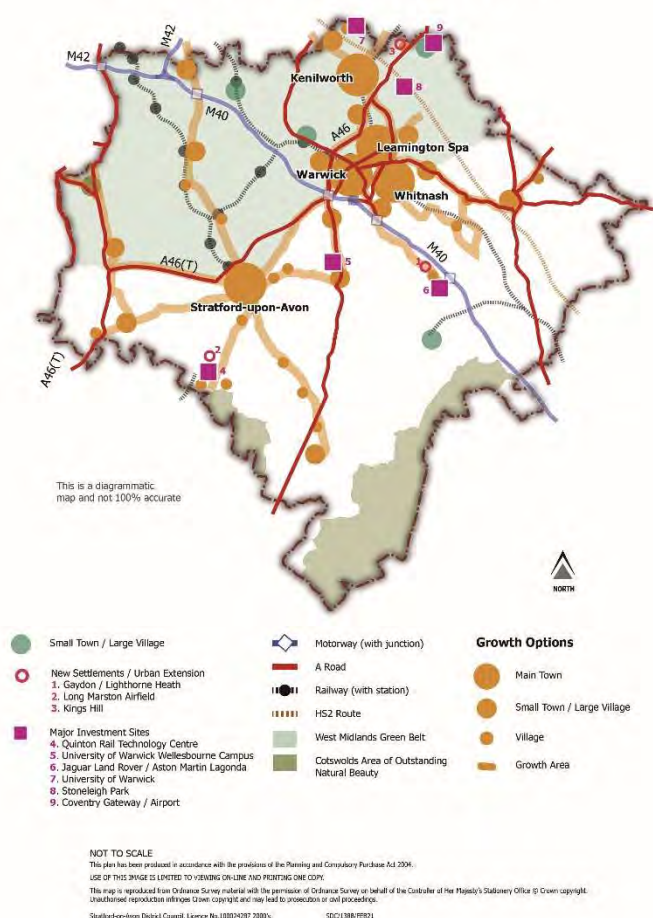


Bus accessibility

Purpose of the work

One of the high-level growth options (option B – see below) suggested in the Scoping Consultation in May 2021, was to distribute growth around ‘main bus routes’. Main bus routes were defined as those routes with a minimum service frequency of an hour.

Growth Option B – Main Bus Corridors



Feedback to Option B was mixed, as highlighted in the [consultation summary](#). Concerns over a bus-focussed approach relate principally to frequency and practicality of bus services, particularly in respect of commuter travel. They also regularly refer to the changeable nature of bus service provision. However, there was general support for emphasising sustainable travel in a growth strategy, which would include bus services. This prompted further probing of bus service accessibility, especially in respect of accessibility to different types of destinations.

Whilst Option B of the Scoping consultation identified a number of *settlements* which currently benefit from ‘main bus services’, it did not consider which *areas* of those settlements might be

accessible to those existing services and conversely which areas might not. Furthermore, if those settlements were to expand, would any new development be potentially accessible to or from the existing bus service?

In order to consider the above issues further, the SWLP team and Warwickshire County Council Sustainable Travel team jointly commissioned ITP to examine bus accessibility across South Warwickshire. It was specified that the information should be presented in a map format along similar lines to the example in the National Model Design Code (p9, Figure 5).

How the maps were produced

In the inception of the work, the focus was placed on identifying the types of destinations that may be accessed by bus. The following were individually considered for this purpose, and are represented on the maps:

- Major towns (centres) – defined as locations for major retail and leisure
- Major and minor towns centres – includes smaller towns for day-to-day shopping and service needs
- Employment centres
- Hospitals
- GPs, dentists and pharmacies
- Secondary Schools and colleges (it was considered less likely that primary school students would travel by bus)

The list of locations used in the modelling to produce the maps for each of the above is included in Appendix 1. This includes locations outside the boundary of South Warwickshire, in acknowledgement that these may be closest to, and serve elements of communities across the plan area.

The bus accessibility in respect of all the above categories was plotted twice:

- 1) Existing bus routes – i.e. bus routes as they were operating at the time the modelling was undertaken.
- 2) Existing bus route plus funded improvements which will be coming onstream in the foreseeable future – i.e. this added in planned extensions or increased frequencies of services which are known to be forthcoming. For example, these may be included in a signed S106 agreement.

The result is two sets of 6 maps:

- One map for each of the 6 destination categories identified above for existing bus services at the point the modelling was undertaken (March/April 2022)
- One map for each of the 6 destination categories identified above for existing and known (funded) future improvements to the existing services.

How the maps are being used and what they tell us

The bus accessibility maps have been considered at a high level in the testing Option B from the Scoping Consultation and the evolution of the spatial options for the Issues and Options consultation. They are likely to be further utilised throughout the plan making process.

Each of the maps follows a similar trend, with key corridors of accessibility broadly evident across the set. For example, the major urban towns (Kenilworth, Leamington Spa, Stratford, Warwick and Whitnash) appear to have the best accessibility to bus services generally across all categories, with some smaller towns also appearing to have higher levels of accessibility (e.g. Alcester, Henley-in-Arden, and Southam). There are also clear recurring corridors, such as north-south from Coventry to Leamington Spa via Kenilworth; through South Warwickshire between Redditch and Evesham, via Alcester, and to a slightly lesser degree between Stratford and Shipston-on-Stour.

Conversely, the 'white' areas of the map, untouched by any of the accessibility isochrones are largely inaccessible to frequent bus services.

These maps will remain a point of reference and evidence throughout the evolution of spatial options for the SWLP, and potentially in the evolution of any preferred option in the future. At the time of writing, it is clear that if bus services are to be a consideration in spatial options, there is a potential choice between locating growth close to existing provision (i.e. within areas in or very close to, the warmest colours on the maps), or seeking to site sufficient growth in an area currently poorly served/not served by buses, in order to attempt to generate services.

It is acknowledged however that patronage of bus services has been impacted by the Covid 19 pandemic, and the ongoing impact of this and other factors affecting bus use will need to be considered throughout the plan making process.

Appendix 1 – Locations identified in the bus accessibility analysis

Major Towns (including those within a 30-mile radius of the boundary of South Warwickshire – the furthest considered likely to travel via this mode of transport)

| | |
|----------------|---------------------|
| Banbury | Redditch |
| Brackley | Rugby |
| Coventry | Solihull |
| Daventry | Stratford-upon-Avon |
| Evesham | Warwick |
| Kenilworth | Whitnash |
| Leamington Spa | |

Major towns plus smaller towns (all of the above, plus smaller towns for more local day-to-day services)

| | |
|-----------------|---------------------|
| Alcester | Leamington Spa |
| Bidford-on-Avon | Redditch |
| Banbury | Rugby |
| Brackley | Shipston |
| Coventry | Solihull |
| Daventry | Southam |
| Evesham | Stratford-upon-Avon |
| Henley-in-Arden | Studley |
| Kenilworth | Warwick |
| Kineton | Whitnash |

Employment centres

Defined where there are 'hubs' of employment, such as industrial estates, business parks etc, plus major town centres (South Warwickshire hubs summarised from GIS data, February 2022)



Nb. The consented Gigafactory was also plotted for modelling purposes

Employment Hubs beyond South Warwickshire

- Prologis Park CV8 3LF
- JLR CV3 4LF
- Whitley Business Park CV3 4GA
- Binley Business Park CV3 2TQ
- Herald Business Park CV3 2SY
- Middlemarch Business Park CV3 4FJ
- Pilot Business Park CV3 3EQ
- Cummins NN11 8PH
- Business Park NN11 8PH
- Royal Oak Industrial Estate
- Amazon UK Services NN11 8QT
- Daventry Distribution Centre NN11 8QT
- Business Park NN11 8RA
- DHL Distribution Centre NN11 8NF
- Distribution Centre OX16 4XD
- Business Park OX16 4TJ
- DHL OX16 4RS
- Business Park OX16 3ED
- Business Park OX16 3EY
- Business Village OX16 2SP
- Penhill Industrial Estate OX16 1RW
- Douwe Egberts OX16 1RW

