

THE INFLUENCE OF ACCESSIBILITY ON THE JOB SEARCH PROCESS

A Cognitive-Behavioural Study of  
Unemployed School leavers.

MAP SUPPLEMENT

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Thesis submitted for the Degree of Doctor of Philosophy  
at the University of Aston in Birmingham.

November 1982

# Vacancy discovery space and vacancy application space

- Vacancy discovery ellipse
- - - Vacancy application ellipse

Total 'City' sample

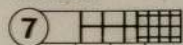


## Search activity space

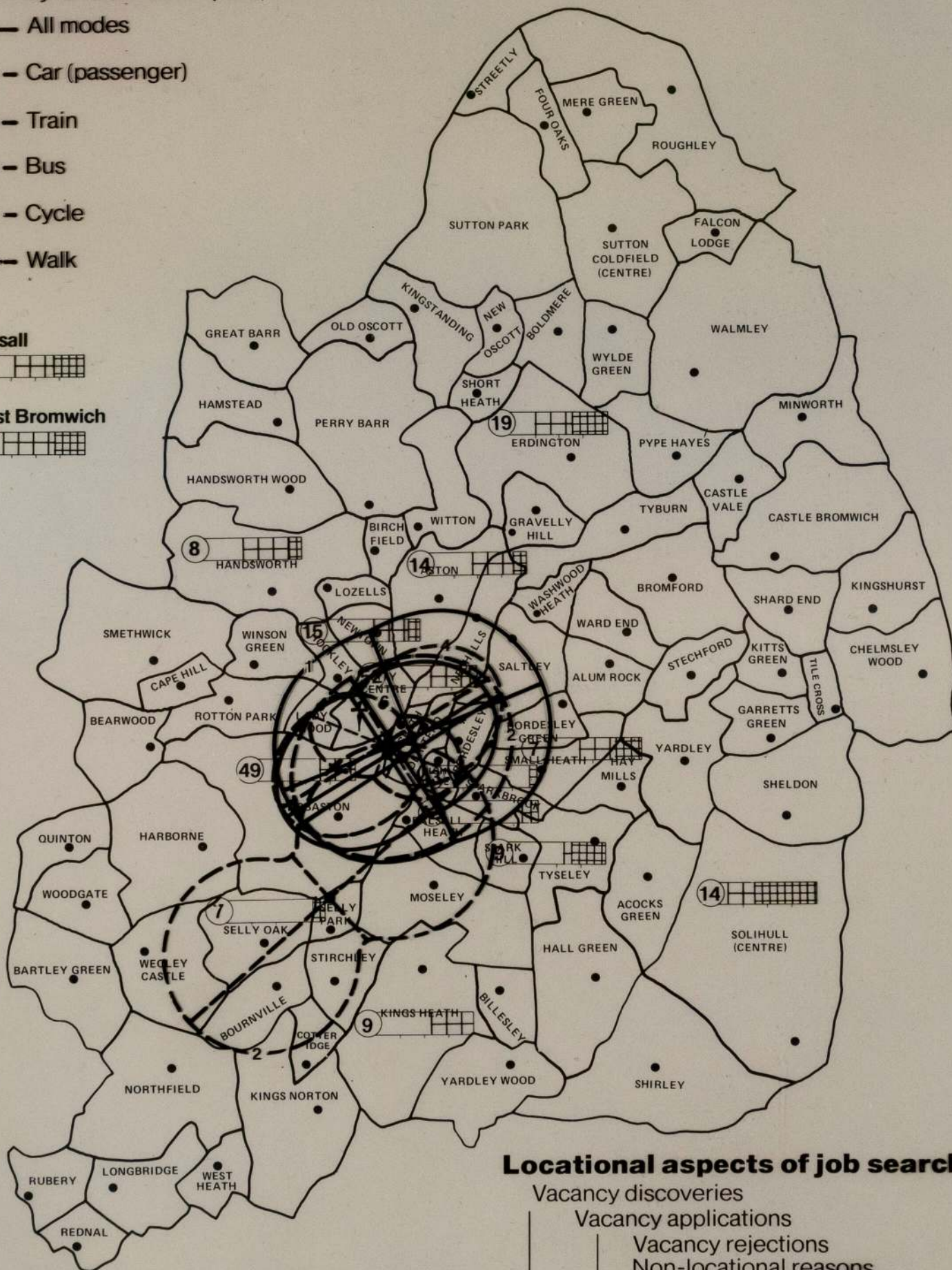
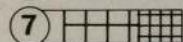
Journey to interview ellipses;

- All modes
- 2- Car (passenger)
- 3- Train
- 4- Bus
- 5- Cycle
- 6- Walk

Walsall

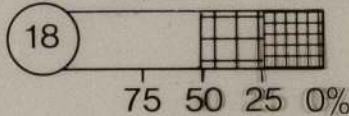


West Bromwich

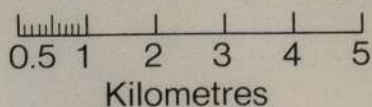


## Locational aspects of job search

- Vacancy discoveries
- Vacancy applications
- Vacancy rejections
- Non-locational reasons
- Locational reasons



† Home location \* City centre point



Total 'City' sample

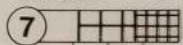


**Search activity space**

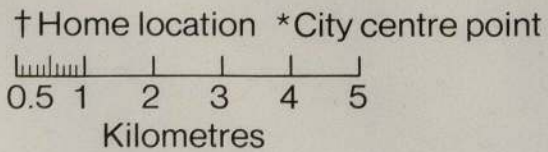
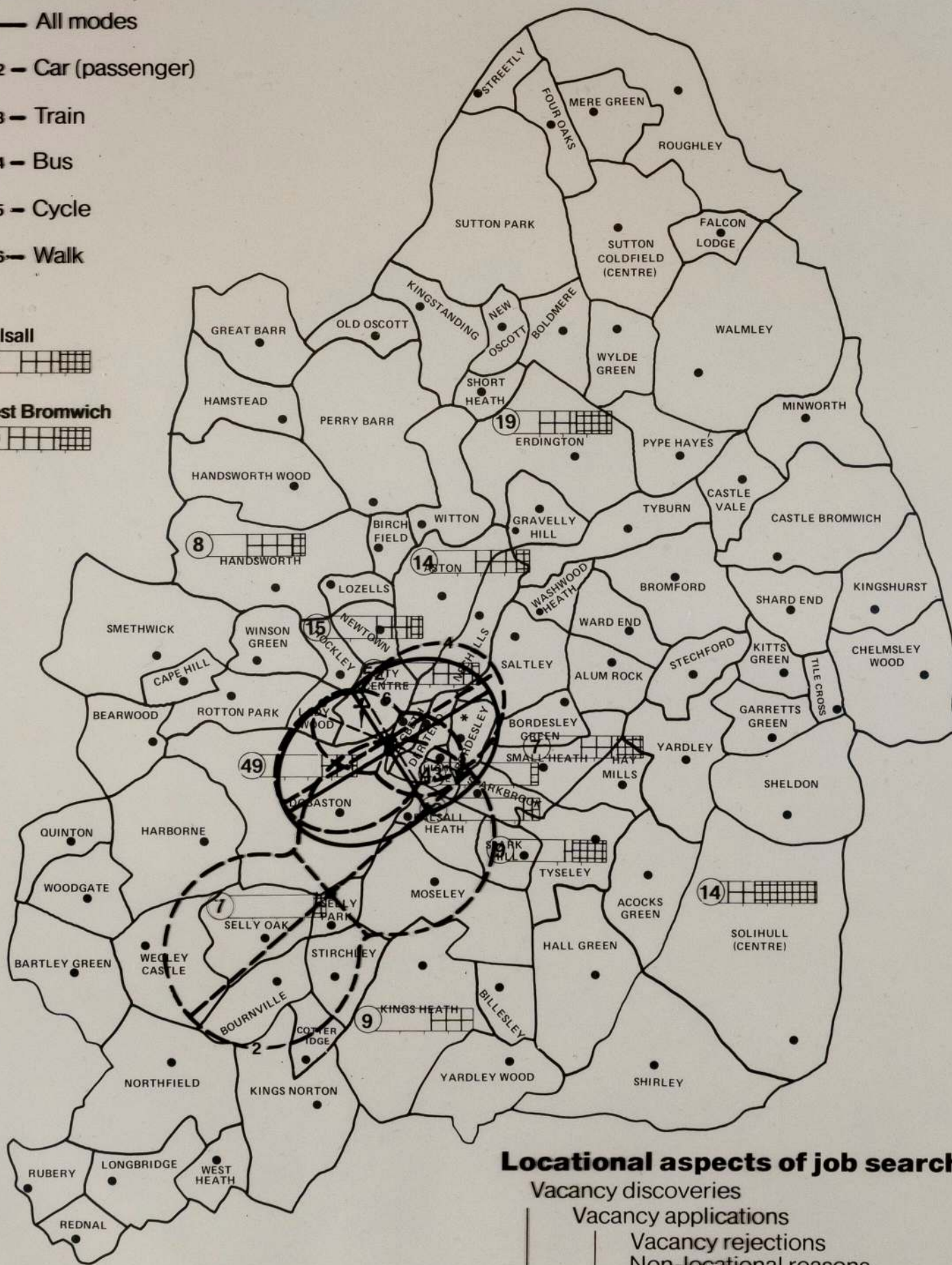
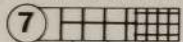
Journey to interview ellipses;

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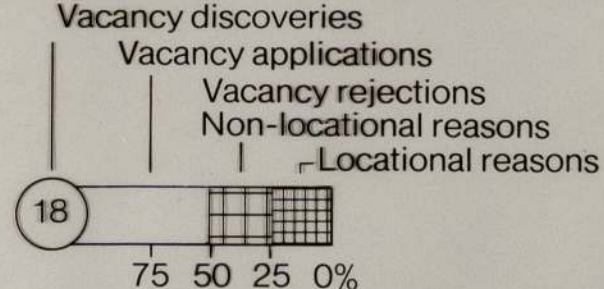
Walsall



West Bromwich



**Locational aspects of job search**



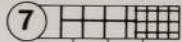
Total 'City' sample



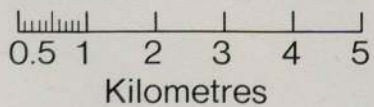
Walsall



West Bromwich

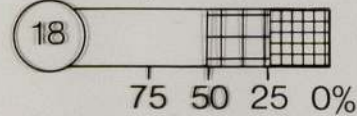


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Locational aspects of job search

- Vacancy discoveries
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- Locational reasons



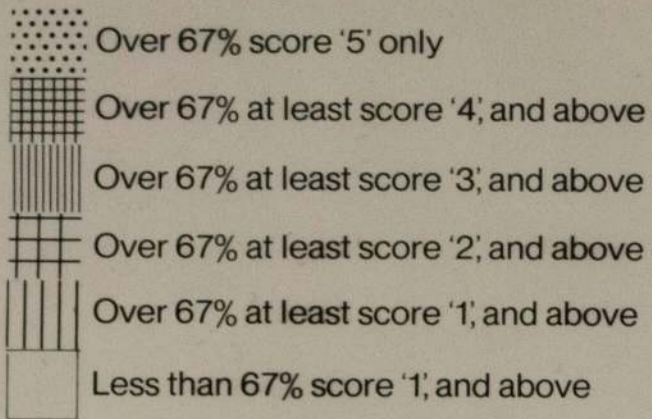
Total 'City' sample



† Home location \* City centre point  
0.5 1 2 3 4 5  
Kilometres

TOTAL CITY  
SAMPLE

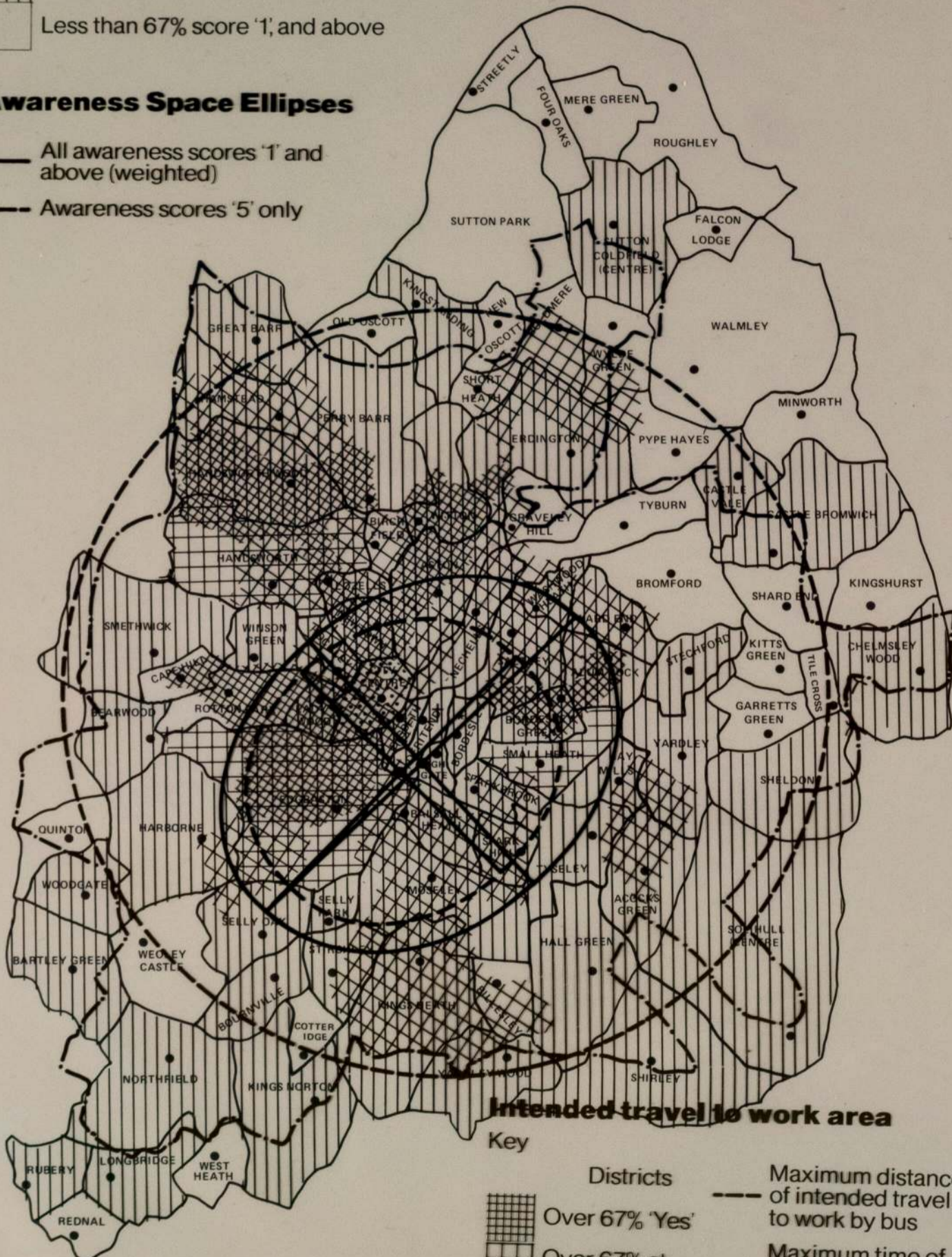
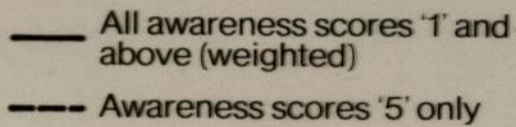
# Awareness of Birmingham



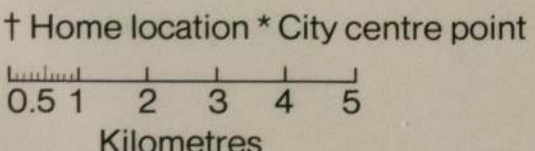
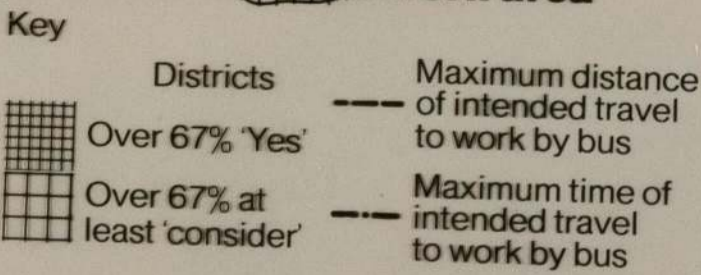
Total 'City' sample



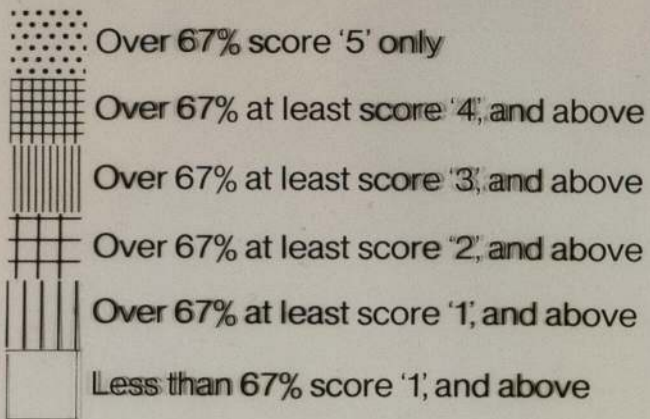
## Awareness Space Ellipses



### Intended travel to work area



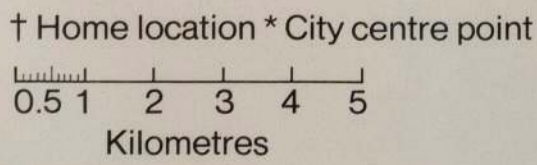
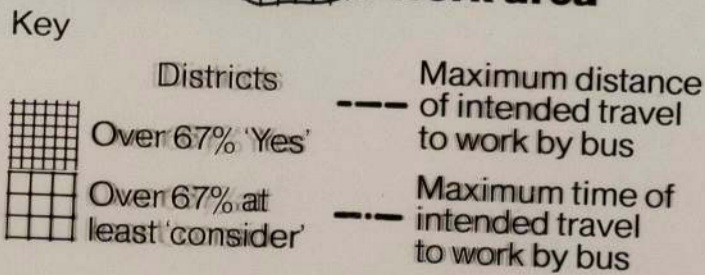
# Awareness of Birmingham



Total 'City' sample

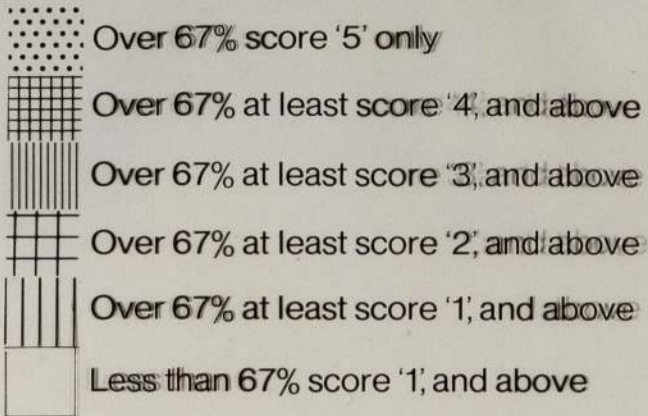


## Intended travel to work area





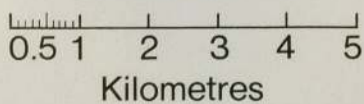
# Awareness of Birmingham



Total 'City' sample



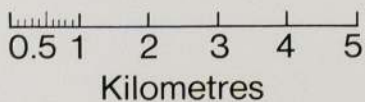
† Home location \* City centre point



Total 'City' sample

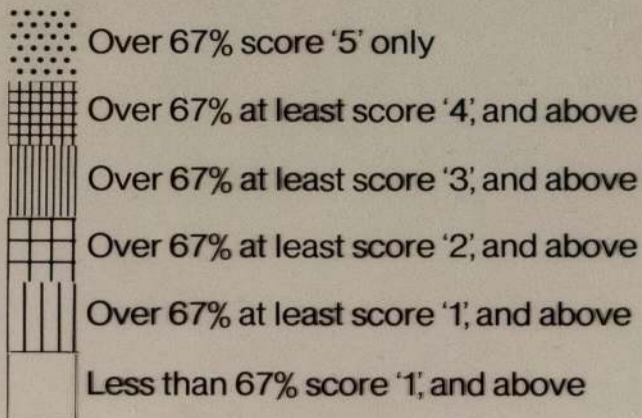


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WEST  
CORE

# Awareness of Birmingham



## West Core

### Awareness Space Ellipses

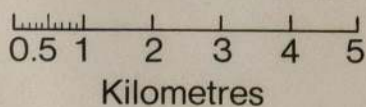
- All awareness scores '1' and above (weighted)
- Awareness scores '5' only









### Intended travel to work area

- Key
- Districts
  - Over 67% 'Yes'
  - Over 67% at least 'consider'
  - Maximum distance of intended travel to work by bus
  - Maximum time of intended travel to work by bus

† Home location \*City centre point



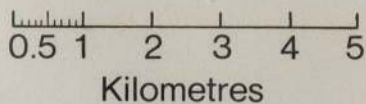
# Awareness of Birmingham

-  Over 67% score '5' only
-  Over 67% at least score '4', and above
-  Over 67% at least score '3', and above
-  Over 67% at least score '2', and above
-  Over 67% at least score '1', and above
-  Less than 67% score '1', and above



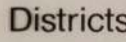
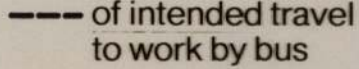
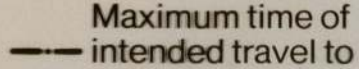
## West Core



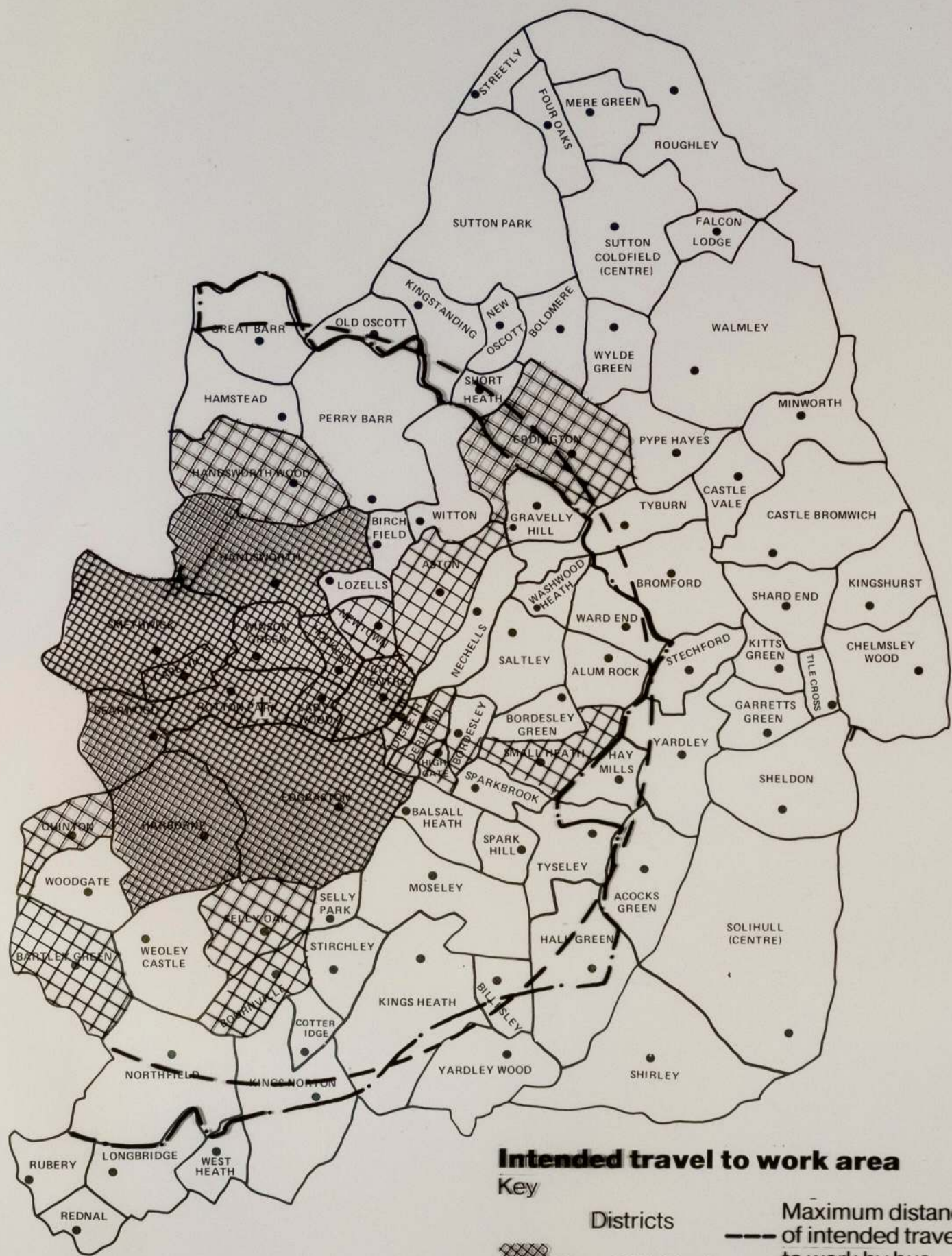
† Home location \*City centre point



## Intended travel to work area

- Key
-  Over 67% 'Yes'
  -  Over 67% at least 'consider'
  -  Districts
  -  Maximum distance of intended travel to work by bus
  -  Maximum time of intended travel to work by bus

# West Core

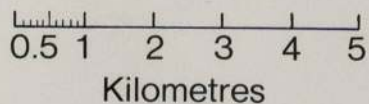


## Intended travel to work area

Key

- |   |  |
|---|--|
| <p>Districts</p> <ul style="list-style-type: none"> <li> Over 67% 'Yes'</li> <li> Over 67% at least 'consider'</li> </ul> | <ul style="list-style-type: none"> <li> Maximum distance of intended travel to work by bus</li> <li> Maximum time of intended travel to work by bus</li> </ul> |
|---|--|

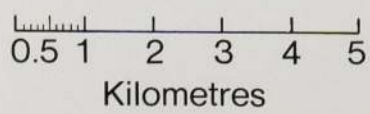
† Home location \*City centre point



# West Core



† Home location \*City centre point



# Vacancy discovery space and vacancy application space

- Vacancy discovery ellipse
- Vacancy application ellipse

West Core

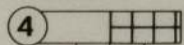


## Search activity space

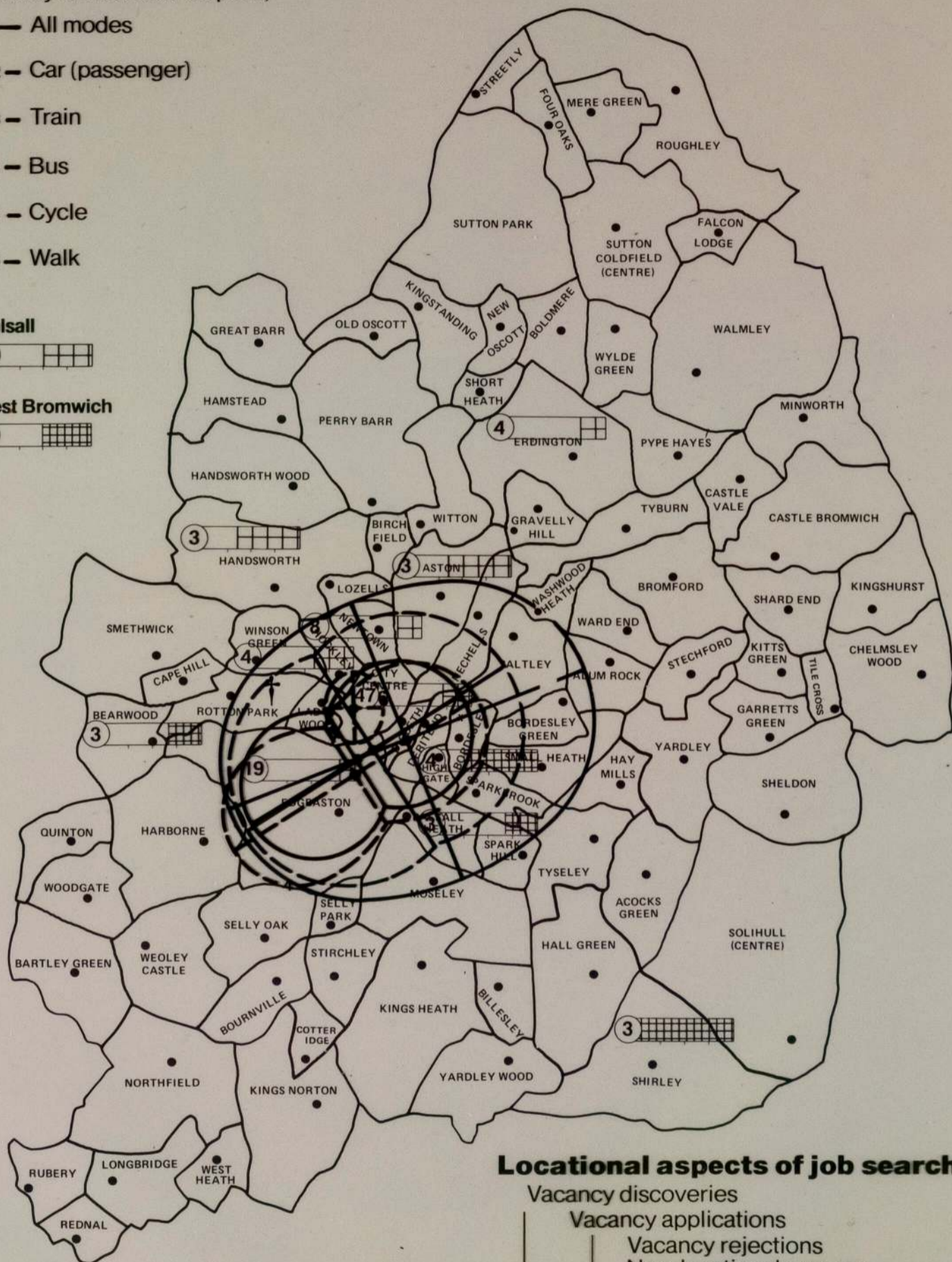
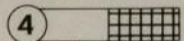
Journey to interview ellipses;

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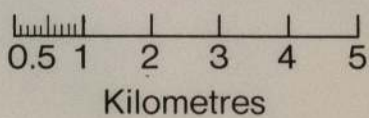
Walsall



West Bromwich

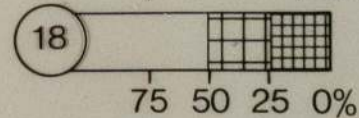


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## Locational aspects of job search

- Vacancy discoveries
- Vacancy applications
- Vacancy rejections
- Non-local reasons
- Locational reasons

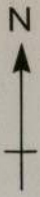




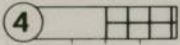
# Vacancy discovery space and vacancy application space

— Vacancy discovery ellipse  
 - - - Vacancy application ellipse

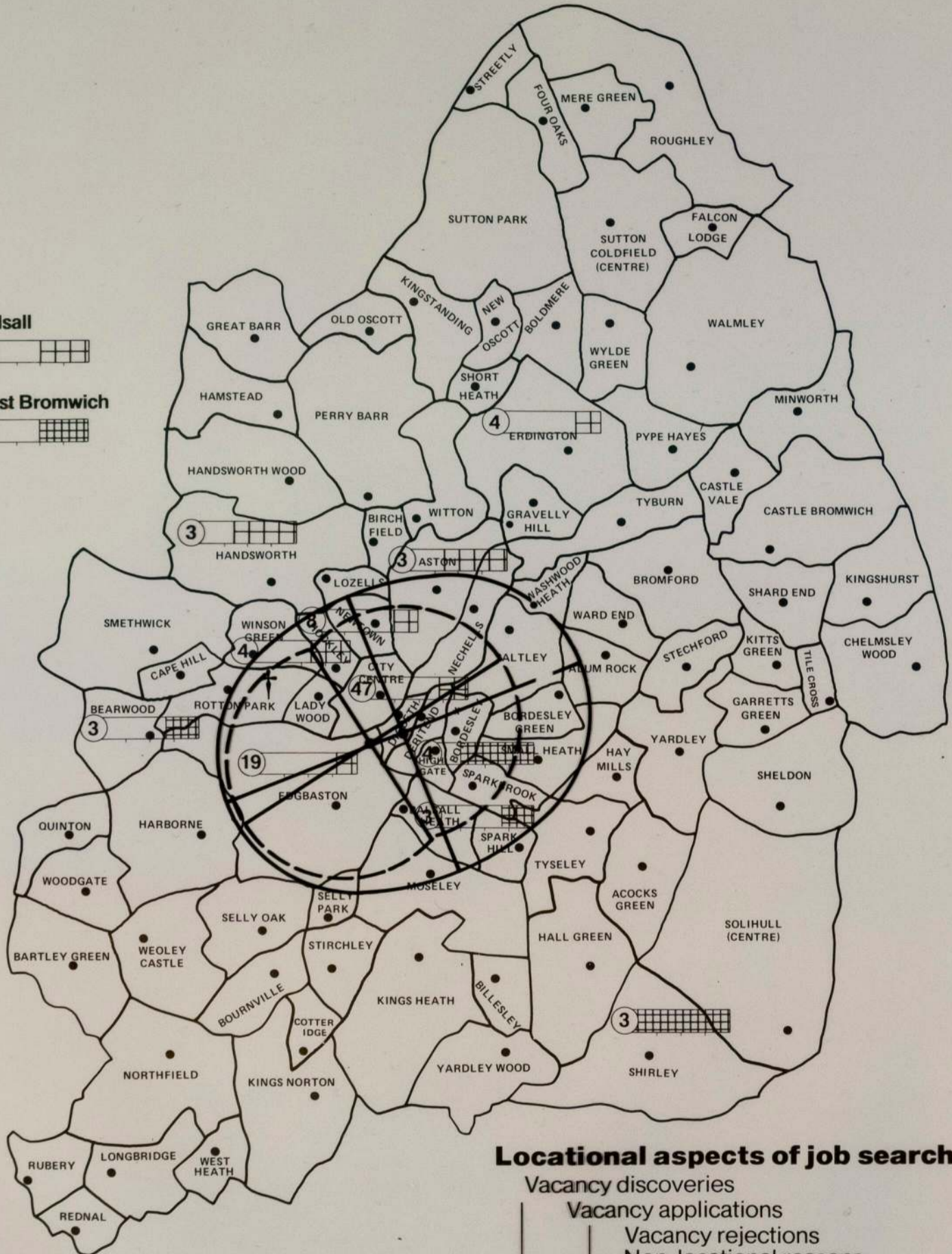
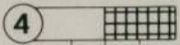
West Core



