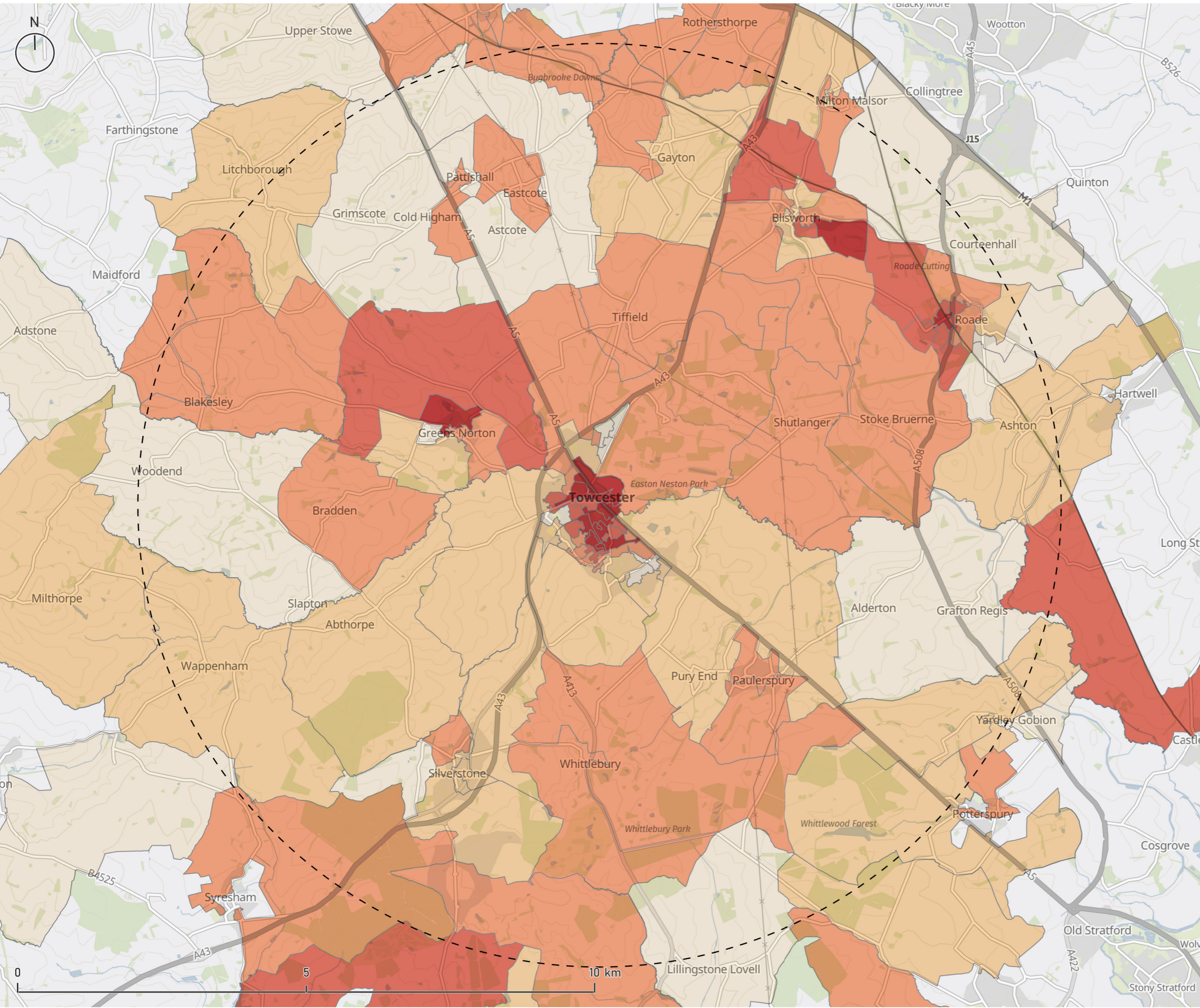
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2021 Census OA in Towcester

Percentage of No Cars Available






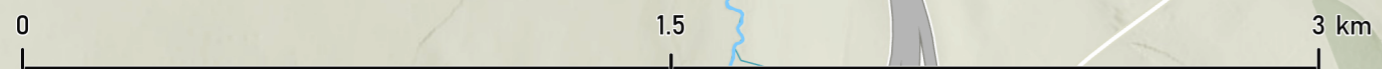
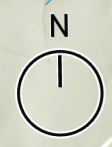
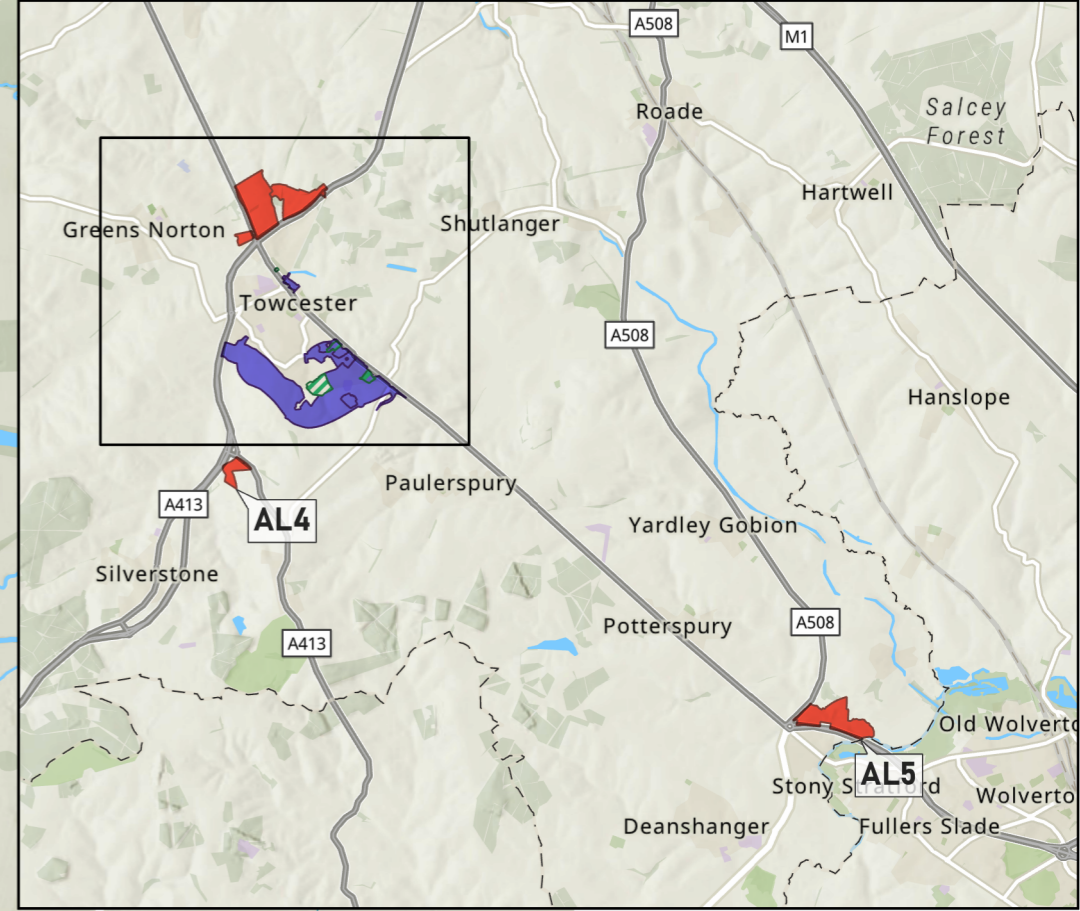
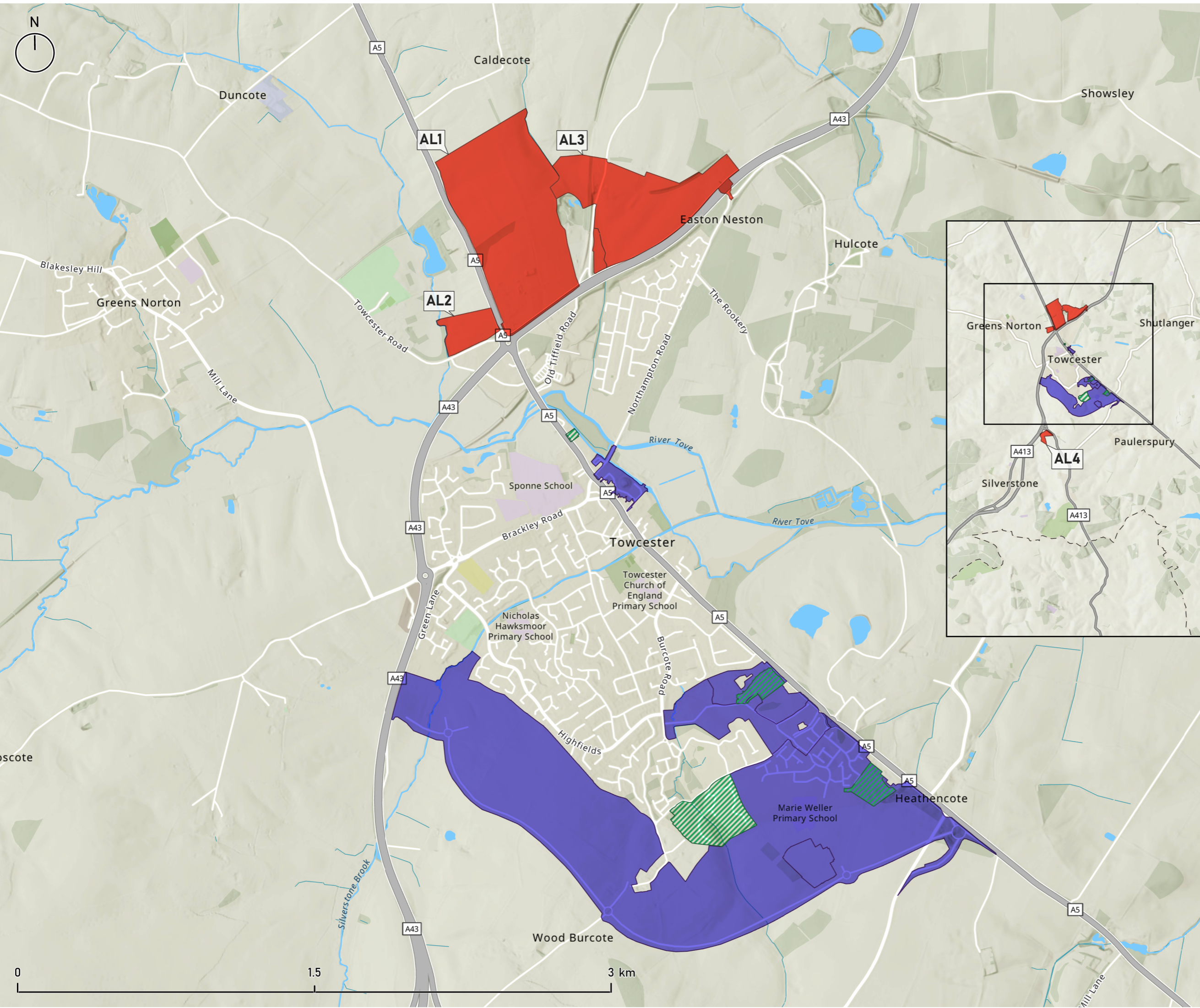
--- 8km buffer from Towcester Town Centre