- Sugarswell Business Park OX15 6HW
- Park Farm Industrial Estate B98 7TD
- Washford Industrial Estate B98 0DP
- South Moons Industrial Estate B98 0RB
- Moons Moat North Industrial Estate B98 9EZ

Hospitals

| | |
|--------------------------------------|---------------------|
| Banbury | Moreton-on-Marsh |
| Coventry | Redditch |
| Daventry | Rugby St Cross |
| Ellen Badger (Shipston) | Stratford-upon-Avon |
| Leamington Spa Rehabilitation Centre | Warwick |

GPs, Dentists and Pharmacies

GPs (captured from GIS records in February 2022)

| | |
|--|--|
| Abbey Medical Centre | Priory Medical Centre |
| Alcester Health Centre | Priory Medical Centre: Woodloes Park Surgery |
| Avonside Health Centre | Rother House Medical Centre |
| Bidford Health Centre | Rother House Medical Centre: The Rosebird Centre |
| Bridge House Medical Centre | Sherbourne Medical Centre |
| Budbrooke Medical Centre | Shipston Medical Centre |
| Castle Medical Centre | Southam Surgery |
| Chase Meadow Health Centre | Spa Medical Centre |
| Clarendon Lodge Medical Centre | St. Wulfstan Surgery |
| Croft Medical Centre | Tanworth-in-Arden Medical Centre |
| Croft Medical Centre: Bishops Tachbrook Surgery | The Arrow Surgery |
| Croft Medical Centre: Lisle Court Medical Centre | Trinity Court Surgery |
| Cubbington Road Surgery | Trinity Court Surgery: Claverdon Surgery |
| Fenny Compton & Shenington Surgery | Vale of Red Horse |
| Harbury Surgery | Vale of Red Horse: Tysoe Surgery |
| Harbury Surgery: Bishops Itchington Surgery | Warwick Gates Family Health Centre |
| Hastings House Surgery | Waterside Medical Centre |
| Hastings House Surgery: Little Thatch Surgery | Whitnash Medical Centre |
| Henley-in-Arden Medical Centre | |
| Lapworth Surgery | |
| Meon Medical Centre | |
| Pool Medical Centre | |

GP surgeries identified outside (but near to) South Warwickshire

| | |
|---------------------------------|----------------------------------|
| Kenyon Medical Centre (CV3 3AD) | GPS (B90 4JA) |
| Brookside (CV23 9NH) | Woodrow Medical Centre (B98 7RY) |
| Dorridge (B93 8LH) | |

Dentists (captured from GIS records in February 2022)

| | |
|----------------------------------|-----------------------------|
| 10 Sheep Street (Dental Surgery) | 10 Sheep Street |
| 21 Market Hill (Dental Practice) | 21 Market Hill |
| Bidford Dental Practice | 11 Church Street |
| Bridge Dental Practice | Court Street |
| Brook House (Dental Surgery) | Brook House |
| Cedarlea Dental Care | 12 Warwick Road |
| Complete Dental | 106 High Street |
| Court Street (Dental Surgery) | Court Street |
| Dental Practice | Old Tile House Market Place |
| Dental Practice | 93 Abbey End |
| Dental Practice (Ely Place) | Ely Place |
| Dental Surgery | 19 Priory Road |
| Dental Surgery | 37 High Street |
| Dental Surgery | 17 Priory Terrace |
| Dental Surgery | 7 Crown Way |
| Dental Surgery | 29 Leicester Street |
| Dental Surgery | 13 Euston Place |
| Dental Surgery | 4 Stanleys Court |
| Dental Surgery | Connaught House |
| Dental Surgery | 1 Radford Road |
| Dental Surgery | 2 Daventry Street |
| Dental Surgery | 7 John Street |
| Dental Surgery | 12 Marble Alley |
| Dental Surgery | 2 Old Square |
| Dental Surgery | 9 Cape Road |
| Dental Surgery | 2 Willow Drive |
| Elta House | Birmingham Road |
| Evesham Place Limited | 14 Evesham Place |
| Hamilton Terrace Dental Surgery | 28-30 Hamilton Terrace |
| Ivory Bespoke Dentistry | 215 High Street |
| Kenilworth Dental Practice | 26 Station Road |
| Kineton Dental Centre | Marlborough |
| Leamington Spa Orthodontics | 21 Waterloo Place |
| Meon Dental Centre | Goose Lane |
| Mr AJ Browne | 14 Evesham Place |
| Orthoral Leamington Spa | 9 Augusta Place |
| Pennington Dental | Suite A |
| Principal Dentistry | The Surgery |
| Priory Dental Clinic | 68 Priory Road |
| Rother Street (Dental Surgery) | 6 Rother Street |
| Shipston Dental Practice | 19 Sheep Street |
| Station Road (Dental Surgery) | 19b Station Road |
| Stratford Dental | Trinity House |
| The Grove Practice | 6 Beauchamp Hill |
| The Priory Dental Centre | 4 Priory Terrace |

| | |
|----------------------------------|-------------------|
| Tiddington Road (Dental Surgery) | 9 Tiddington Road |
| Trinity Court Surgery | Arden Street |
| Westgate Dental Practice | 13 West Street |
| Whitnash Dental Surgery | 80 Heathcote Road |

Pharmacies (captured from GIS records in February 2022)

| | |
|--------------------------|---------------------|
| Alliance Pharmacy | Kenilworth |
| Asda Pharmacy | Leamington Spa |
| Avon Pharmacy | Stratford Upon Avon |
| Birk and Nagra Chemists | Leamington Spa |
| Birk and Nagra Chemists | Leamington Spa |
| Birk and Nagra Chemists | Leamington Spa |
| Birk and Nagra Chemists | Leamington Spa |
| Birk and Nagra Chemists | Warwick |
| Birk and Nagra Chemists | Leamington Spa |
| Birk and Nagra Chemists+ | Leamington Spa |
| Boots | Warwick |
| Boots | Stratford-Upon-Avon |
| Boots | Leamington Spa |
| Boots | Stratford-on-Avon |
| Boots | Leamington Spa |
| Boots | Kenilworth |
| Colin Harris Chemists | Bidford-on-Avon |
| Crabtree Pharmacy | Bidford-on-Avon |
| Day Lewis Pharmacy | Warwick |
| Delivermymeds | Alcester |
| HB Dunn Chemists | Leamington Spa |
| Harbury Pharmacy | Leamington Spa |
| Henley Pharmacy | Solihull |
| Hopkins Pharmacy | Alcester |
| Ivens Dispensing Chemist | Leamington Spa |
| Jhoots Pharmacy | Stratford-Upon-Avon |
| Kenilworth Pharmacy | Kenilworth |
| Kineton Pharmacy | Kineton |
| Knights Studley Pharmacy | Studley |
| Leyes Lane Pharmacy | Kenilworth |
| Lillington Pharmacy | Leamington Spa |
| LloydsPharmacy | Leamington Spa |
| LloydsPharmacy | Leamington Spa |
| LloydsPharmacy | Alcester |
| LloydsPharmacy | Leamington Spa |
| Mellors Pharmacy | Warwick |
| Morrison's Pharmacy | Stratford Upon Avon |
| Pharmacy to MY Door | Shipton-on-Stour |
| Rosebird Centre Pharmacy | Stratford-Upon-Avon |

| | |
|---------------------------|---------------------|
| Southam Pharmacy | Leamington Spa |
| Stratford Pharmacy | Stratford-Upon-Avon |
| Stratwicks Ltd Pharmacy | Warwick |
| Superdrug Pharmacy | Leamington Spa |
| Tesco Instore Pharmacy | Stratford-Upon-Avon |
| Tesco in-Store Pharmacy | Warwick |
| Wellesbourne Pharmacy | Warwick |
| Your Local Boots Pharmacy | Shipston-on-Stour |