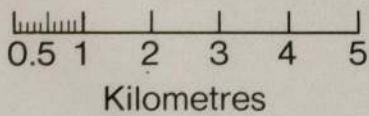
Walsall



West Bromwich

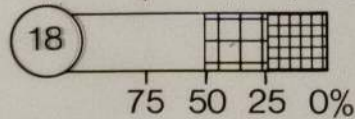


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## Locational aspects of job search

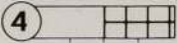
Vacancy discoveries  
 Vacancy applications  
 Vacancy rejections  
 Non-locational reasons  
 Locational reasons



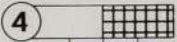
# West Core



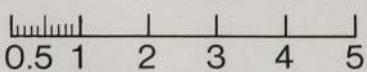
Walsall



West Bromwich



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Kilometres

## Locational aspects of job search

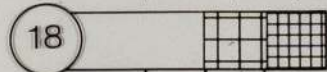
Vacancy discoveries

Vacancy applications

Vacancy rejections

Non-local reasons

Locational reasons

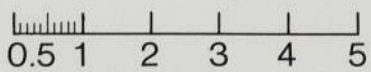


75 50 25 0%

# West Core



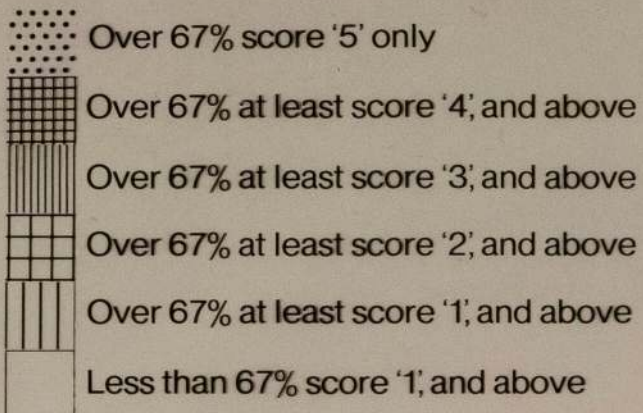
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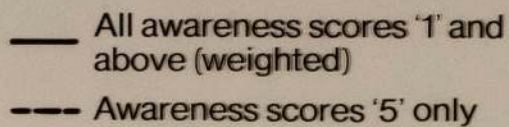
Kilometres

SOUTH  
CORE

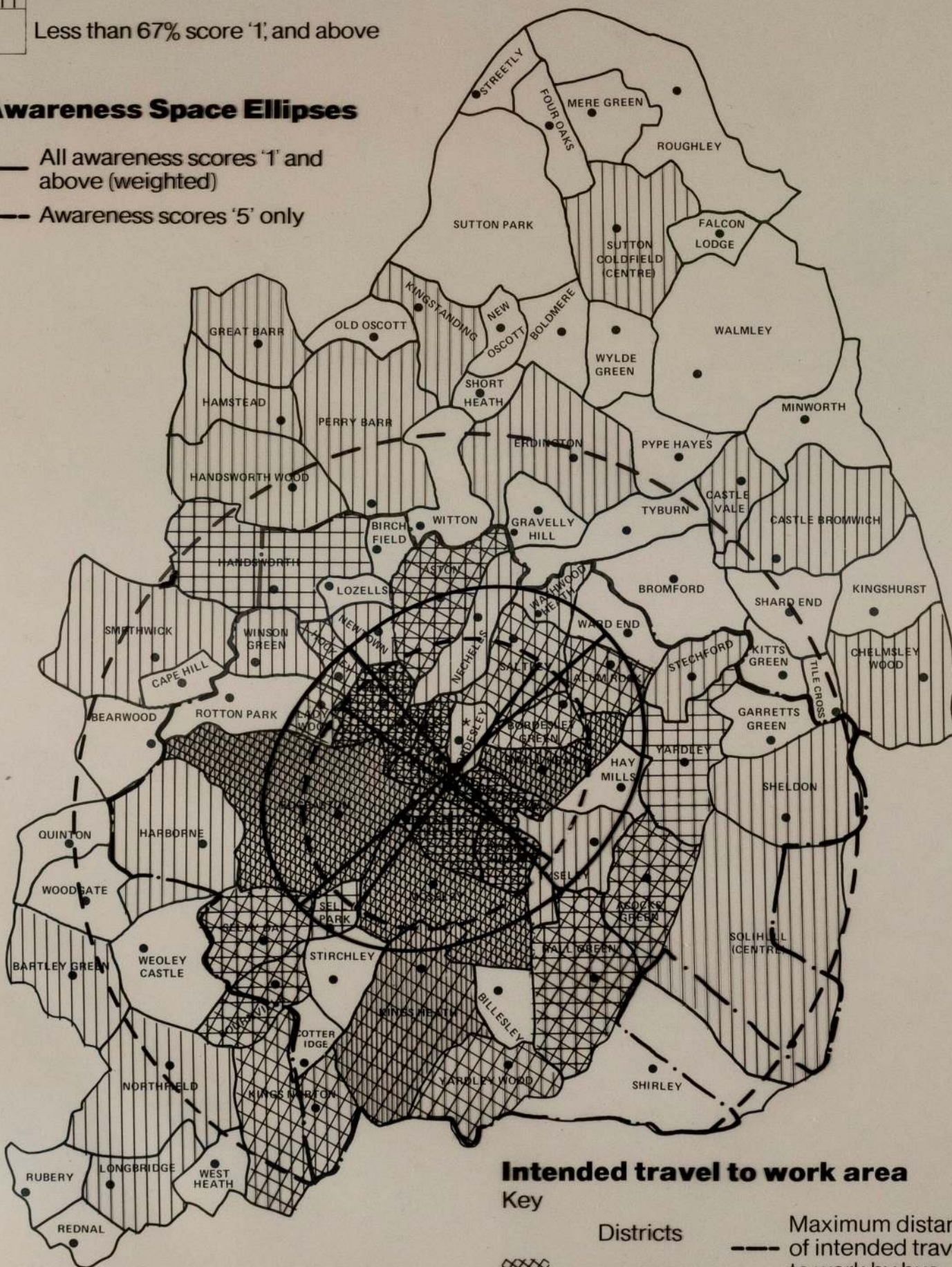
## Awareness of Birmingham



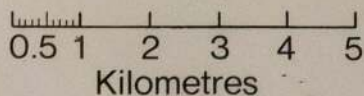
## Awareness Space Ellipses



South Core

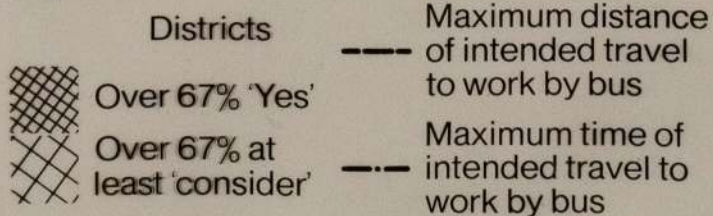


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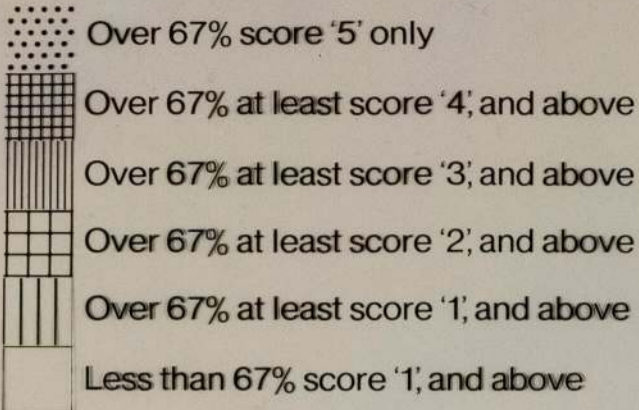


## Intended travel to work area

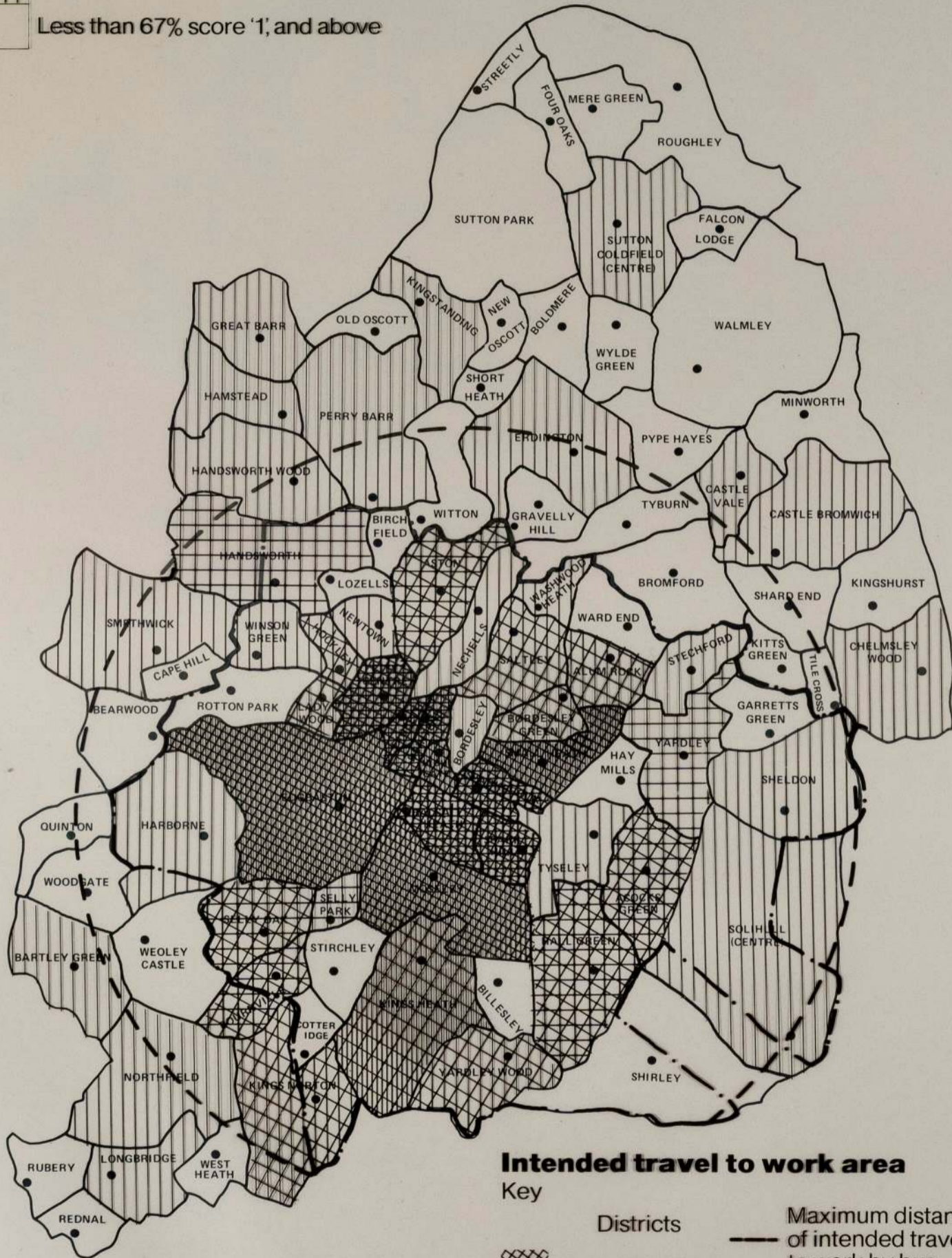
Key



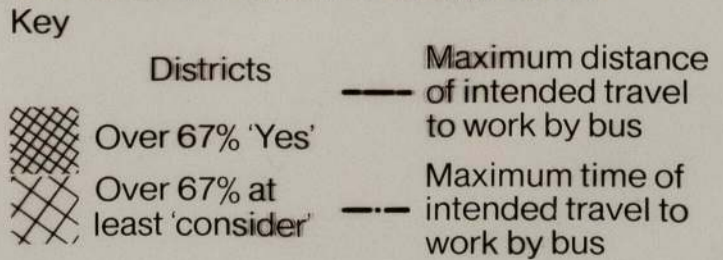
# Awareness of Birmingham



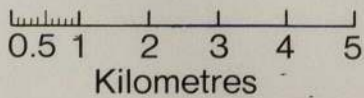
South Core



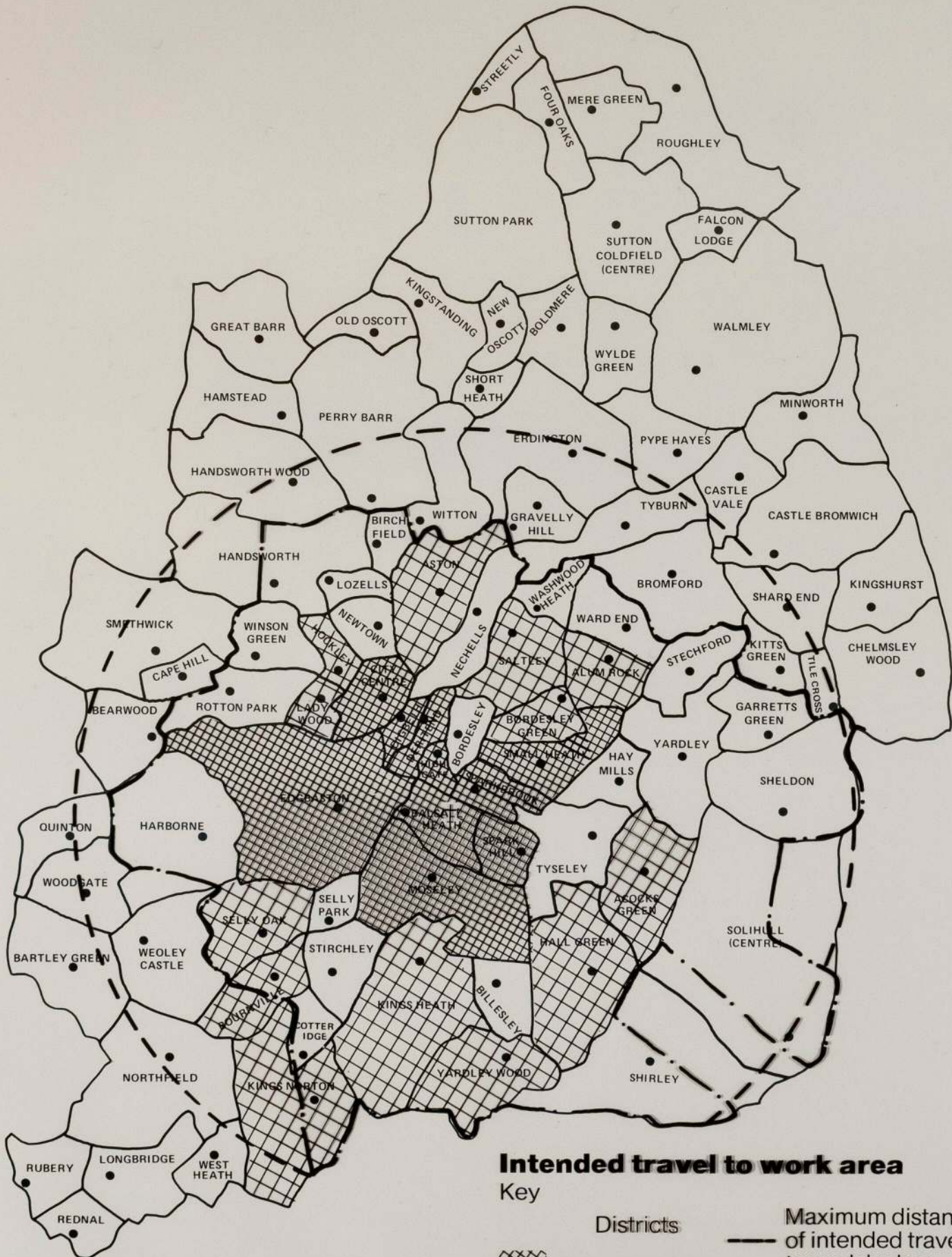
## Intended travel to work area



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# South Core





## Intended travel to work area

Key

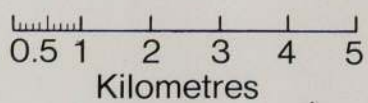
Districts

-  Over 67% 'Yes'
-  Over 67% at least 'consider'

 Maximum distance of intended travel to work by bus

 Maximum time of intended travel to work by bus

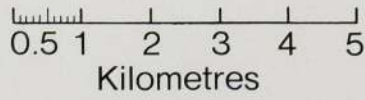
† Home location \*City centre point



# South Core



† Home location \*City centre point





# Vacancy discovery space and vacancy application space

- Vacancy discovery ellipse
- Vacancy application ellipse

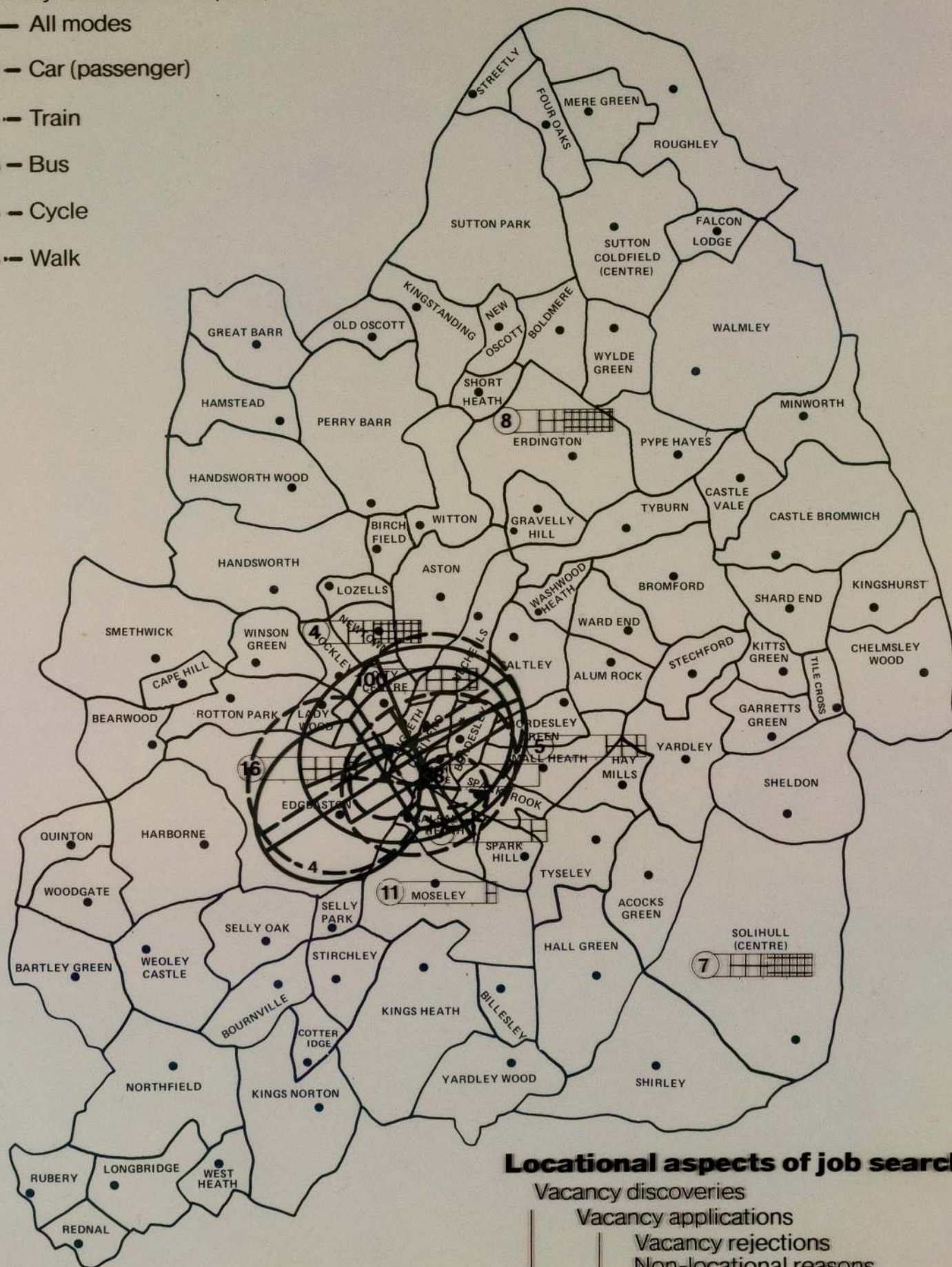
South Core



## Search activity space

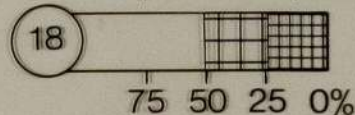
Journey to interview ellipses;

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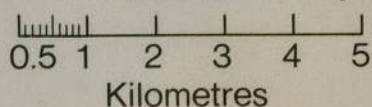


### Locational aspects of job search

- Vacancy discoveries
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# Vacancy discovery space and vacancy application space

- Vacancy discovery ellipse
- Vacancy application ellipse

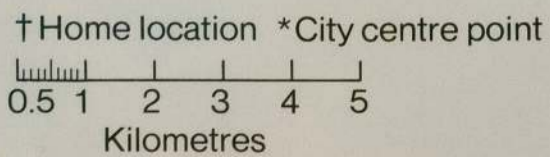
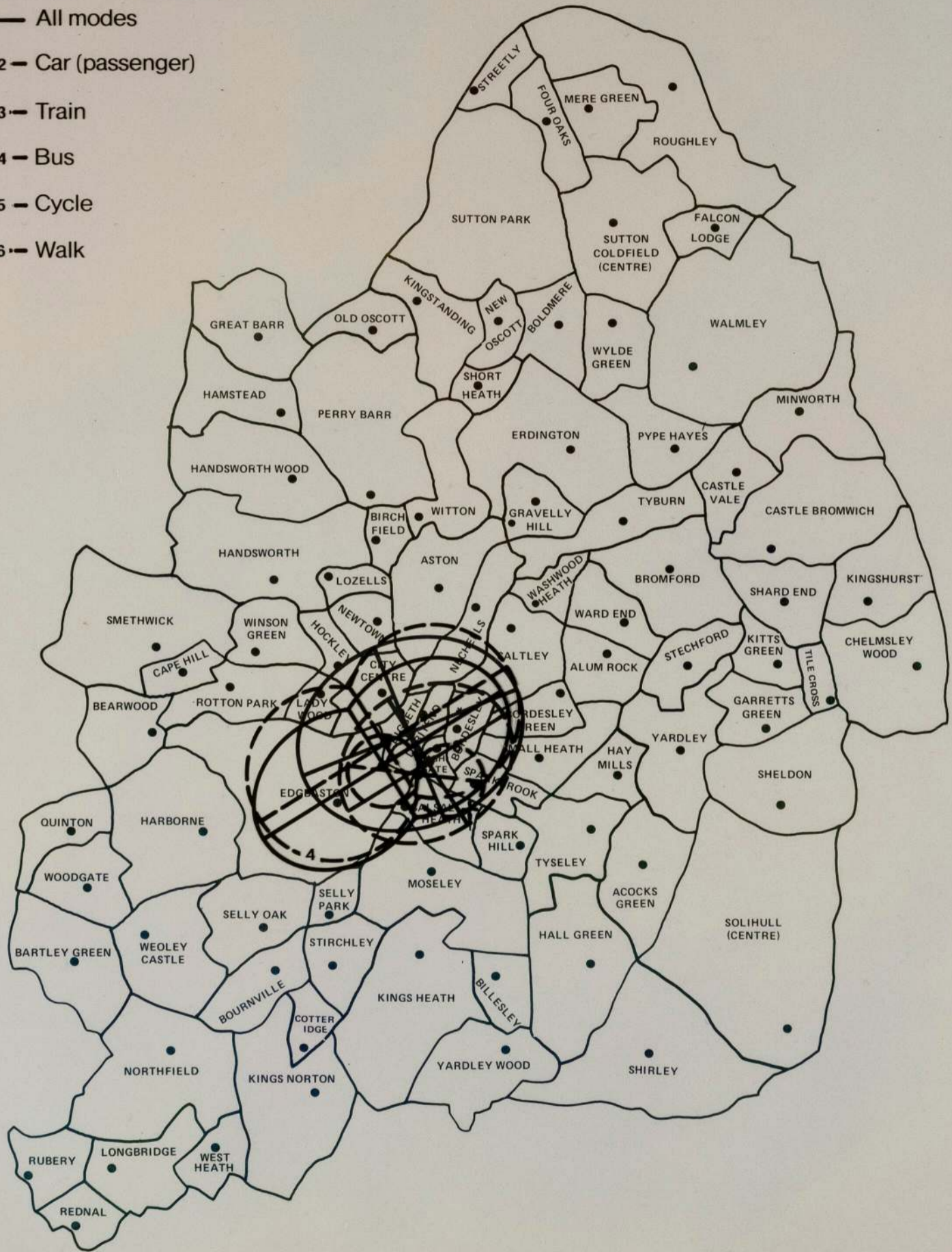
South Core



## Search activity space

Journey to interview ellipses;

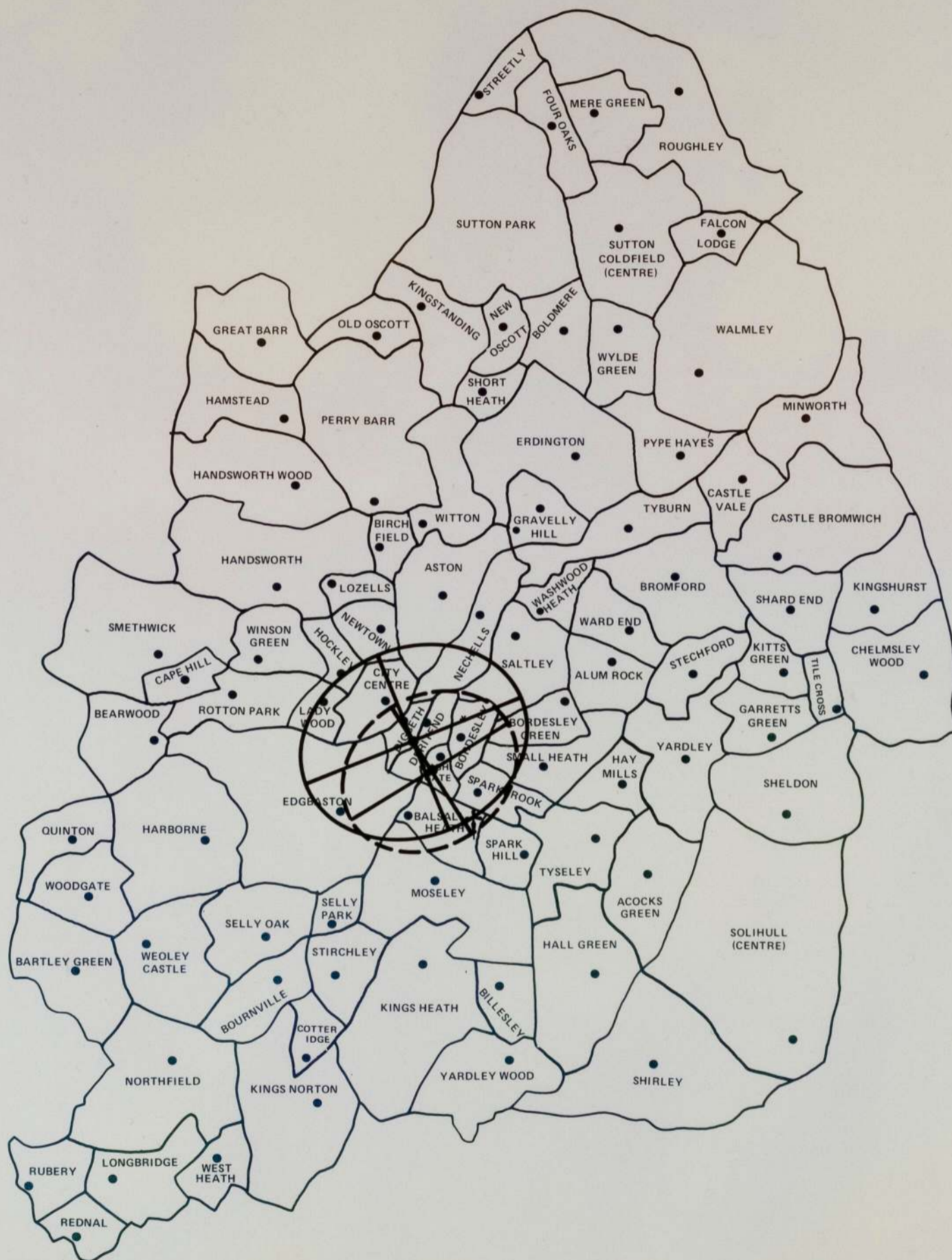
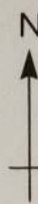
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# Vacancy discovery space and vacancy application space

- Vacancy discovery ellipse
- - - Vacancy application ellipse

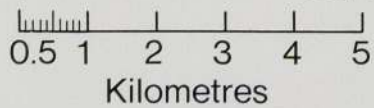
South Core



† Home location \* City centre point

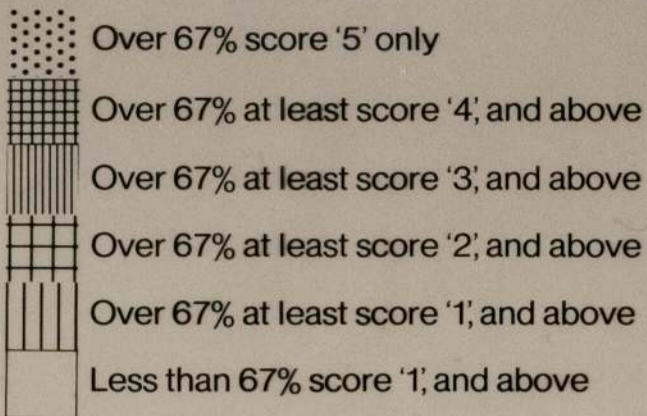
0.5 1 2 3 4 5  
Kilometres

# South Core

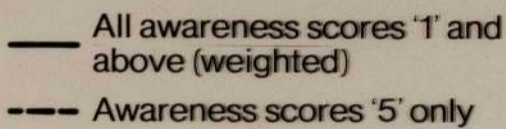


EAST  
CORE

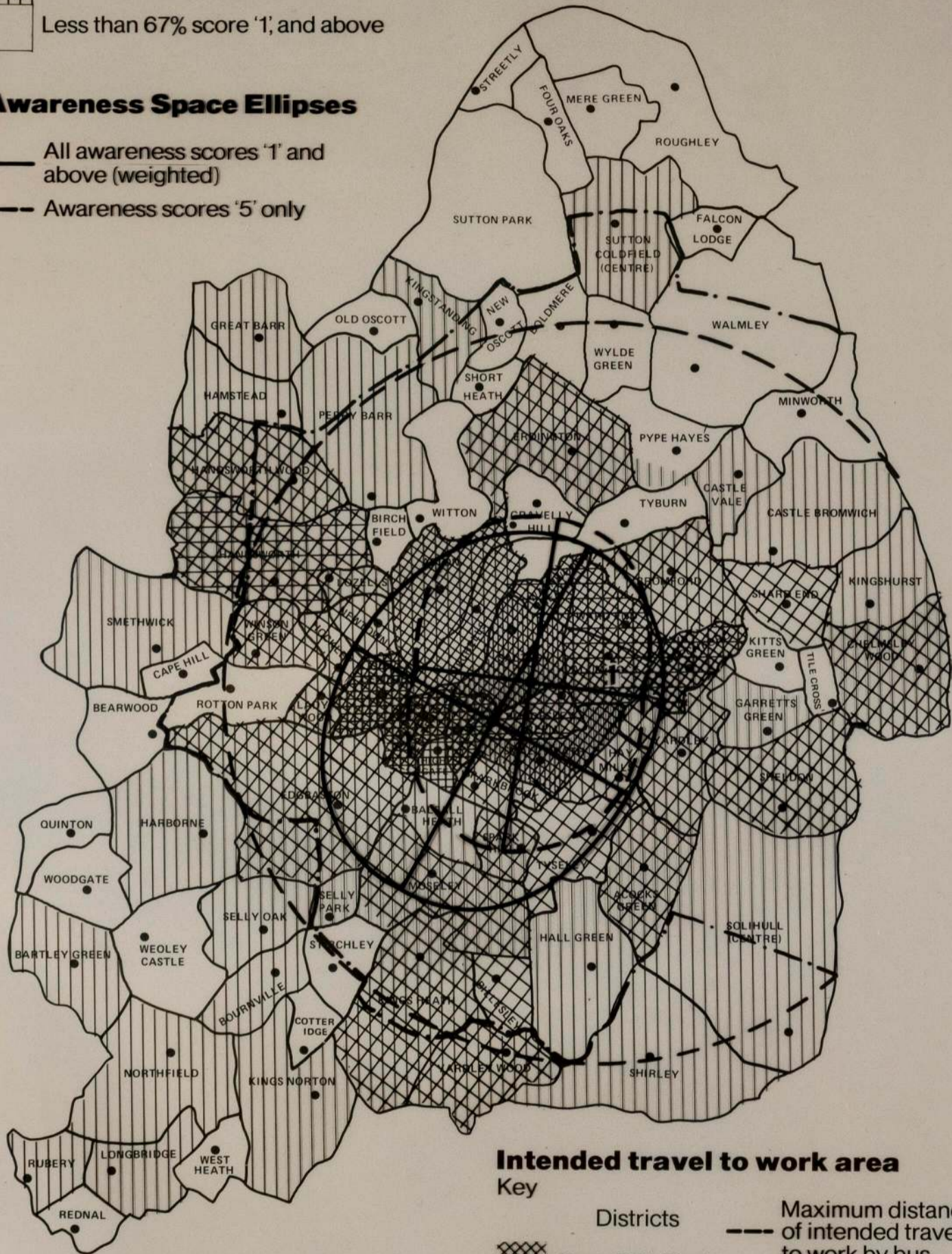
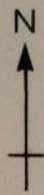
# Awareness of Birmingham