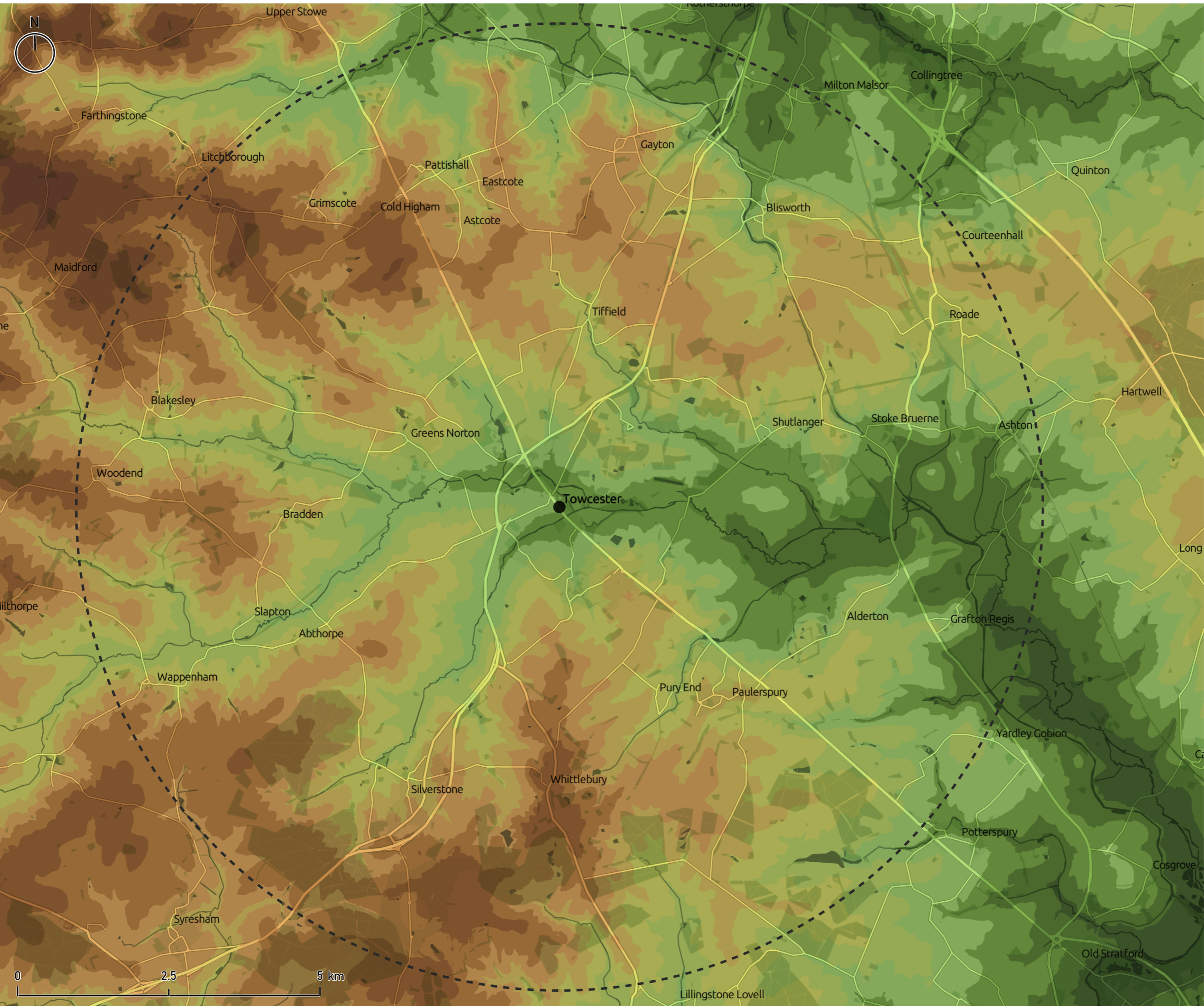
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Future developments in Towcester

- Types of development**
-  Residential (>5 dwellings)
 -  Mixed
 -  Employment (allocations/developments)



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Terrain: Elevation (m)

- 53 - 60
- 61 - 70
- 71 - 80
- 81 - 90
- 91 - 100
- 101 - 110
- 111 - 120
- 121 - 130
- 131 - 140
- 141 - 150
- 151 - 160
- 161 - 170
- 171 - 180

--- 8km distance from
--- Towcester town centre

● Towcester Town Centre

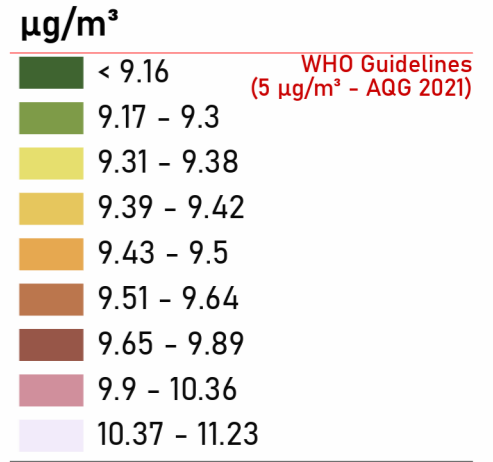


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PJA Project 06840 - Towcester LCWIP
 8 Brewer Street
 Hilton Square
 Manchester M1 2EU

FIGURE NO.	B1	REVISION	-	SCALE	A3@1:57,500
DRAWN	ML	REVIEWED	EJ	DATE	15/05/2023

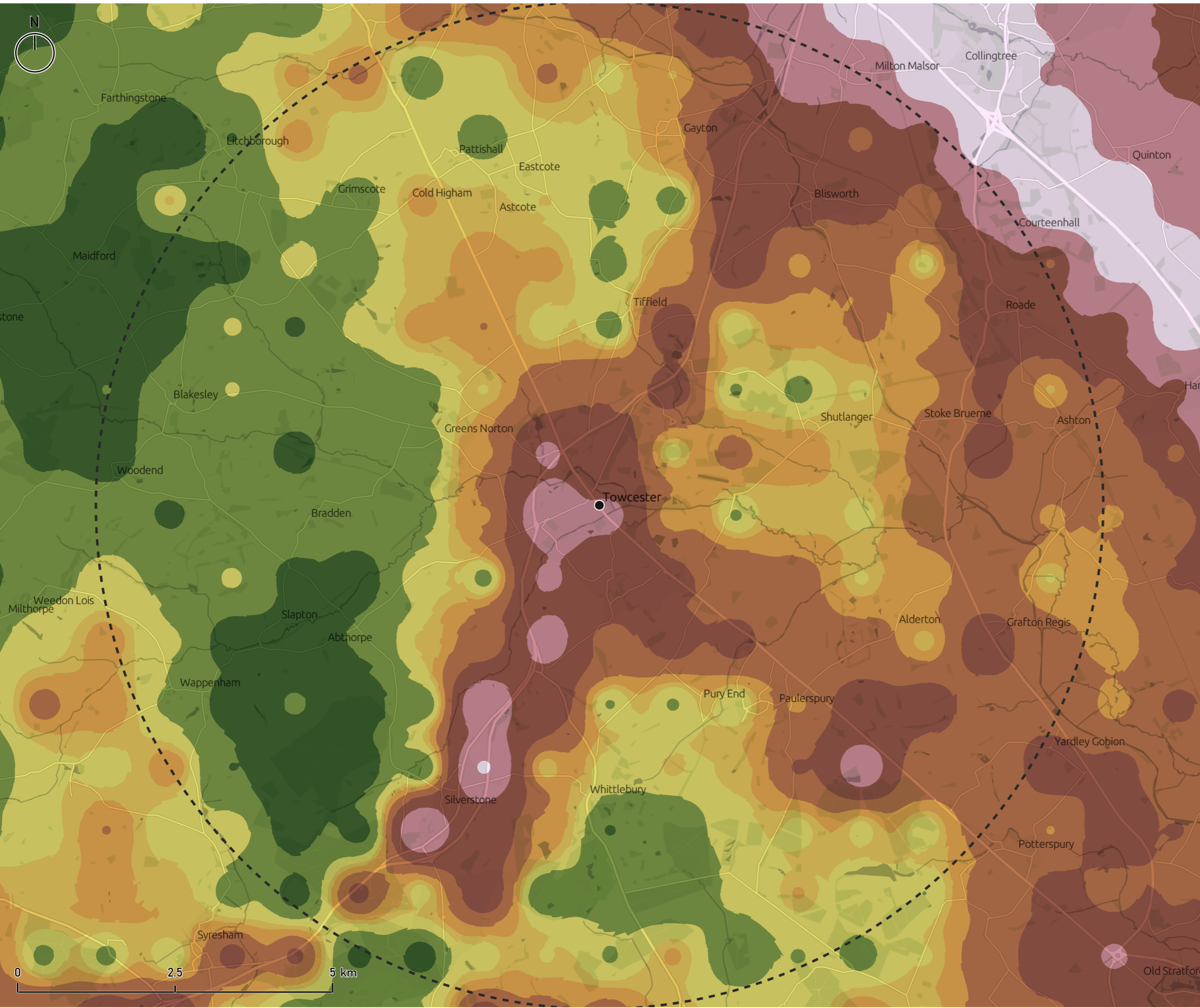
Annual Mean PM2.5 Concentration (2019)



UK Legal Limit
(20 µg/m³)