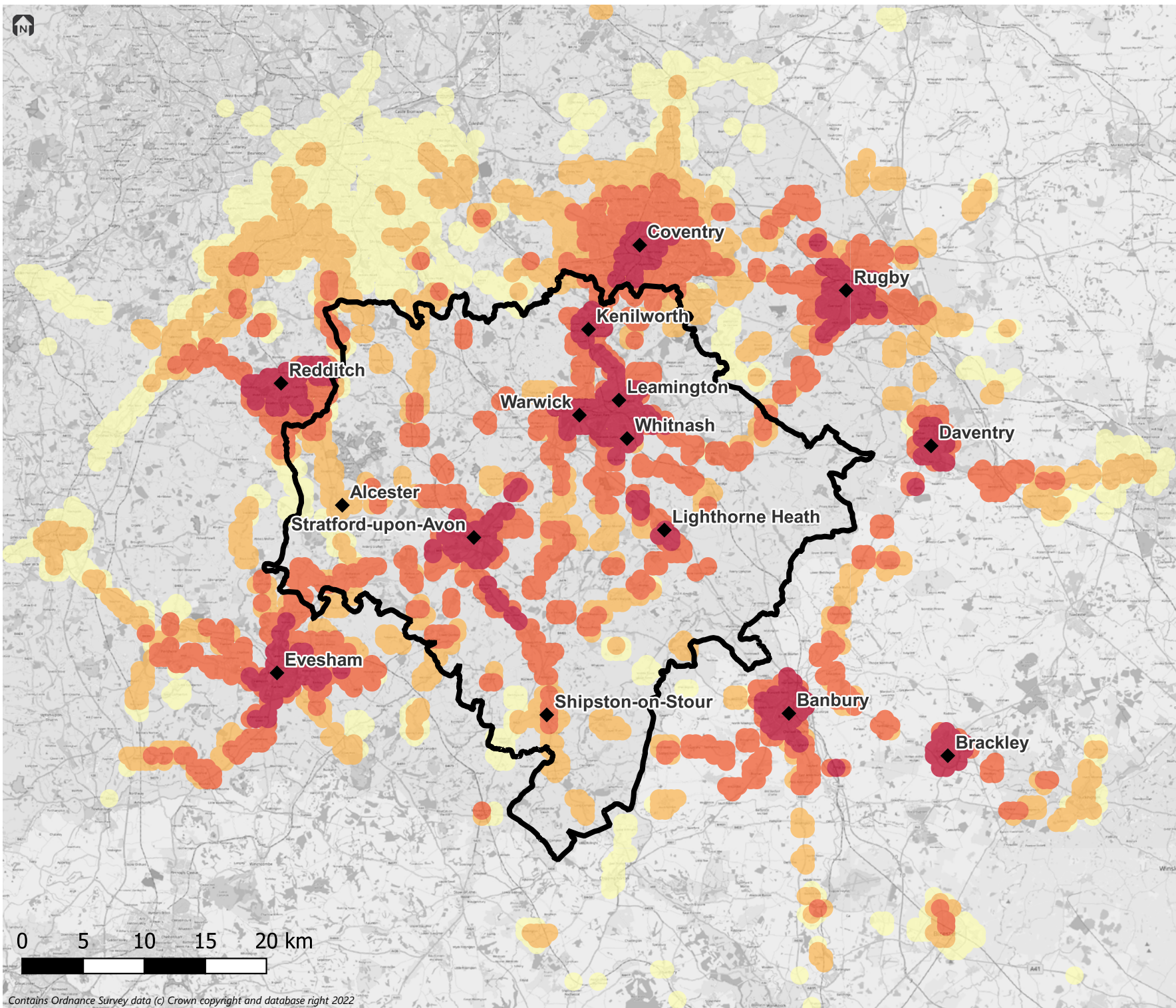
Secondary Schools and Colleges

Secondary schools and colleges within South Warwickshire

| | |
|--|---|
| Alcester Academy, Alcester | Shipston High School, Shipston-on-Stour |
| Aylesford School and Sixth Form College, Warwick | Southam College, Southam |
| Campion School, Sydenham, Leamington Spa | Stratford-upon-Avon School, Stratford-upon-Avon |
| Henley-in-Arden School, Henley-in-Arden | Stratford College, Stratford-upon-Avon |
| Kenilworth School, Kenilworth | St Benedict's Catholic School, Alcester |
| Kineton High School, Kineton | Trinity Catholic School, Leamington Spa |
| Myton School, Warwick | Warwickshire College, Leamington Spa |
| North Leamington School, Leamington Spa | |

Secondary Schools and colleges outside of South Warwickshire:

- North Oxfordshire Academy OX16 9HY
- Banbury and Bicester College OX16 9QA
- Chipping Campden Secondary School GL55 6HU
- RSA Academy Arrow Vale B98 0GF
- Trinity High School and Sixth Form B98 8HB
- DSLV School NN11 4LJ
- Northampton College at Daventry NN11 4LJ



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Key

- ◆ Major Towns
- ▭ South Warwickshire Boundary

Travel Time (mins)

- 0-15
- 15-30
- 30-45
- 45-60



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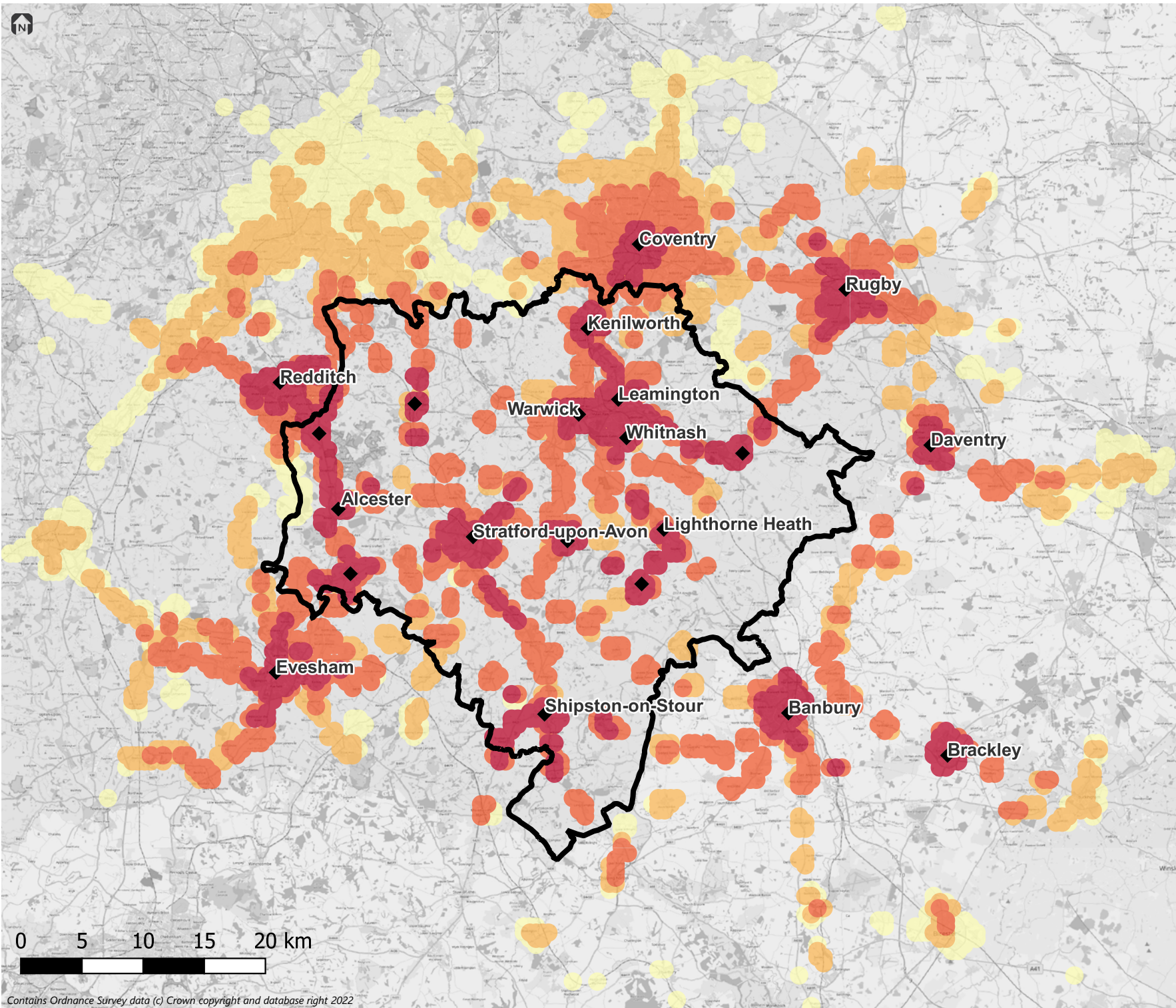
Client
Warwickshire County Council