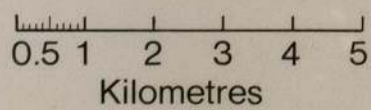
# Awareness Space Ellipses



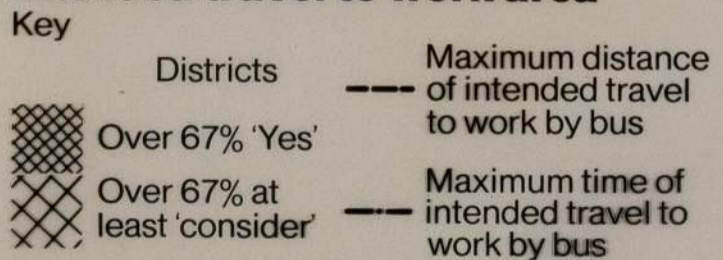
East Core



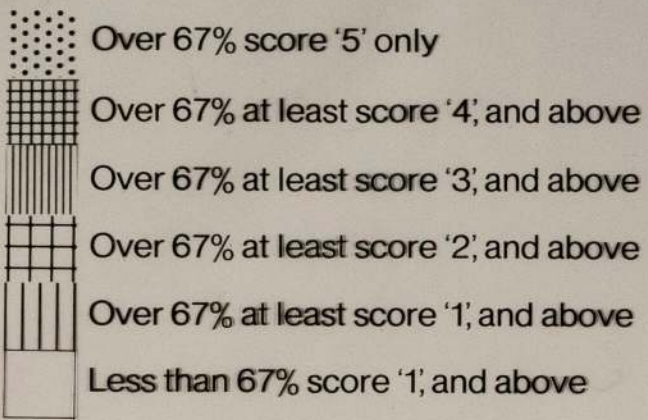
† Home location \* City centre point



# Intended travel to work area



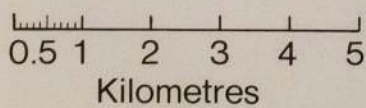
# Awareness of Birmingham



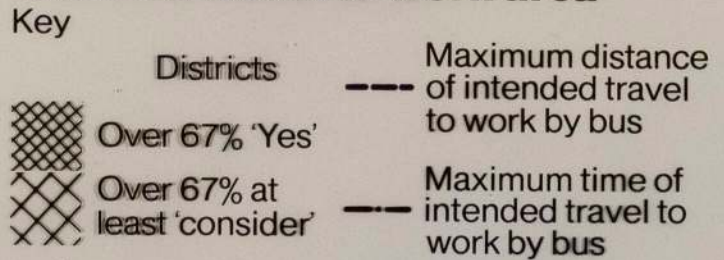
## East Core



† Home location \* City centre point



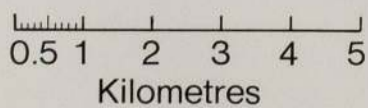
### Intended travel to work area



# East Core



† Home location \* City centre point



## Intended travel to work area

Key

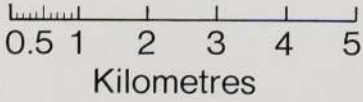
- |   |   |
|---|---|
| <p>Over 67% 'Yes'</p> <p>Over 67% at least 'consider'</p> | <p>Maximum distance of intended travel to work by bus</p> <p>Maximum time of intended travel to work by bus</p> |
|---|---|



# East Core



† Home location \* City centre point



# Vacancy discovery space and vacancy application space

- Vacancy discovery ellipse
- - - Vacancy application ellipse

East Core

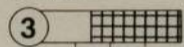


## Search activity space

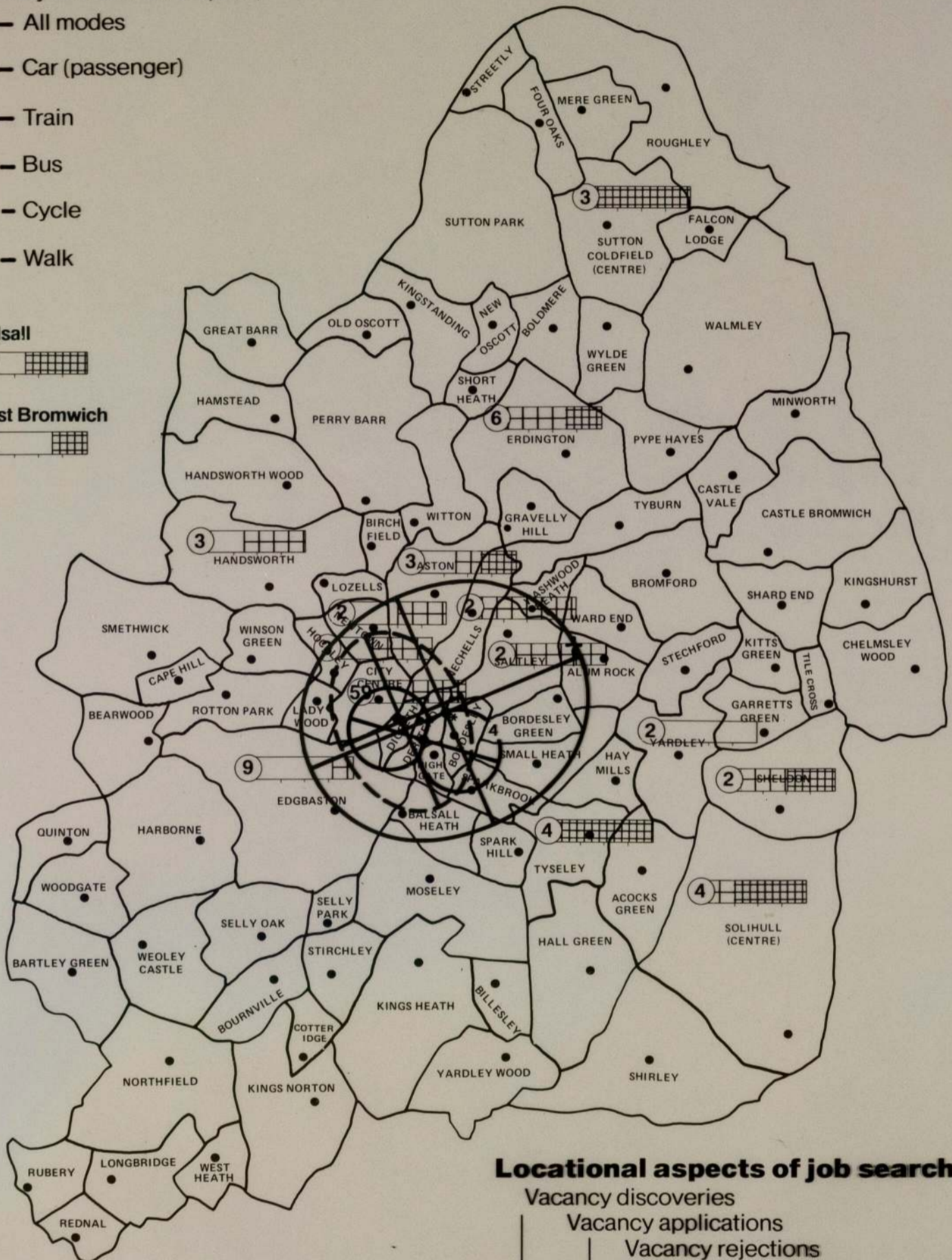
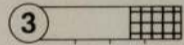
Journey to interview ellipses;

- All modes
- 2 - Car (passenger)
- 3 - Train
- 4 - Bus
- 5 - Cycle
- 6 - Walk

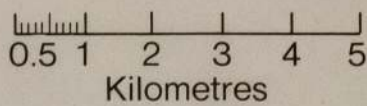
Walsall



West Bromwich

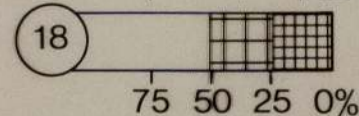


† Home location \* City centre point



## Locational aspects of job search

- Vacancy discoveries
- Vacancy applications
- Vacancy rejections
- Non-local reasons
- Locational reasons



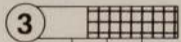
# Vacancy discovery space and vacancy application space

— Vacancy discovery ellipse  
 --- Vacancy application ellipse

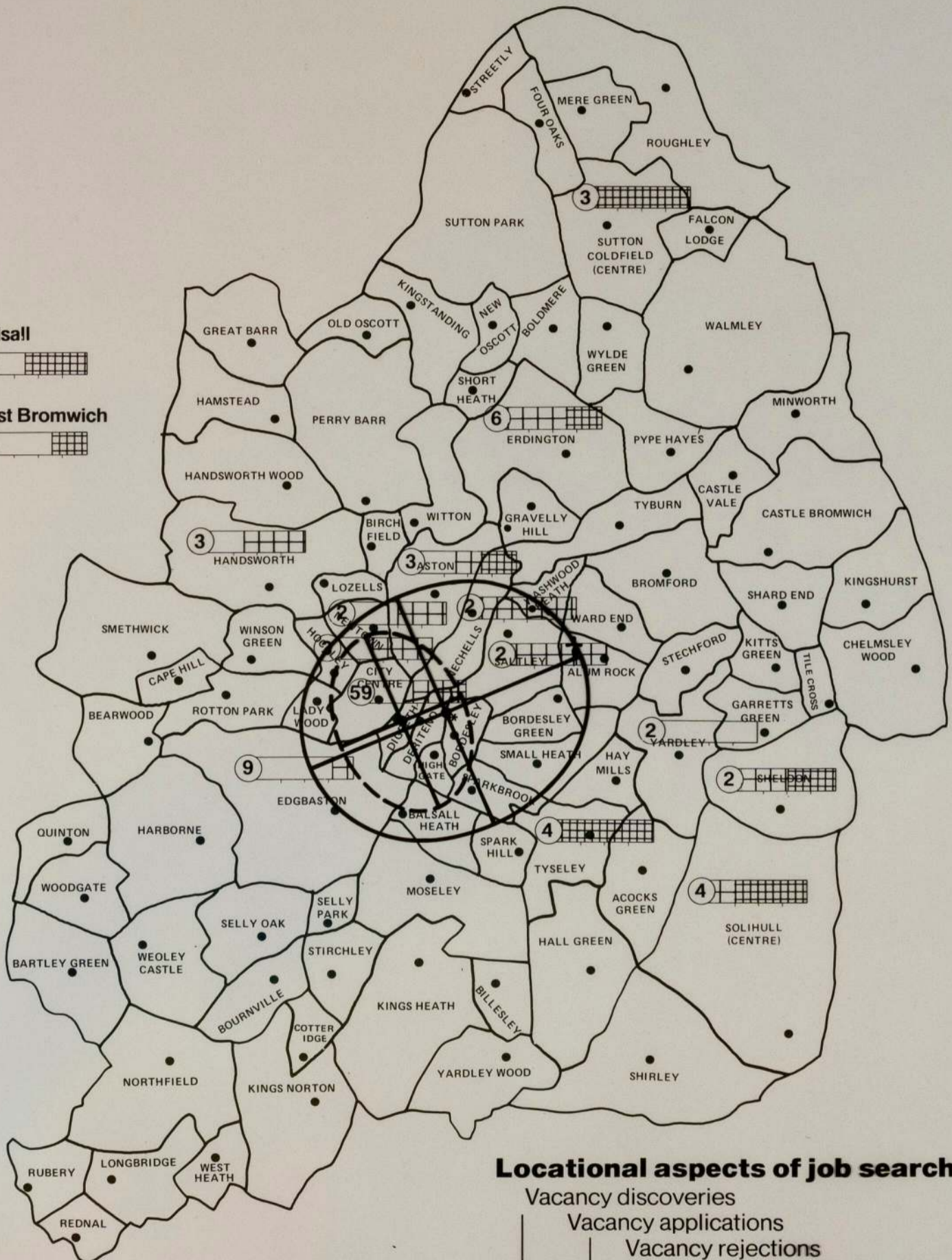
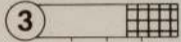
East Core



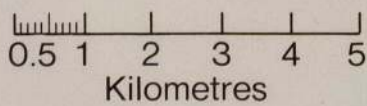
Walsall



West Bromwich

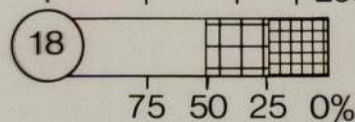


† Home location \* City centre point



## Locational aspects of job search

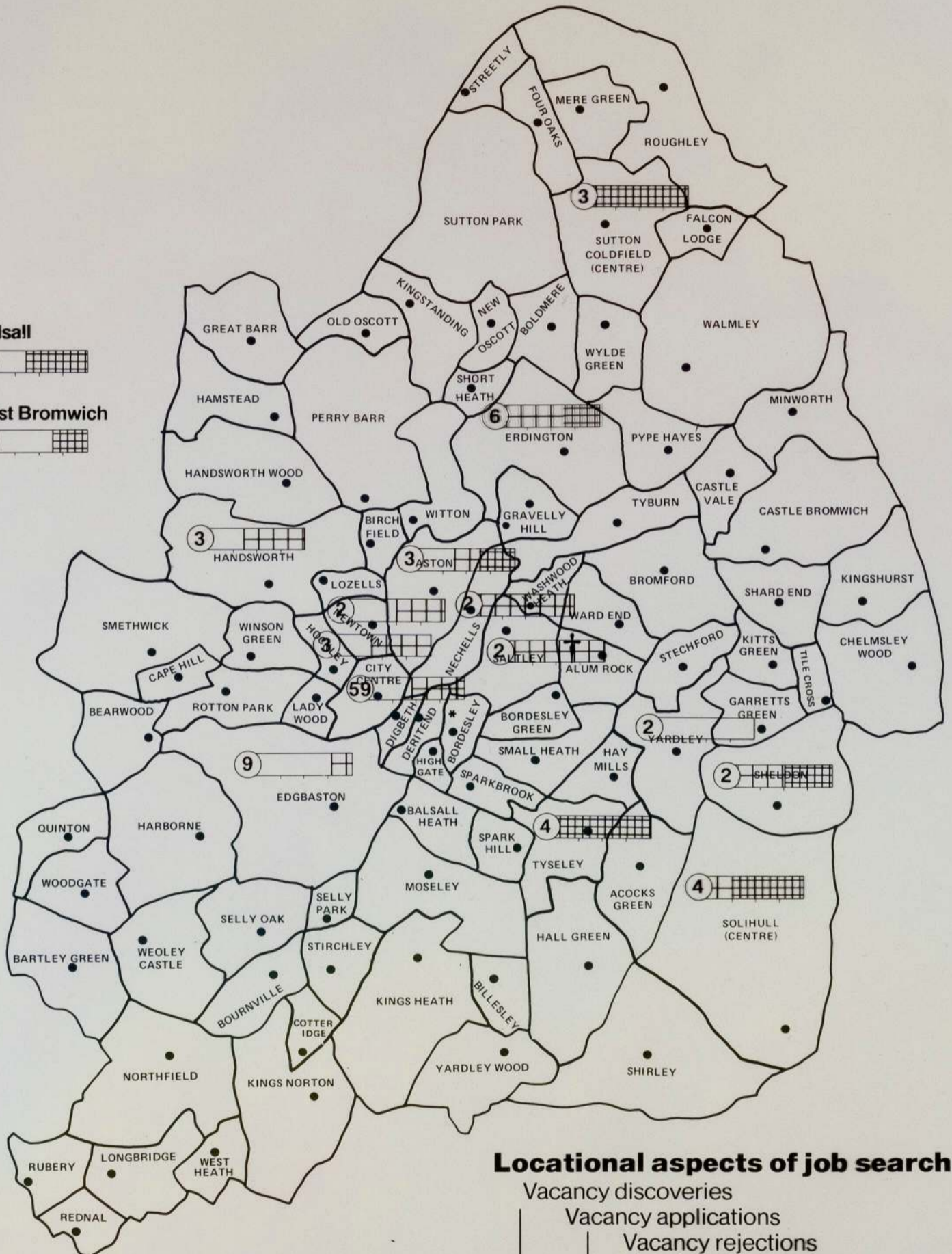
Vacancy discoveries  
 Vacancy applications  
 Vacancy rejections  
 Non-locational reasons  
 Locational reasons



# East Core



**Walsall**  
 3   
**West Bromwich**  
 3



† Home location \* City centre point  
 0.5 1 2 3 4 5  
 Kilometres

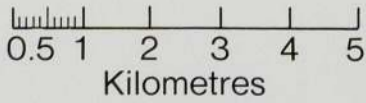
**Locational aspects of job search**  
 Vacancy discoveries  
 Vacancy applications  
 Vacancy rejections  
 Non-locational reasons  
 Locational reasons

18   
 75 50 25 0%

# East Core

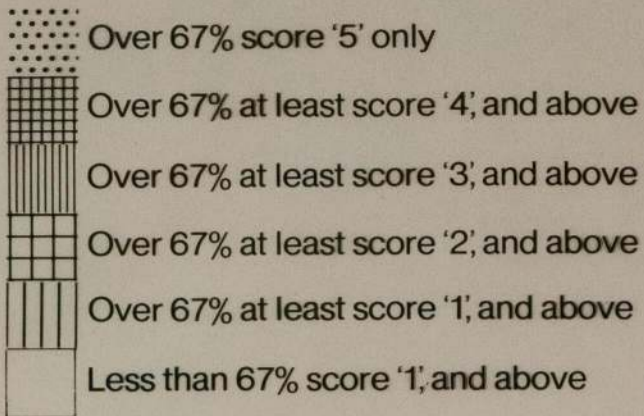


† Home location \* City centre point

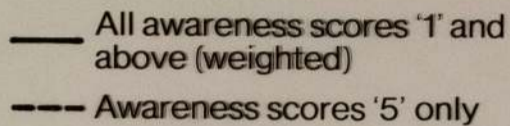


IOIAL HANDSWORTH  
SAMPLE

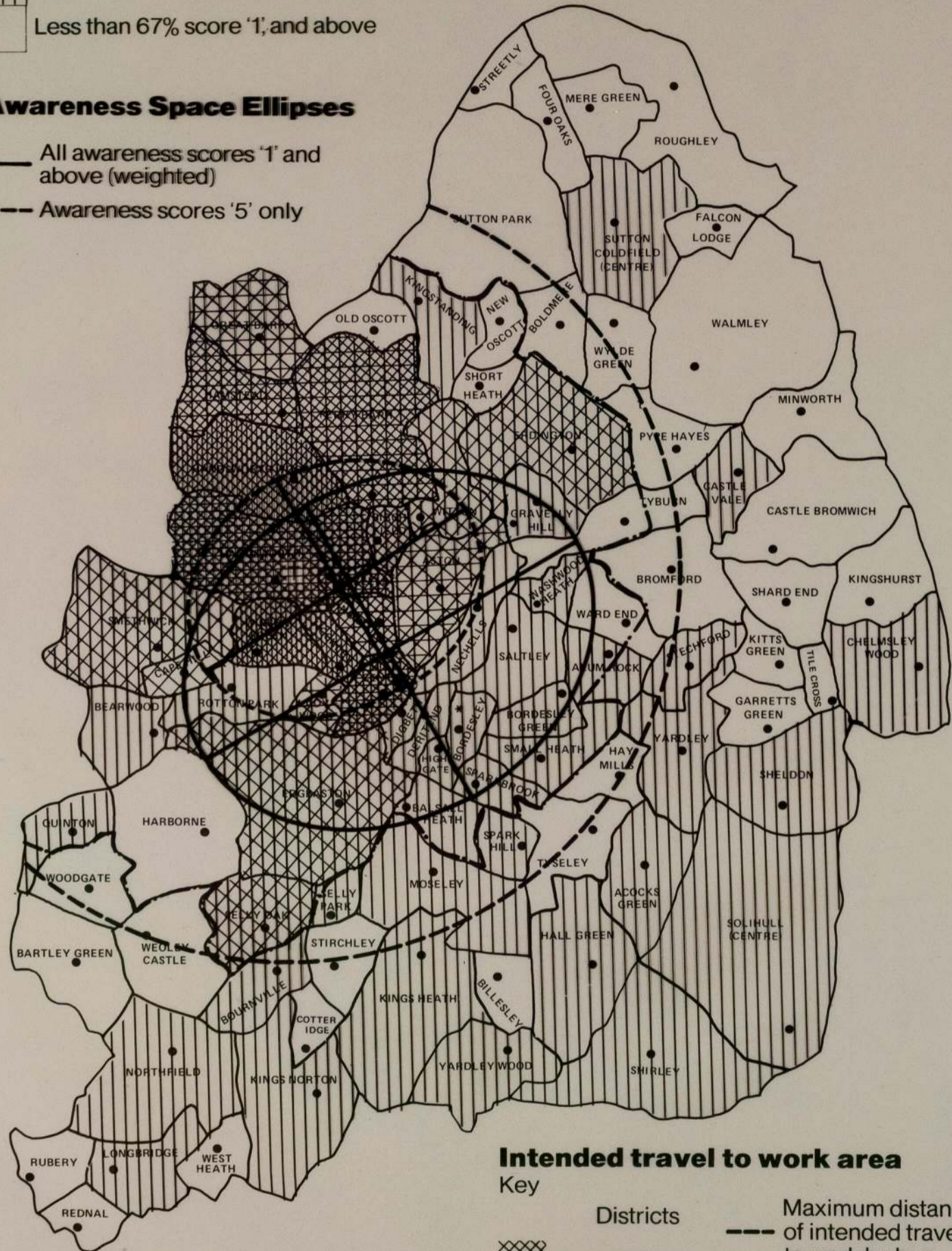
### Awareness of Birmingham



### Awareness Space Ellipses



Total 'Handsworth' sample

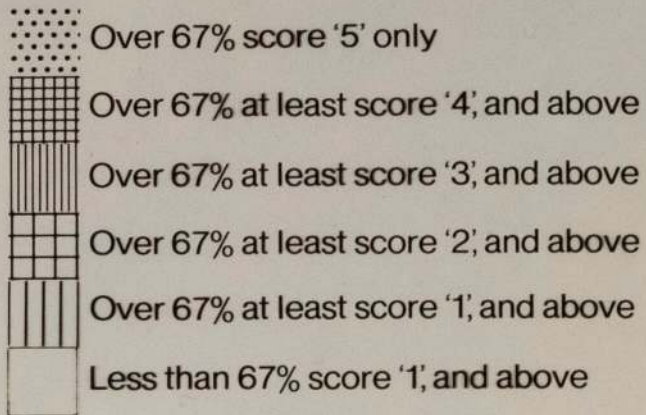


† Home location \* City centre point  
 0.5 1 2 3 4 5  
 Kilometres

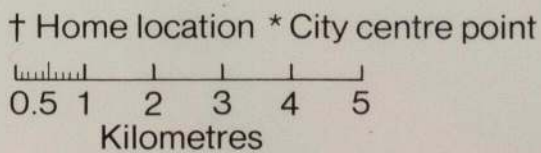
**Intended travel to work area**  
 Key

- Over 67% 'Yes'
- Over 67% at least 'consider'
- Maximum distance of intended travel to work by bus
- Maximum time of intended travel to work by bus

# Awareness of Birmingham

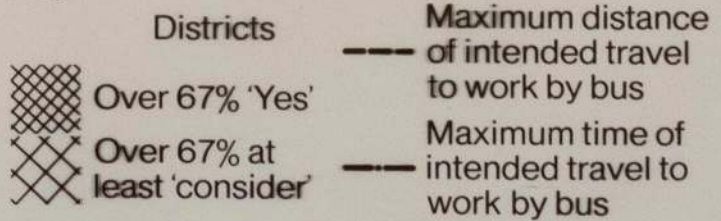


Total 'Handsworth' sample



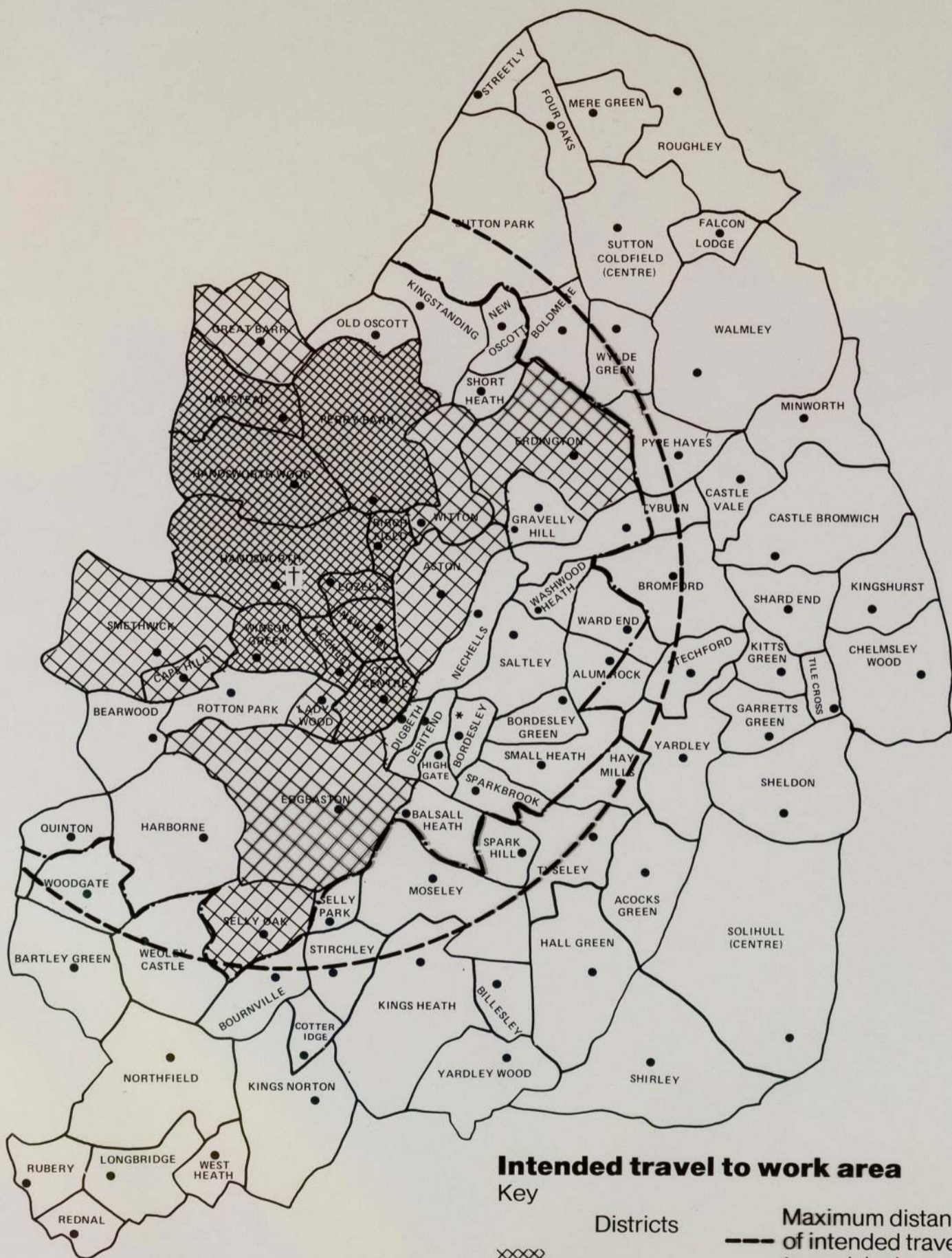
## Intended travel to work area

Key







# Total 'Handsworth' sample





## Intended travel to work area

Key

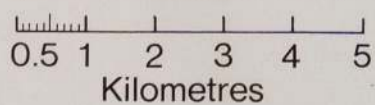
Districts

-  Over 67% 'Yes'
-  Over 67% at least 'consider'

 Maximum distance of intended travel to work by bus

 Maximum time of intended travel to work by bus

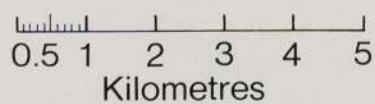
† Home location \* City centre point



Total 'Handsworth' sample



† Home location \* City centre point



# Vacancy discovery space and vacancy application space

— Vacancy discovery ellipse

--- Vacancy application ellipse

Total 'Handsworth' sample



## Search activity space

Journey to interview ellipses;

— All modes

- 2 - Car (passenger)

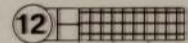
- 3 - Train

- 4 - Bus

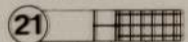
- 5 - Cycle

- 6 - Walk

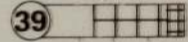
### Wolverhampton



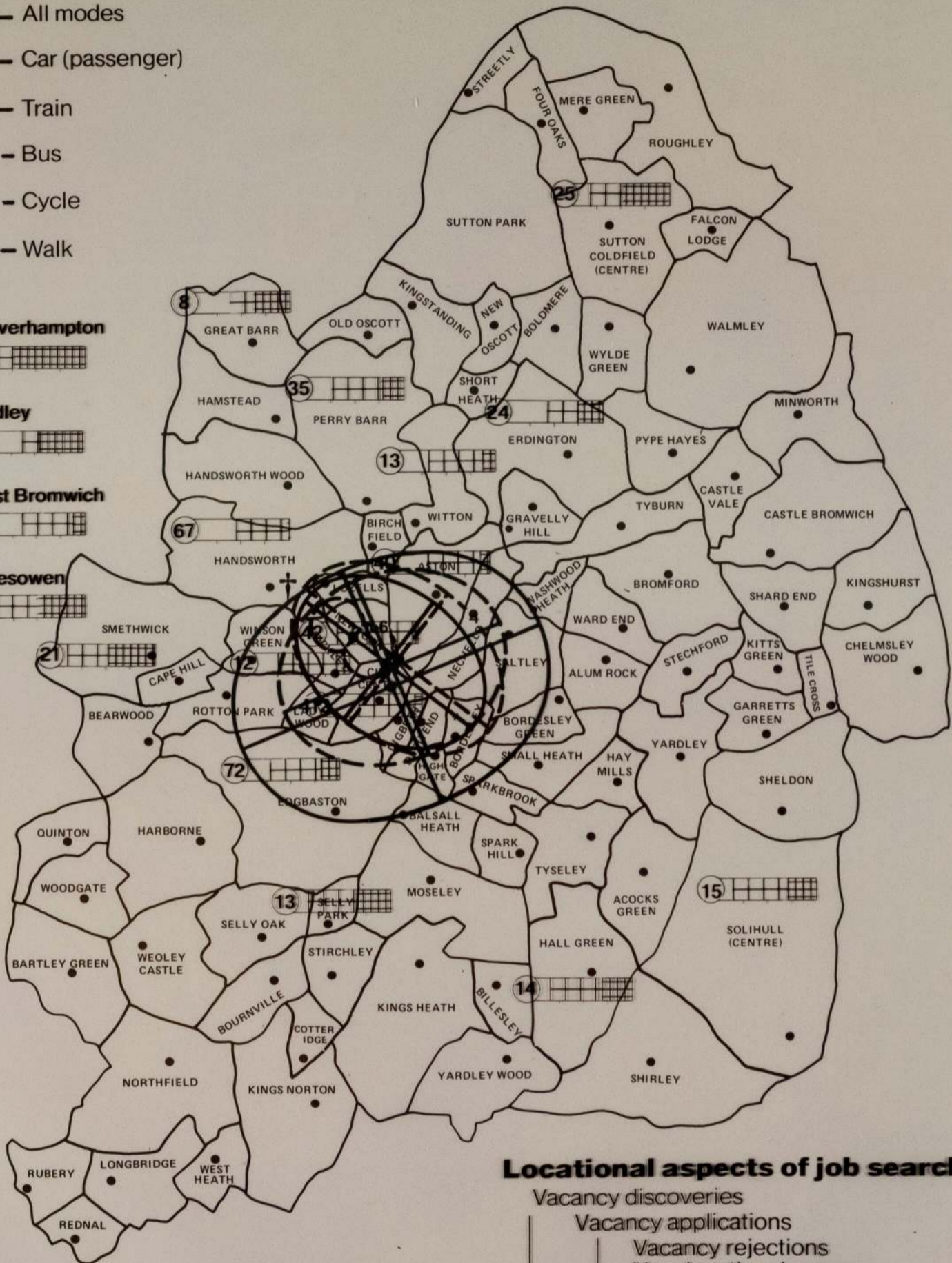
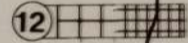
### Dudley