--- 8km distance from
--- Towcester town centre

● Towcester Town Centre



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● Towcester Town Centre

Severance

— Railway Tracks

— Watercourse

■ Surface Water

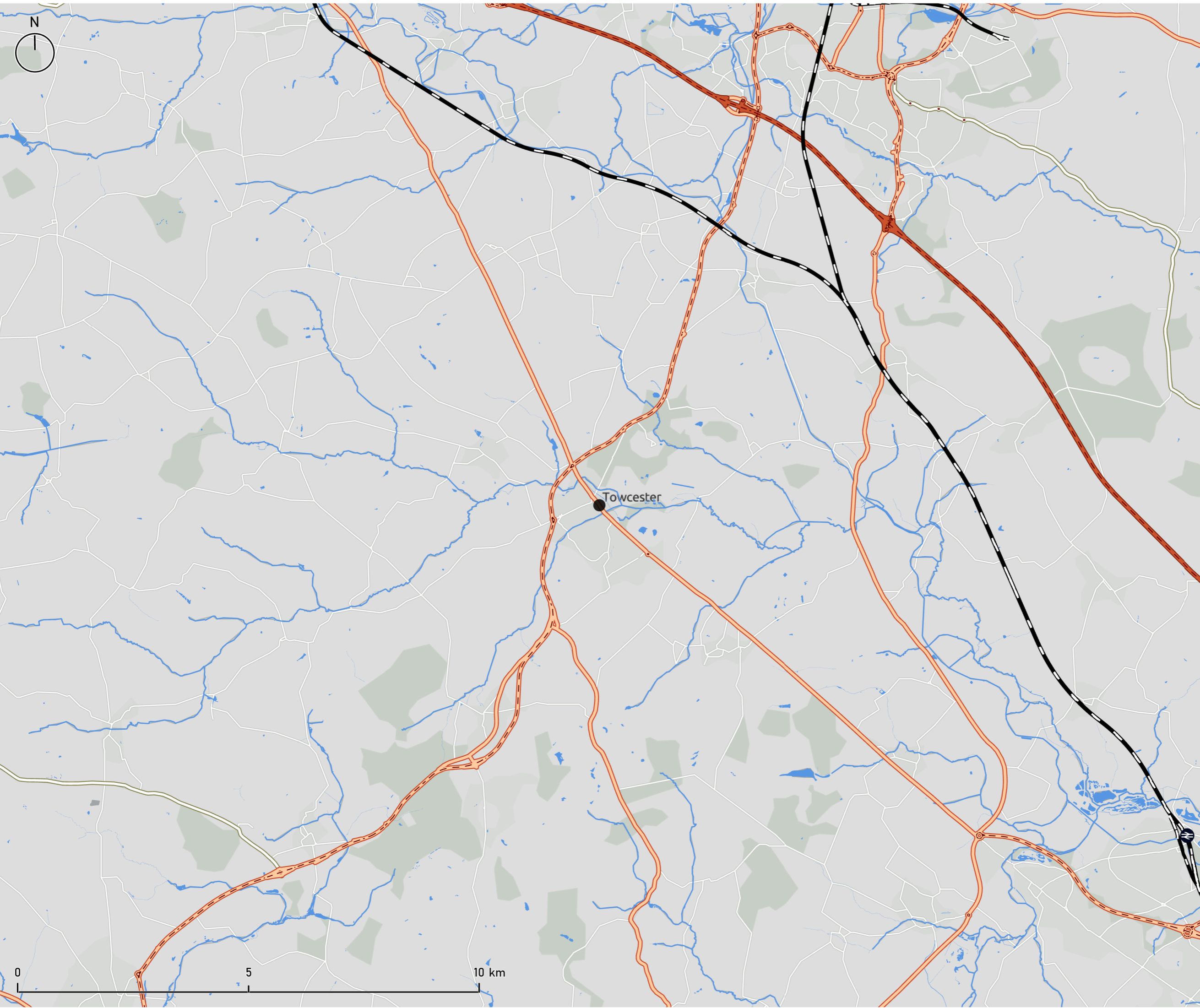
⊙ National Rail Stations

- - Dual carriageway sections

— Motorway

— A Road

— B Road



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Manchester M1 2EU

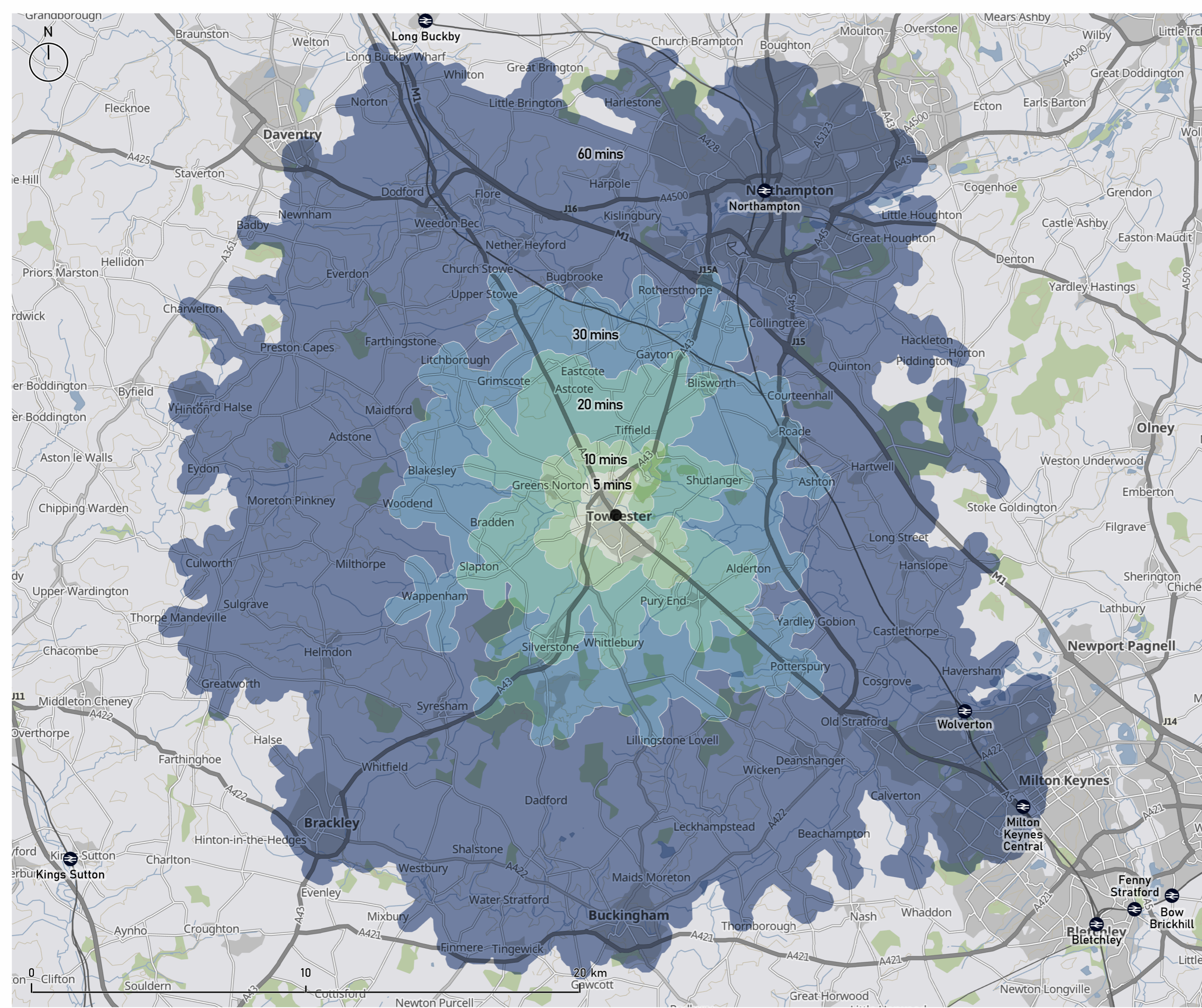
FIGURE NO.	B3	REVISION	-	SCALE	A3@1:75,000
DRAWN	ML	REVIEWED	EJ	DATE	15/05/2023

Cycling Isochrone from Towcester town centre

Area accessible by cycling within set time period

- 5 minutes (1.6 km)
- 10 minutes (3.2 km)
- 20 minutes (6.4 km)
- 30 minutes (9.6 km)
- 60 minutes (19.3 km)

- Towcester Town Centre
- National Rail Stations



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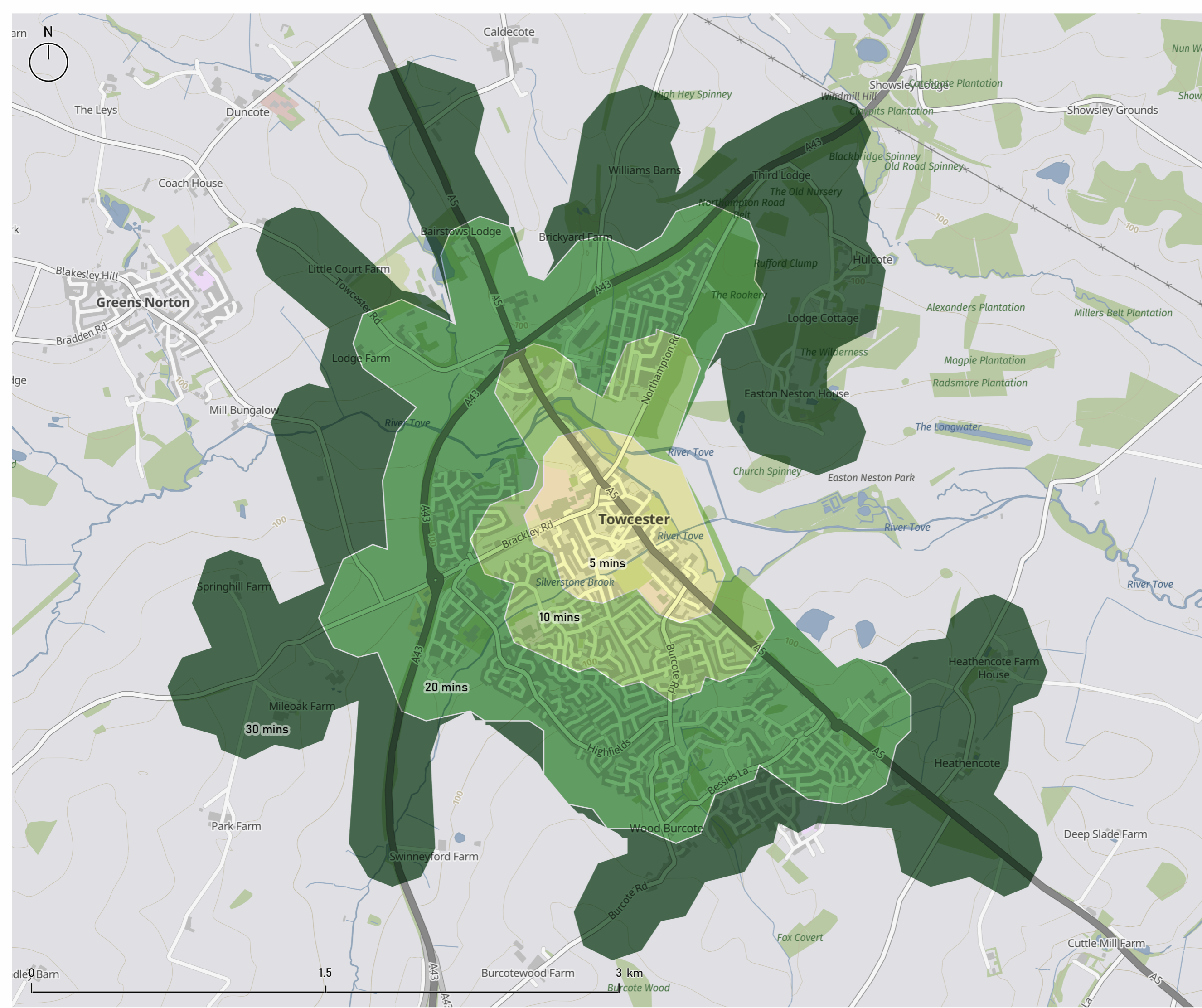
PJA Project 06840 - Towcester LCWIP
 8 Brewer Street
 Hilton Square
 Manchester M1 2EU

FIGURE NO. C3 REVISION - SCALE A3@1:125,000
 DRAWN ML REVIEWED EJ DATE 15/05/2023

Walking Isochrone from Towcester town centre

Area accessible by walking within set time period

- 5 mins (0.44km)
- 10 mins (0.89km)
- 20 mins (1.77km)
- 30 mins (2.66km)



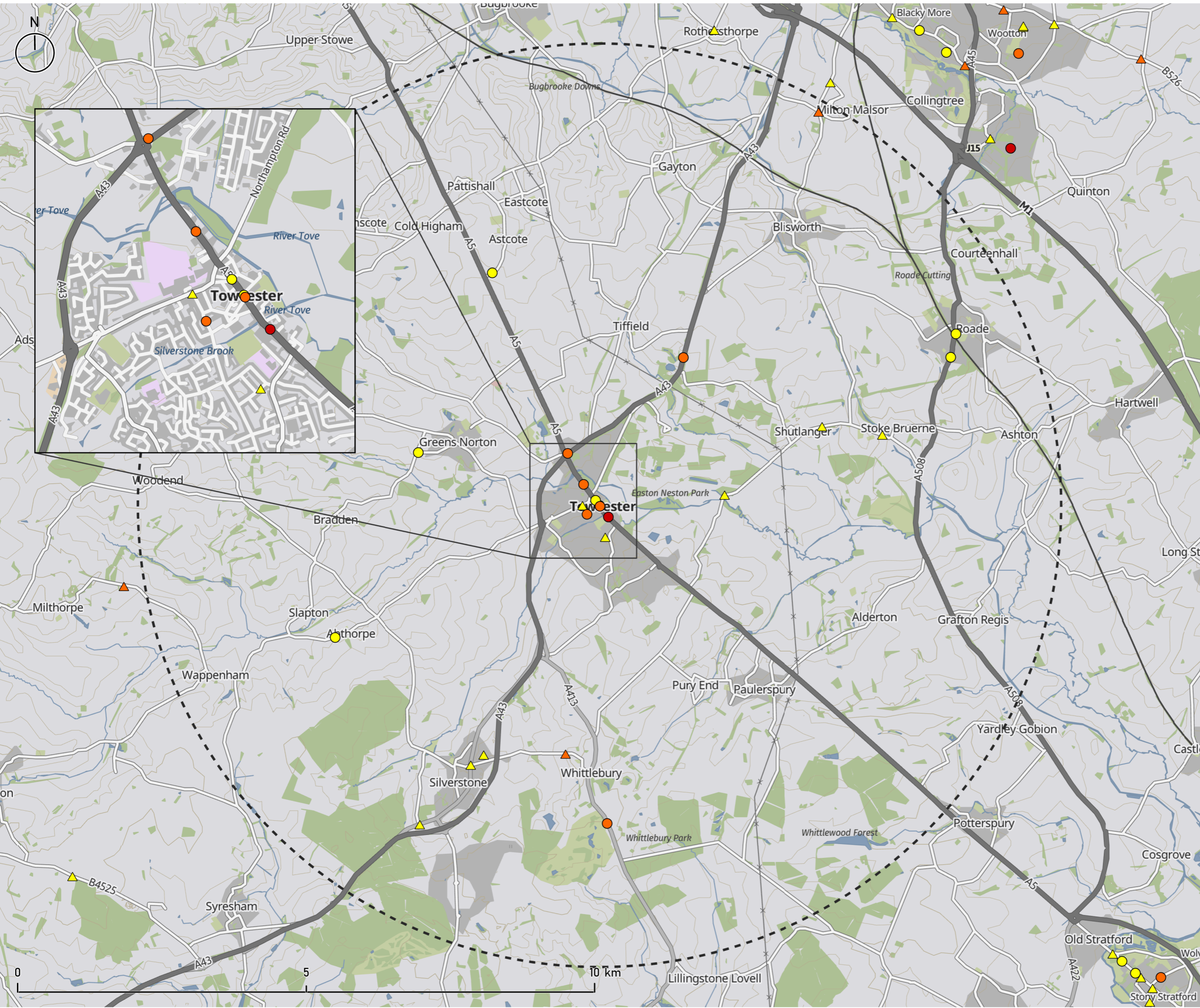
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Collision data - DfT & WNC 2017-22 data