Project
South Warwickshire Accessibility Mapping

Figure title
Accessibility to Major towns in the South Warwickshire region by public transport, weekday 7am-9am

Revision A Project number 3901

Figure number Date
Figure 1-2 Apr 22



Key

- ◆ Major and Minor Towns
- ▭ South Warwickshire Boundary

Travel Time (mins)

- 0-15
- 15-30
- 30-45
- 45-60

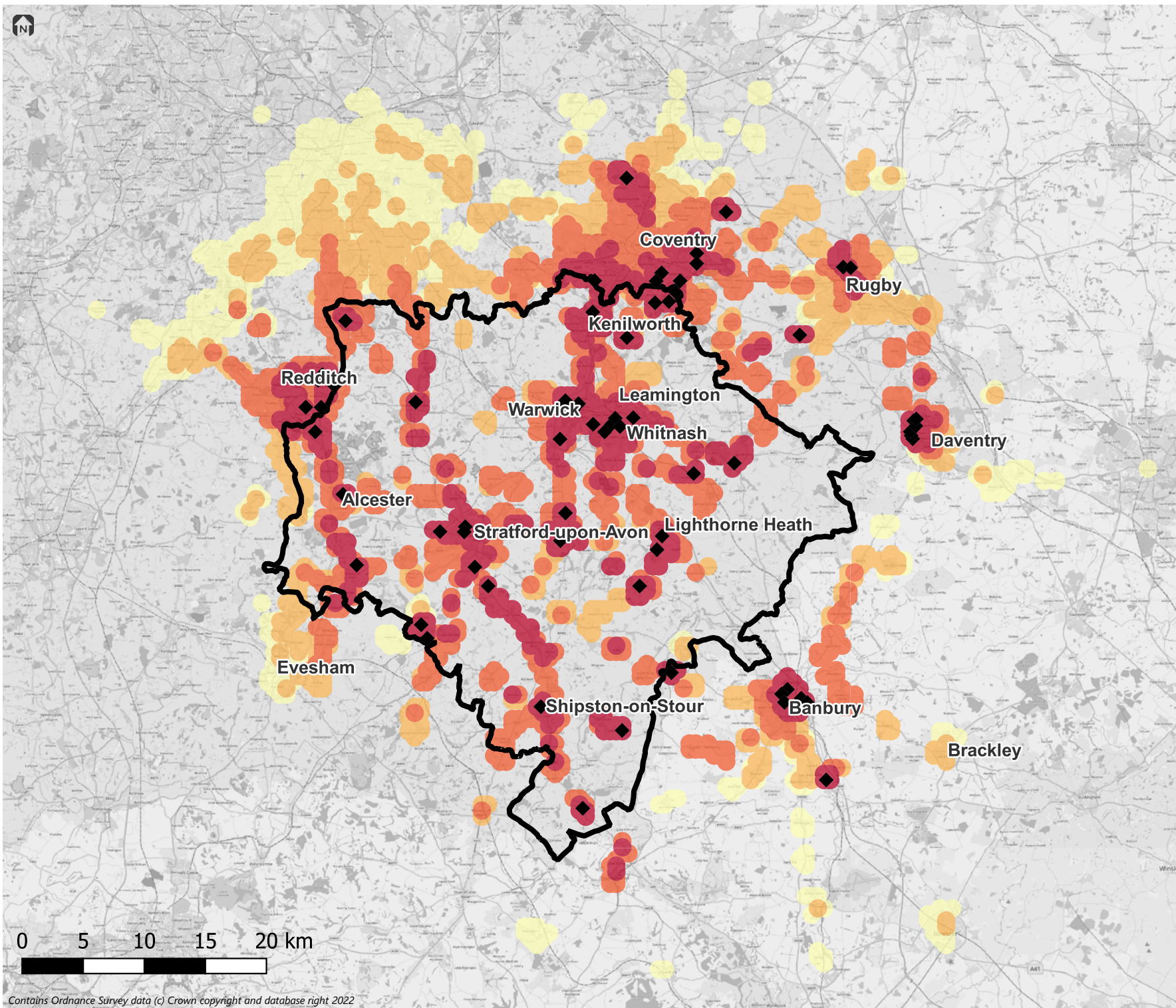


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Warwickshire County Council

Project
South Warwickshire Accessibility Mapping

Figure title
Accessibility to Major and Minor towns in the South Warwickshire region by public transport, weekday 7am-9am



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Key

- ◆ Employment Centres
- ▭ South Warwickshire Boundary

Travel Time (mins)

- 0-15
- 15-30
- 30-45
- 45-60



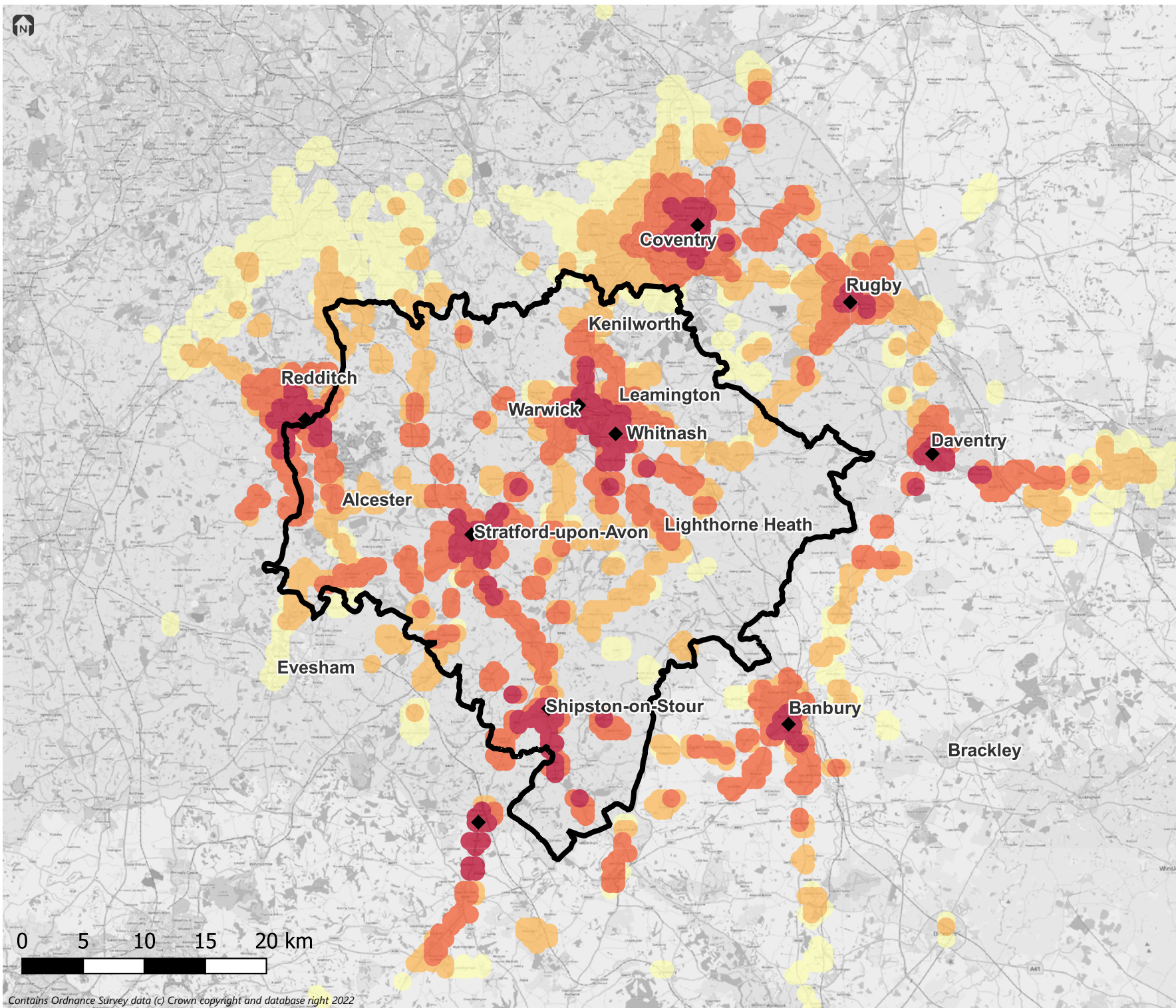
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Council