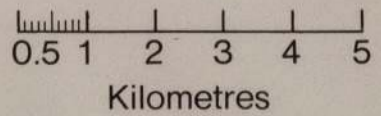
### West Bromwich



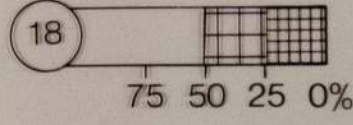
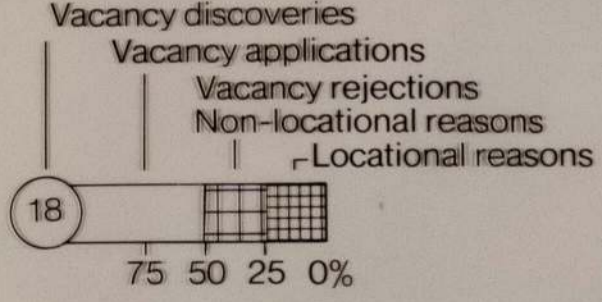
### Halesowen



† Home location \* City centre point



## Locational aspects of job search



# Vacancy discovery space and vacancy application space

— Vacancy discovery ellipse

--- Vacancy application ellipse

Total 'Handsworth' sample



## Search activity space

Journey to interview ellipses;

— All modes

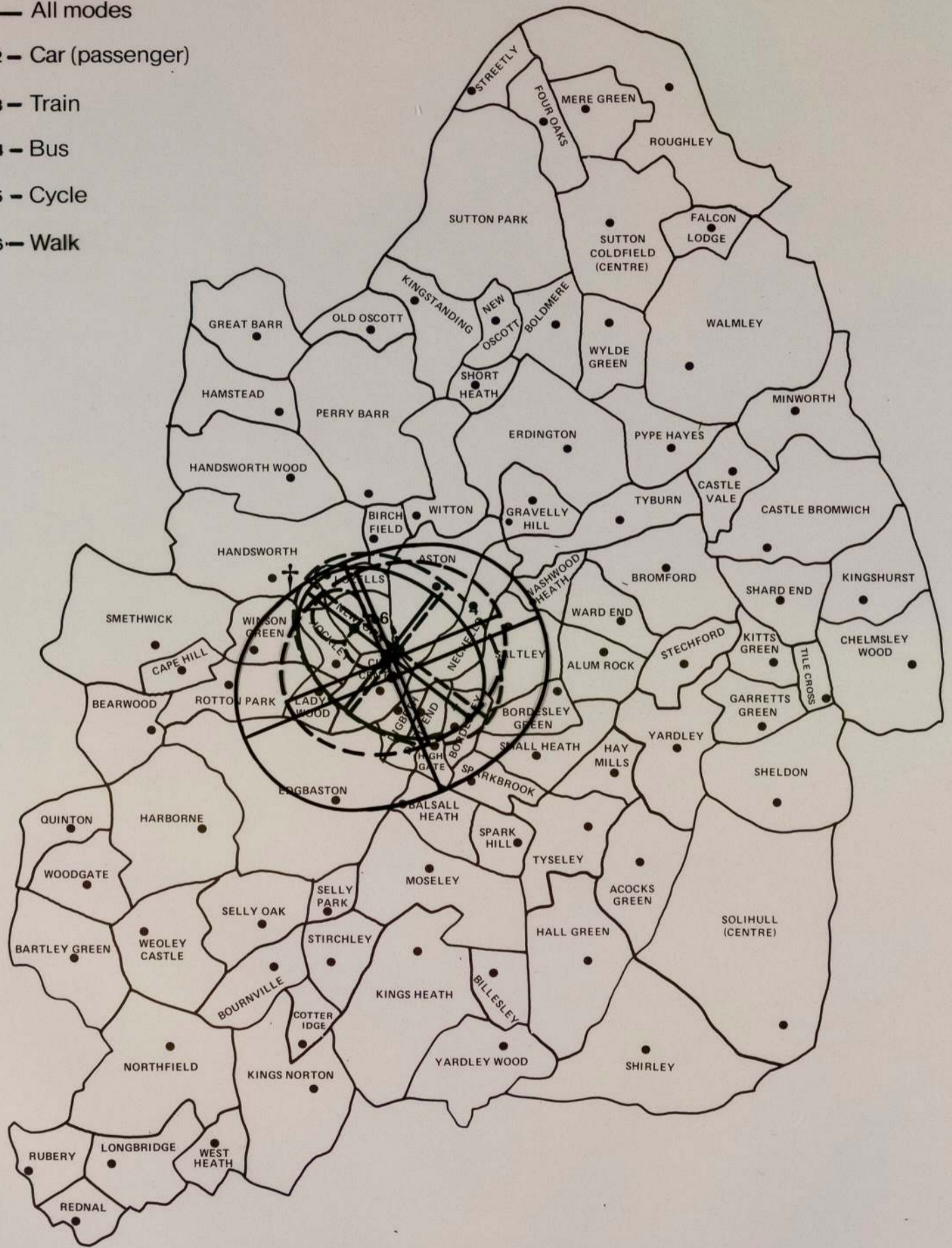
-2- Car (passenger)

-3- Train

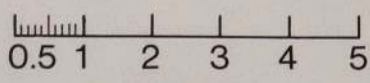
-4- Bus

-5- Cycle

-6- Walk



† Home location \* City centre point



Kilometres

Total 'Handsworth' sample



**Search activity space**

Journey to interview ellipses;

— All modes

- 2 - Car (passenger)

- 3 - Train

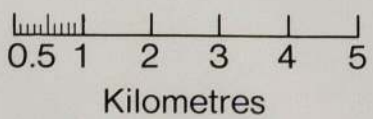
- 4 - Bus

- 5 - Cycle

- 6 - Walk



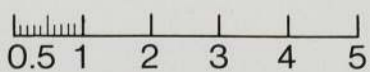
† Home location \* City centre point



Total 'Handsworth' sample



† Home location \* City centre point



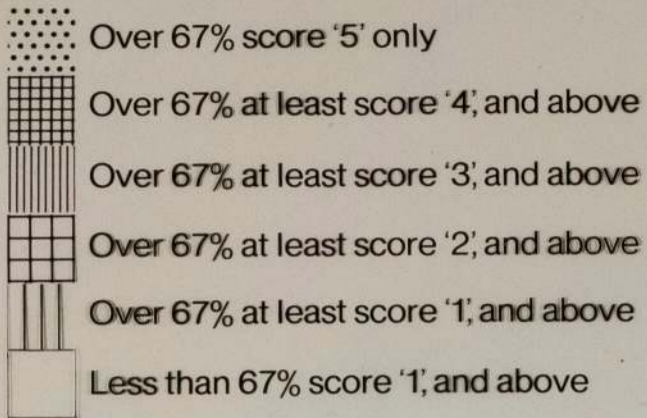
Kilometres

LOZELLS

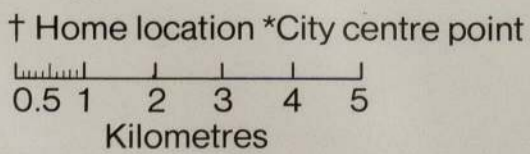
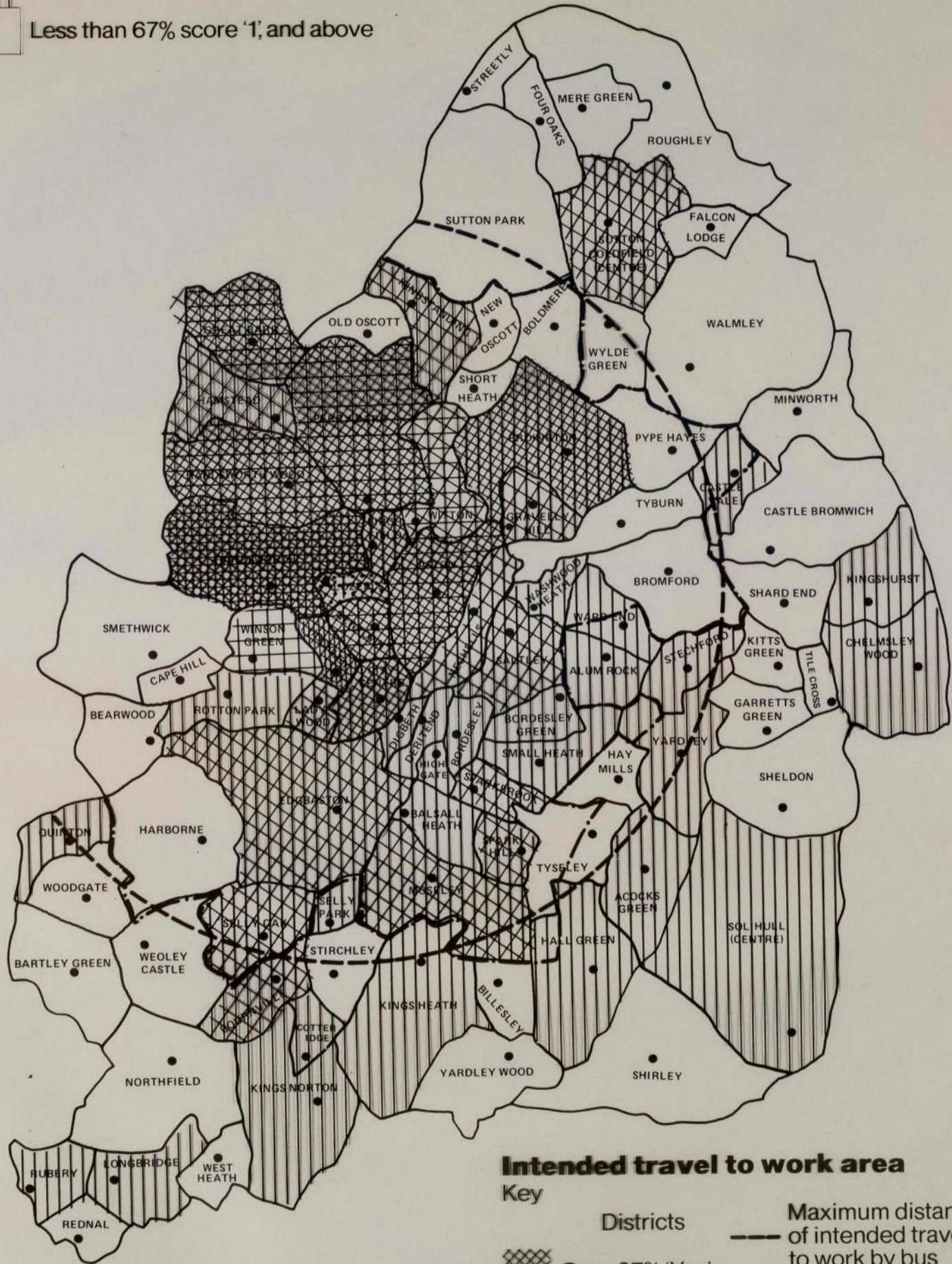




# Awareness of Birmingham

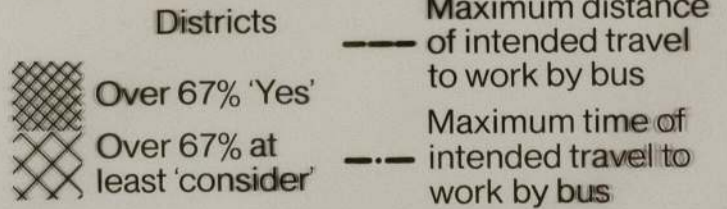


Lozells

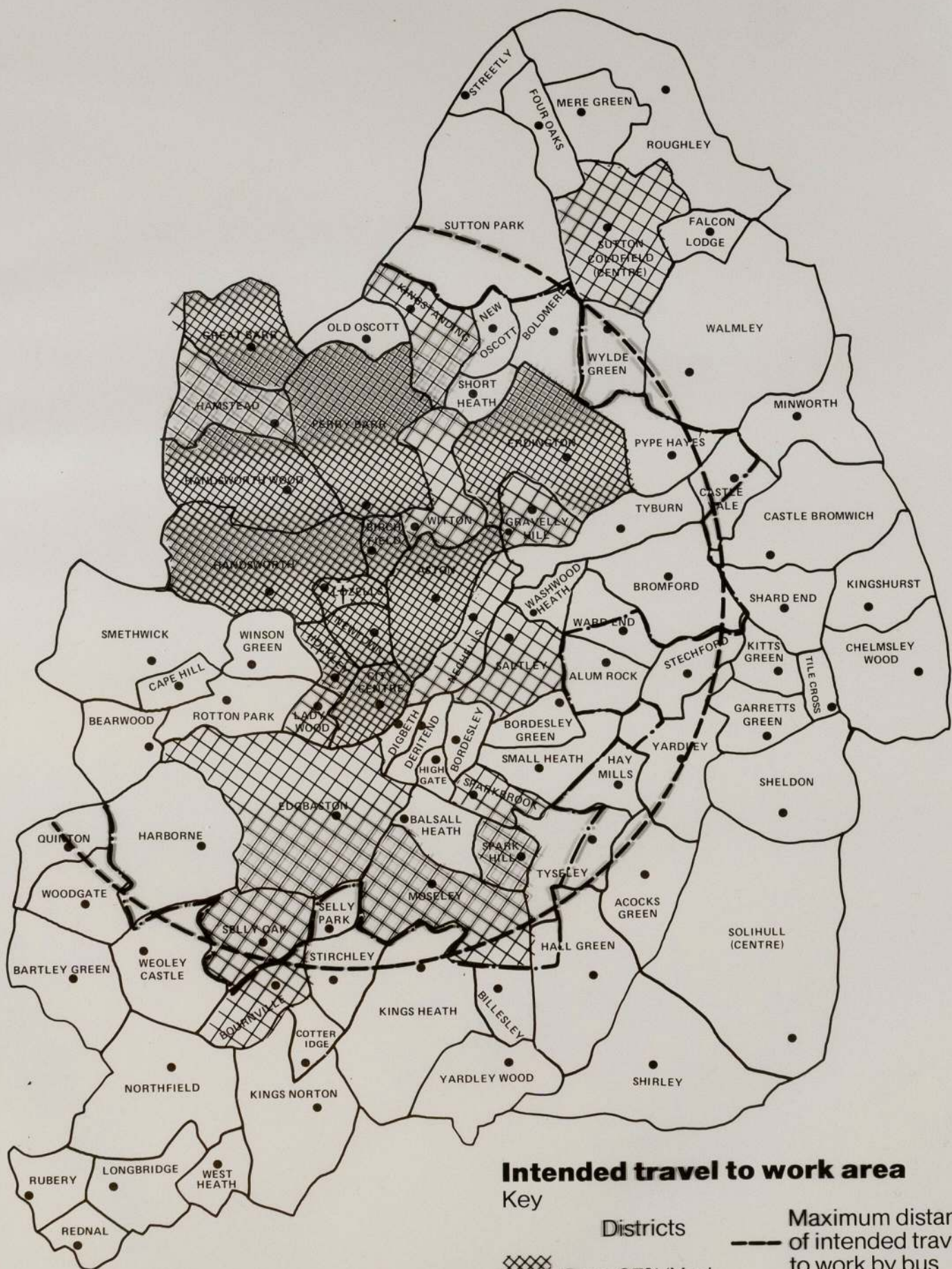


## Intended travel to work area

Key



# Lozells



† Home location \*City centre point  
 0.5 1 2 3 4 5  
 Kilometres

## Intended travel to work area

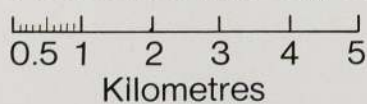
Key

- |   |  |
|---|--|
| <p>Districts</p> <ul style="list-style-type: none"> <li> Over 67% 'Yes'</li> <li> Over 67% at least 'consider'</li> </ul> | <ul style="list-style-type: none"> <li> Maximum distance of intended travel to work by bus</li> <li> Maximum time of intended travel to work by bus</li> </ul> |
|---|--|

# Lozells



† Home location \*City centre point



# Vacancy discovery space and vacancy application space

- Vacancy discovery ellipse
- - - Vacancy application ellipse

Lozells

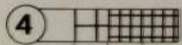


## Search activity space

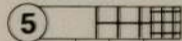
Journey to interview ellipses;

- All modes
- 2- Car (passenger)
- 3- Train
- 4- Bus
- 5- Cycle
- 6- Walk

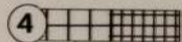
### Wolverhampton



### West Bromwich

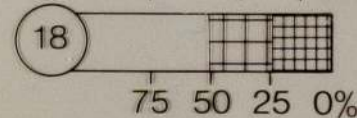


### Halesowen

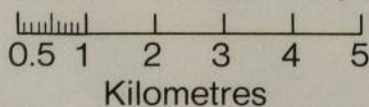


## Locational aspects of job search

- Vacancy discoveries
- Vacancy applications
- Vacancy rejections
- Non-locational reasons
- Locational reasons



† Home location \* City centre point



75 50 25 0%

# Vacancy discovery space and vacancy application space

- Vacancy discovery ellipse
- - - Vacancy application ellipse

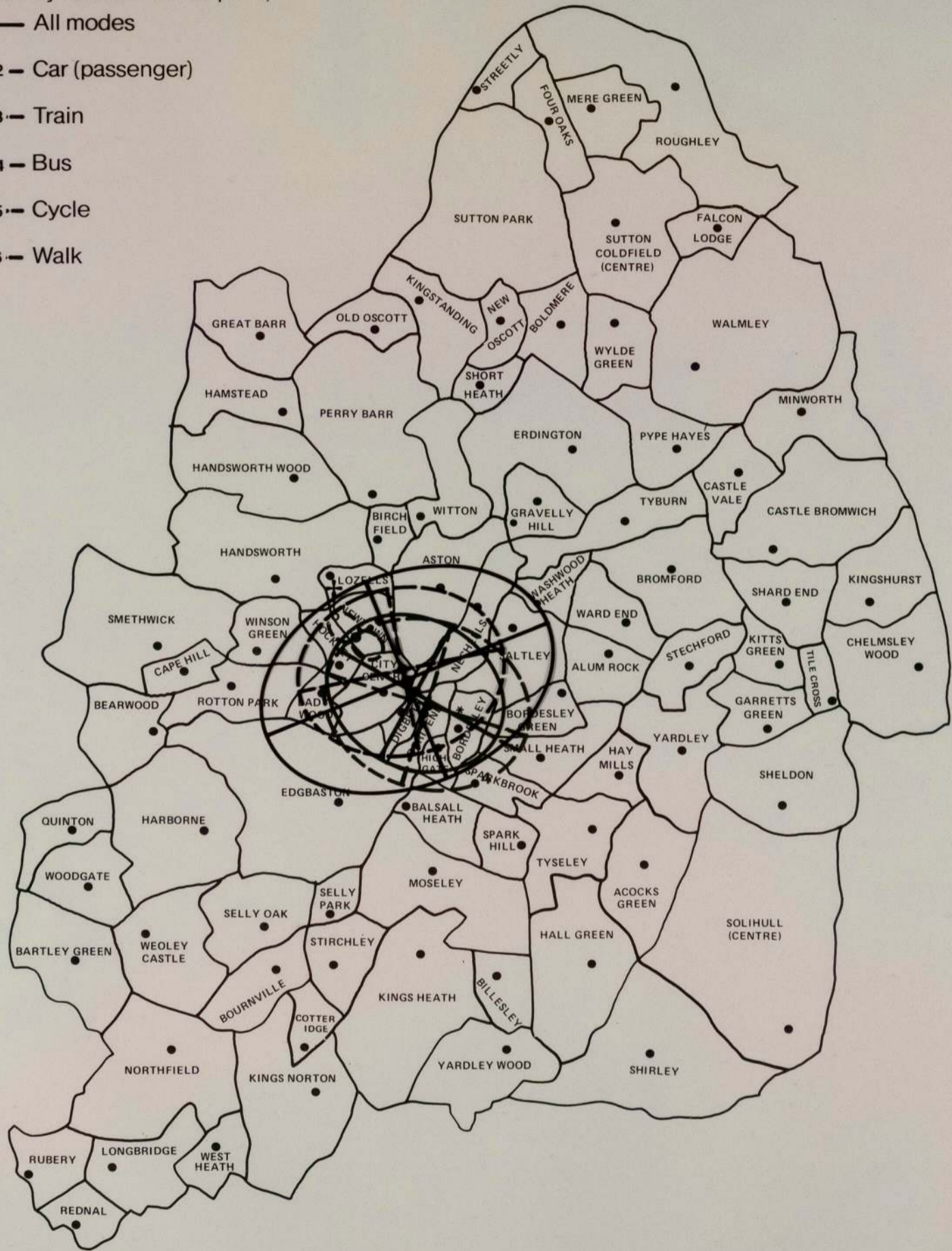
Lozells



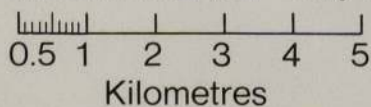
## Search activity space

Journey to interview ellipses;

- All modes
- 2- Car (passenger)
- 3- Train
- 4- Bus
- 5- Cycle
- 6- Walk



† Home location \* City centre point



# Lozells



## Search activity space

Journey to interview ellipses;

— All modes

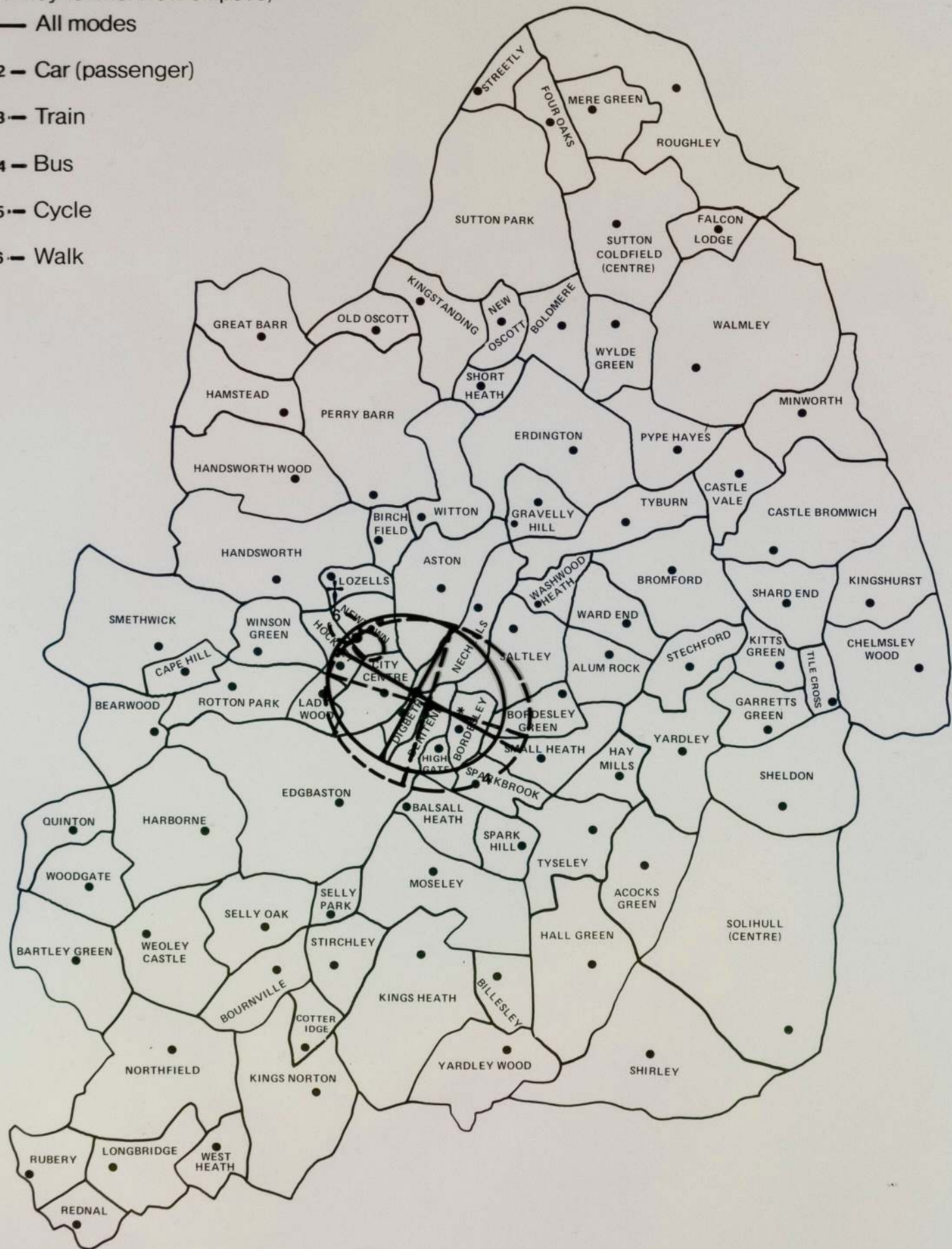
-2- Car (passenger)

-3- Train

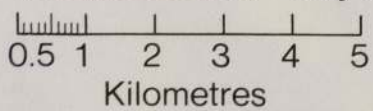
-4- Bus

-5- Cycle

-6- Walk



† Home location \* City centre point



# Lozells

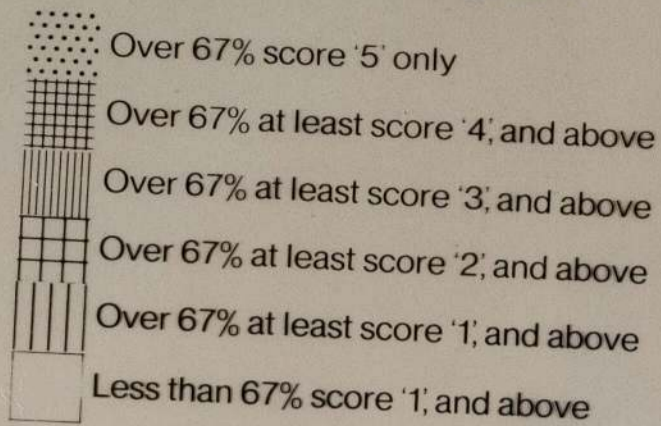


† Home location \* City centre point  
0.5 1 2 3 4 5  
Kilometres

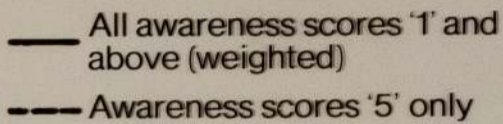




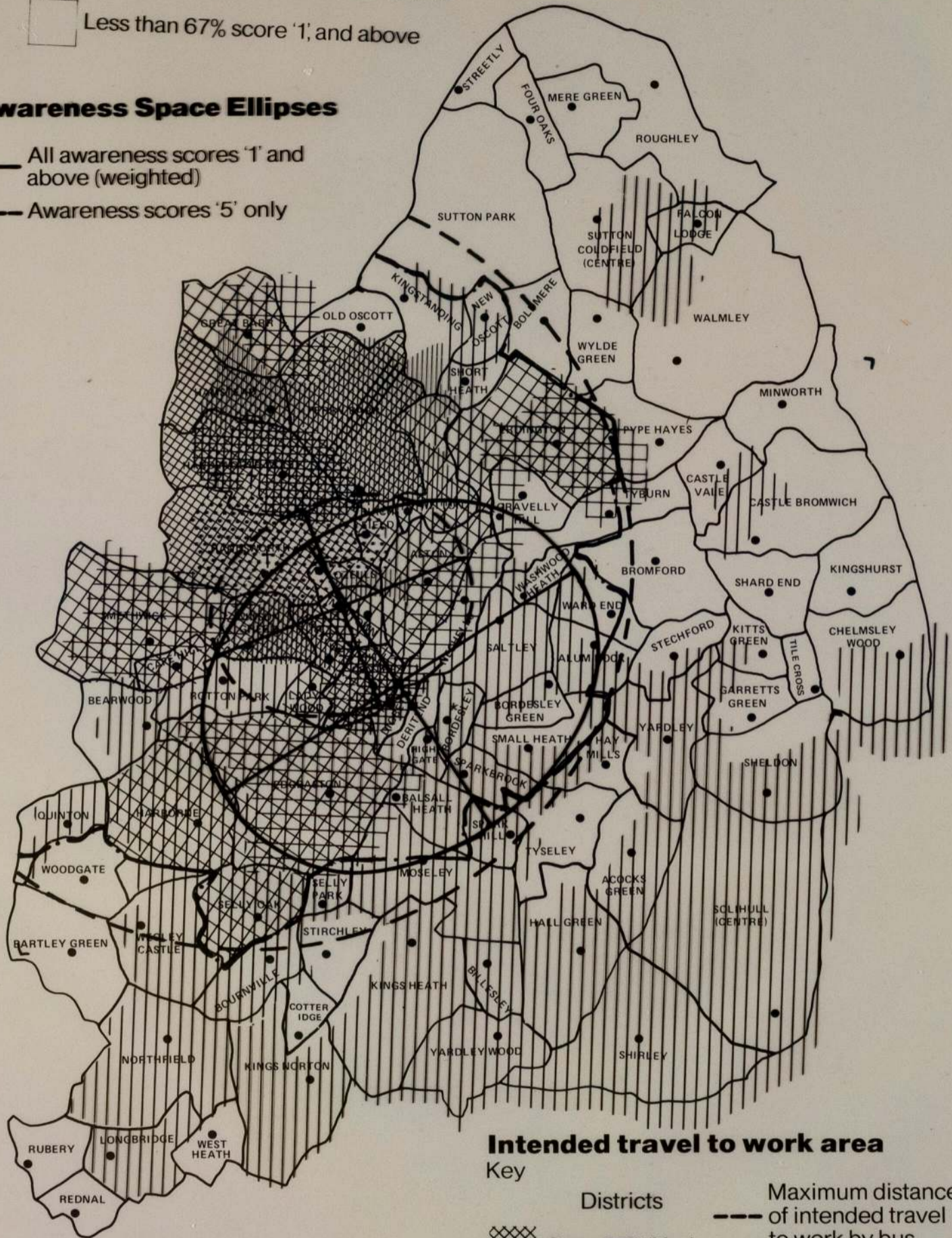
# Awareness of Birmingham



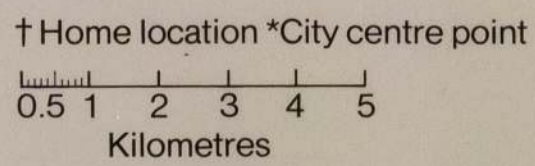
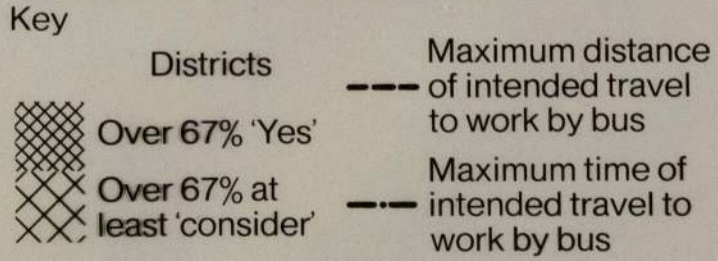
## Awareness Space Ellipses