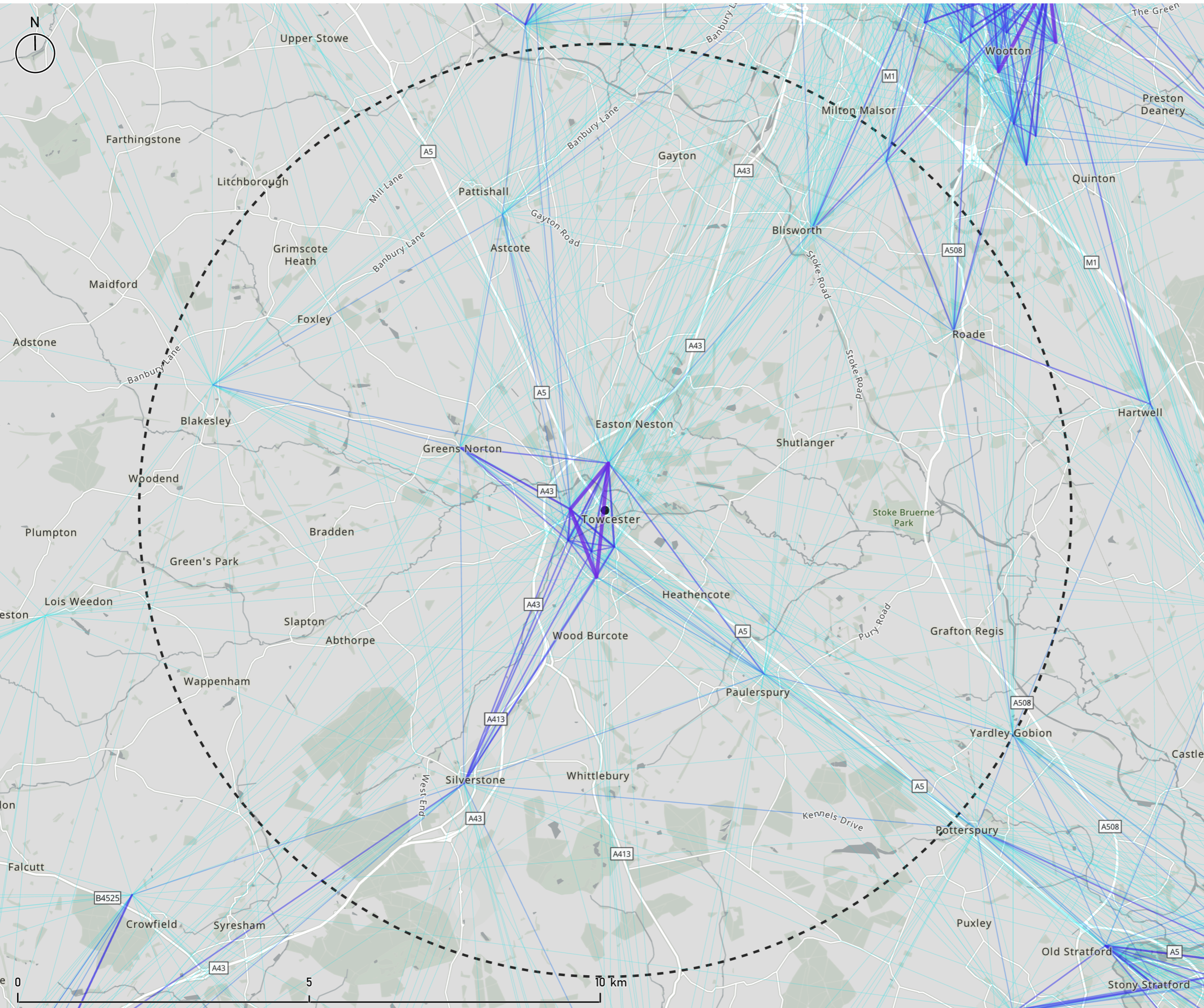
Casualty type & severity

- Pedestrian - Fatal
- Pedestrian - Serious
- Pedestrian - Slight
- ▲ Cyclist - Serious
- ▲ Cyclist - Slight

--- 8km distance from
 --- Towcester town centre



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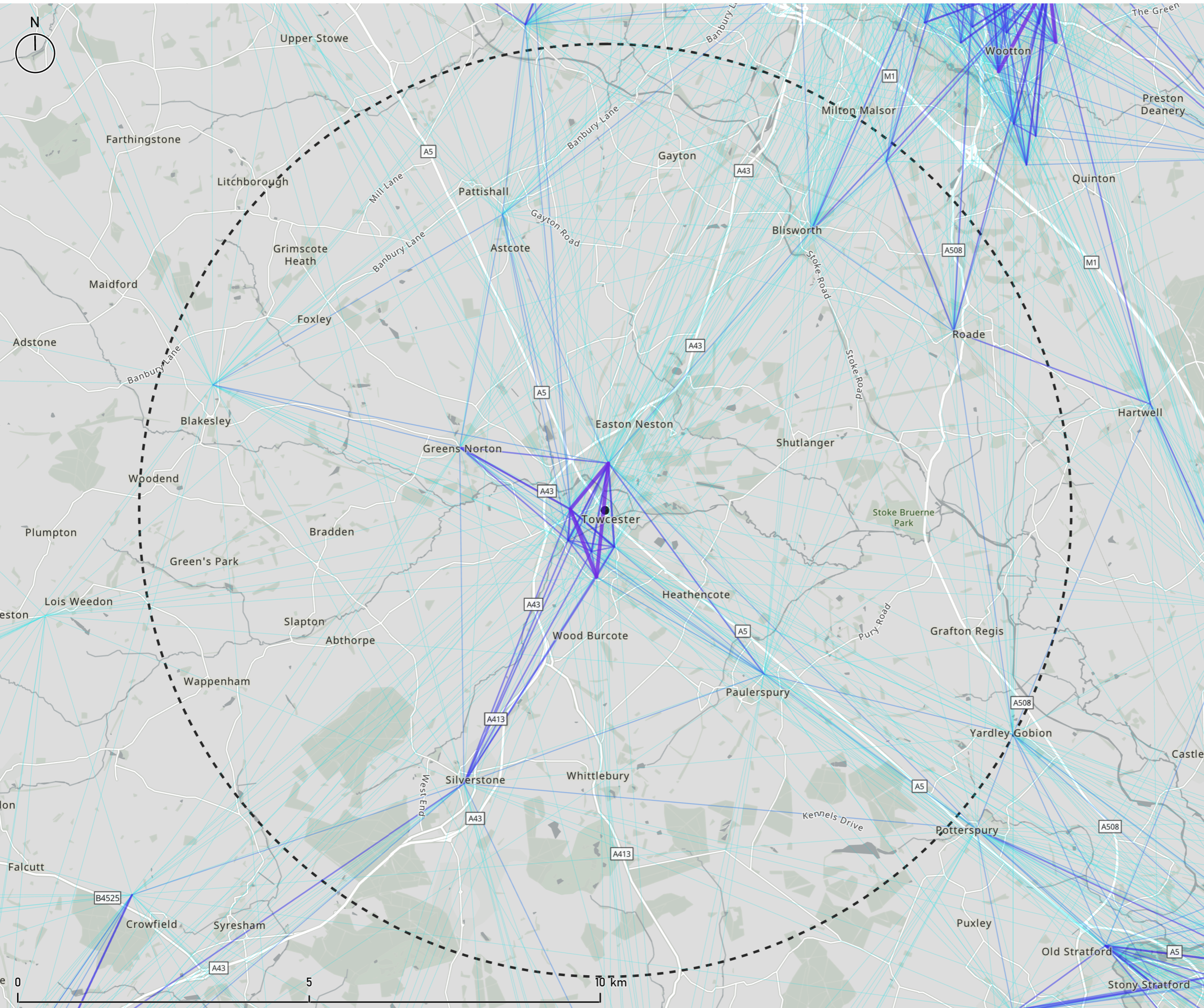


**Propensity to Cycle -
Commuting - Ebike
Scenario straight line
network(2021 Census
population adjusted)**

- No. of Cyclist**
- ≤ 5
 - ≤ 10
 - ≤ 25
 - ≤ 50
 - ≤ 100
- 8km distance from
Towcester town centre
 - Towcester Town Centre



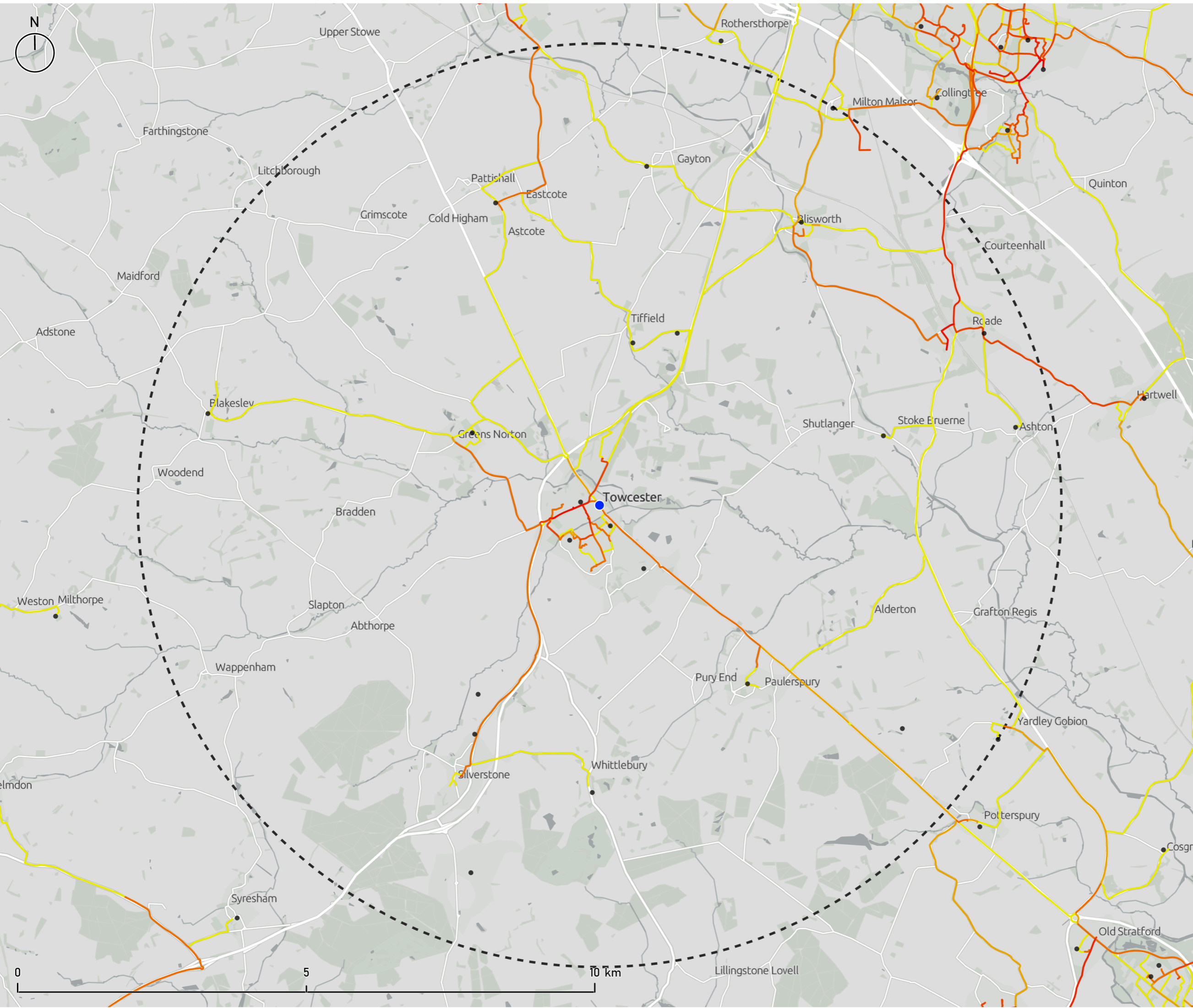
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Contains data from OS Zoomstack
The Propensity to Cycle Tool (Commuting) - Lovelace et al. (2017)



**Propensity to Cycle -
Commuting - Ebike
Scenario straight line
network(2021 Census
population adjusted)**

- No. of Cyclist**
- ≤ 5
 - ≤ 10
 - ≤ 25
 - ≤ 50
 - ≤ 100
- 8km distance from
Towcester town centre
- Towcester Town Centre

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The Propensity to Cycle Tool (Commuting) - Lovelace et al. (2017)



Propensity to Cycle - School Travel - Go-Dutch Scenario 2011

- No. of Cyclist**
- ≤ 25
 - ≤ 50
 - ≤ 100
 - ≤ 200
 - ≤ 300
 - ≤ 500
 - ≤ 750
 - ≤ 1250
- School locations
 - Towcester Town Centre
 - - - 8km distance from Towcester town centre



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 The Propensity to Cycle Tool (School travel) - Goodman et al. (2019)