Project
South Warwickshire
Accessibility Mapping

Figure title
Accessibility to Employment
Centres in the South
Warwickshire region by public
transport, weekday 7am-9am

| | |
|---------------|----------------|
| Revision | Project number |
| A | 3901 |
| Figure number | Date |
| Figure 1-6 | Apr 22 |



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Key

- ◆ Hospitals
- ▭ South Warwickshire Boundary

Travel Time (mins)

- 0-15
- 15-30
- 30-45
- 45-60



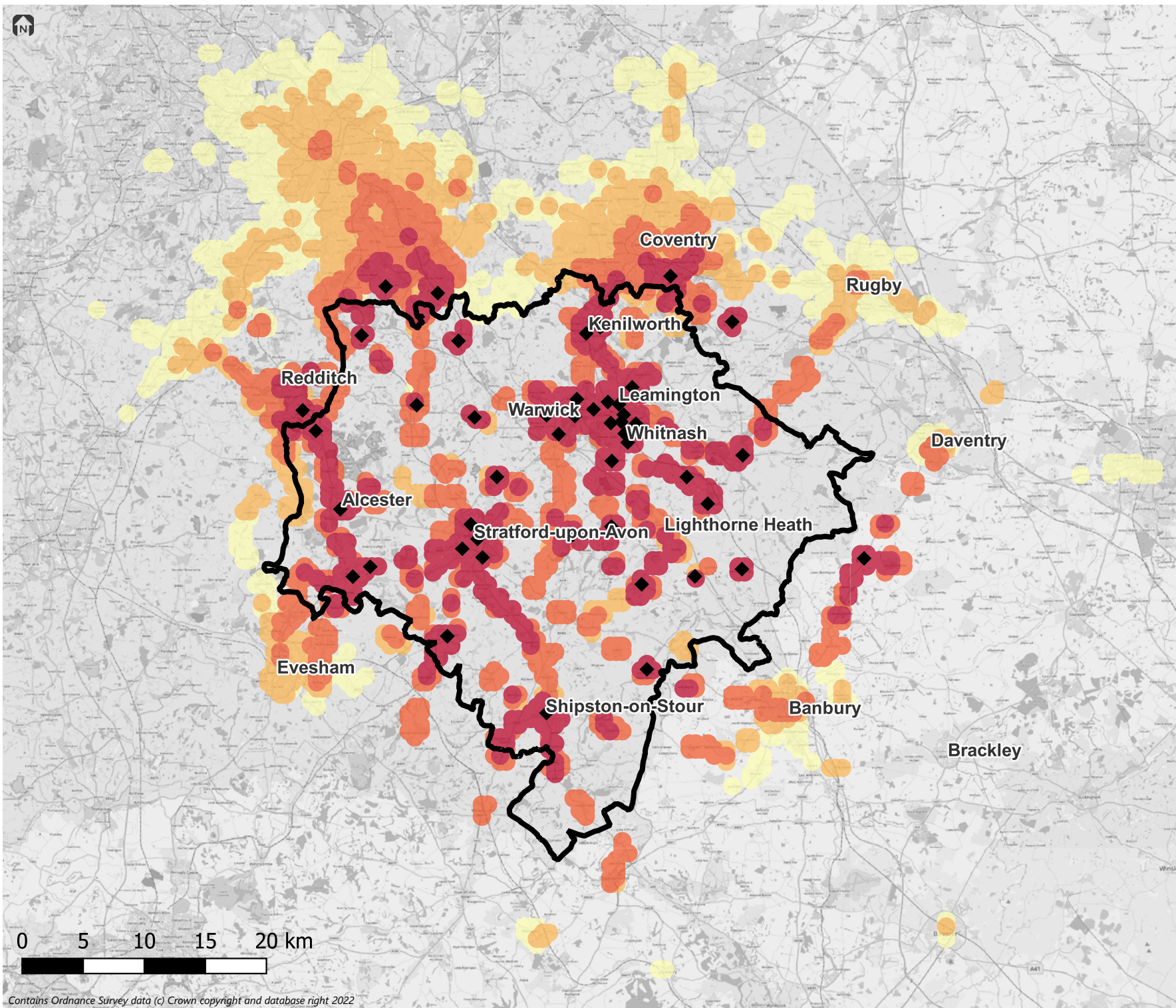
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Council

Project
South Warwickshire
Accessibility Mapping

Figure title
Accessibility to Hospitals in
the South Warwickshire
region by public transport,
weekday 7am-9am

| | |
|-----------------------------|------------------------|
| Revision A | Project number 3901 |
| Figure number Figure 1-1 | Date Apr 22 |



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Key

◆ GPs, Dentists and Pharmacies

□ South Warwickshire Boundary

Travel Time (mins)

● 0-15

● 15-30

● 30-45

● 45-60



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Project
South Warwickshire Accessibility Mapping

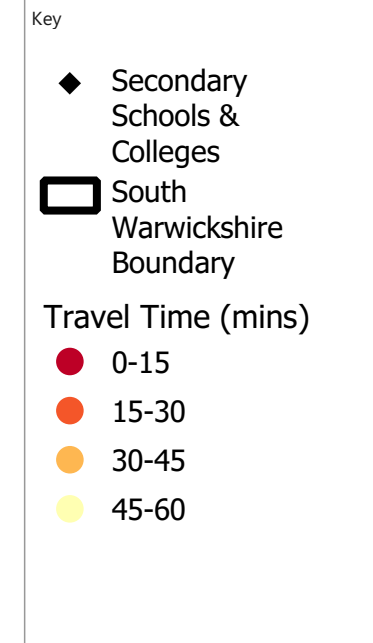
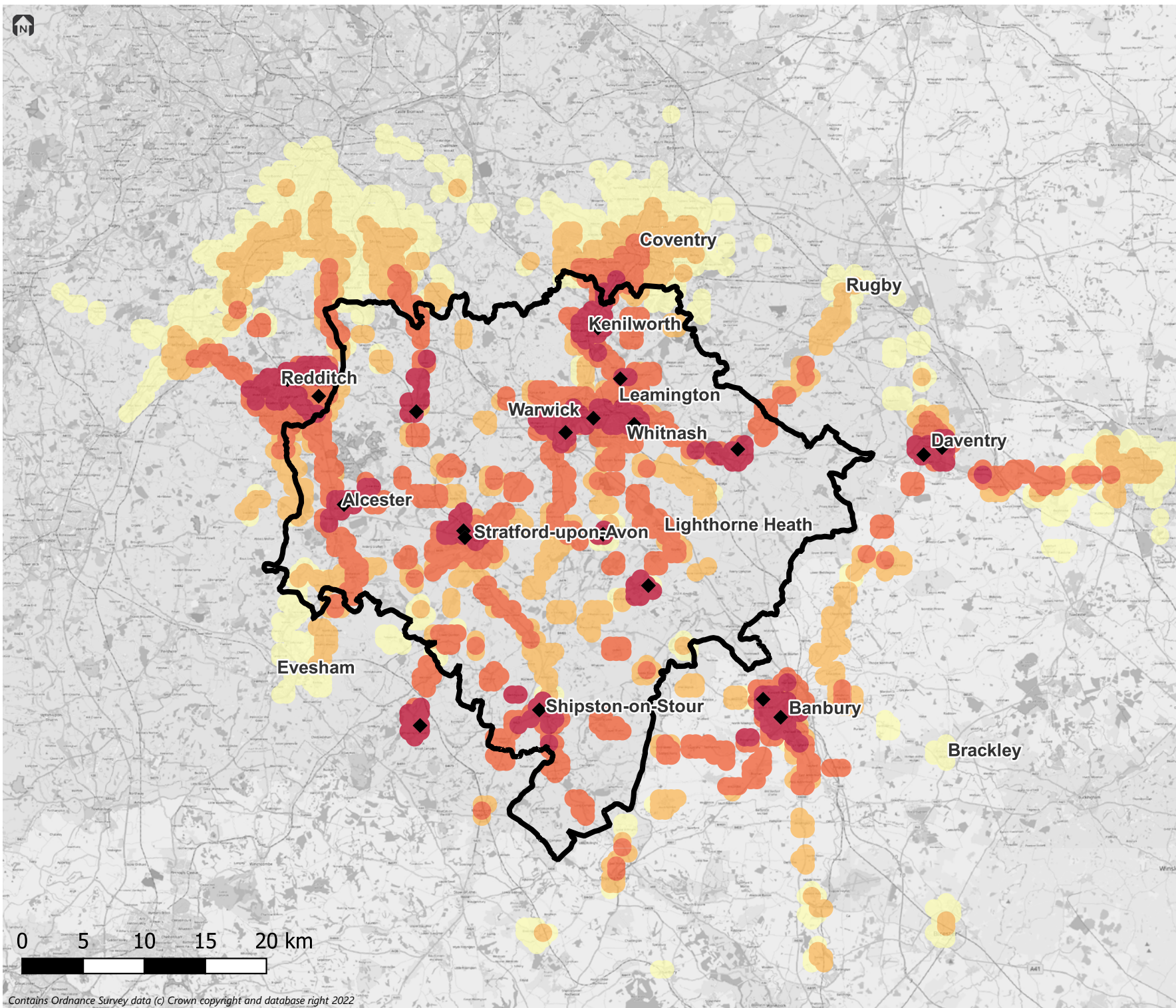
Figure title
Accessibility to GPs, Dentists and Pharmacies in the South Warwickshire region by public transport, weekday 7am-9am