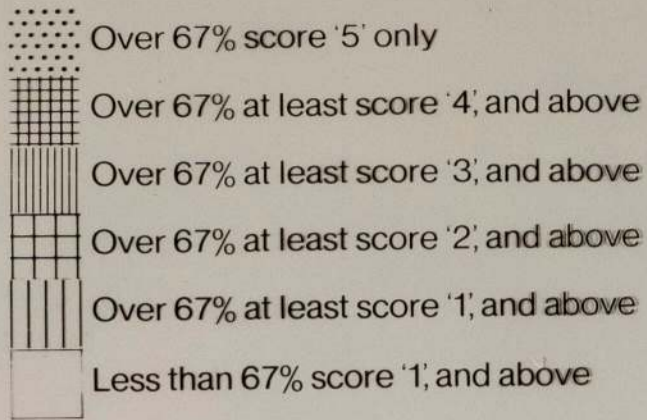
Handsworth



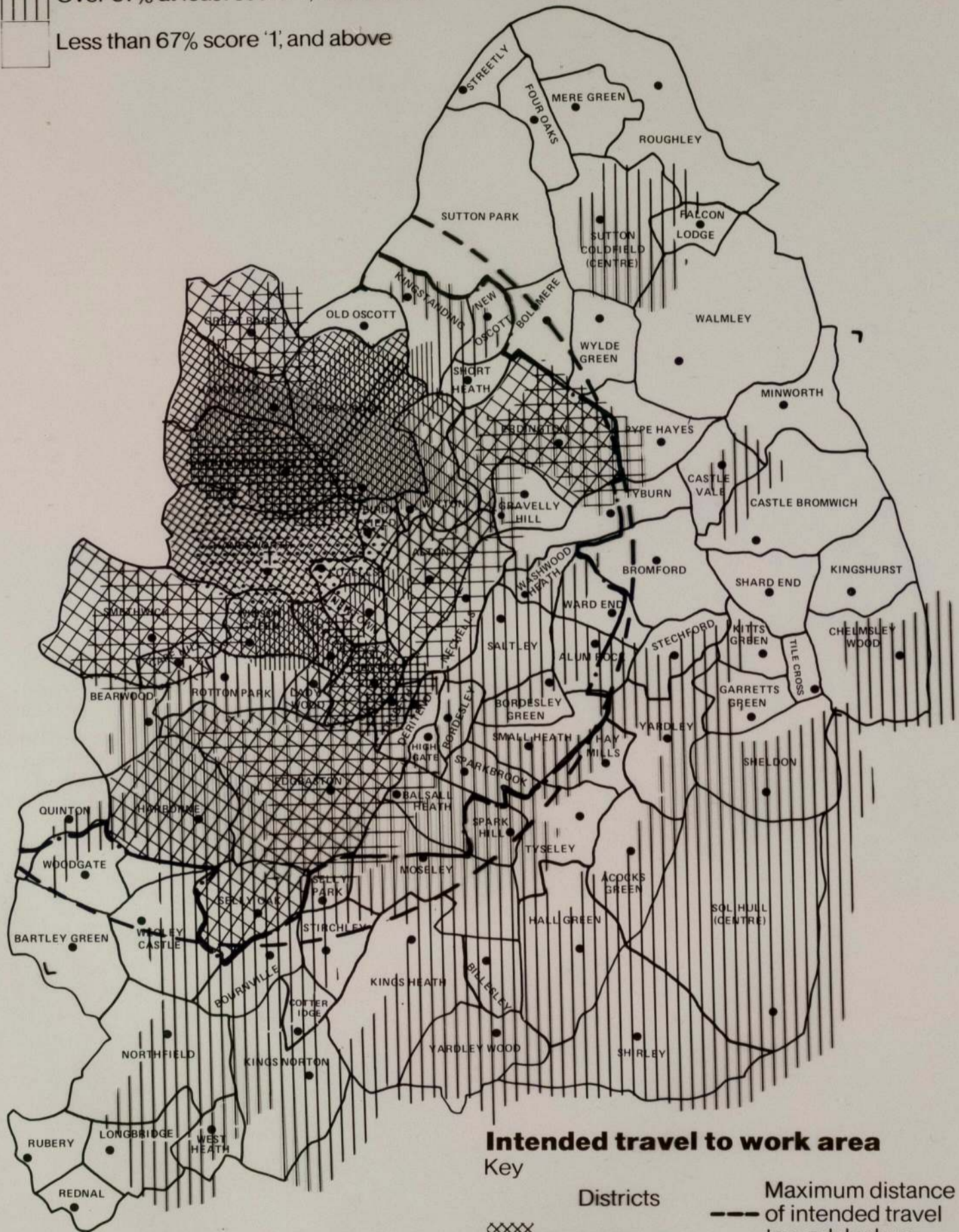
## Intended travel to work area



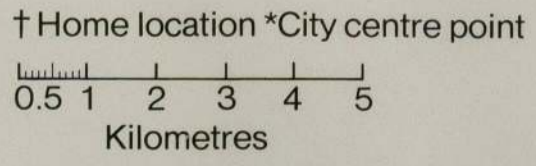
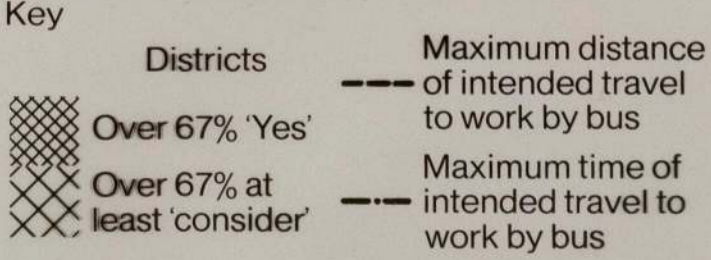
# Awareness of Birmingham



Handsworth



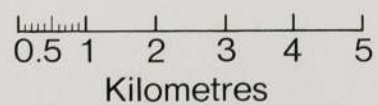
## Intended travel to work area



# Handsworth



† Home location \*City centre point



# Vacancy discovery space and vacancy application space

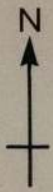
- Vacancy discovery ellipse
- Vacancy application ellipse

## Search activity space

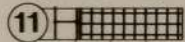
Journey to interview ellipses;

- All modes
- 2- Car (passenger)
- 3- Train
- 4- Bus
- 5- Cycle
- 6- Walk

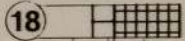
Handsworth



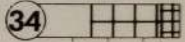
Wolverhampton



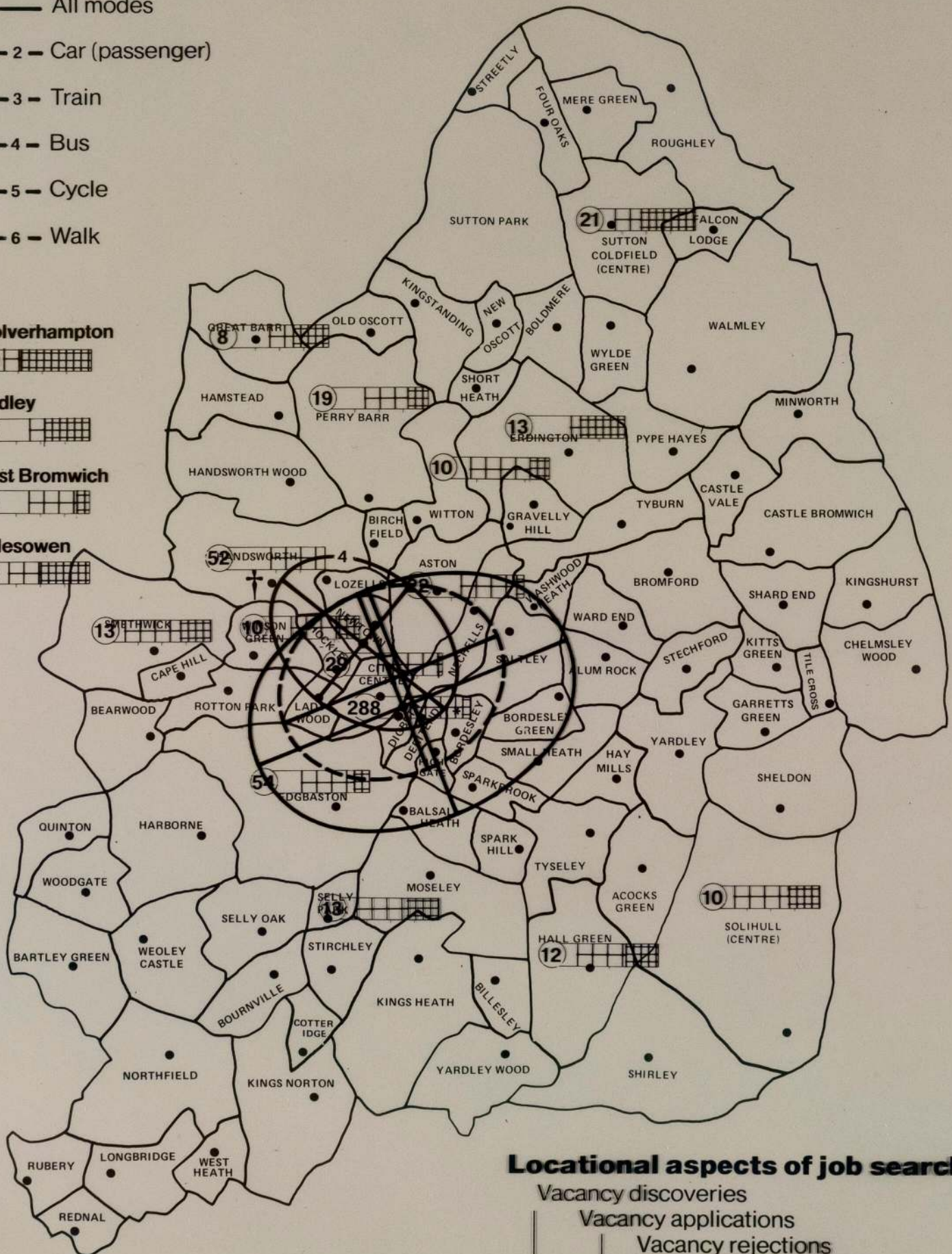
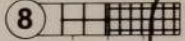
Dudley



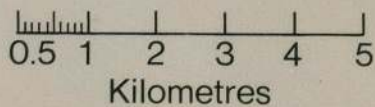
West Bromwich



Halesowen



† Home location \* City centre point



## Locational aspects of job search

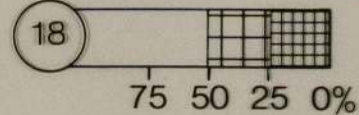
Vacancy discoveries

Vacancy applications

Vacancy rejections

Non-local reasons

Locational reasons



# Handsworth

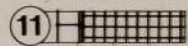


## Search activity space

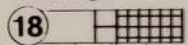
Journey to interview ellipses;

- All modes
- 2- Car (passenger)
- 3- Train
- 4- Bus
- 5- Cycle
- 6- Walk

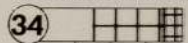
### Wolverhampton



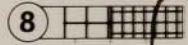
### Dudley



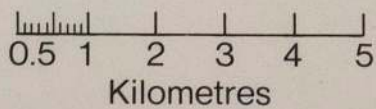
### West Bromwich



### Halesowen

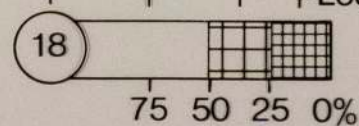


† Home location \* City centre point



## Locational aspects of job search

- Vacancy discoveries
- Vacancy applications
- Vacancy rejections
- Non-local reasons
- Local reasons



# Handsworth



## Search activity space

Journey to interview ellipses;

— All modes

-2- Car (passenger)

-3- Train

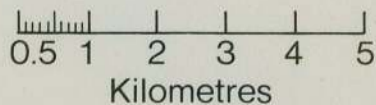
-4- Bus

-5- Cycle

-6- Walk



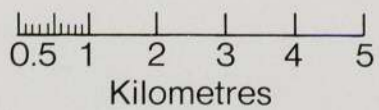
† Home location \* City centre point



# Handsworth



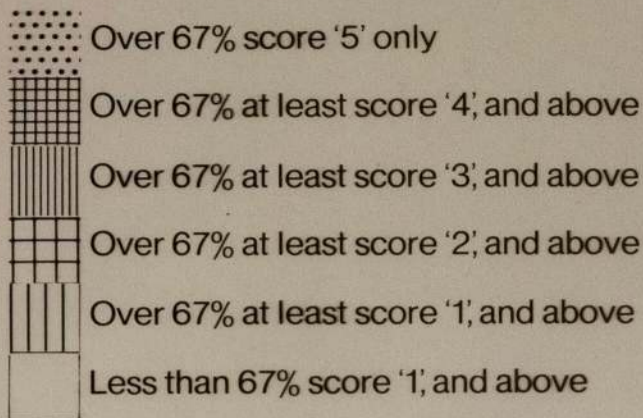
† Home location \* City centre point



IOIAL ASION  
SAMPLE



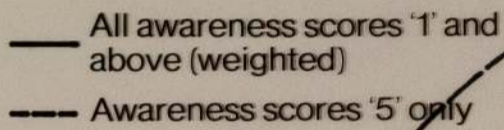
## Awareness of Birmingham



Total 'Aston' sample

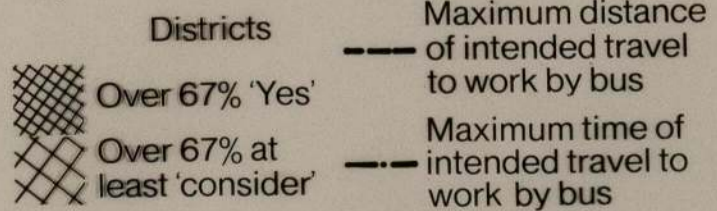


## Awareness Space Ellipses

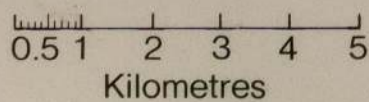


## Intended travel to work area







Key



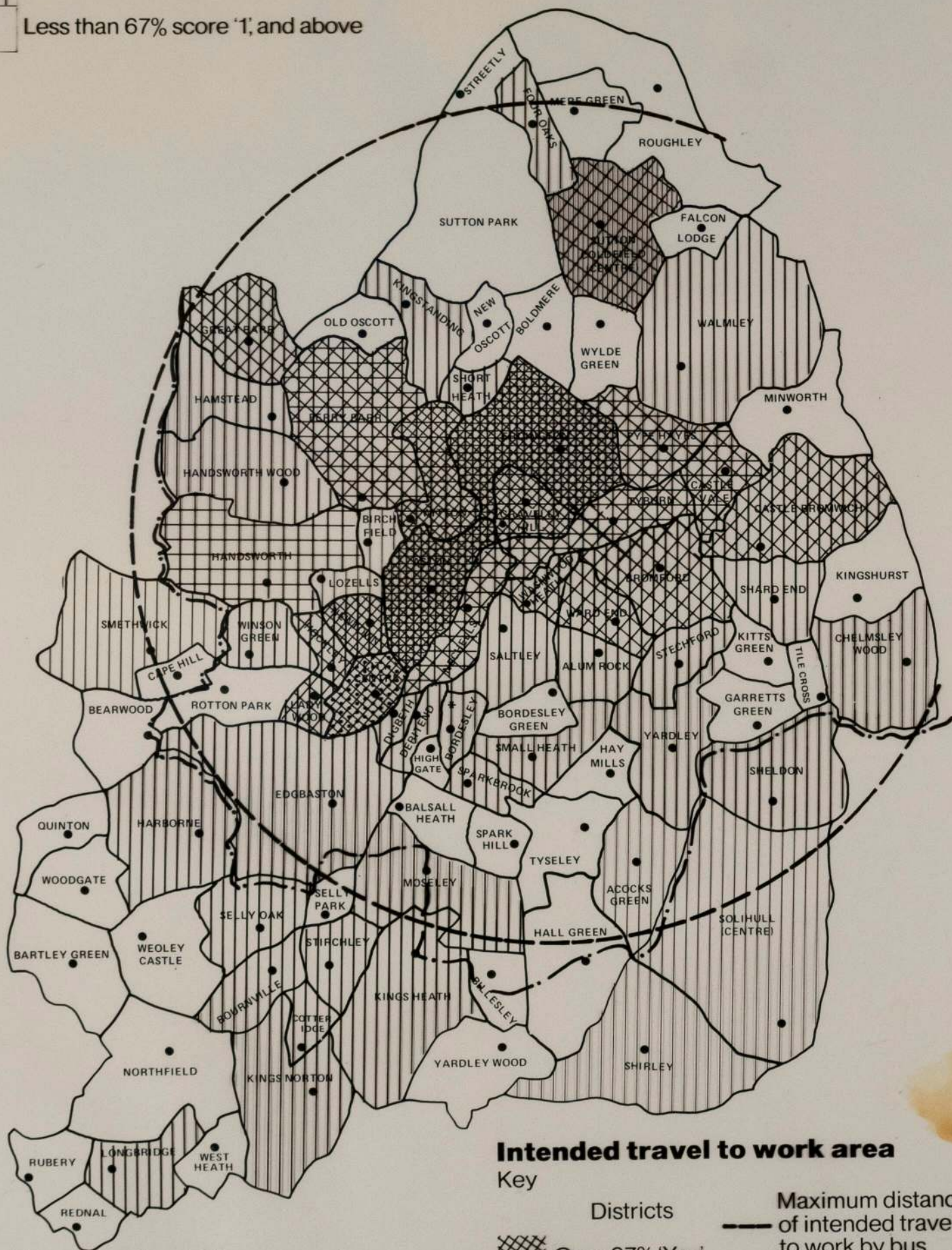
† Home location \* City centre point



# Awareness of Birmingham

-  Over 67% score '5' only
-  Over 67% at least score '4', and above
-  Over 67% at least score '3', and above
-  Over 67% at least score '2', and above
-  Over 67% at least score '1', and above
-  Less than 67% score '1', and above



Total 'Aston' sample



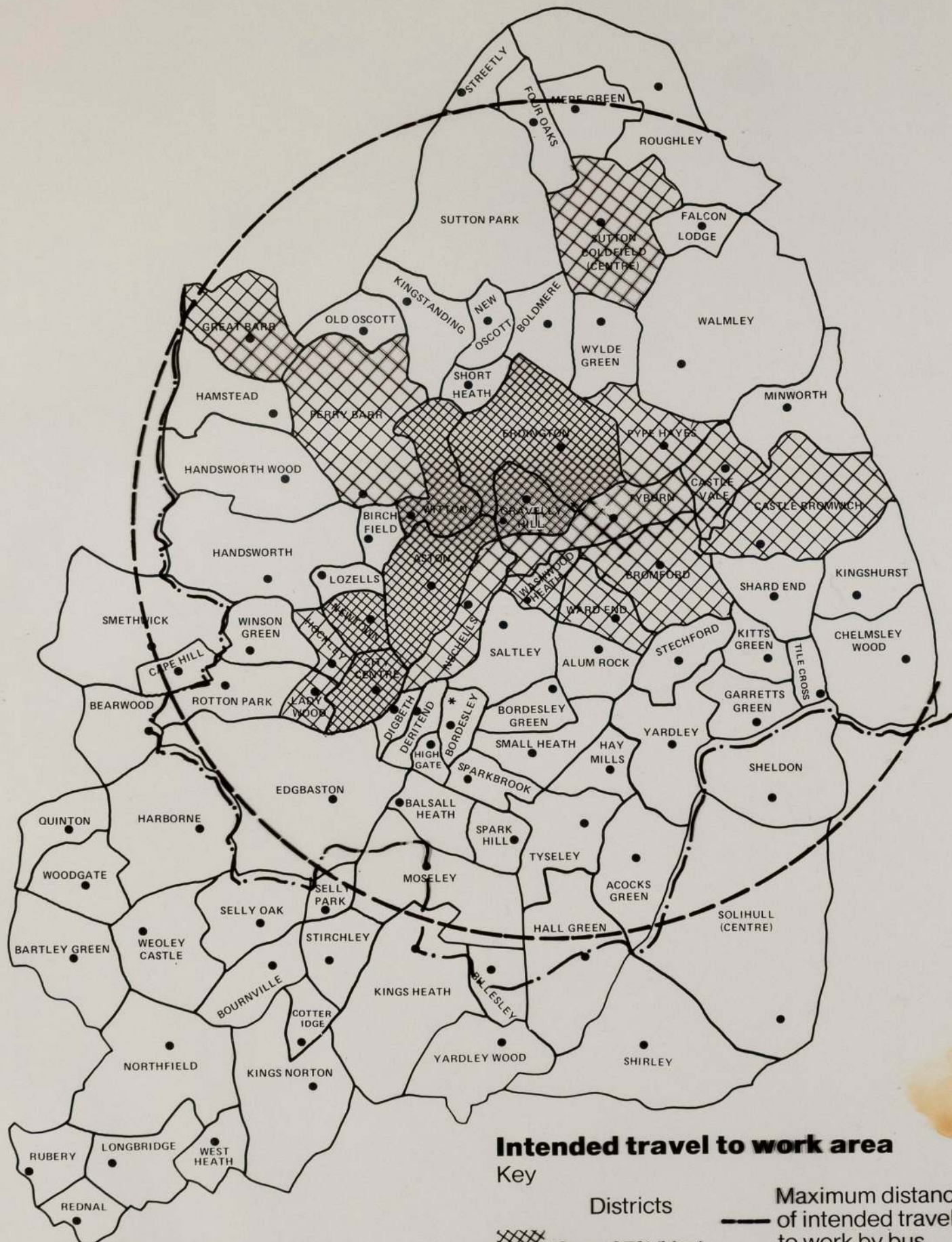
† Home location \* City centre point  
 0.5 1 2 3 4 5  
 Kilometres

## Intended travel to work area

Key

-  Over 67% 'Yes'
-  Over 67% at least 'consider'
-  Maximum distance of intended travel to work by bus
-  Maximum time of intended travel to work by bus

Total 'Aston' sample



**Intended travel to work area**

- Key
- Districts Over 67% 'Yes'
  - Over 67% at least 'consider'
  - Maximum distance of intended travel to work by bus
  - Maximum time of intended travel to work by bus

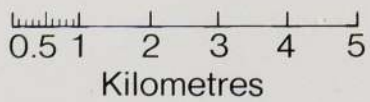
† Home location \* City centre point

0.5 1 2 3 4 5  
Kilometres

Total 'Aston' sample



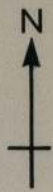
† Home location \* City centre point



# Vacancy discovery space and vacancy application space

- Vacancy discovery ellipse
- - - Vacancy application ellipse

Total 'Aston' sample

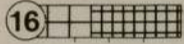


## Search activity space

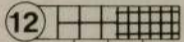
Journey to interview ellipses;

- All modes
- 2- Car (passenger)
- 3- Train
- 4- Bus
- 5- Cycle
- 6- Walk

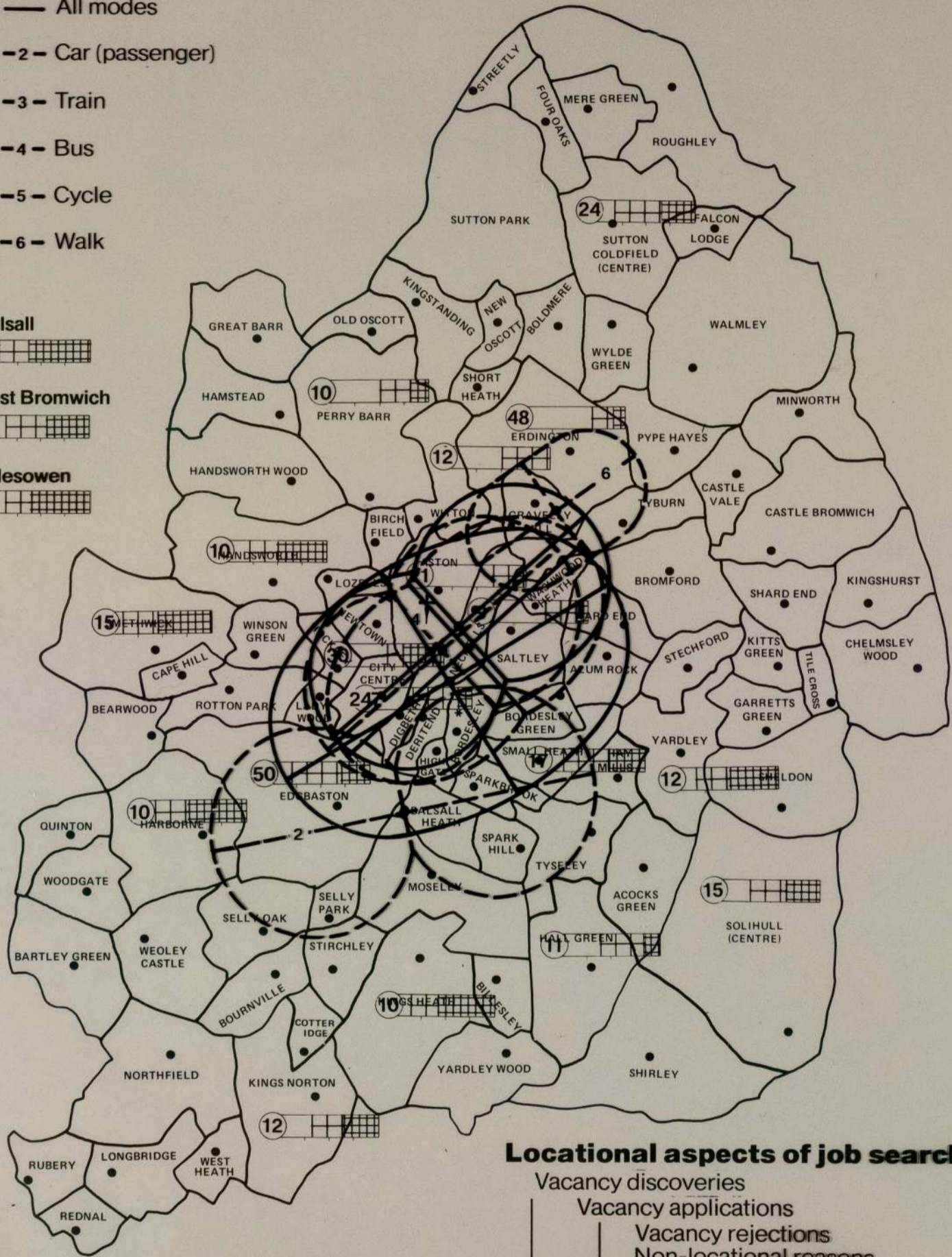
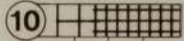
Walsall



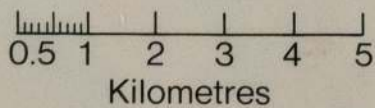
West Bromwich



Halesowen

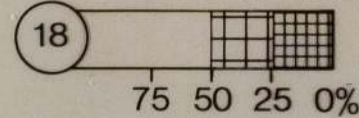


† Home location \* City centre point



## Locational aspects of job search

- Vacancy discoveries
- Vacancy applications
- Vacancy rejections
- Non-locational reasons
- Locational reasons



75 50 25 0%

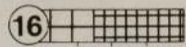
# Vacancy discovery space and vacancy application space

— Vacancy discovery ellipse  
 --- Vacancy application ellipse

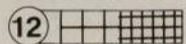
Total 'Aston' sample



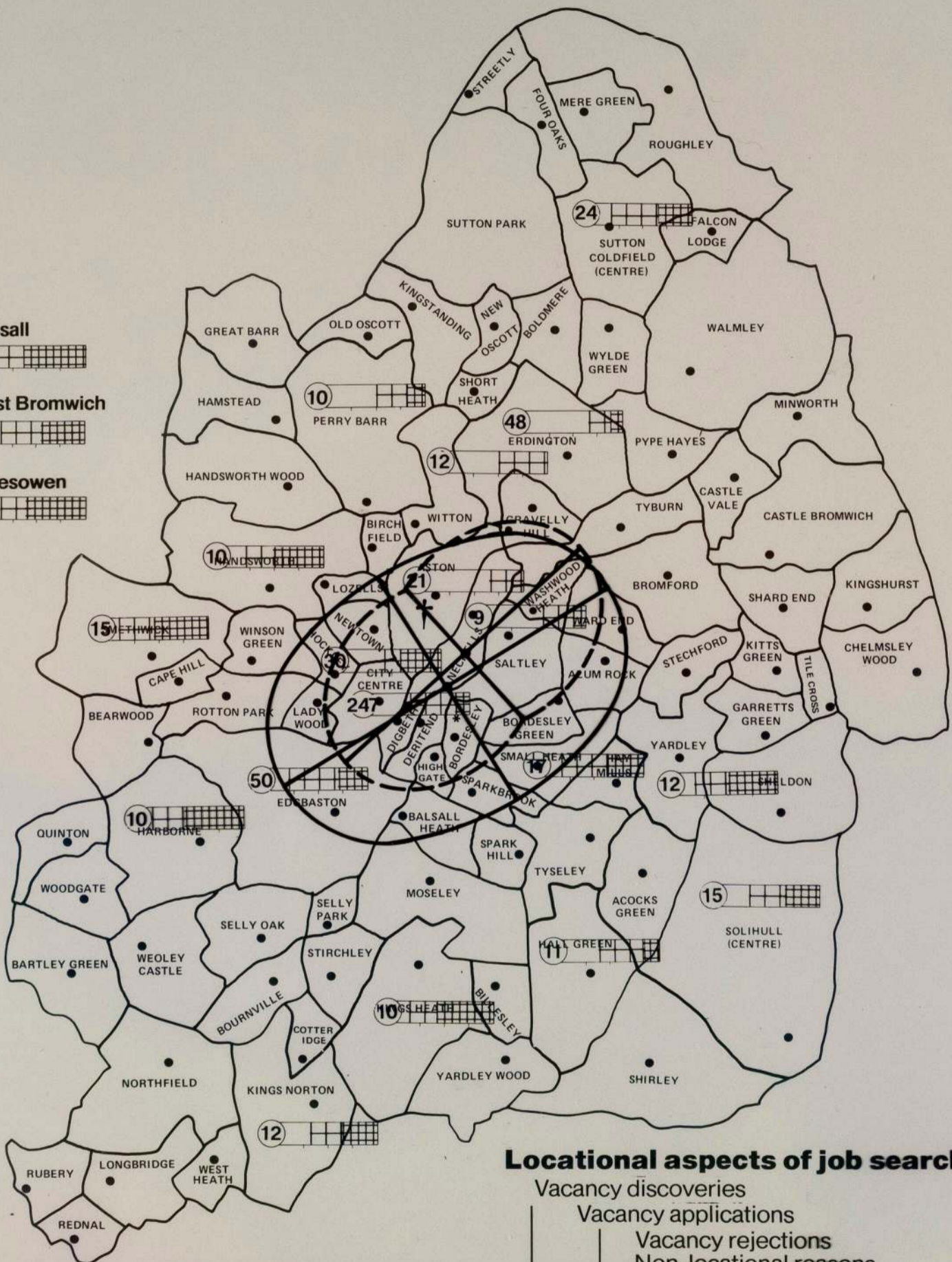
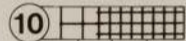
Walsall



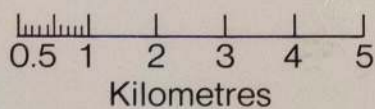
West Bromwich



Halesowen

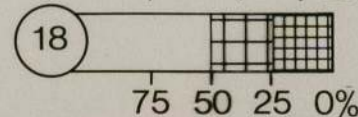


† Home location \* City centre point



## Locational aspects of job search

Vacancy discoveries  
 Vacancy applications  
 Vacancy rejections  
 Non-locational reasons  
 Locational reasons



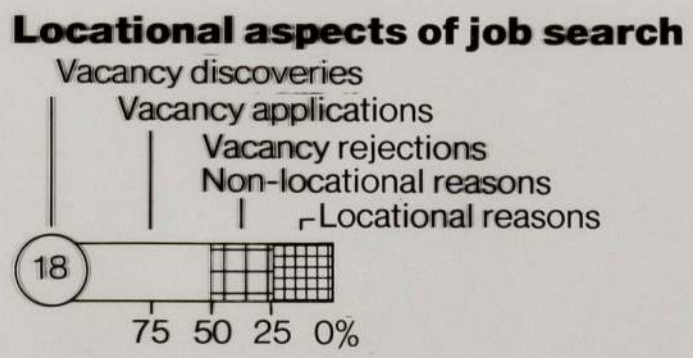
Total 'Aston' sample



- Walsall**  
16
- West Bromwich**  
12
- Halesowen**  
10



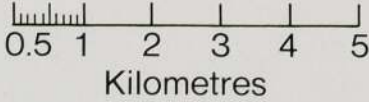
† Home location \* City centre point  
 0.5 1 2 3 4 5  
 Kilometres



Total 'Aston' sample



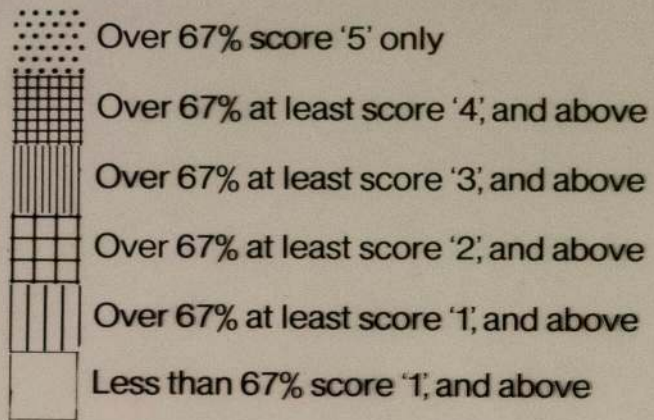
† Home location \* City centre point



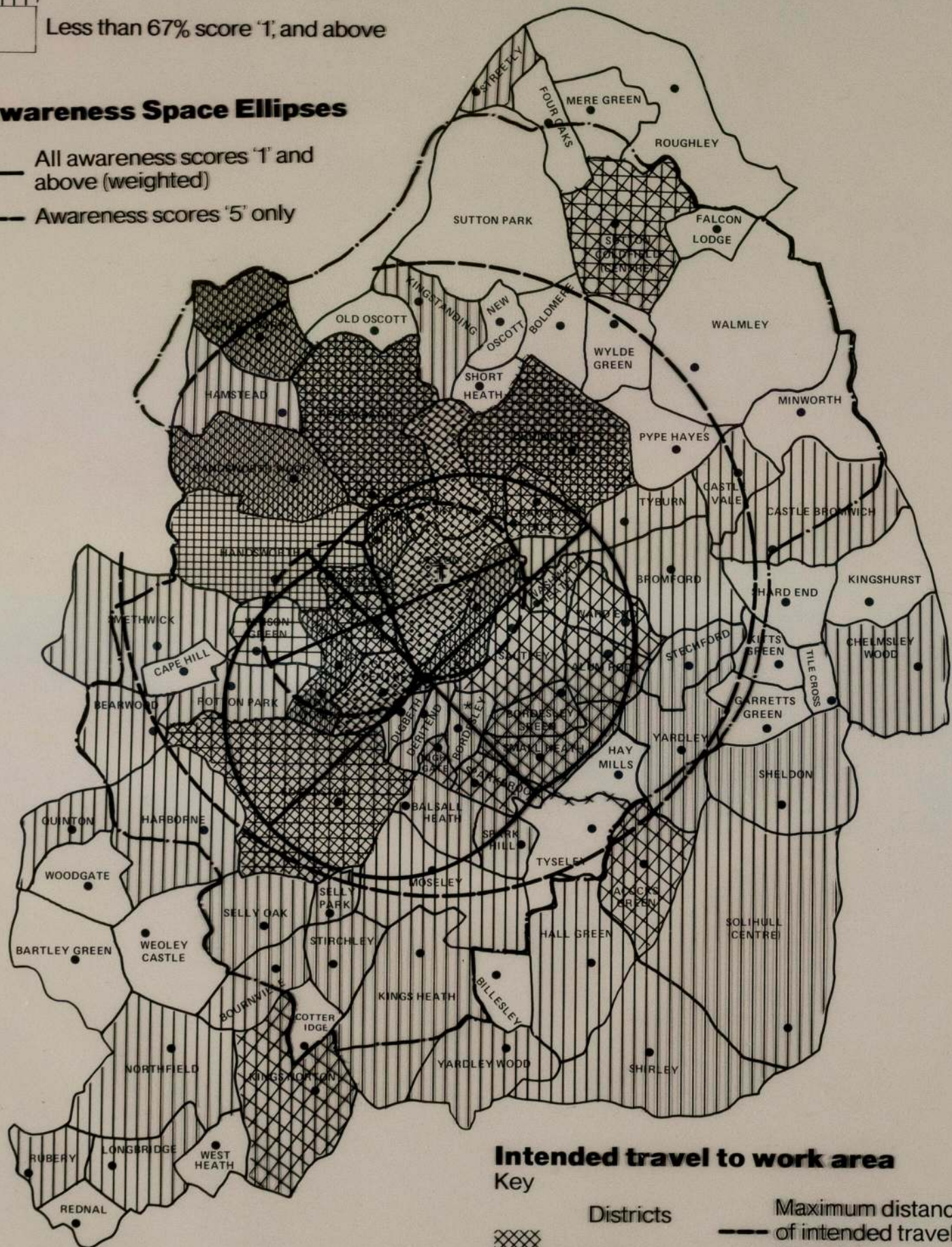
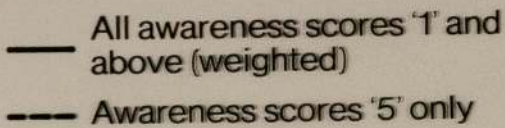