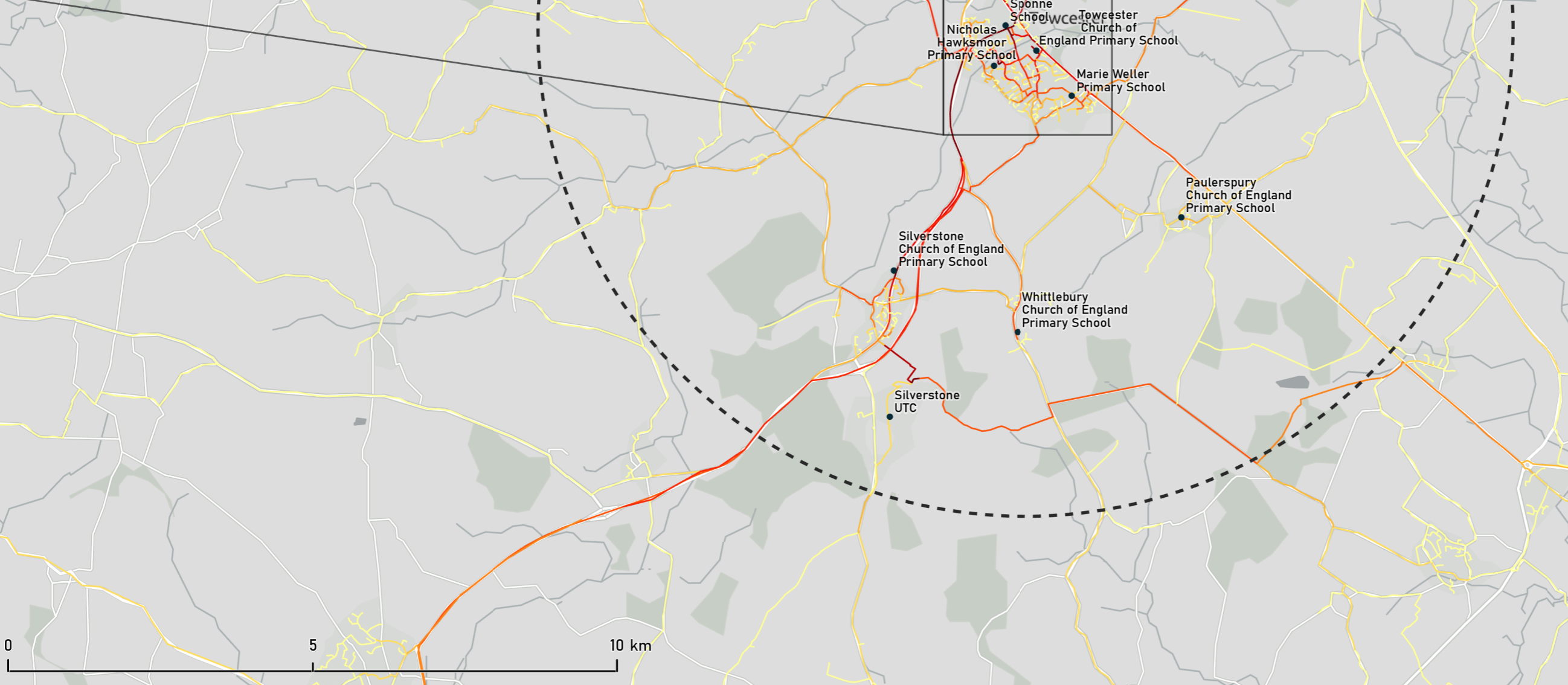
Pupil postcode data - shortest path heatmap travelling to school

Number of pupil

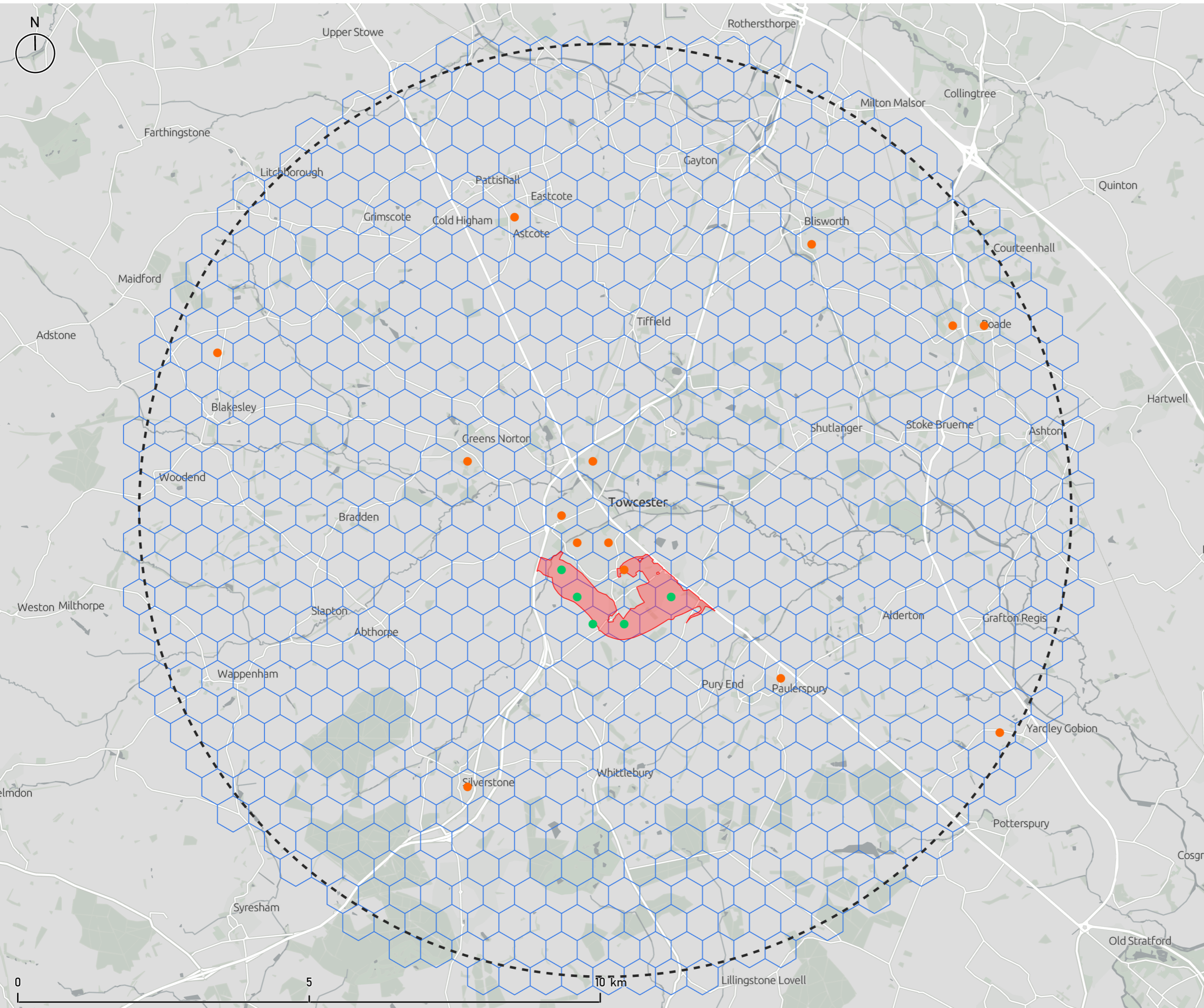
- 1 - 10
- 11 - 25
- 26 - 50
- 51 - 75
- 76 - 125
- 126 - 200
- 201 - 300
- 301 - 400
- 401 - 800
- 801 - 1450

- 8km distance from
- Towcester town centre

- Schools with Pupil postcode data



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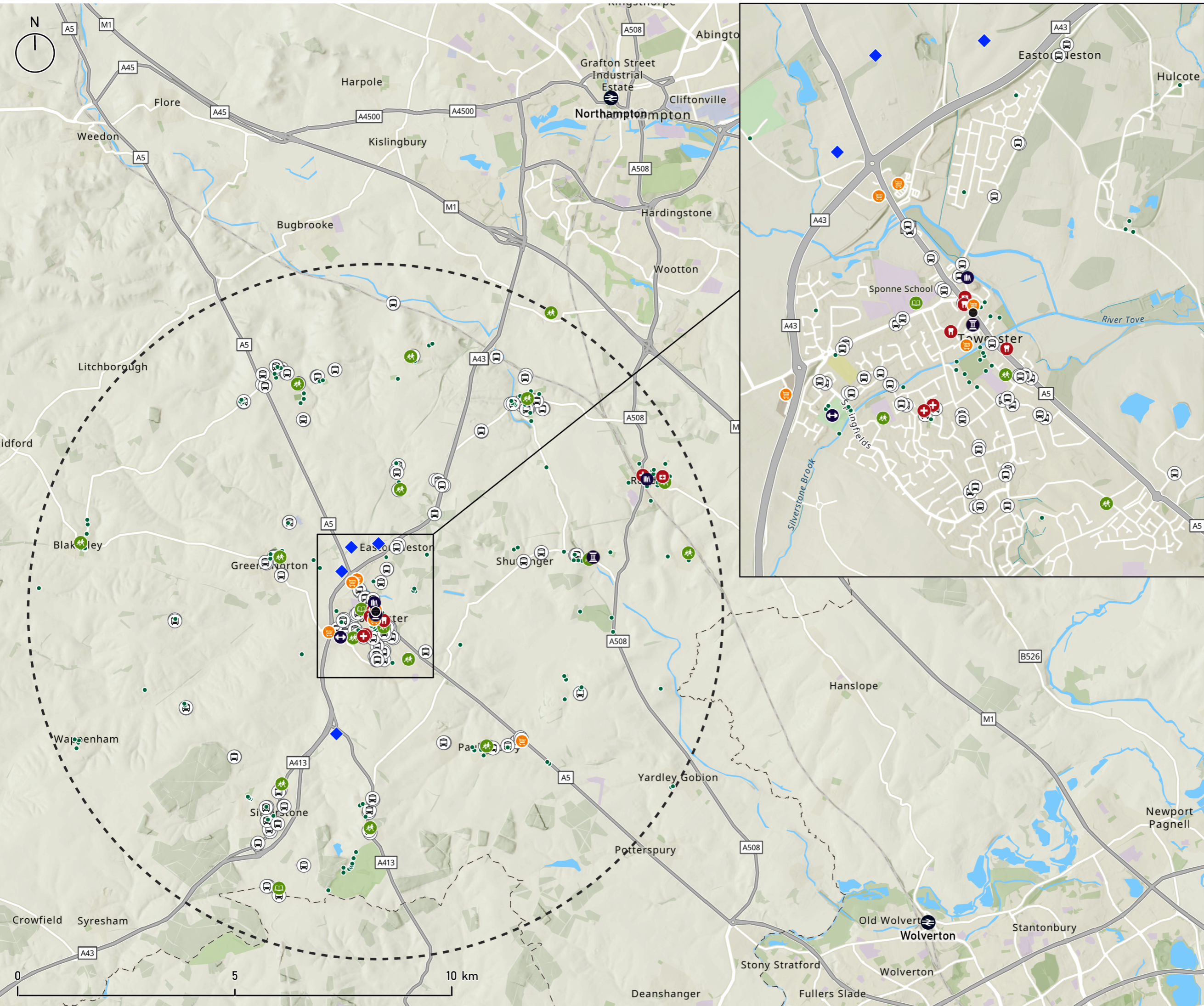


Everyday trip origins

- Contain 2021 LSOA population weighted centroid
- Contain future housing development
- Hexagon grid (0.25 sqkm)
- 8km distance from Towcester town centre
- Future housing development >100 dwellings