Revision
A

Project number
3901

Figure number
Figure 1-5

Date
Apr 22



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Accessibility Mapping

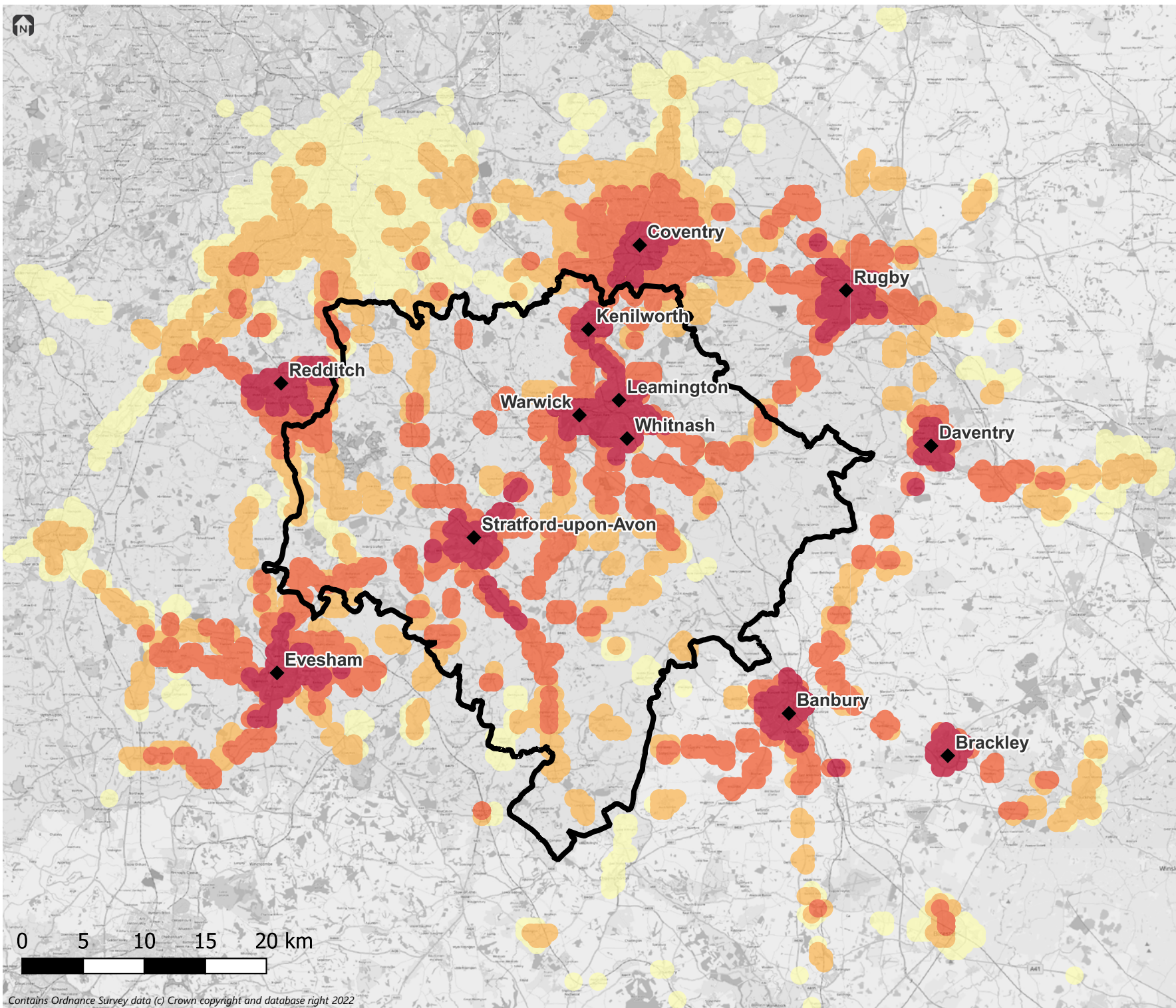
Figure title
Accessibility to Secondary
Schools and Colleges in the
South Warwickshire region by
public transport, weekday
7am-9am

Revision
A

Project number
3901

Figure number
Figure 1-4

Date
Apr 22



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Key

- ◆ Major Towns
- ▭ South Warwickshire Boundary

Travel Time (mins)