ASTON

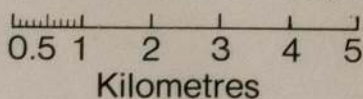
## Awareness of Birmingham



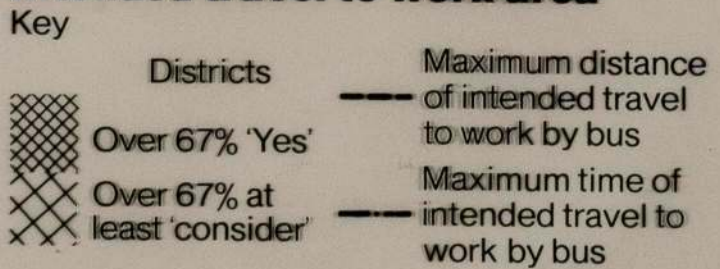
## Awareness Space Ellipses



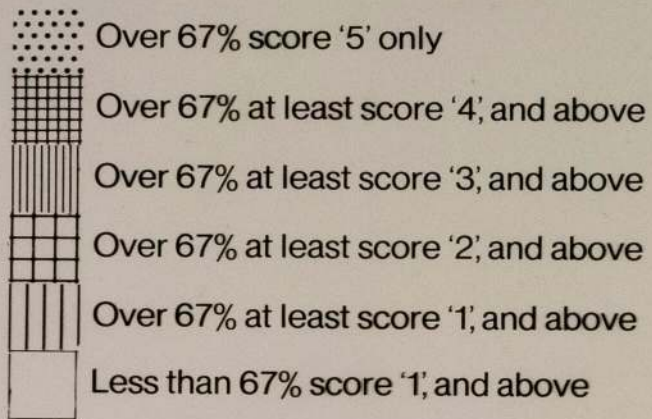
† Home location \* City centre point



## Intended travel to work area



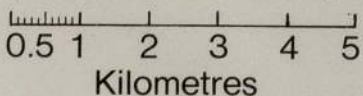
# Awareness of Birmingham



Aston

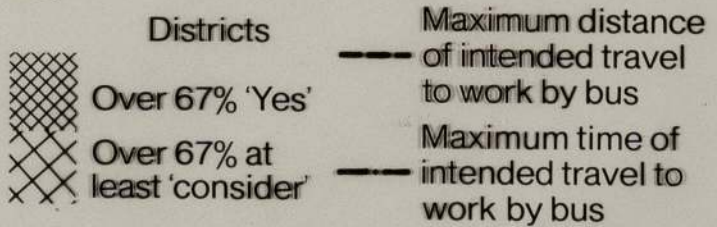


† Home location \* City centre point

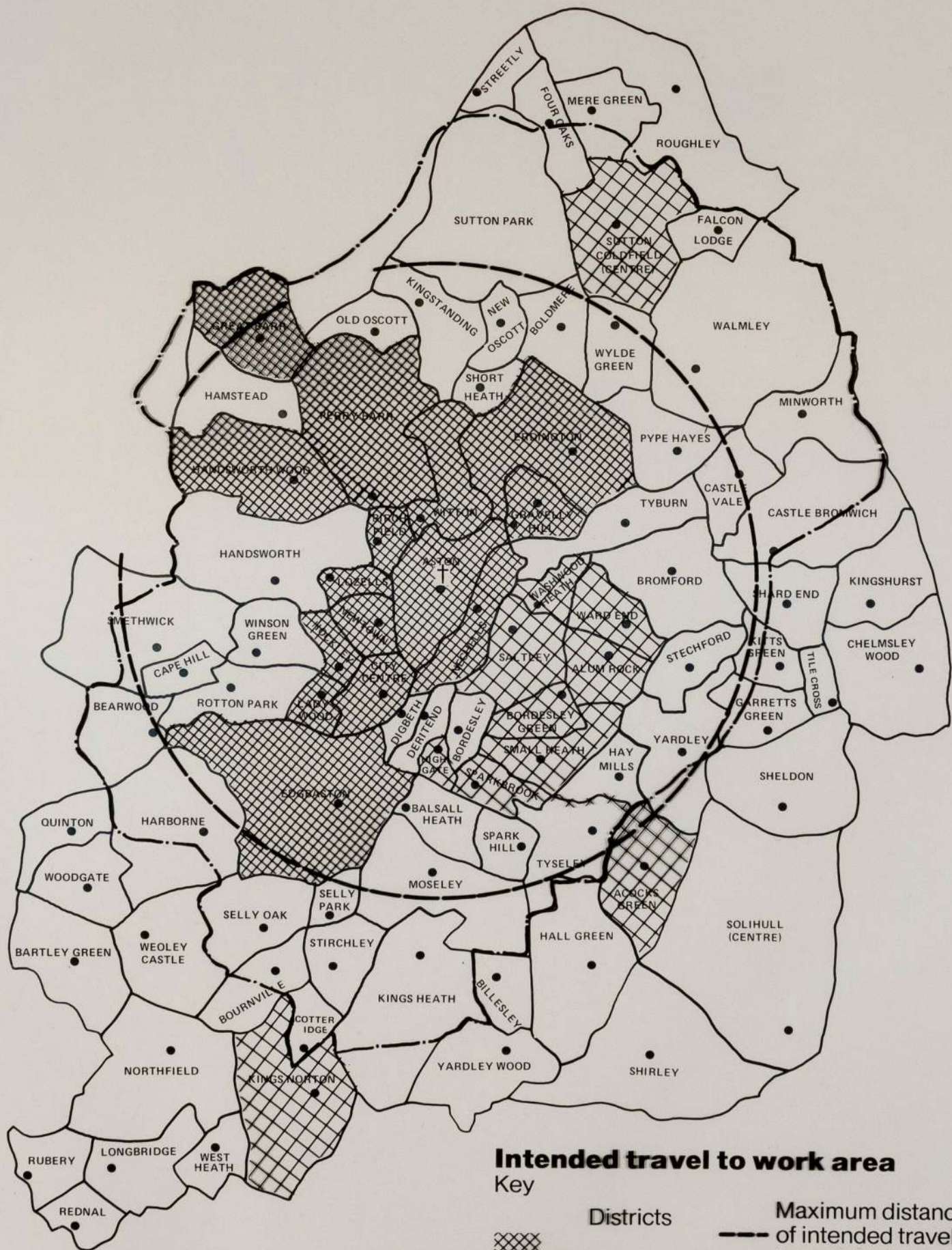


## Intended travel to work area

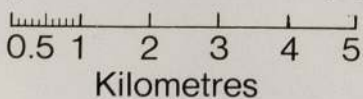
Key



# Aston



† Home location \* City centre point



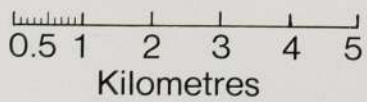
## Intended travel to work area Key

- |   |  |
|---|--|
| <p>Districts</p> <ul style="list-style-type: none"> <li> Over 67% 'Yes'</li> <li> Over 67% at least 'consider'</li> </ul> | <ul style="list-style-type: none"> <li> Maximum distance of intended travel to work by bus</li> <li> Maximum time of intended travel to work by bus</li> </ul> |
|---|--|

# Aston



† Home location \* City centre point



# Vacancy discovery space and vacancy application space

- Vacancy discovery ellipse
- Vacancy application ellipse

Aston

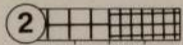


## Search activity space

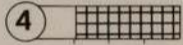
Journey to interview ellipses;

- All modes
- 2 - Car (passenger)
- 3 - Train
- 4 - Bus
- 5 - Cycle
- 6 - Walk

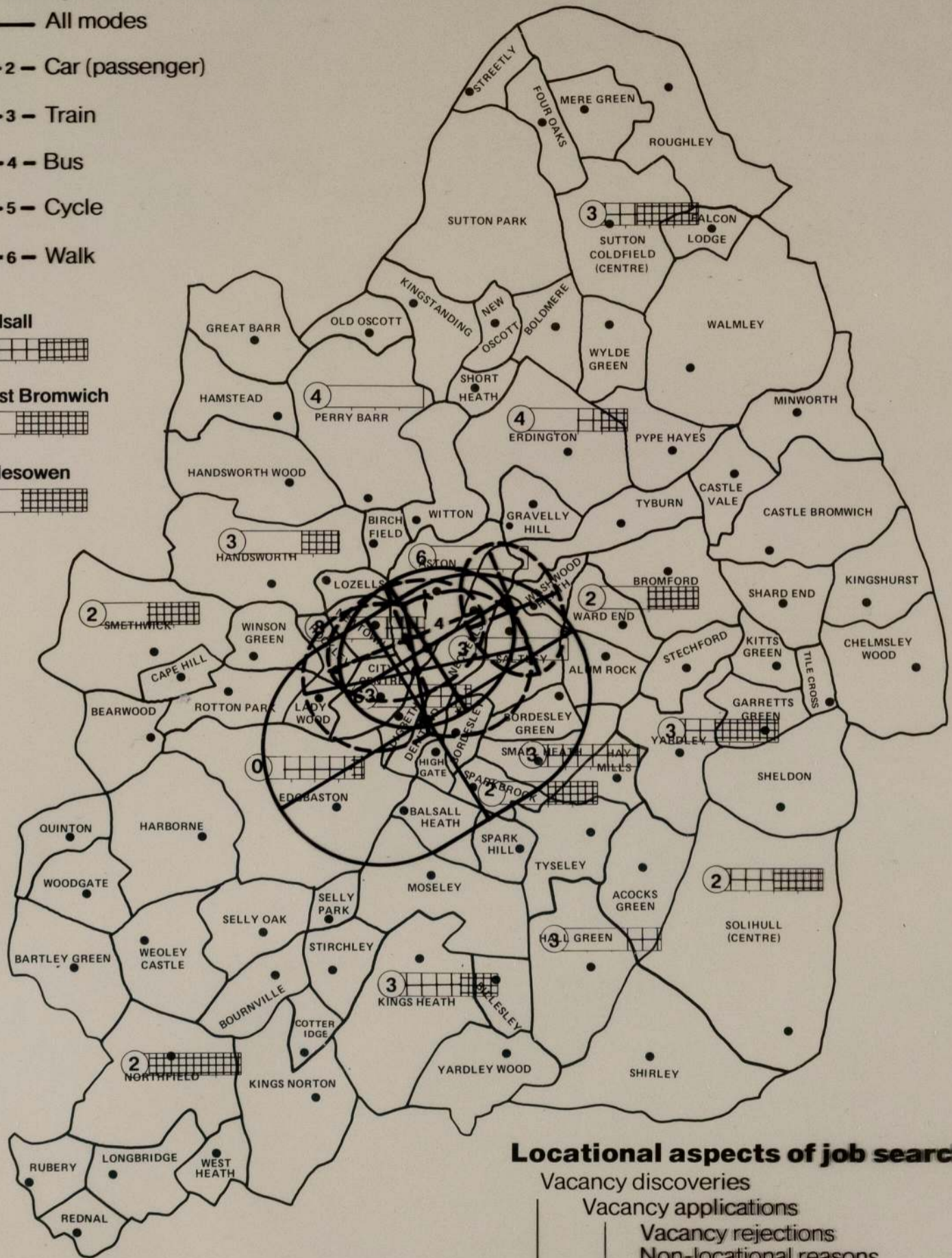
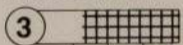
Walsall



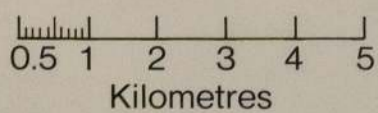
West Bromwich



Halesowen

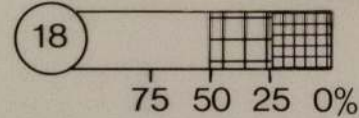


† Home location \* City centre point



## Locational aspects of job search

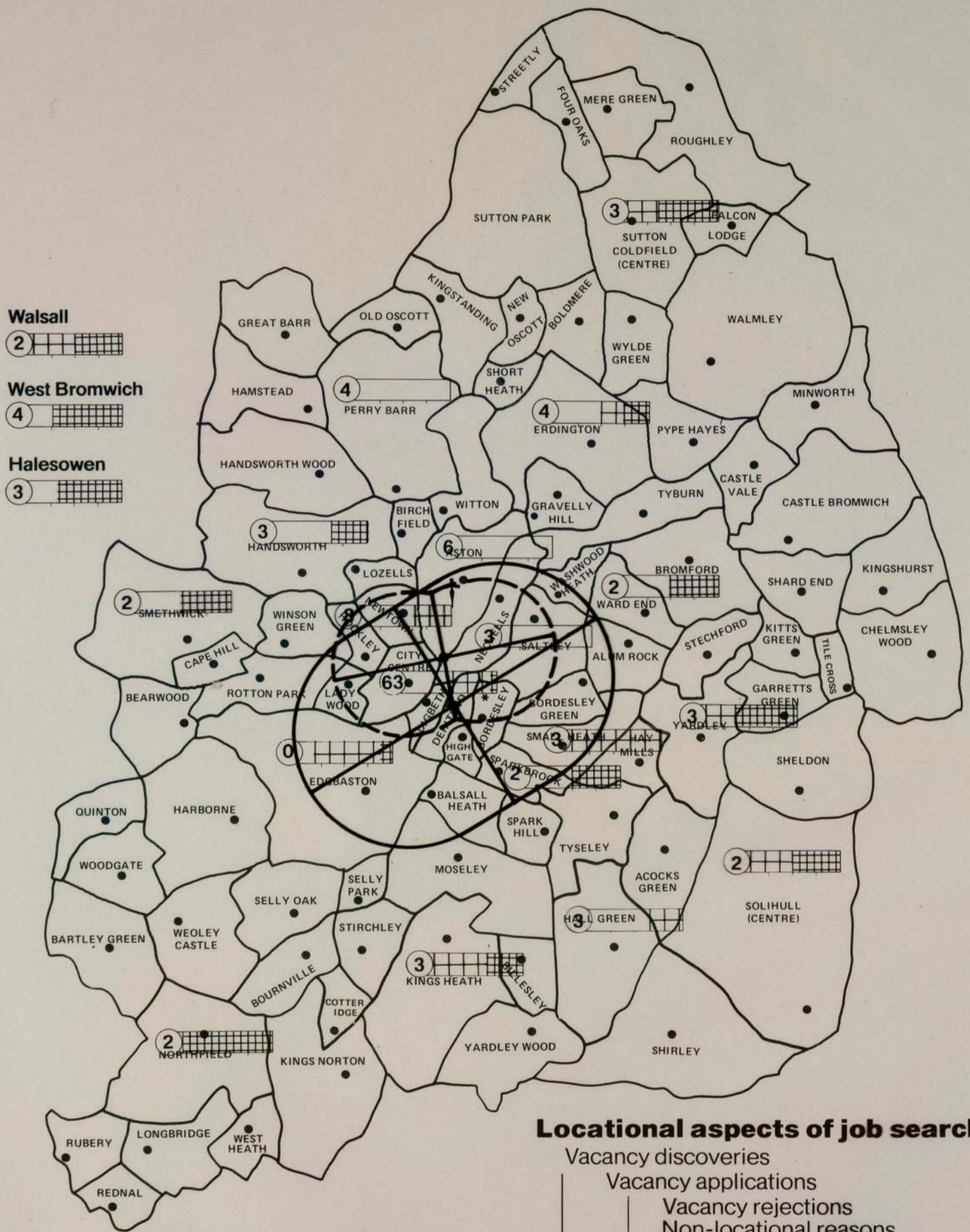
- Vacancy discoveries
- Vacancy applications
- Vacancy rejections
- Non-locational reasons
- Locational reasons



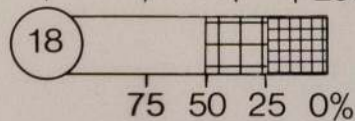
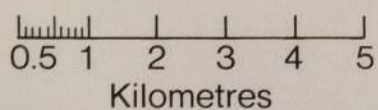
# Vacancy discovery space and vacancy application space

— Vacancy discovery ellipse  
 --- Vacancy application ellipse

Aston



† Home location \* City centre point



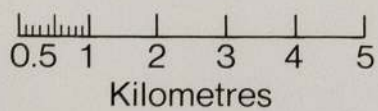
# Aston



- Walsall**  
② [grid pattern]
- West Bromwich**  
④ [grid pattern]
- Halesowen**  
③ [grid pattern]

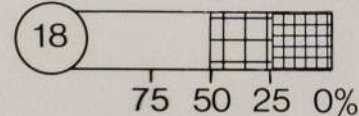


† Home location \* City centre point



## Locational aspects of job search

- Vacancy discoveries
- Vacancy applications
- Vacancy rejections
- Non-locational reasons
- Locational reasons

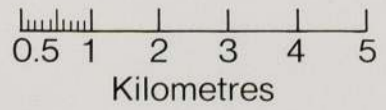




# Aston

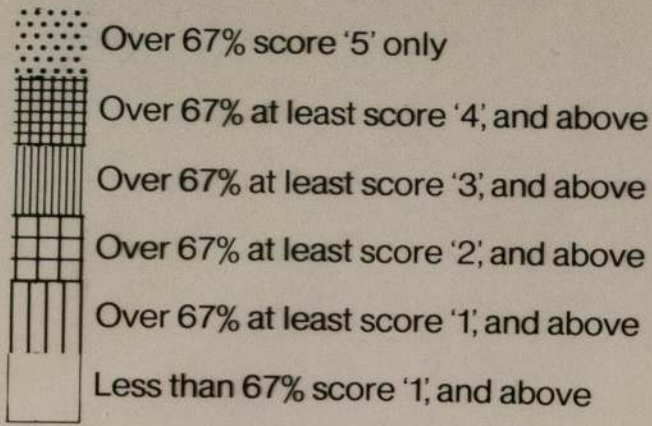


† Home location \* City centre point





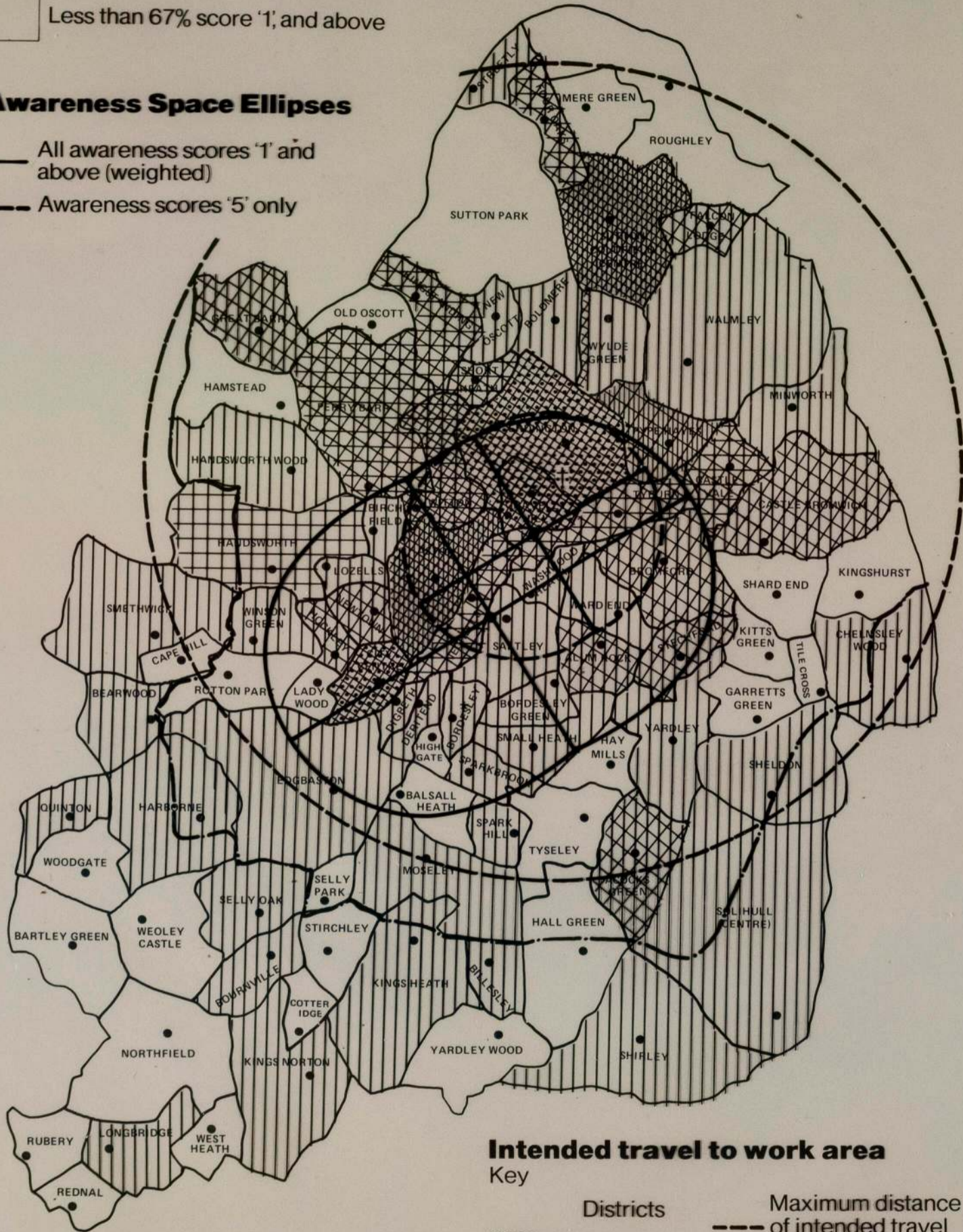
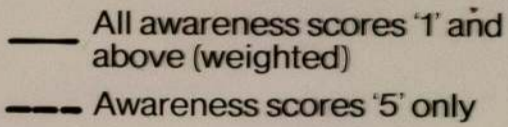
# Awareness of Birmingham



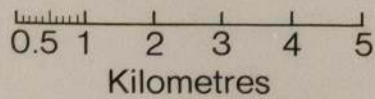
Erdington



## Awareness Space Ellipses

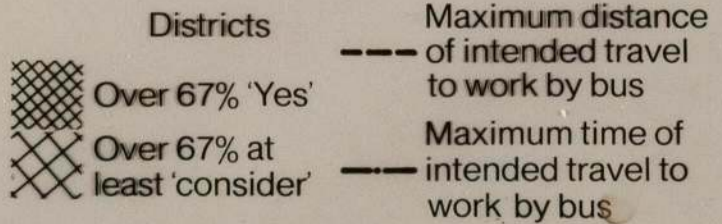


† Home location \* City centre point

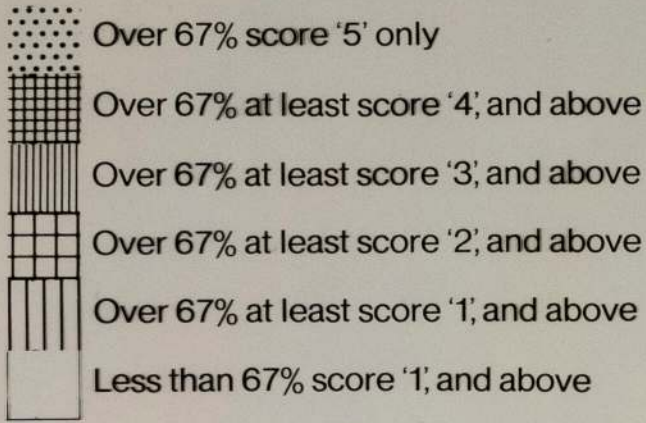


## Intended travel to work area

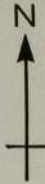
Key



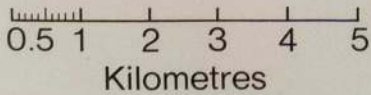
# Awareness of Birmingham



Erdington

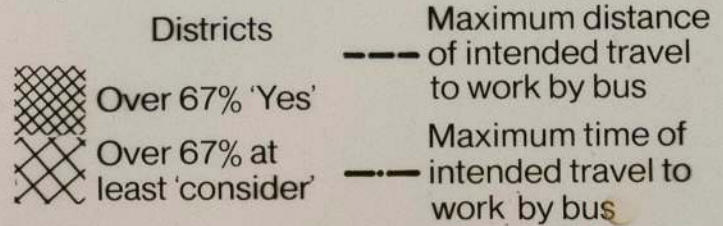


† Home location \* City centre point

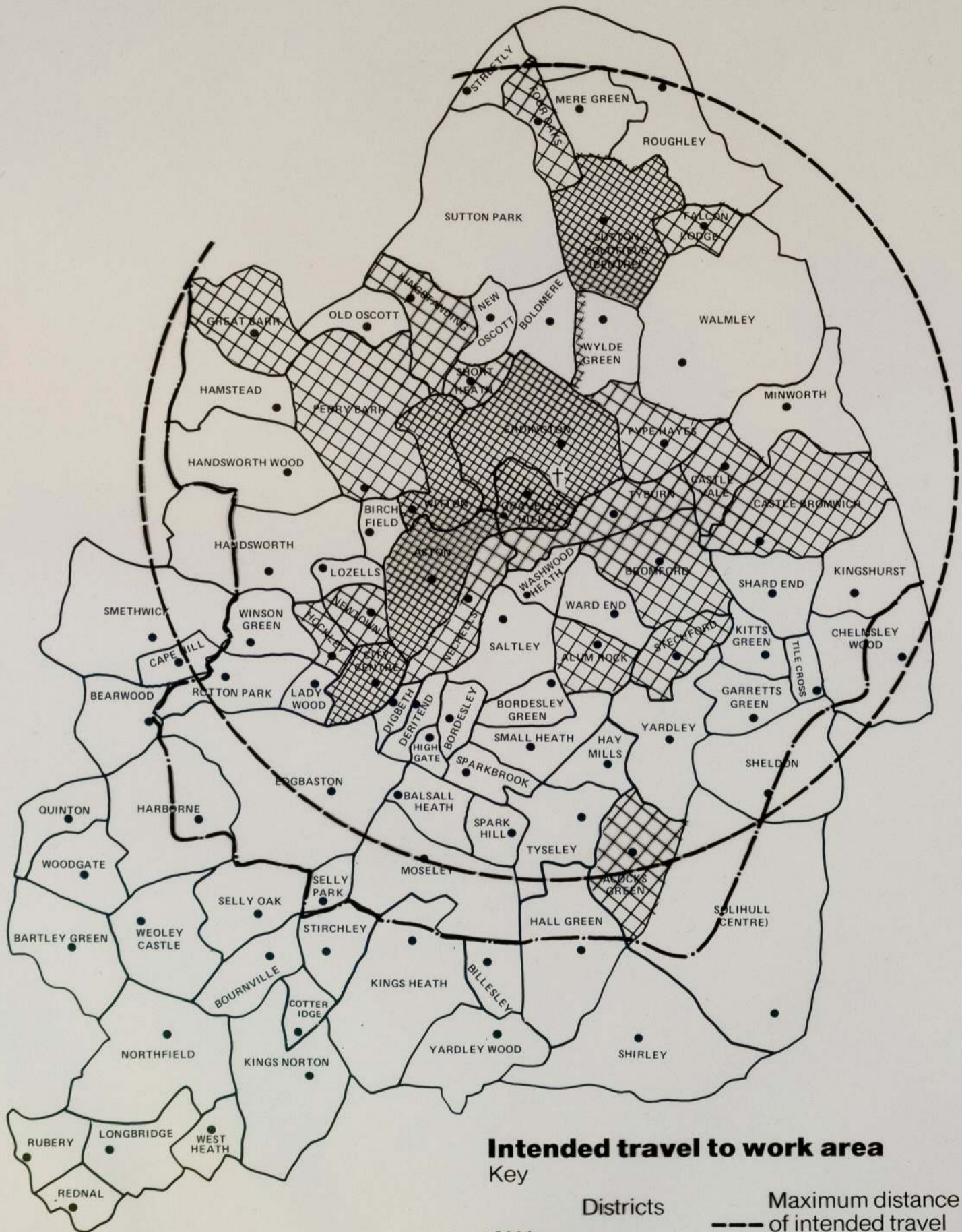


## Intended travel to work area

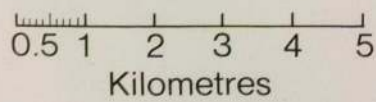
Key



# Erdington



† Home location \* City centre point



## Intended travel to work area

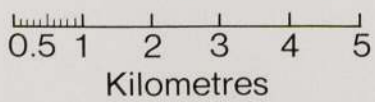
Key

- |   |  |
|---|--|
| <p>Districts</p> <ul style="list-style-type: none"> <li> Over 67% 'Yes'</li> <li> Over 67% at least 'consider'</li> </ul> | <ul style="list-style-type: none"> <li> Maximum distance of intended travel to work by bus</li> <li> Maximum time of intended travel to work by bus</li> </ul> |
|---|--|

# Erdington



† Home location \* City centre point



# Vacancy discovery space and vacancy application space

— Vacancy discovery ellipse

--- Vacancy application ellipse

## Search activity space

Journey to interview ellipses;

— All modes

-2- Car (passenger)

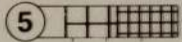
-3- Train

-4- Bus

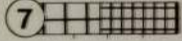
-5- Cycle

-6- Walk

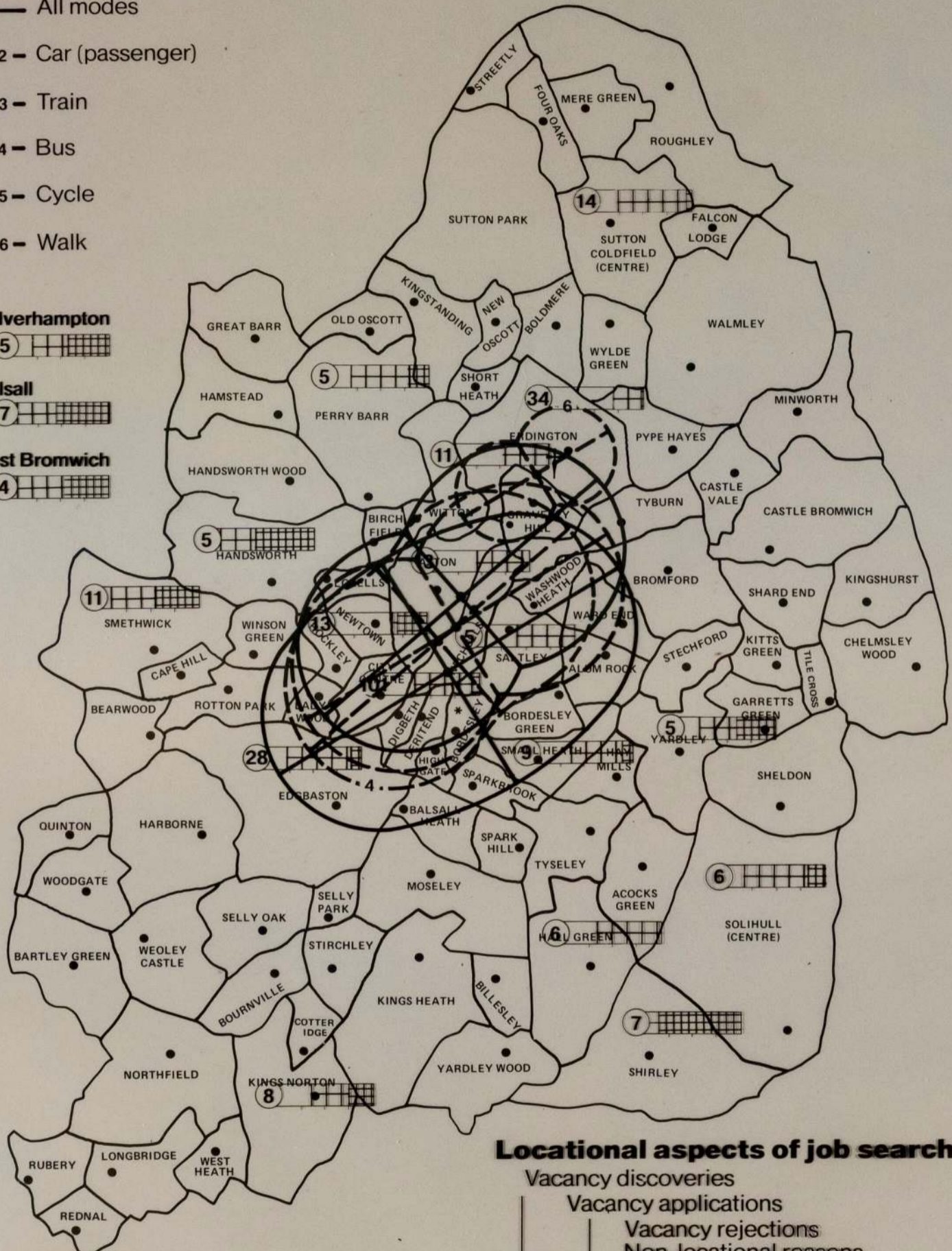
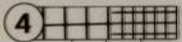
Wolverhampton