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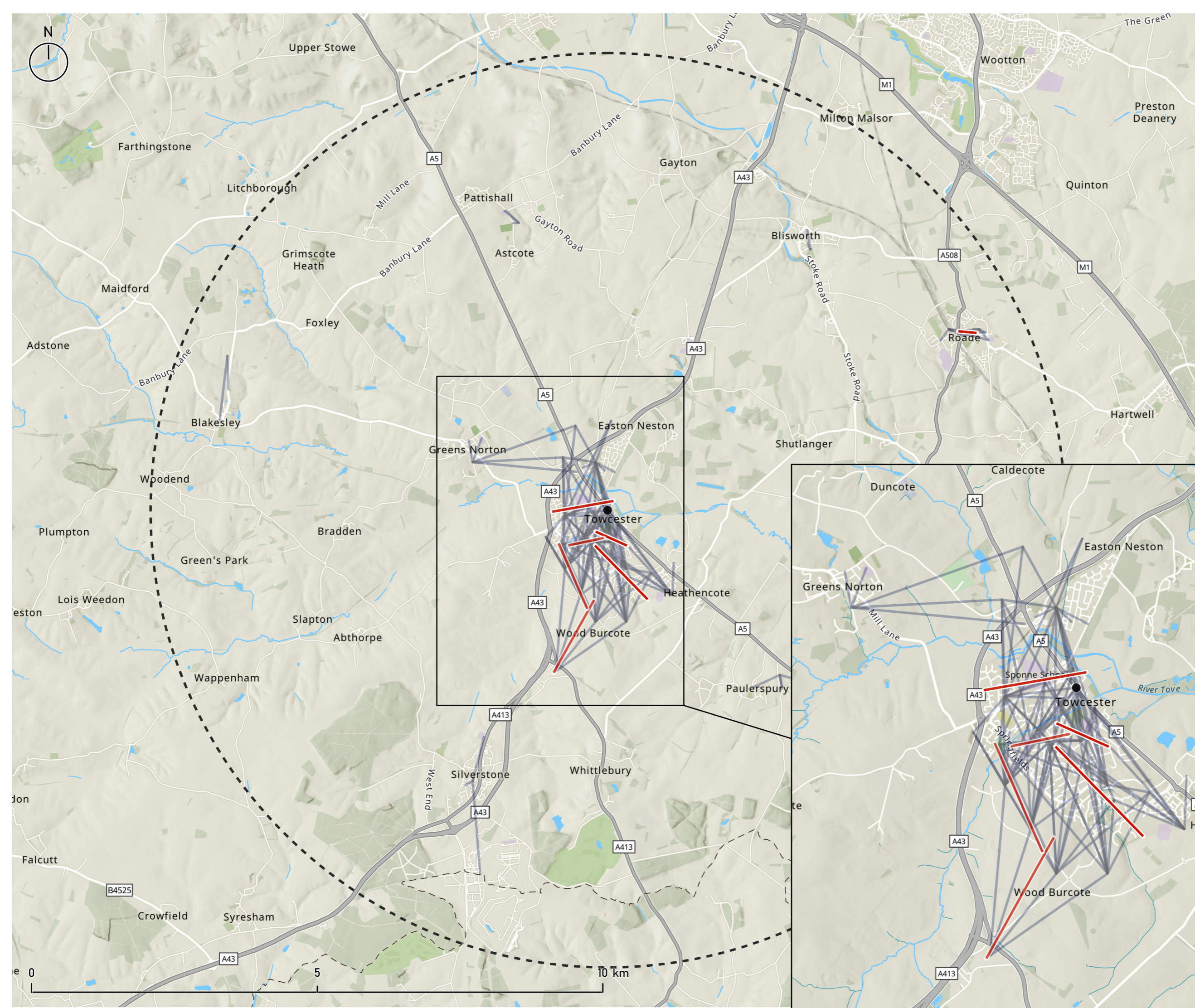
Class 1 Destinations

- Towcester Town Centre
- ◆ Future employment sites
- 🚂 National Rail Stations

Class 2 Destinations

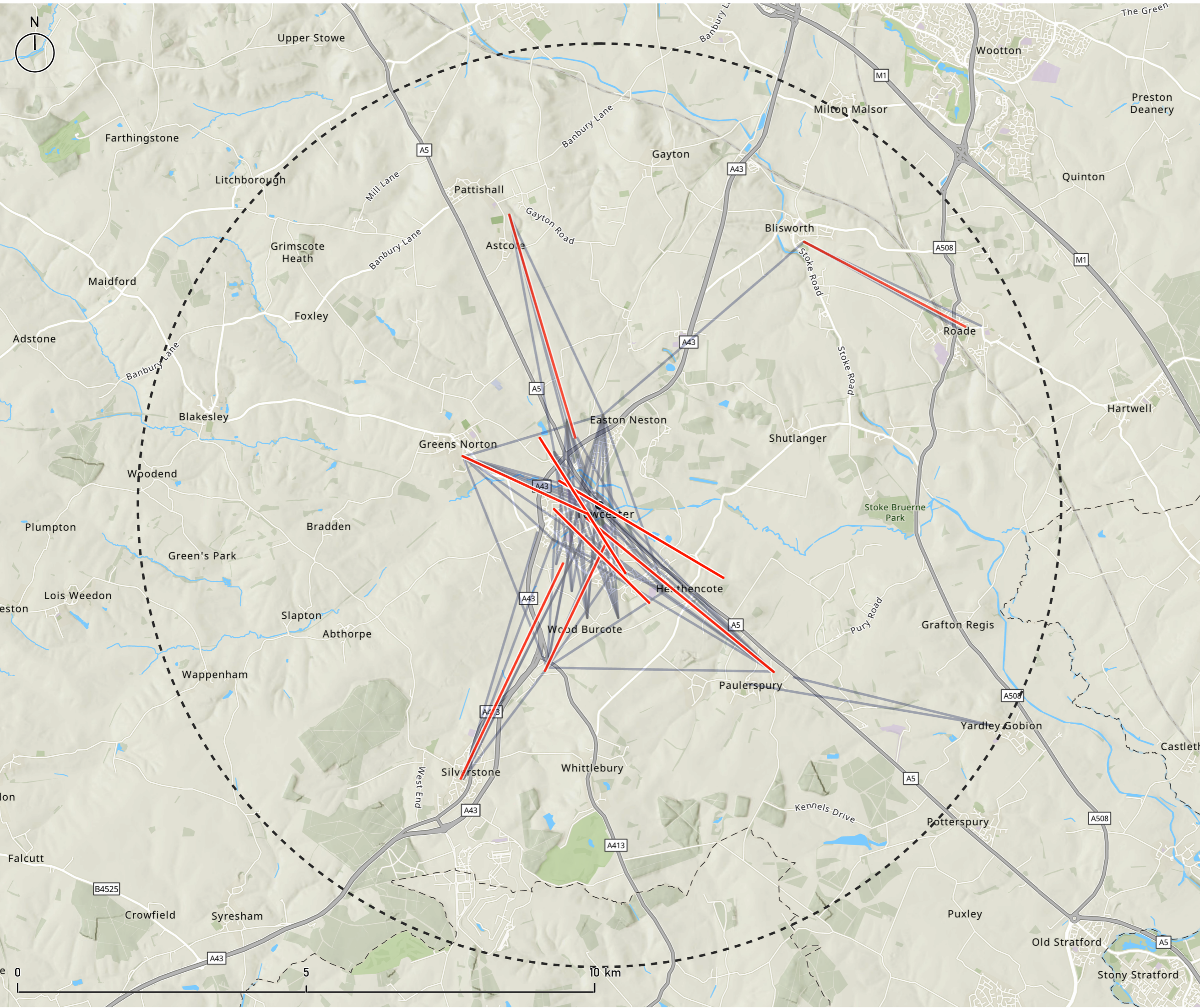
- 🏛️ Attractions
- 📖 Library
- 🎮 Leisure centre
- 🛒 Supermarket
- 🦷 Dentist
- 🏠 GP
- 🏪 Pharmacy
- 🎓 Secondary schools
- 🎓 Primary schools
- Green Space access point
- 🚌 Bus Stops
- ⋯ 8km distance from Towcester town centre

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- 'Everyday' Walking Desire Line clusters (0-2km)
- 'Everyday' Walking Desire Lines (0-2km)
- 8km distance from Towcester town centre
- Towcester Town Centre

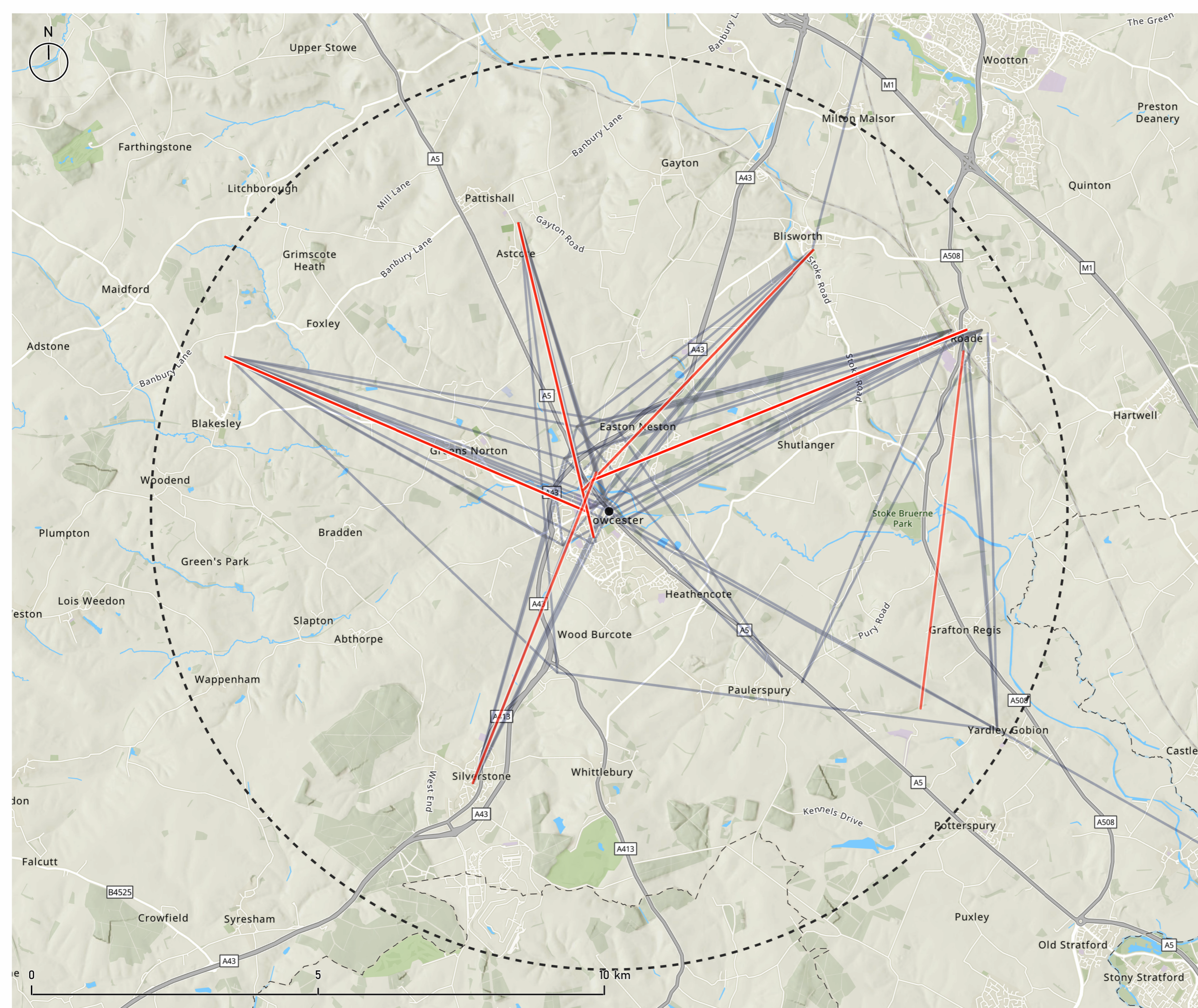
Esri, Intermap, NASA, NGA, USGS, Esri UK, Esri, HERE, Garmin, Foursquare, GeoTechnologies, Inc, METI/NASA, USGS



- 'Everyday' Cycling Desire Line clusters (2-5km)
- 'Everyday' Cycling Desire Lines (2-5km)
- 8km distance from Towcester town centre
- Towcester Town Centre

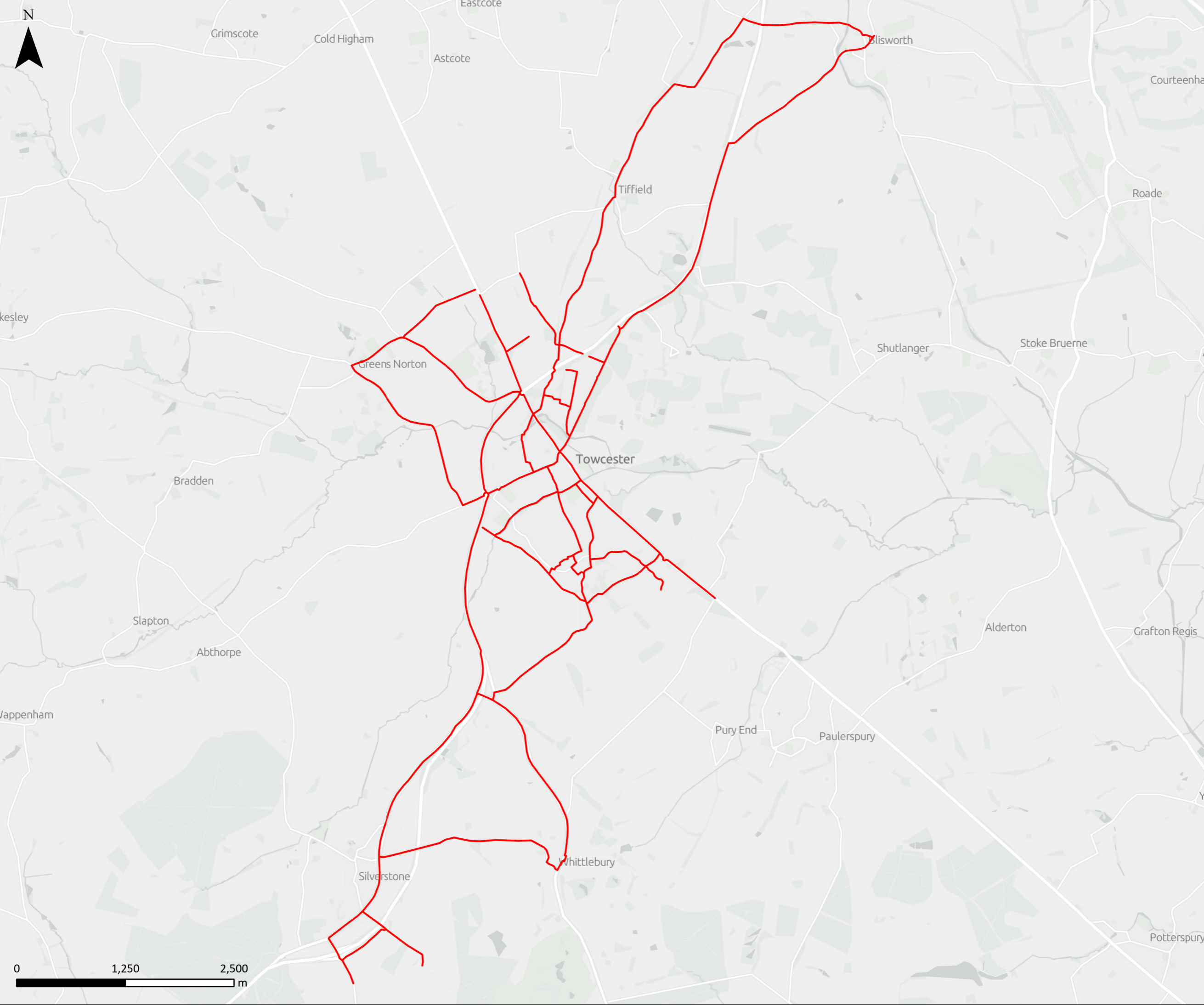


Esri, Intermap, NASA, NGA, USGS, Esri UK, Esri, HERE, Garmin, Foursquare, GeoTechnologies, Inc, METI/NASA, USGS