- 0-15
- 15-30
- 30-45
- 45-60



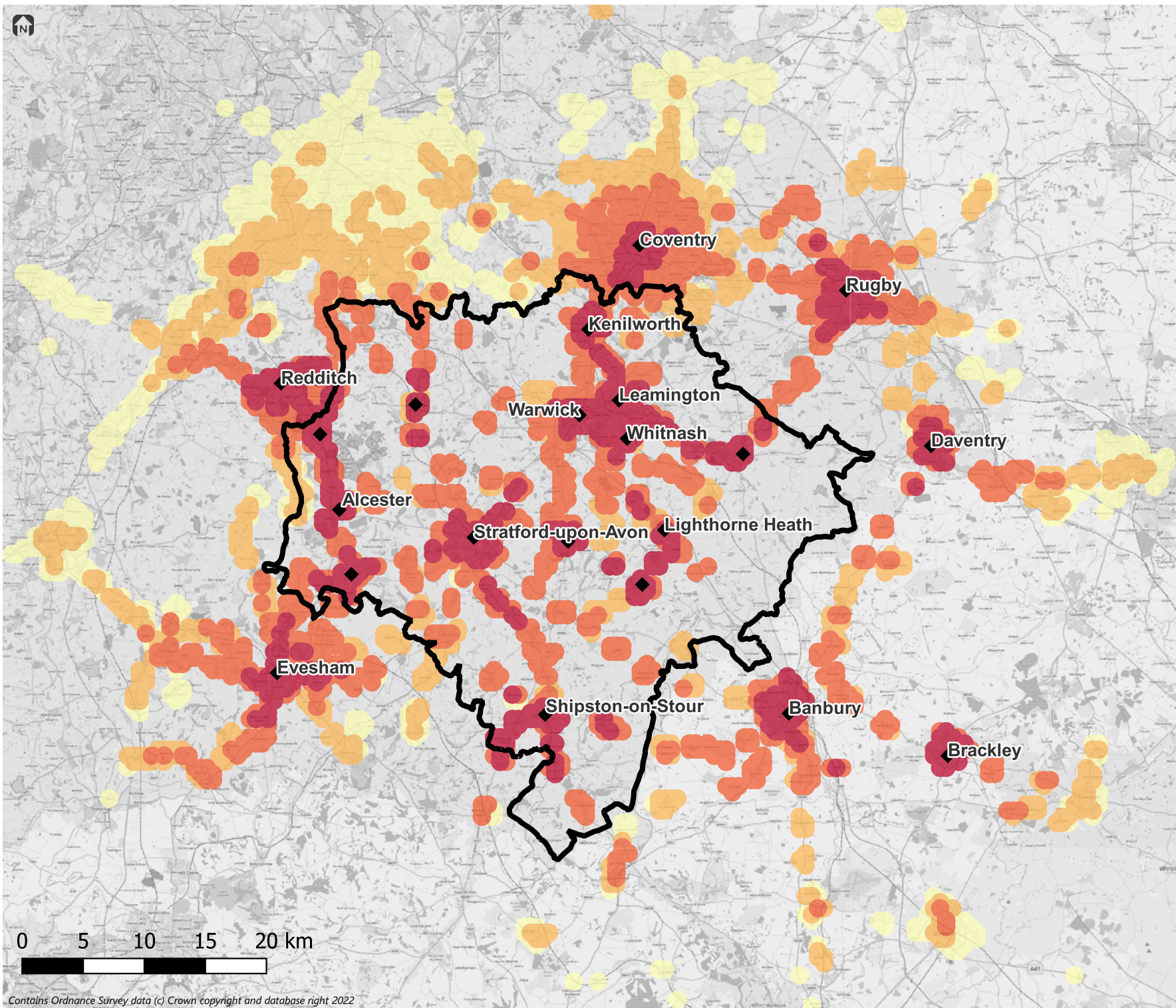
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Project
South Warwickshire Accessibility Mapping

Figure title
Access to Major Towns by public transport including future S106 enhancements, weekday 7am-9am

| | |
|--------------------------|---------------------|
| Revision A | Project number 3901 |
| Figure number Figure 2-2 | Date Apr 22 |



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Key

◆ Major and Minor
Towns

□ South
Warwickshire
Boundary

Travel Time (mins)

● 0-15

● 15-30

● 30-45

● 45-60



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Warwickshire County
Council

Project
South Warwickshire
Accessibility Mapping

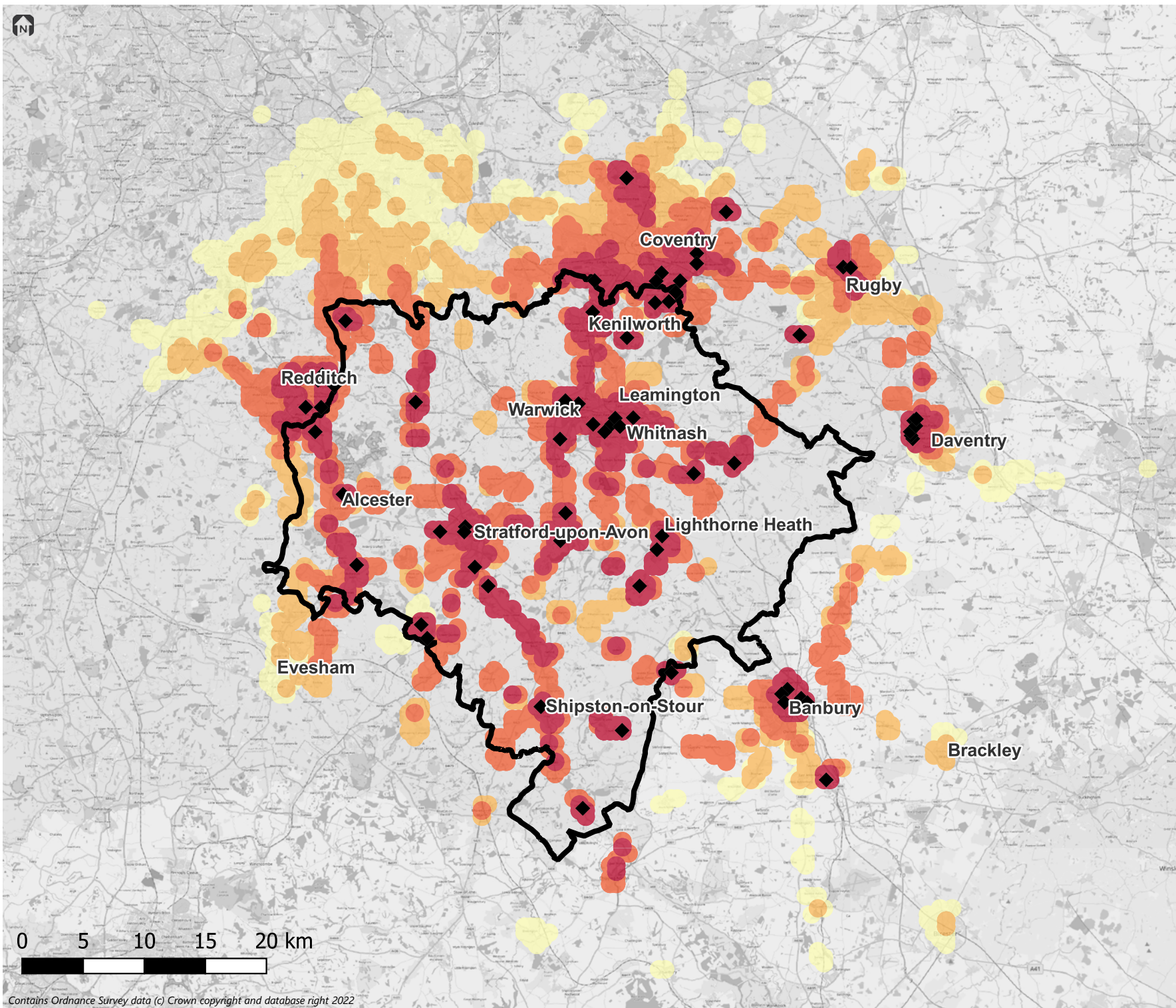
Figure title
Access to Major and Minor towns
by public transport including future
S106 enhancements, weekday
7am-9am

Revision
A

Figure number
Figure 2-3

Project number
3901

Date
Apr 22



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Key

- ◆ Employment Centres
- ▭ South Warwickshire Boundary

Travel Time (mins)