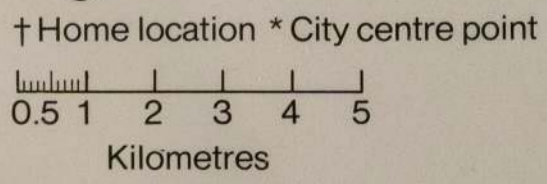
Walsall



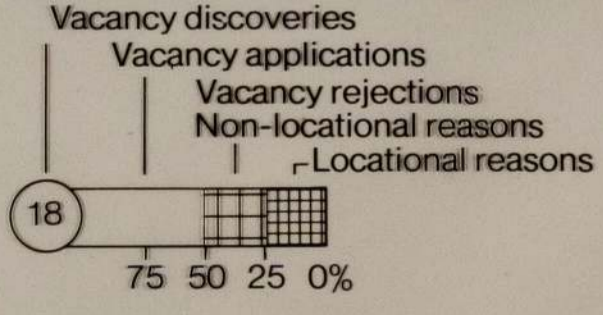
West Bromwich



Erdington



### Locational aspects of job search



## Vacancy discovery space and vacancy application space

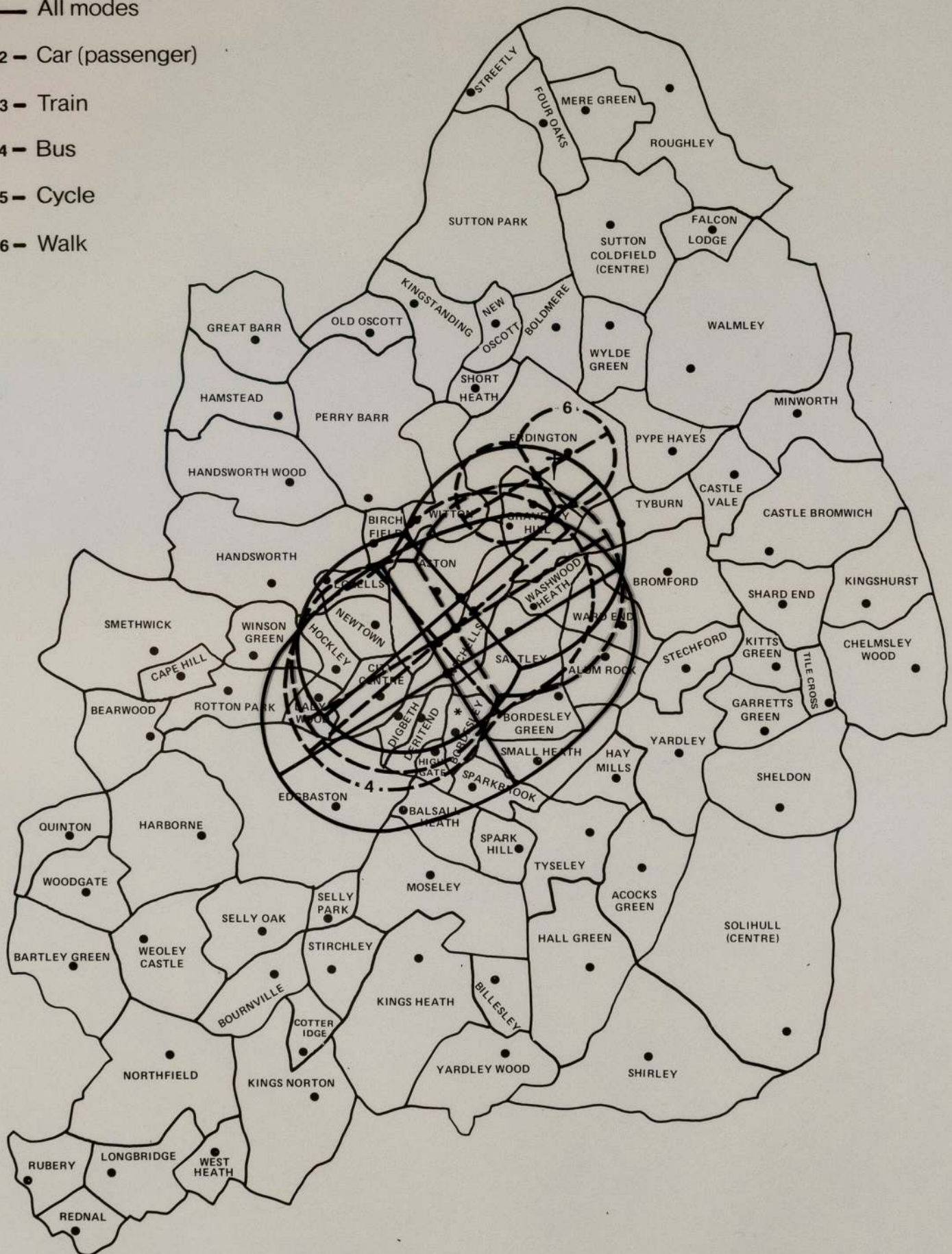
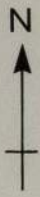
- Vacancy discovery ellipse
- - - Vacancy application ellipse

## Search activity space

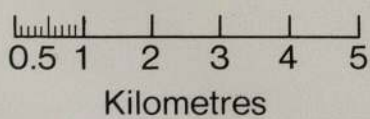
Journey to interview ellipses;

- All modes
- 2 - Car (passenger)
- 3 - Train
- 4 - Bus
- 5 - Cycle
- 6 - Walk

Erdington

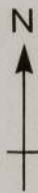


† Home location \* City centre point





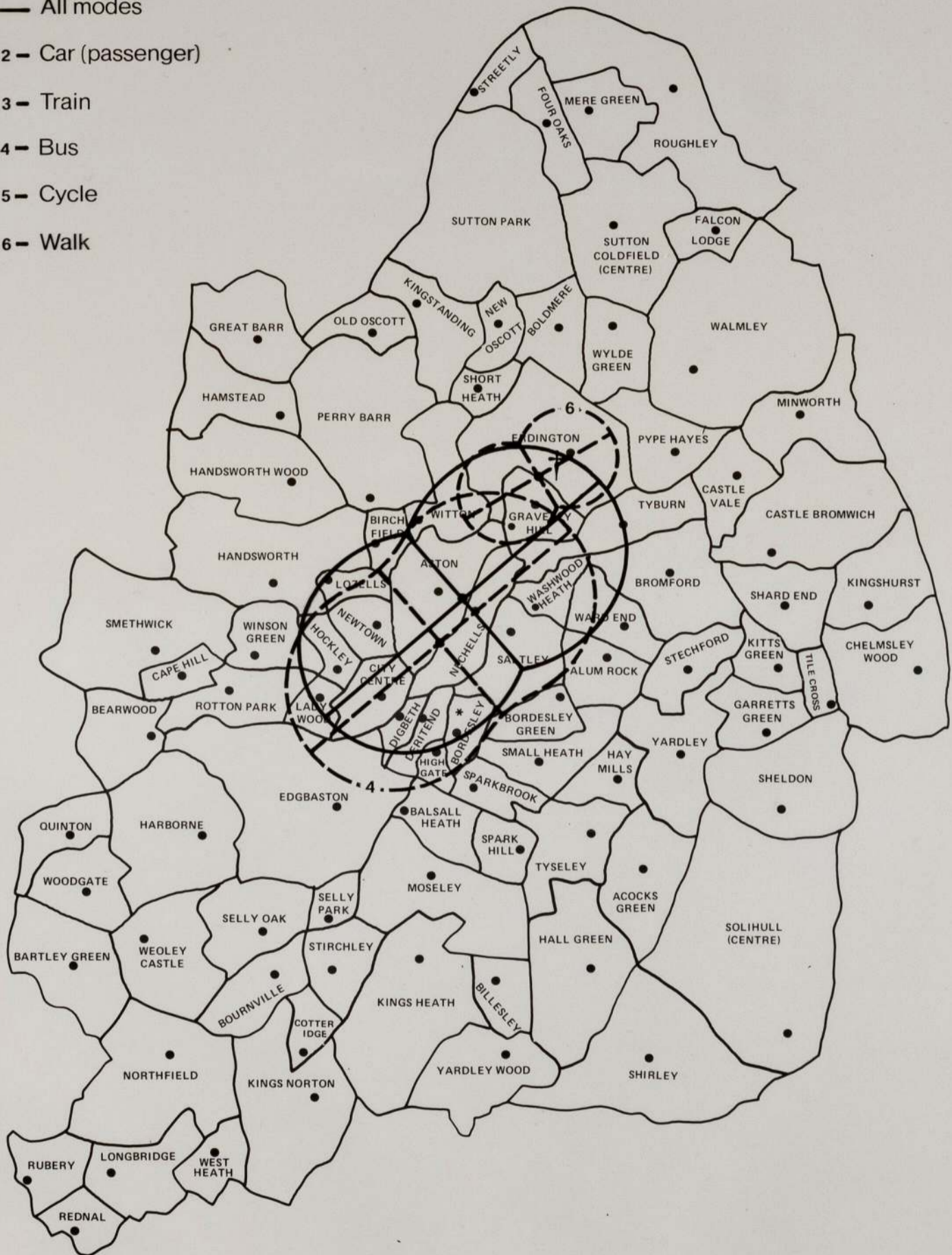
# Erdington



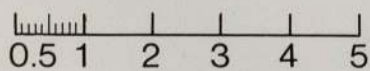
## Search activity space

Journey to interview ellipses;

- All modes
- 2- Car (passenger)
- 3- Train
- 4- Bus
- 5- Cycle
- 6- Walk



† Home location \* City centre point

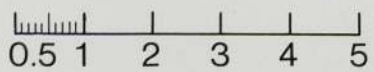


Kilometres

# Erdington



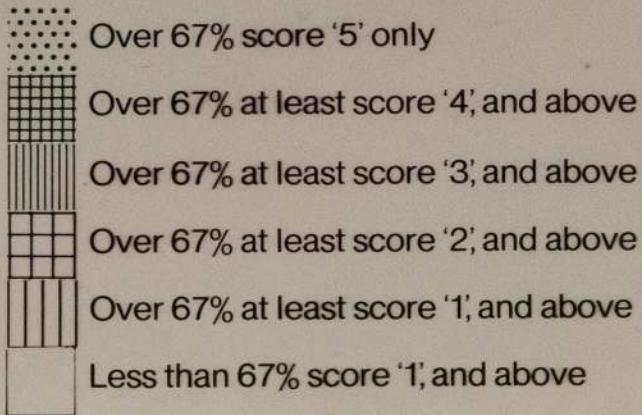
† Home location \* City centre point



Kilometres

CASTLE  
VALE

# Awareness of Birmingham

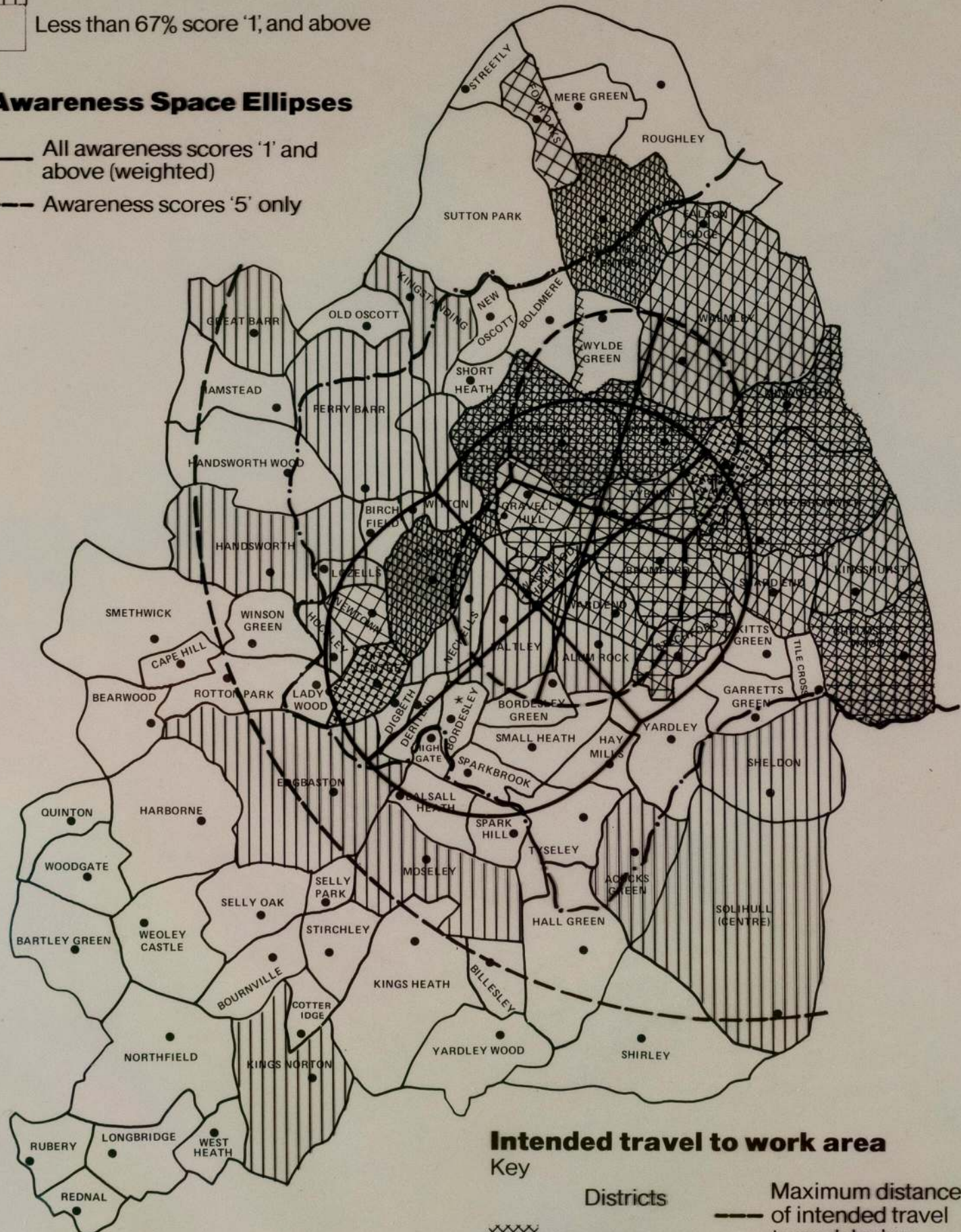


Castle Vale

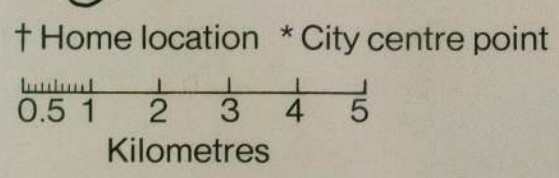
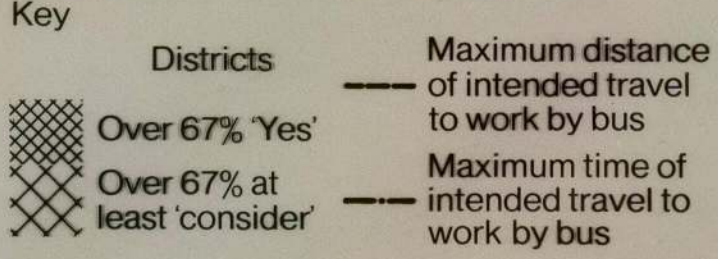


## Awareness Space Ellipses

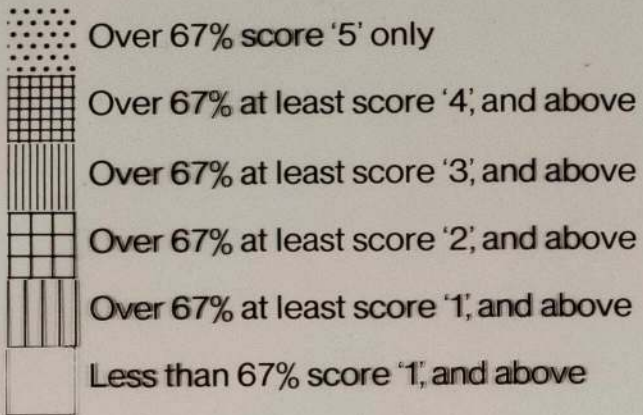
- All awareness scores '1' and above (weighted)
- - - Awareness scores '5' only



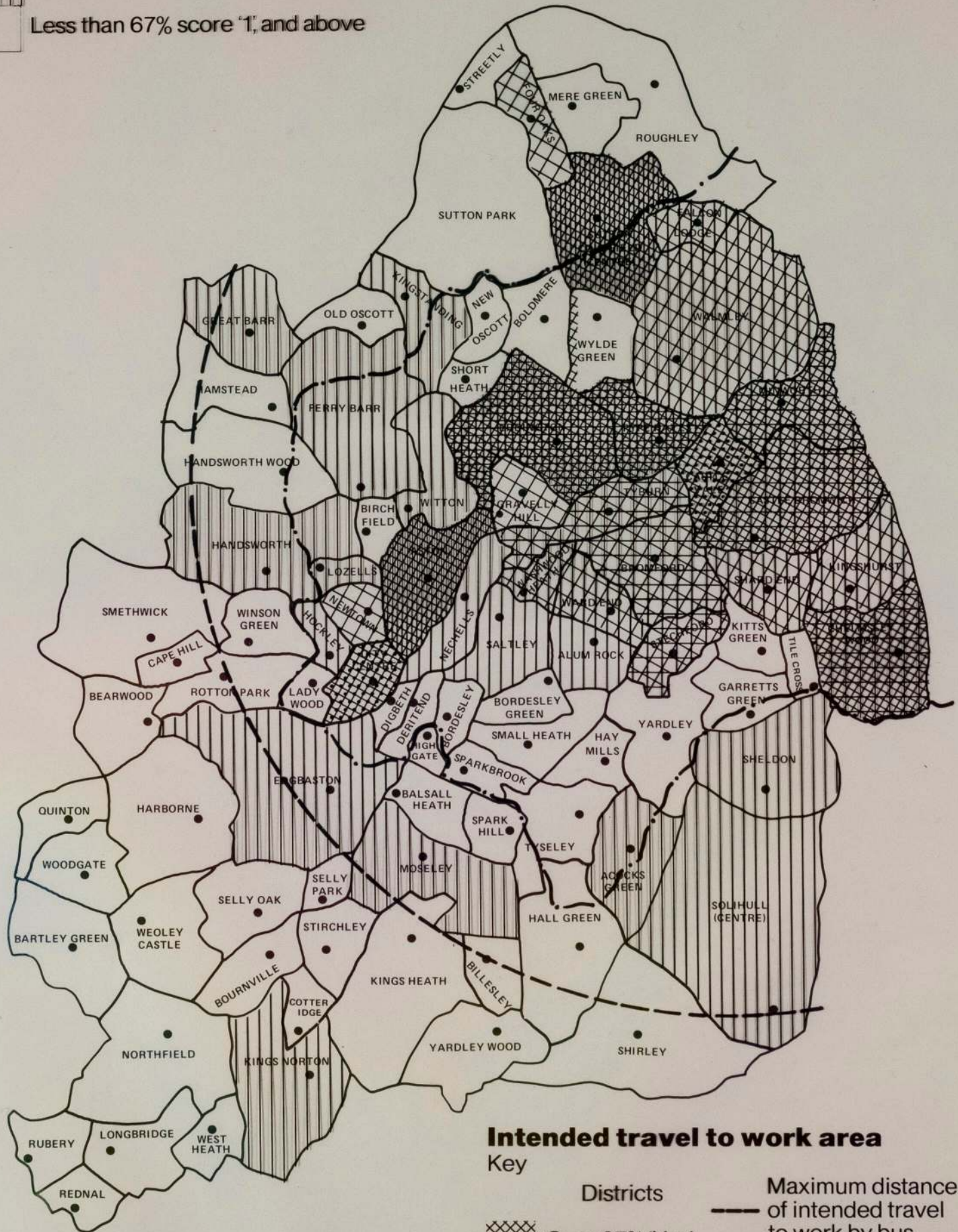
## Intended travel to work area



# Awareness of Birmingham

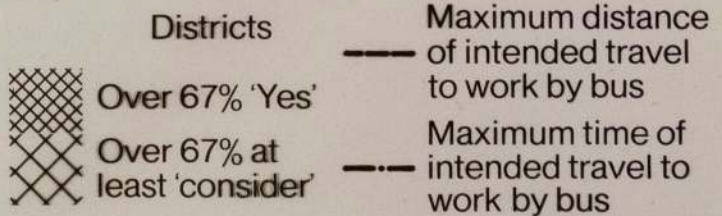


Castle Vale

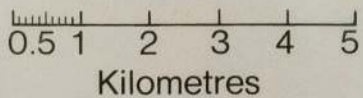


## Intended travel to work area

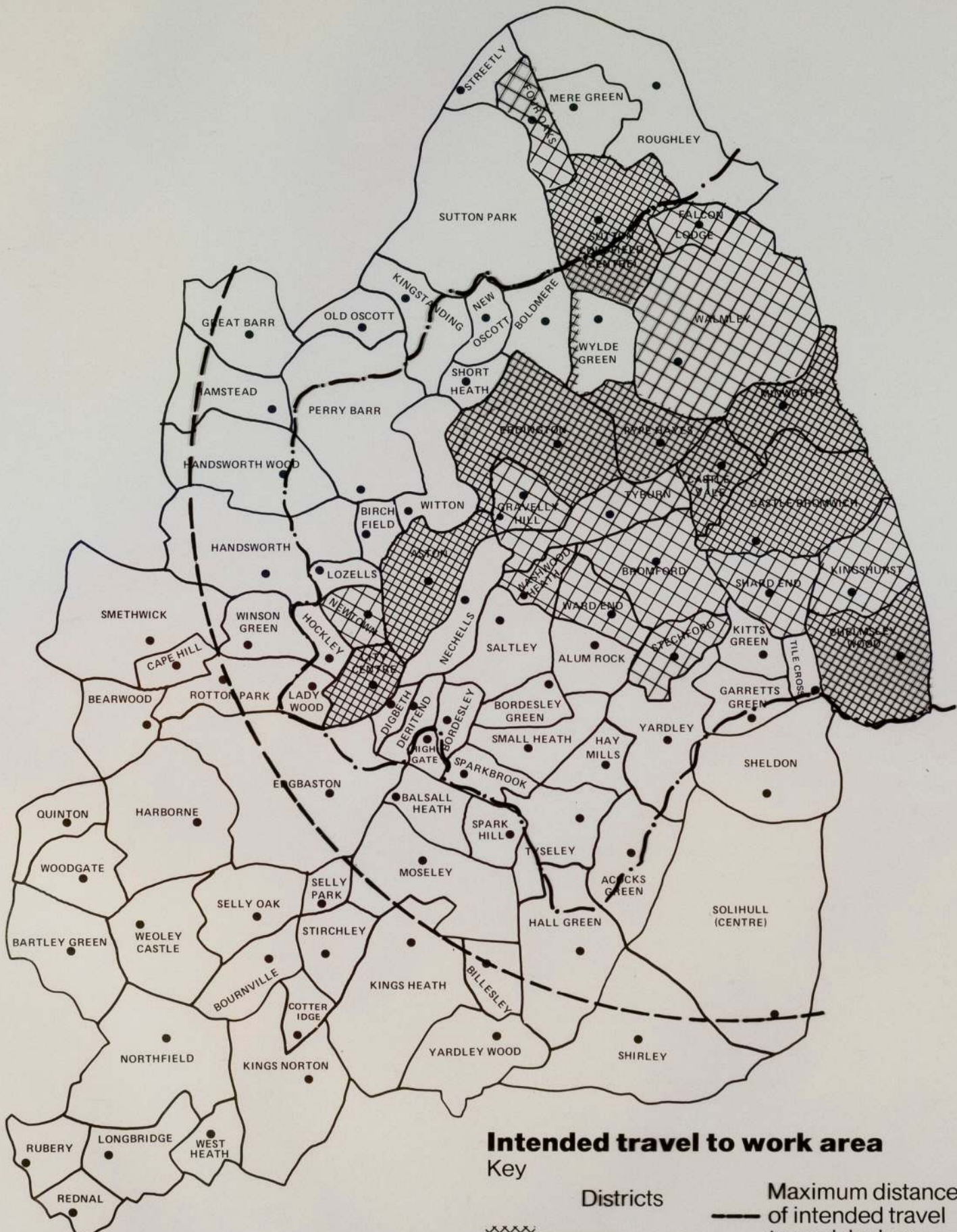
Key



† Home location \* City centre point



# Castle Vale



† Home location \* City centre point  
 0.5 1 2 3 4 5  
 Kilometres

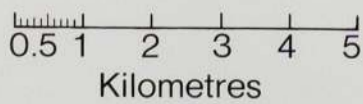
## Intended travel to work area

- Key
- Districts
  - Over 67% 'Yes'
  - Over 67% at least 'consider'
  - Maximum distance of intended travel to work by bus
  - Maximum time of intended travel to work by bus

# Castle Vale



† Home location \* City centre point



# Vacancy discovery space and vacancy application space

— Vacancy discovery ellipse

- - - Vacancy application ellipse

Castle Vale



## Search activity space

Journey to interview ellipses;

— All modes

- 2 - Car (passenger)

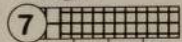
- 3 - Train

- 4 - Bus

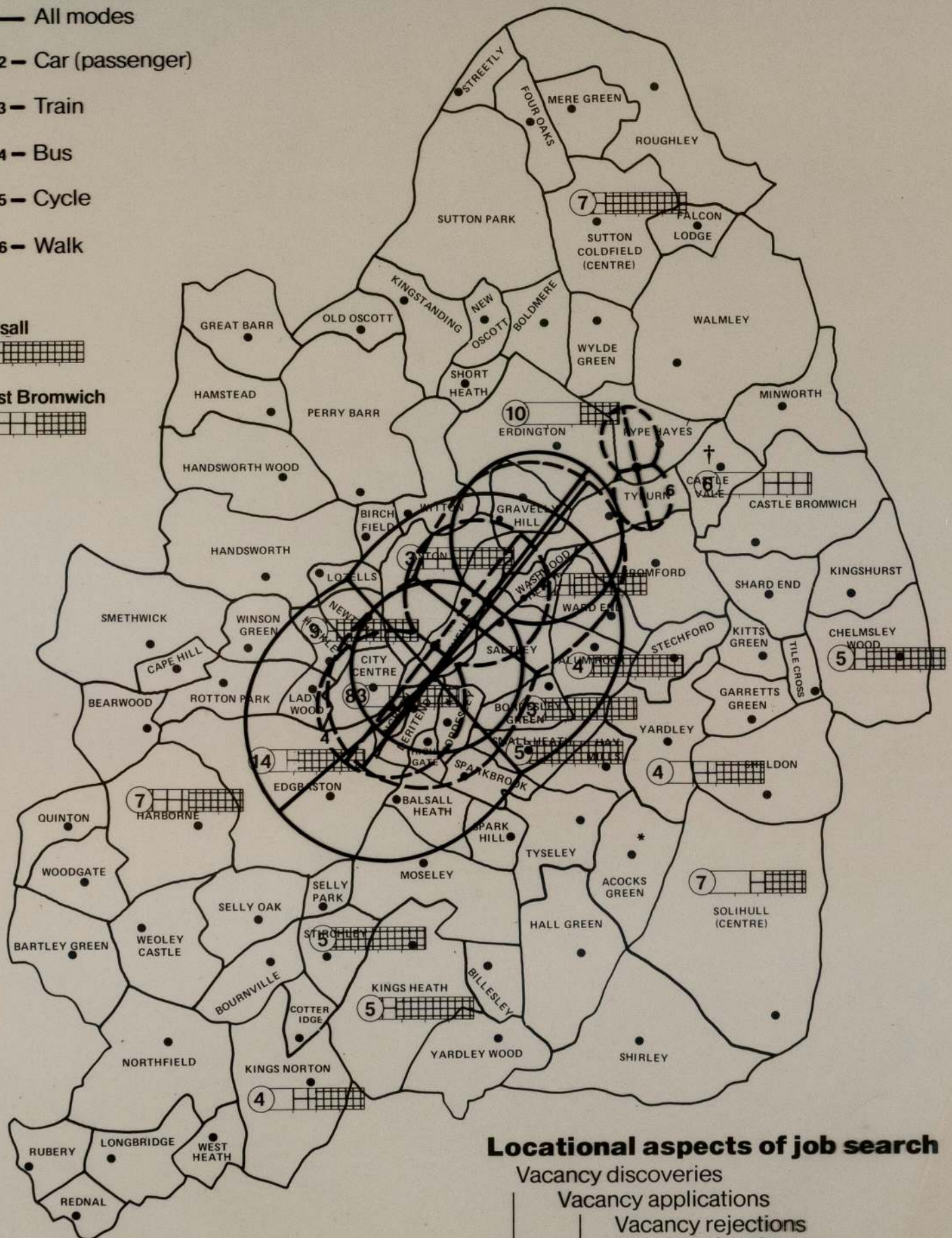
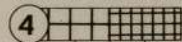
- 5 - Cycle

- 6 - Walk

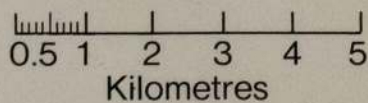
Walsall



West Bromwich



† Home location \* City centre point



## Locational aspects of job search

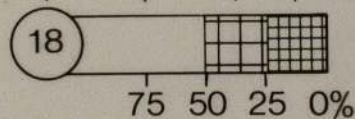
Vacancy discoveries

Vacancy applications

Vacancy rejections

Non-locational reasons

Locational reasons





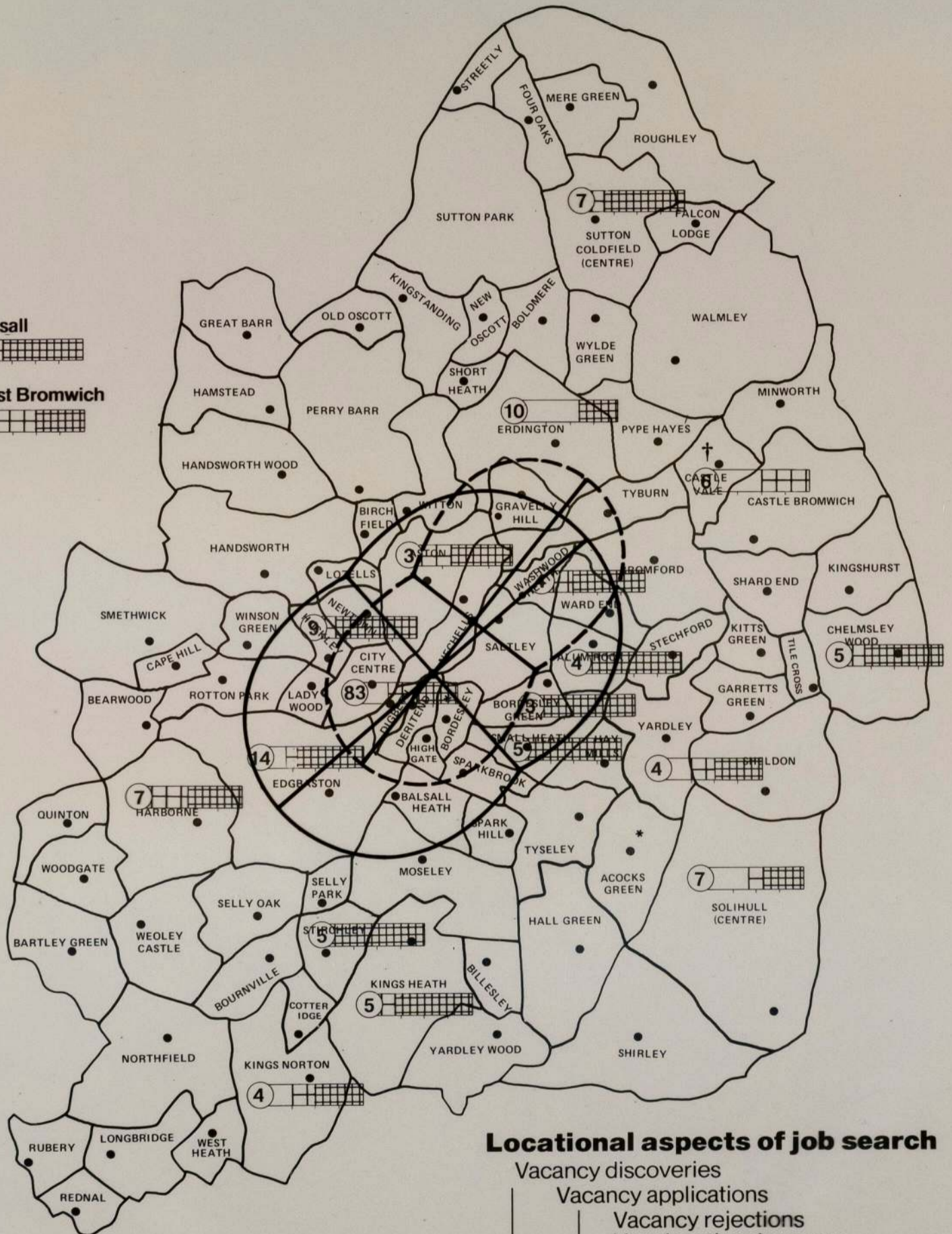
# Vacancy discovery space and vacancy application space