- 'Everyday' Cycling Desire Line clusters (5-8km)
- 'Everyday' Cycling Desire Lines (5-8km)
- 8km distance from Towcester town centre
- Towcester Town Centre

Esri, Intermap, NASA, NGA, USGS, Esri UK, Esri, HERE, Garmin, Foursquare, GeoTechnologies, Inc, METI/NASA, USGS



Prioritised Routes - RST

— Prioritised Routes - RST

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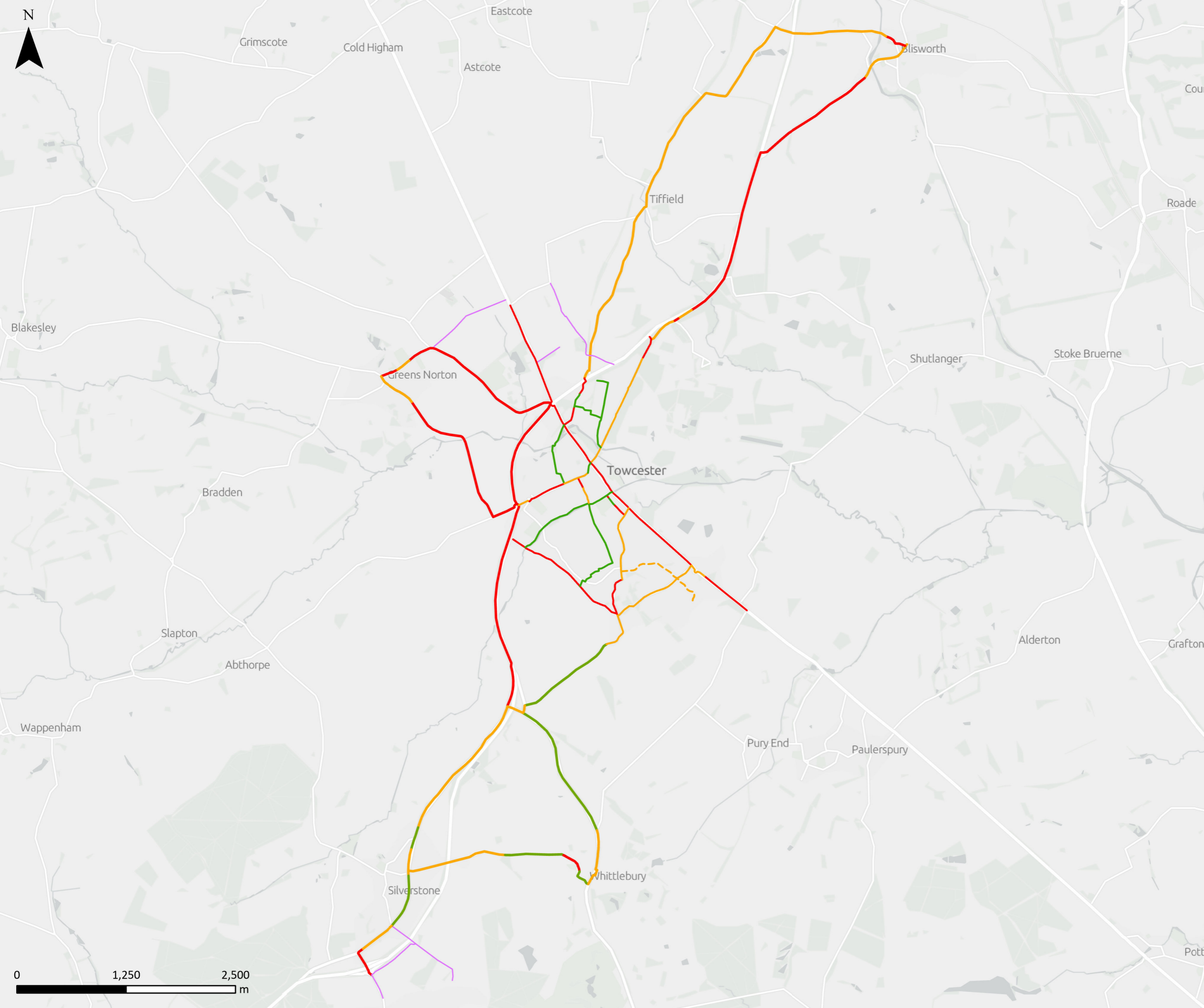
PJA  The Aquarium
 Kings Street
 Reading
 RG1 2AN
 T. 0118 956 0909

CLIENT
WEST NORTHAMPTONSHIRE COUNCIL

PROJECT
Towcester LCWIP

TITLE
**Towcester - Route
 Prioritisation Map**

FIGURE NUMBER		REVISION	
F1		A	
SCALE	DRAWN	REVIEWED	DATE
A3 @ 1:40,000	PP	EJ	18/07/2023



Proposed Interurban Routes

RST Rating

- Red
- Amber
- Green
- Public Access

Proposed Urban Routes

RST Rating

- Red
- Amber
- Green
- Amber Dashed (Subject to development changes)

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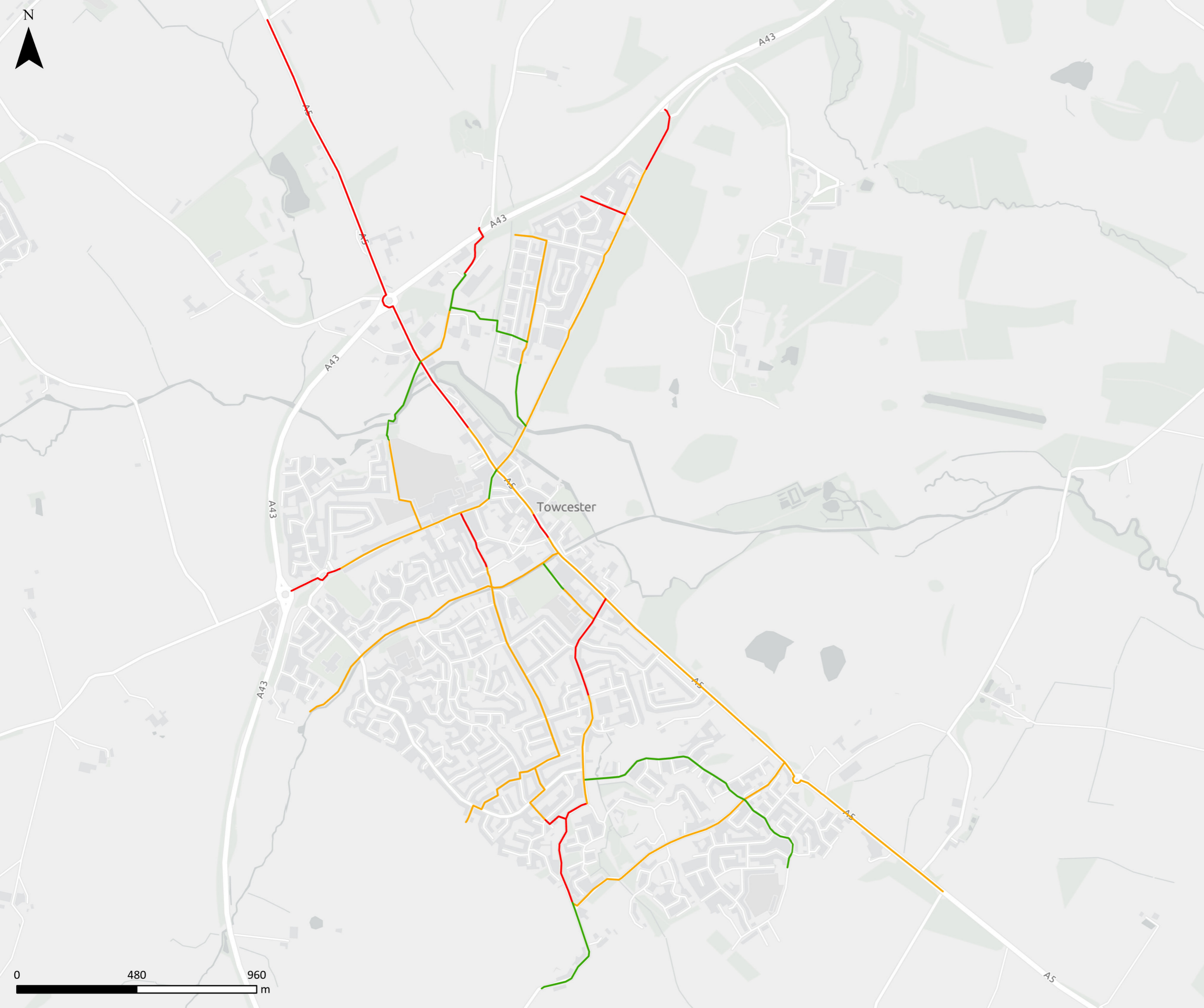
PJA The Aquarium
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 RG1 2AN
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PROJECT
Towcester LCWIP