- 0-15
- 15-30
- 30-45
- 45-60



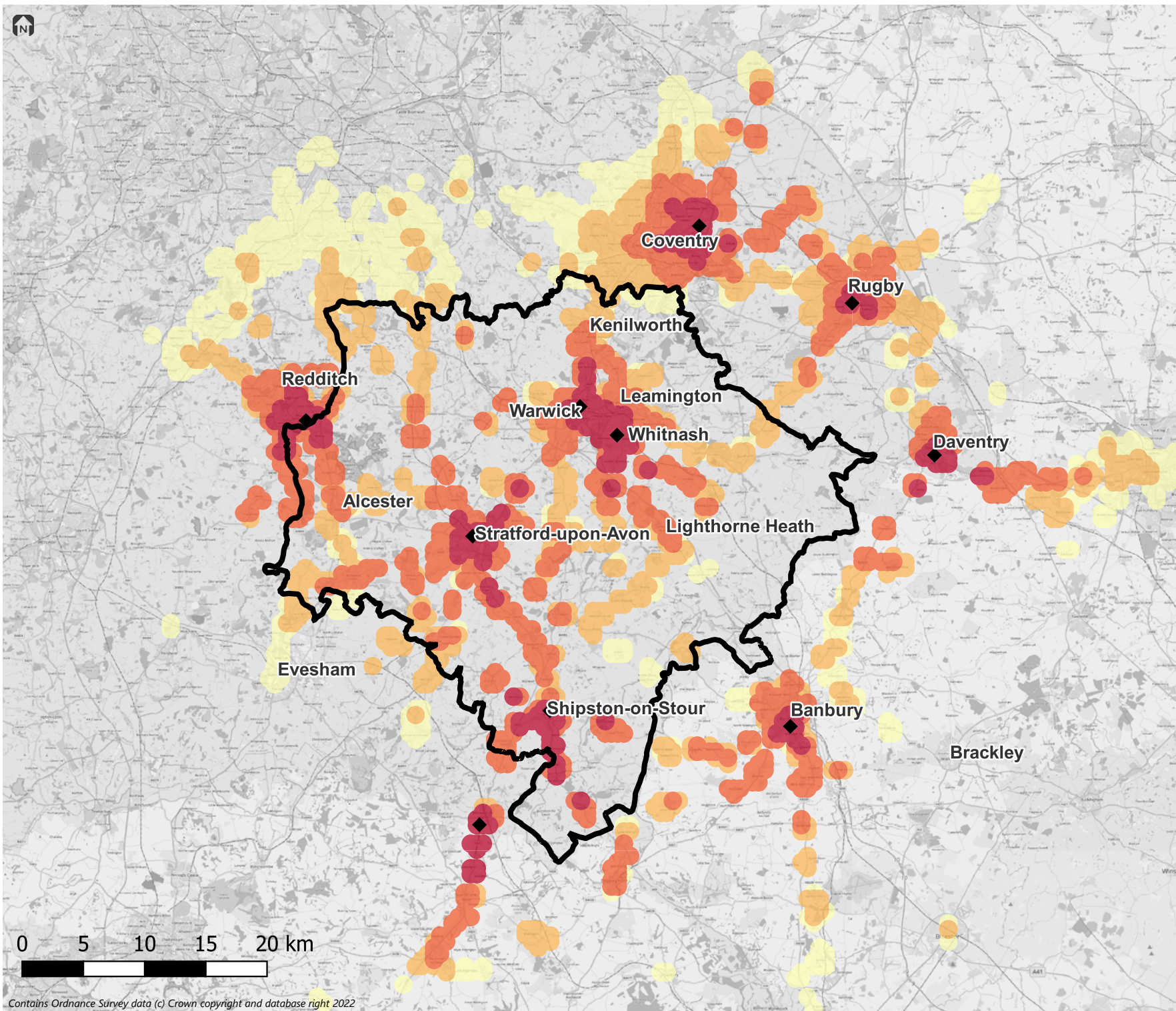
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Council

Project
South Warwickshire
Accessibility Mapping

Figure title
Access to Employment Centres by
public transport including future
S106 enhancements, weekday
7am-9am

| | |
|---------------|----------------|
| Revision | Project number |
| A | 3901 |
| Figure number | Date |
| Figure 2-6 | Apr 22 |



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Key

- ◆ Hospitals
- ▭ South Warwickshire Boundary

Travel Time (mins)

- 0-15
- 15-30
- 30-45
- 45-60

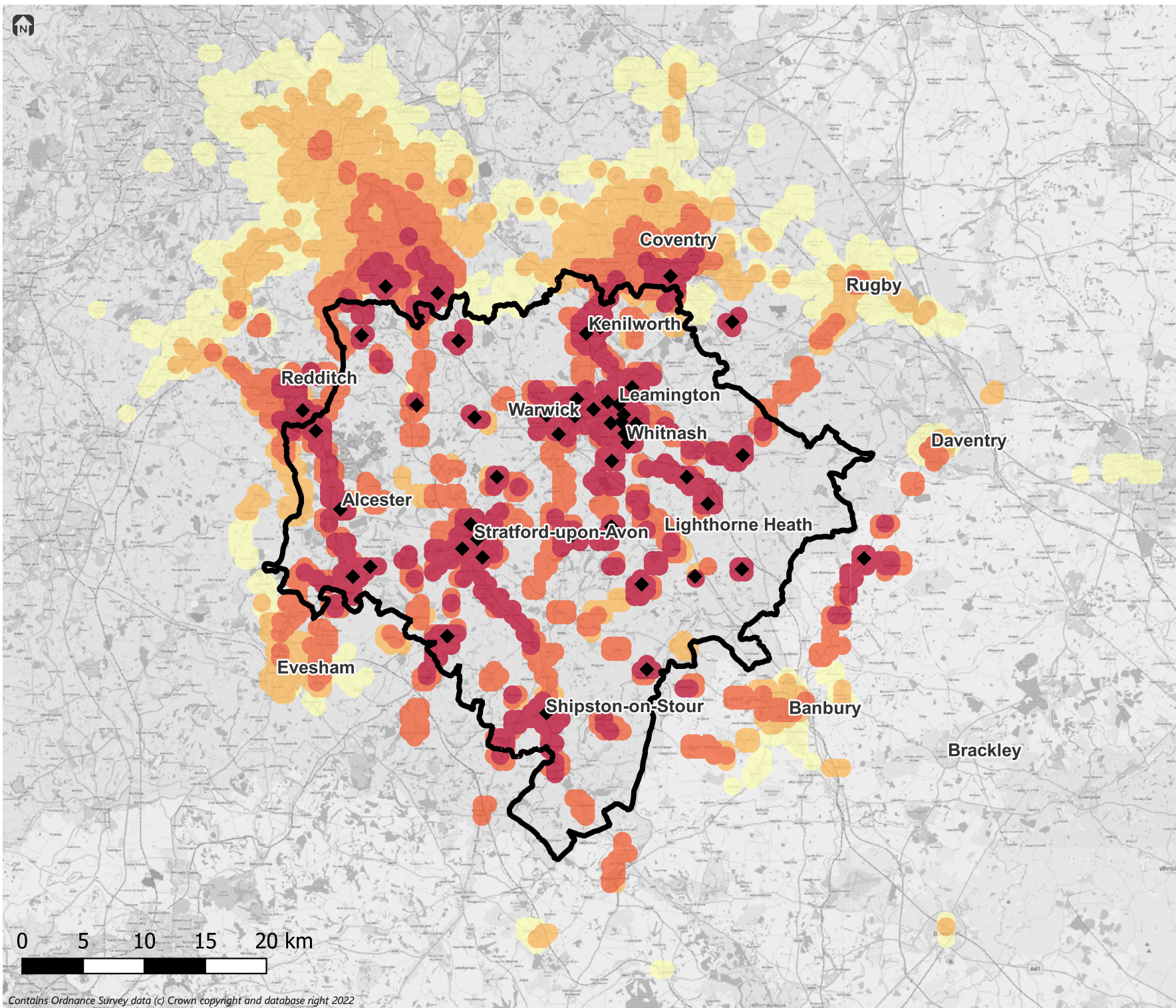


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Client
Warwickshire County Council

Project
South Warwickshire Accessibility Mapping

Figure title
Access to Hospitals by public transport including future S106 enhancements, weekday 7am-9am



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Key

◆ GPs, Dentists and Pharmacies

□ South Warwickshire Boundary

Travel Time (mins)

● 0-15

● 15-30

● 30-45

● 45-60



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Client
Warwickshire County Council

Project
South Warwickshire Accessibility Mapping

Figure title
Access to GPs, Dentists and Pharmacies by public transport including future S106 enhancements, weekday 7am-9am

Revision A Project number 3901

Figure number Date
Figure 2-5 Apr 22



Key

◆ Secondary
Schools &
Colleges

□ South
Warwickshire
Boundary

Travel Time (mins)

● 0-15
● 15-30
● 30-45
● 45-60



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Client
Warwickshire County
Council

Project
South Warwickshire
Accessibility Mapping

Figure title
Access to Secondary Schools and
Colleges by public transport
including future S106
enhancements, weekday
7am-9am

Revision
A

Figure number
Figure 2-4

Project number
3901

Date
Apr 22