TITLE
Towcester - RST Audit Map

FIGURE NUMBER		REVISION	
F1		A	
SCALE	DRAWN	REVIEWED	DATE
A3 @ 1:40,000	PP	EJ	19/07/2023



Proposed Urban Routes - WRAT

WRAT Rating

- Red
- Amber
- Green

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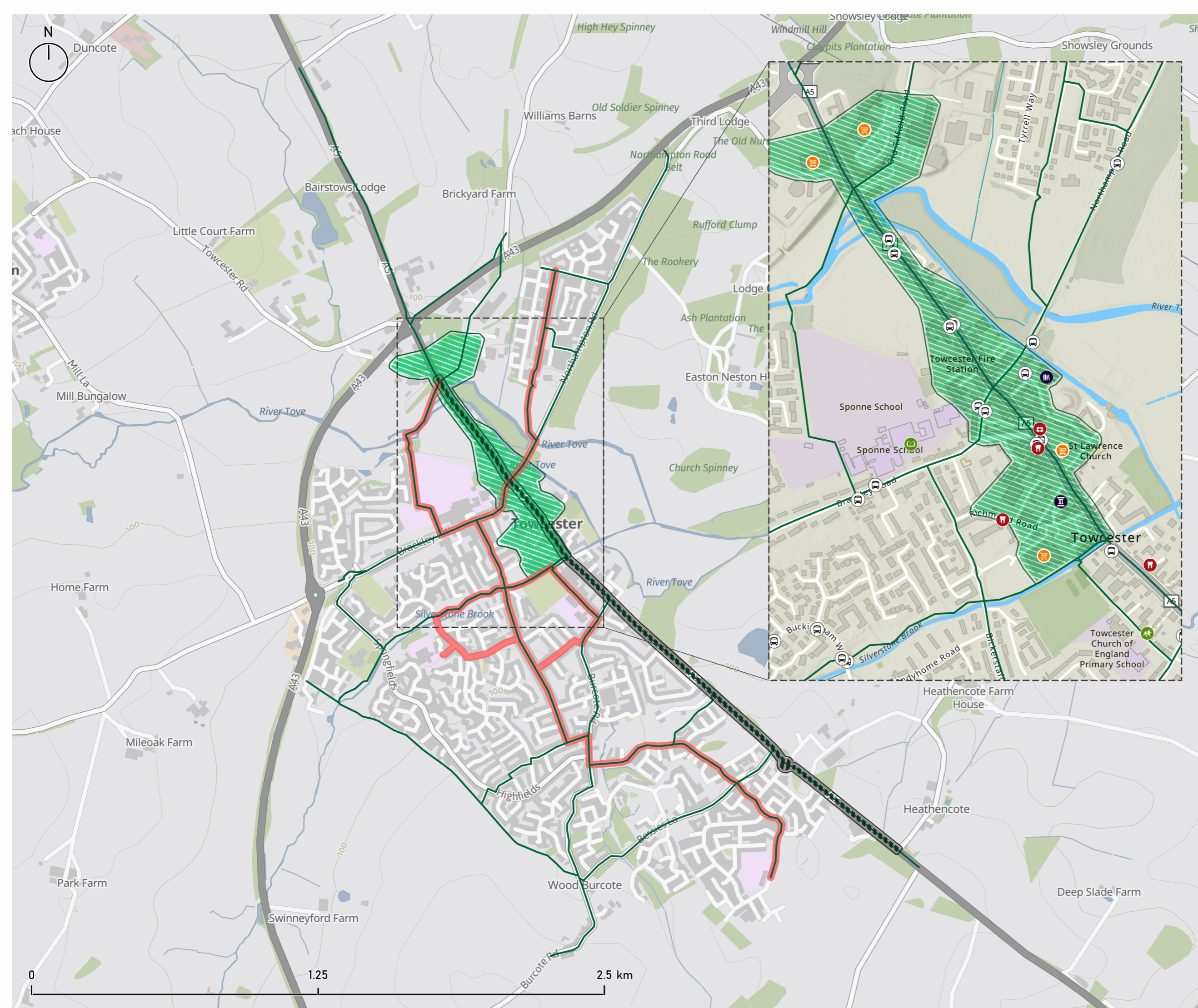
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 Reading
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PROJECT
Towcester LCWIP

TITLE
Town Centre - WRAT Map

FIGURE NUMBER	REVISION		
F2	A		
SCALE	DRAWN	REVIEWED	DATE
A3 @ 1:14,000	PP	EJ	19/07/2023



















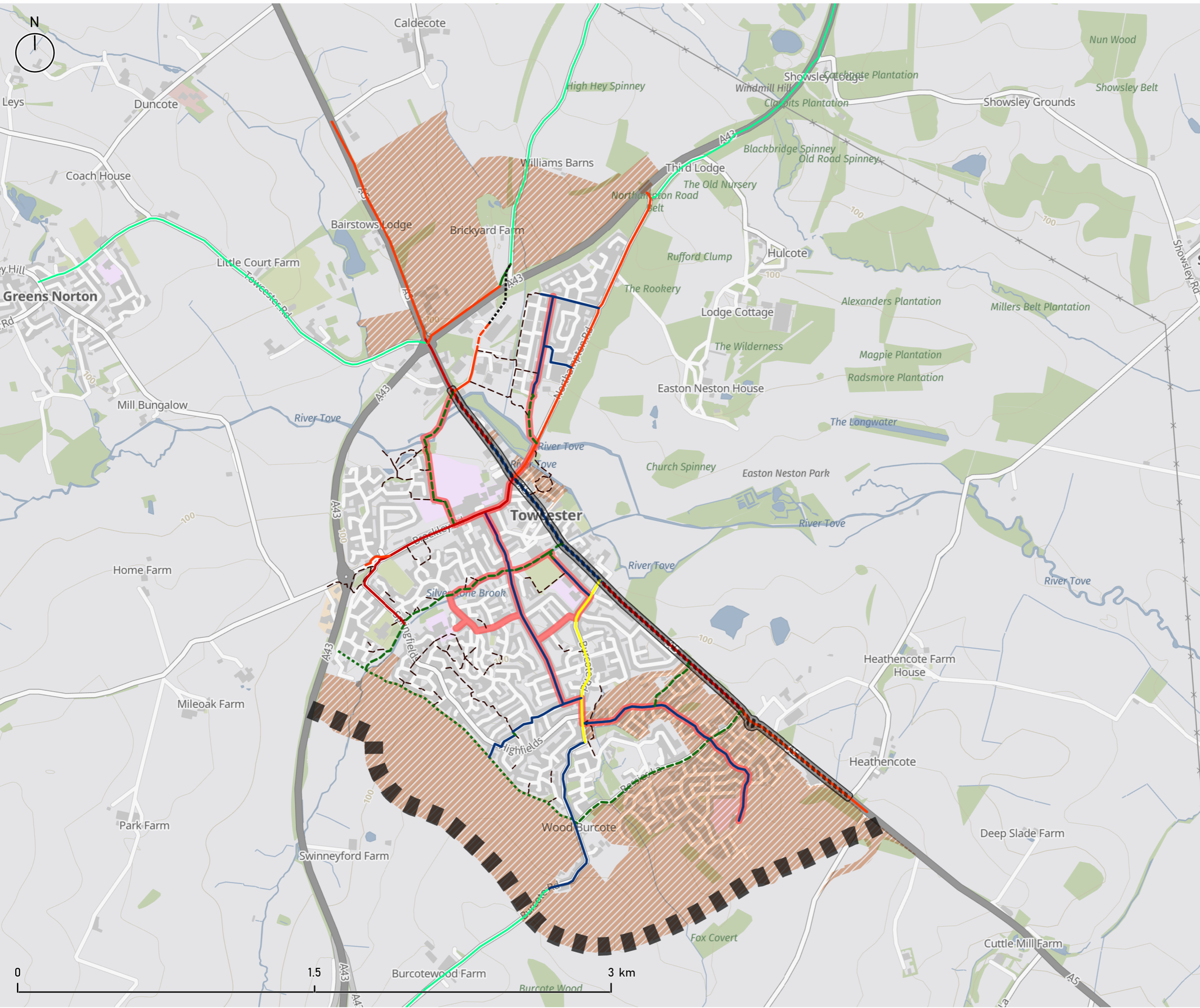
-  Proposed walking network in town centre
-  Core walking zones
-  National Highway A5 Towcester Improvement
-  Key route to schools
-  Attractions
-  Library
-  Supermarket
-  Dentist
-  Pharmacy
-  Secondary schools
-  Primary schools
-  Bus Stops

Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community. Contains OS data © Crown Copyright and database right 2023. Contains data from OS Zoomstack, Esri Community Maps Contributors, Esri UK, Esri, HERE, Garmin, Foursquare, GeoTechnologies, Inc, METI/NASA, USGS

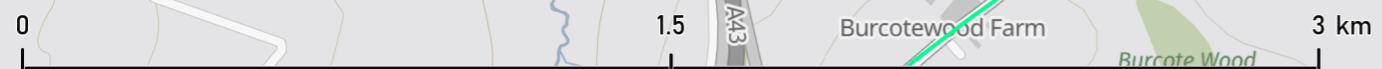
Proposed cycling network in town centre

Proposed level of provision

-  Protected Cycling Infrastructure
-  Shared use footway/cycleway
-  (Existing shared use footway/cycleway)
-  Mandatory/ advisory cycle lane
-  Cycling on carriageway mixed with traffic
-  Cycling on carriageway with contraflow cycling
-  Shared use traffic-free section / Greenway
-  Existing shared use traffic-free section / Greenway
-  Shared use Traffic-free section - Indicative alignment
-  Grade-separated traffic-free link
-  National Highway A5 Towcester Improvement
-  Proposed inter-urban route network
-  Existing cycling network
-  Key route to schools
-  Relief road Indicative alignment
-  Future developments in Towcester



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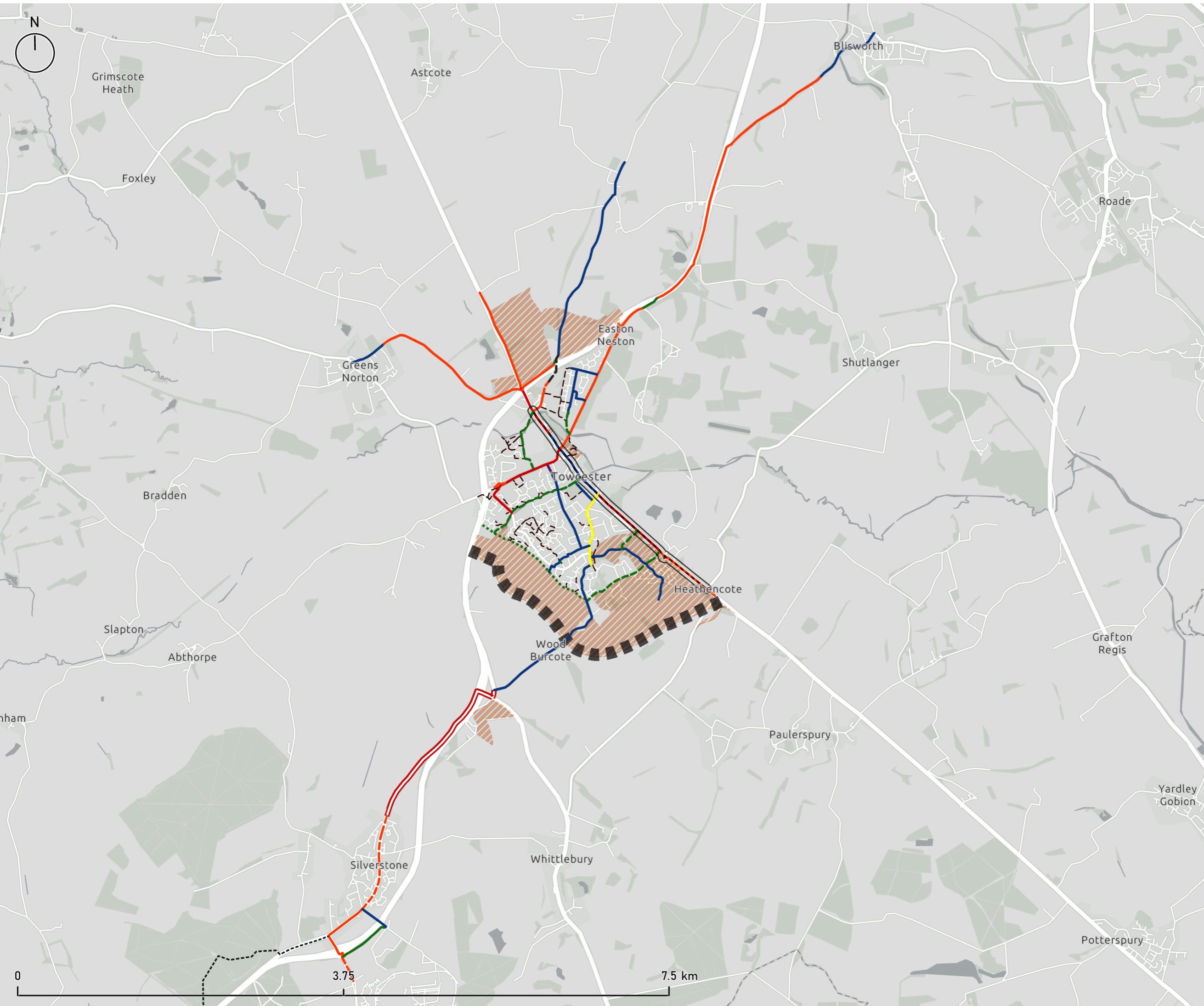


Proposed inter-urban route network

Proposed level of provision

















- Protected cycle track
- = Protected bidirectional cycle track
- Shared use footway/cycleway
- Mandatory/ advisory cycle lane
- Cycling on carriageway mixed with traffic
- Shared use traffic-free section
- - - (Existing shared use footway/cycleway)
- Proposed combined walking & cycling network in town centre
- |||| National Highway A5 Towcester Improvement
- - - - - (Tying into Brackley LCWIP proposals)
- || Relief road Indicative alignment
- / / / / Future developments in Towcester

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Proposed cycling network

Proposed level of provision

-  Protected cycle track
-  Protected bidirectional cycle track
-  Shared use footway/cycleway
-  (Existing shared use footway/cycleway)
-  Mandatory/ advisory cycle lane
-  Contraflow cycle lane
-  Cycling on carriageway mixed with traffic
-  Shared use traffic-free section
-  (Existing shared use traffic-free section)
-  Shared use Traffic-free section - indicative alignment
-  Grade separated traffic-free connection
-  (Tying into Brackley LCWIP proposals)
-  Existing cycling network
-  National Highway A5 Towcester Improvement
-  Relief road Indicative alignment
-  Future developments in Towcester

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