- Vacancy discovery ellipse
- - - Vacancy application ellipse

Castle Vale



- Walsall  
 7
- West Bromwich  
 4



† Home location \* City centre point

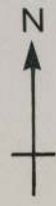
0.5 1 2 3 4 5  
 Kilometres

**Locational aspects of job search**

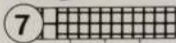
- Vacancy discoveries
- Vacancy applications
- Vacancy rejections
- Non-local reasons
- Local reasons

18   
 75 50 25 0%

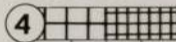
# Castle Vale



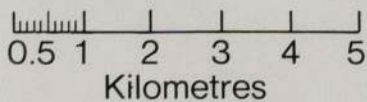
Walsall



West Bromwich

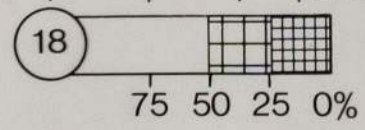


† Home location \* City centre point



## Locational aspects of job search

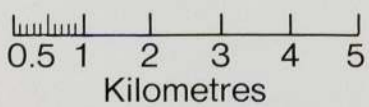
- Vacancy discoveries
- Vacancy applications
- Vacancy rejections
- Non-locational reasons
- Locational reasons



# Castle Vale

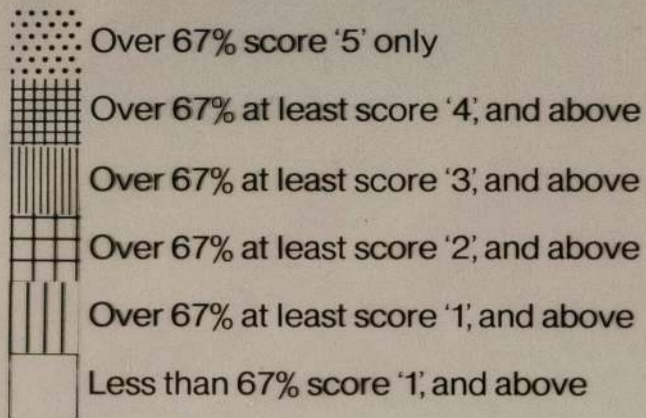


† Home location \* City centre point





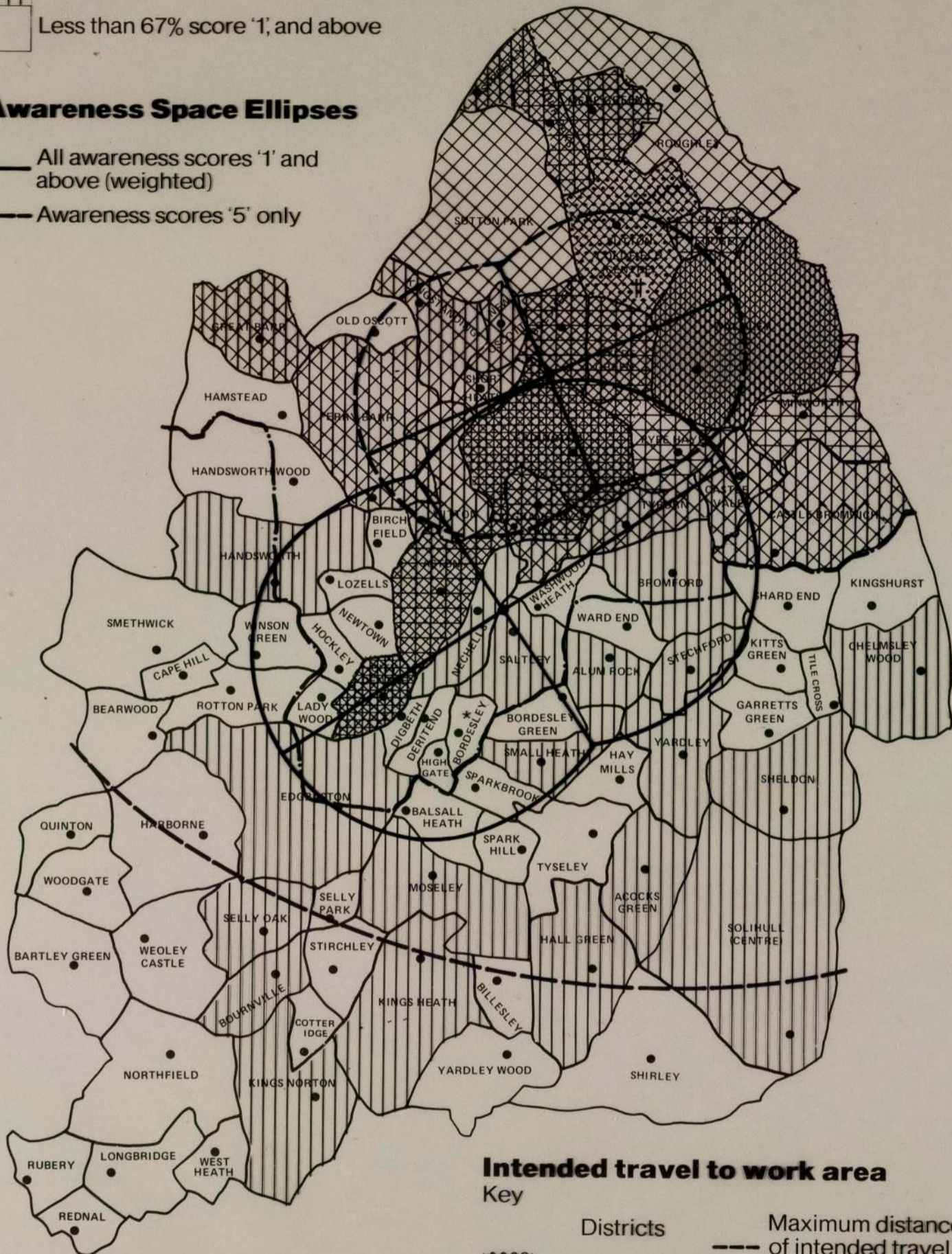
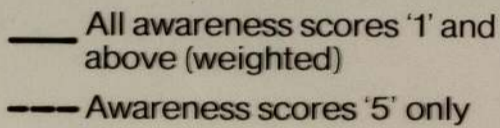
## Awareness of Birmingham



Sutton (Total sample)

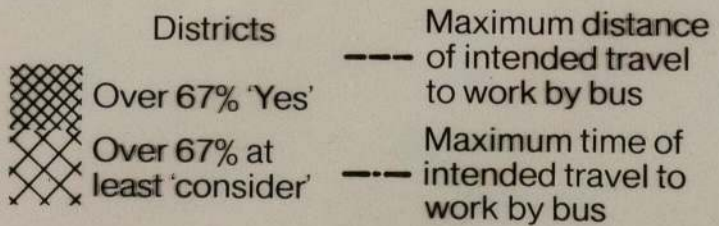


## Awareness Space Ellipses

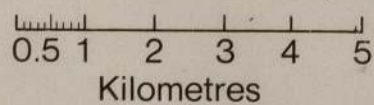


## Intended travel to work area

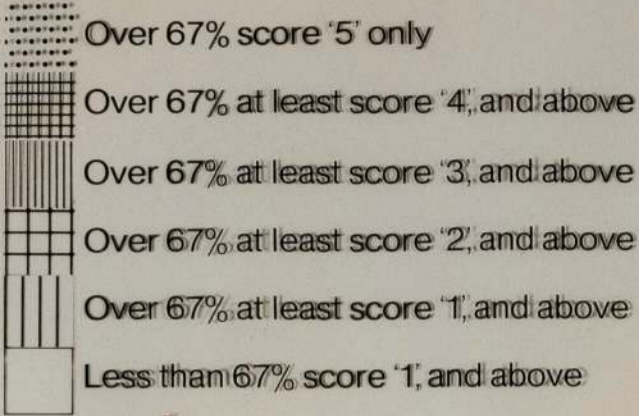
Key



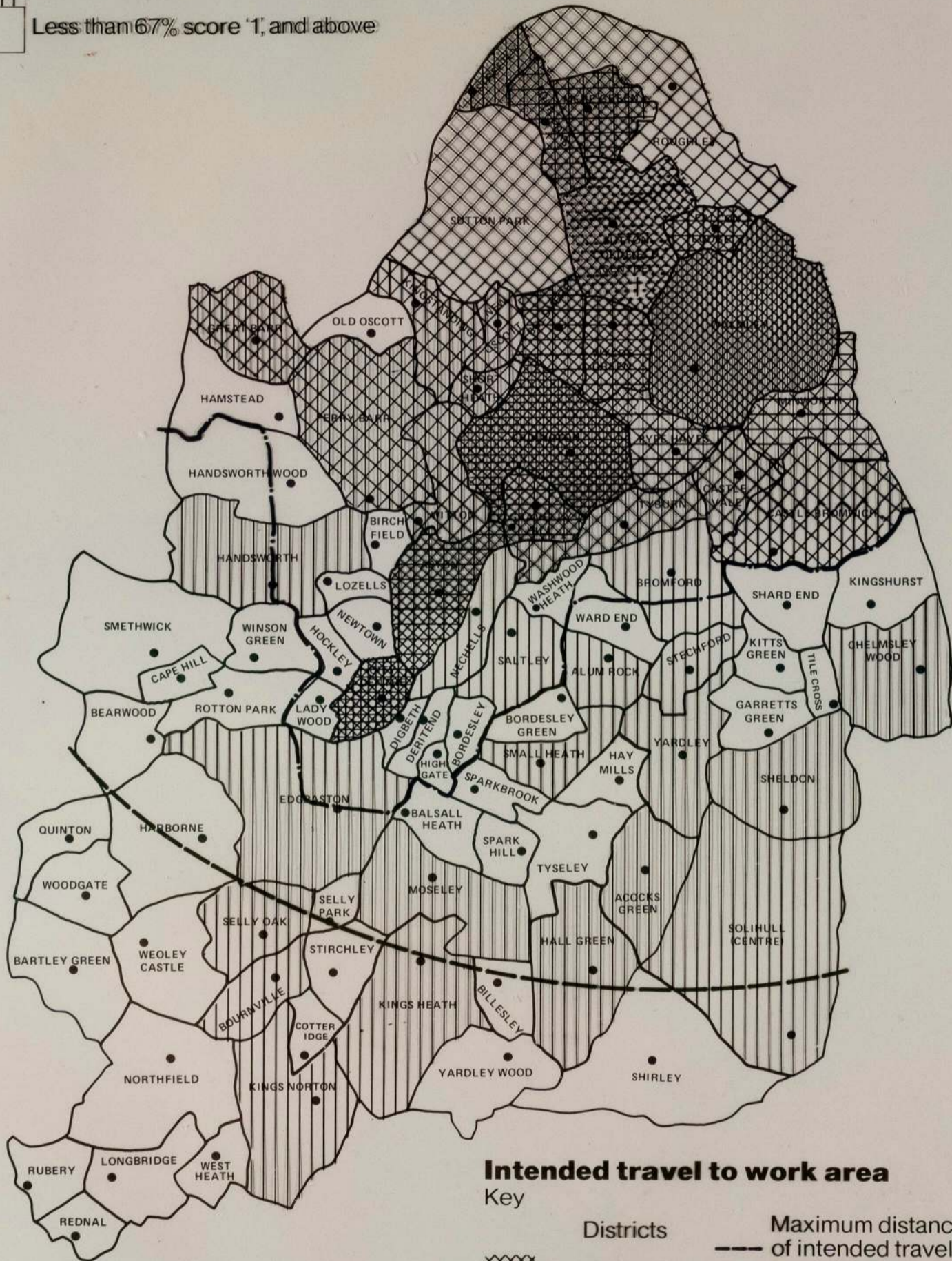
† Home location \*City centre point



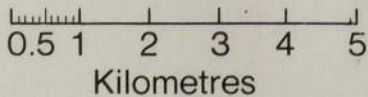
# Awareness of Birmingham



Sutton (Total sample)

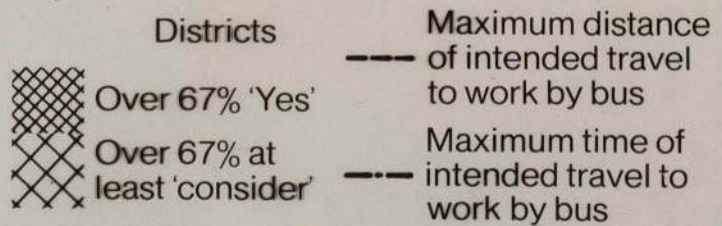


† Home location \*City centre point

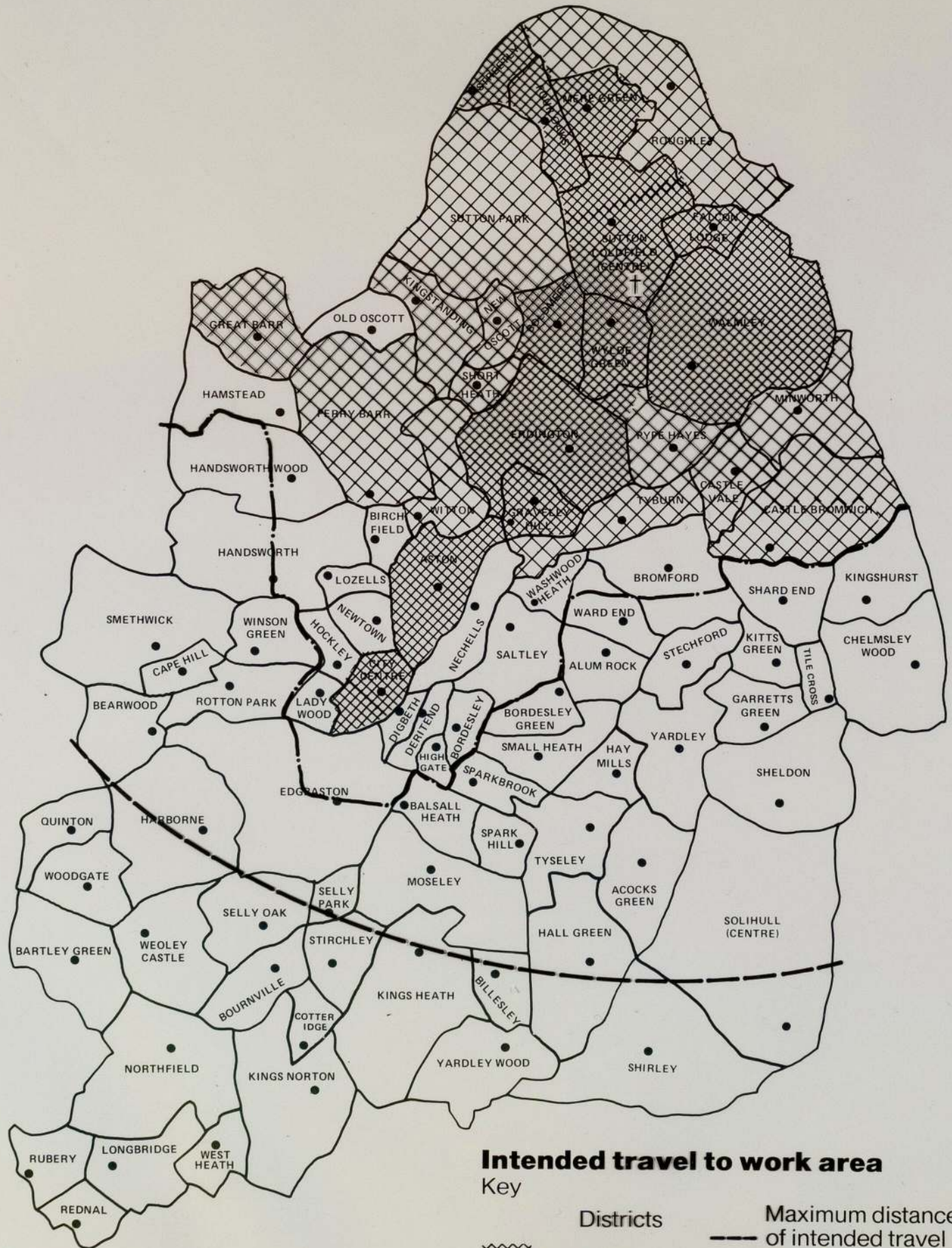


## Intended travel to work area

Key



Sutton (Total sample)



† Home location \*City centre point  
 0.5 1 2 3 4 5  
 Kilometres

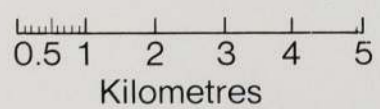
**Intended travel to work area**  
 Key

- |  |  |
|--|--|
| <p><b>Districts</b></p> <ul style="list-style-type: none"> <li> Over 67% 'Yes'</li> <li> Over 67% at least 'consider'</li> </ul> | <ul style="list-style-type: none"> <li> Maximum distance of intended travel to work by bus</li> <li> Maximum time of intended travel to work by bus</li> </ul> |
|--|--|

Sutton (Total sample)



† Home location \*City centre point





# Vacancy discovery space and vacancy application space

— Vacancy discovery ellipse

--- Vacancy application ellipse

Total 'Sutton' sample



## Search activity space

Journey to interview ellipses;

— All modes

-2- Car (passenger)

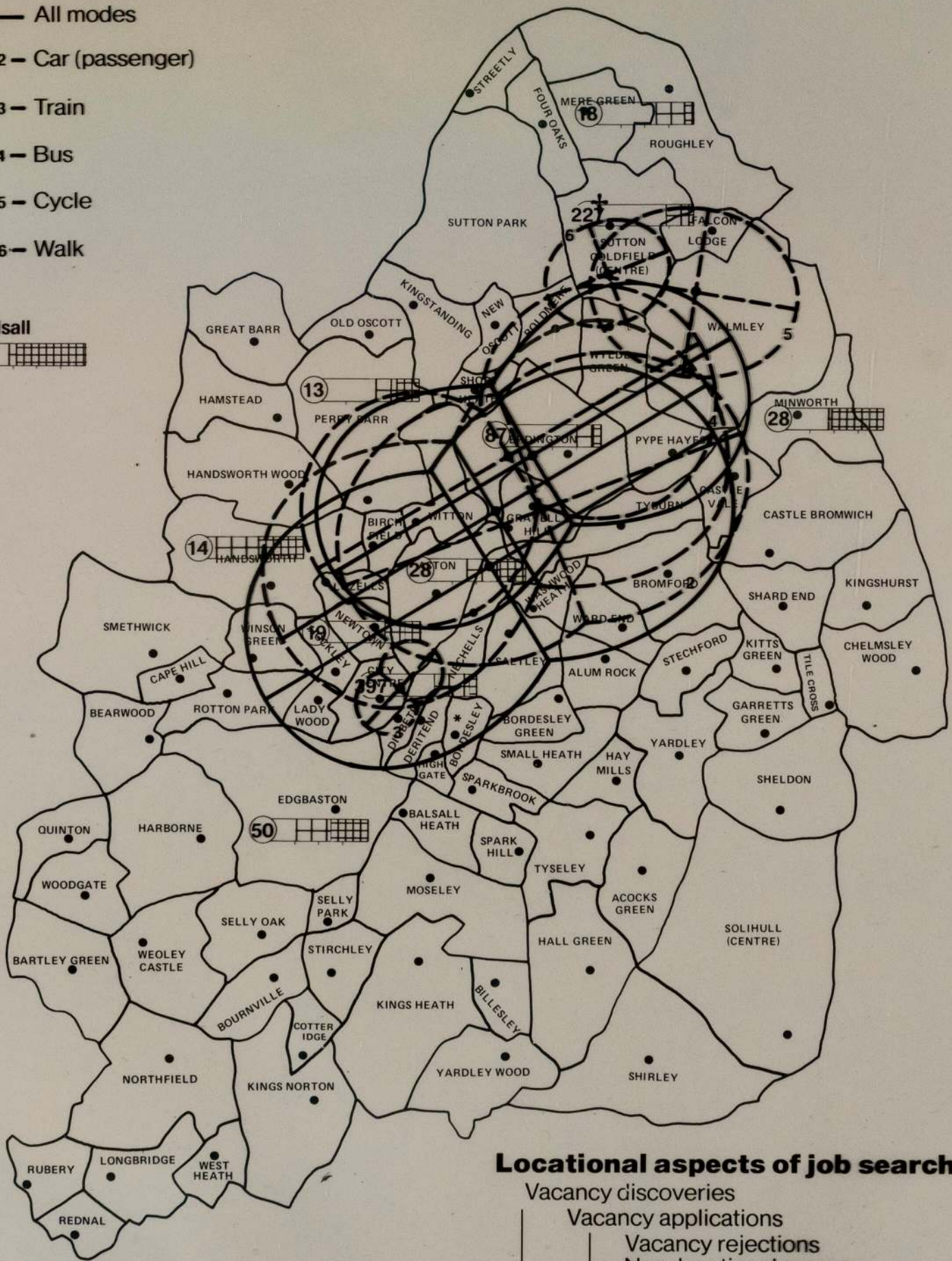
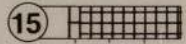
-3- Train

-4- Bus

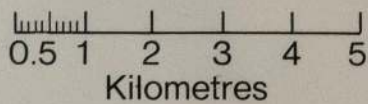
-5- Cycle

-6- Walk

Walsall



† Home location \* City centre point



## Locational aspects of job search

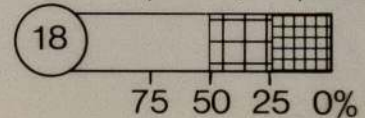
Vacancy discoveries

Vacancy applications

Vacancy rejections

Non-locational reasons

Locational reasons



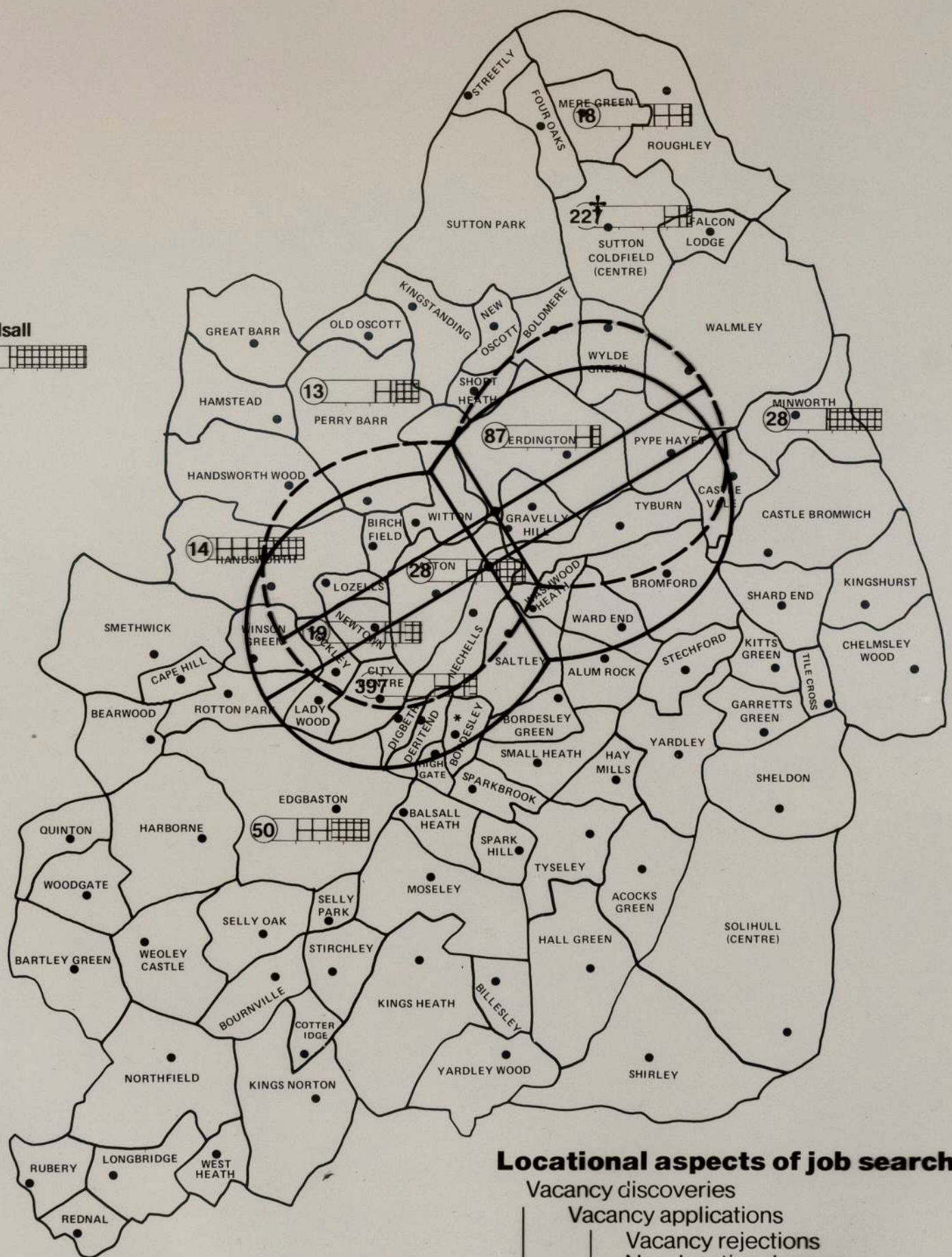
# Vacancy discovery space and vacancy application space

— Vacancy discovery ellipse  
 --- Vacancy application ellipse

Total 'Sutton' sample

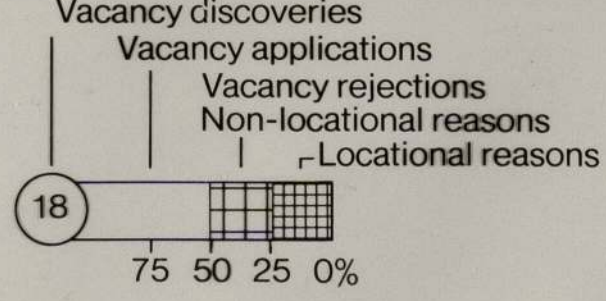


Walsall  
 15



† Home location \* City centre point  
 0.5 1 2 3 4 5  
 Kilometres

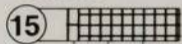
## Locational aspects of job search



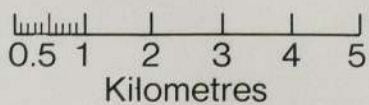
Total 'Sutton' sample



Walsall

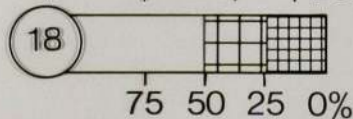


† Home location \* City centre point



Locational aspects of job search

- Vacancy discoveries
- Vacancy applications
- Vacancy rejections
- Non-local reasons
- Locational reasons

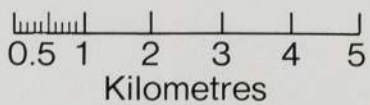


75 50 25 0%

Total 'Sutton' sample

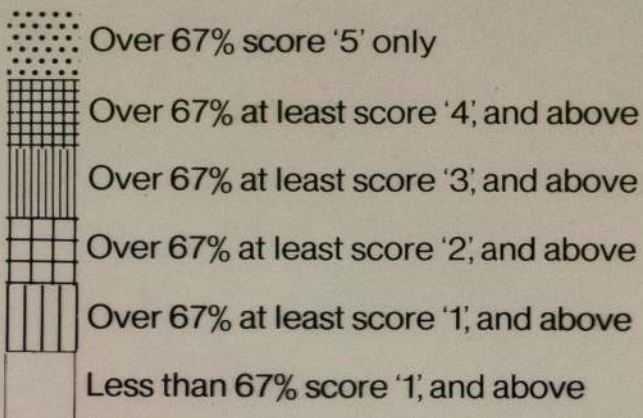


† Home location \* City centre point

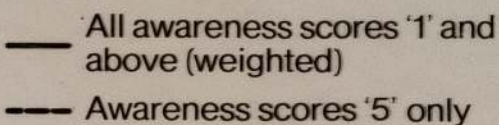




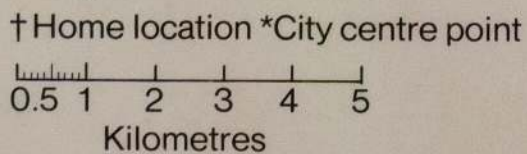
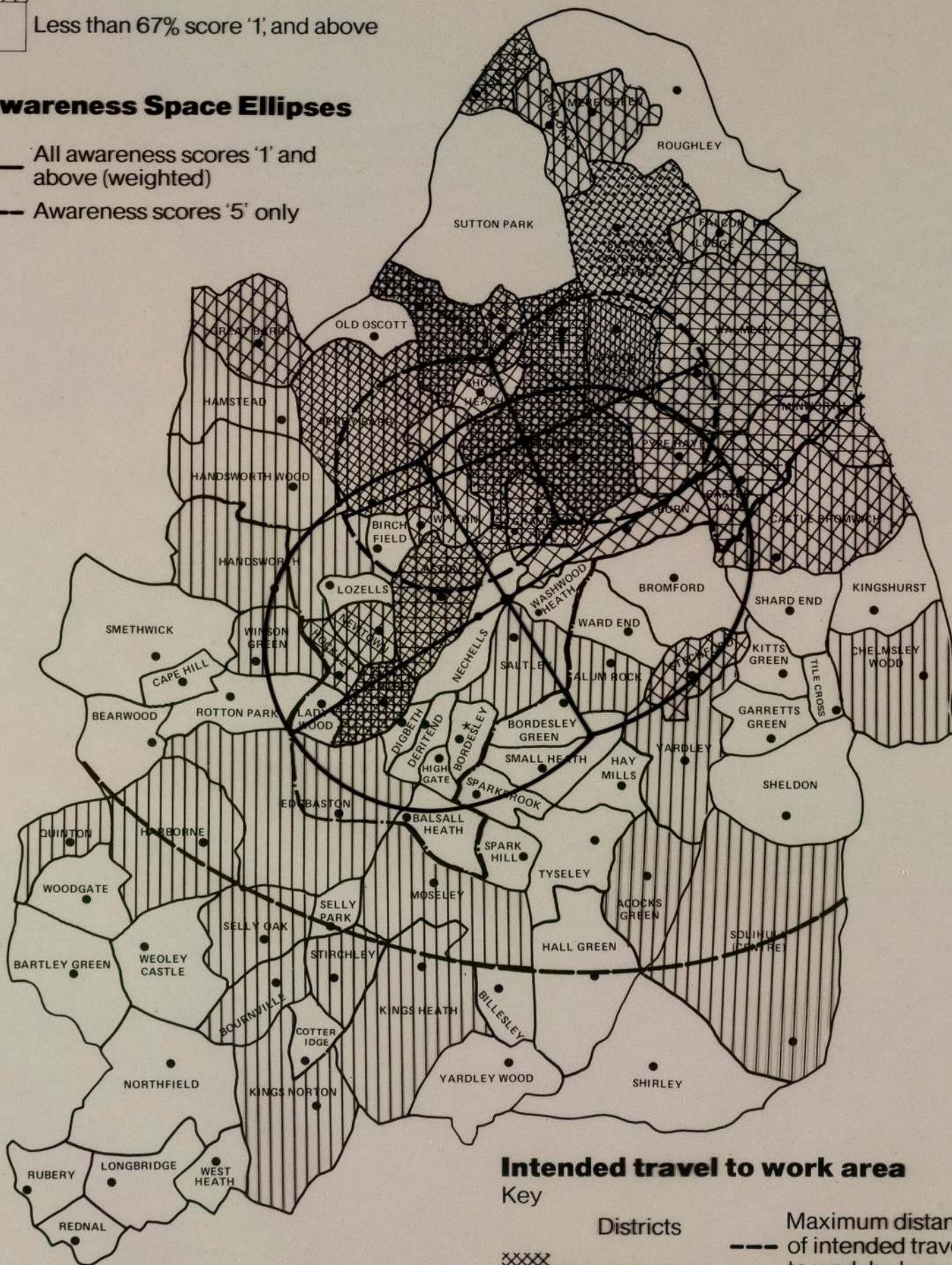
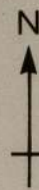
# Awareness of Birmingham



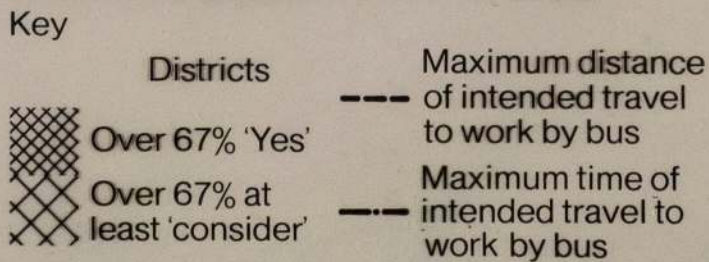
# Awareness Space Ellipses



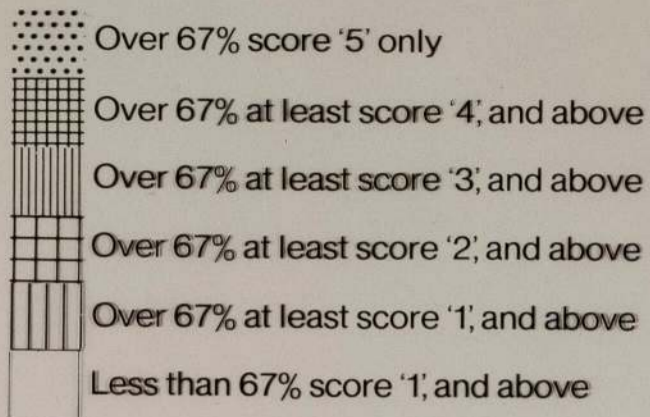
Boldmere



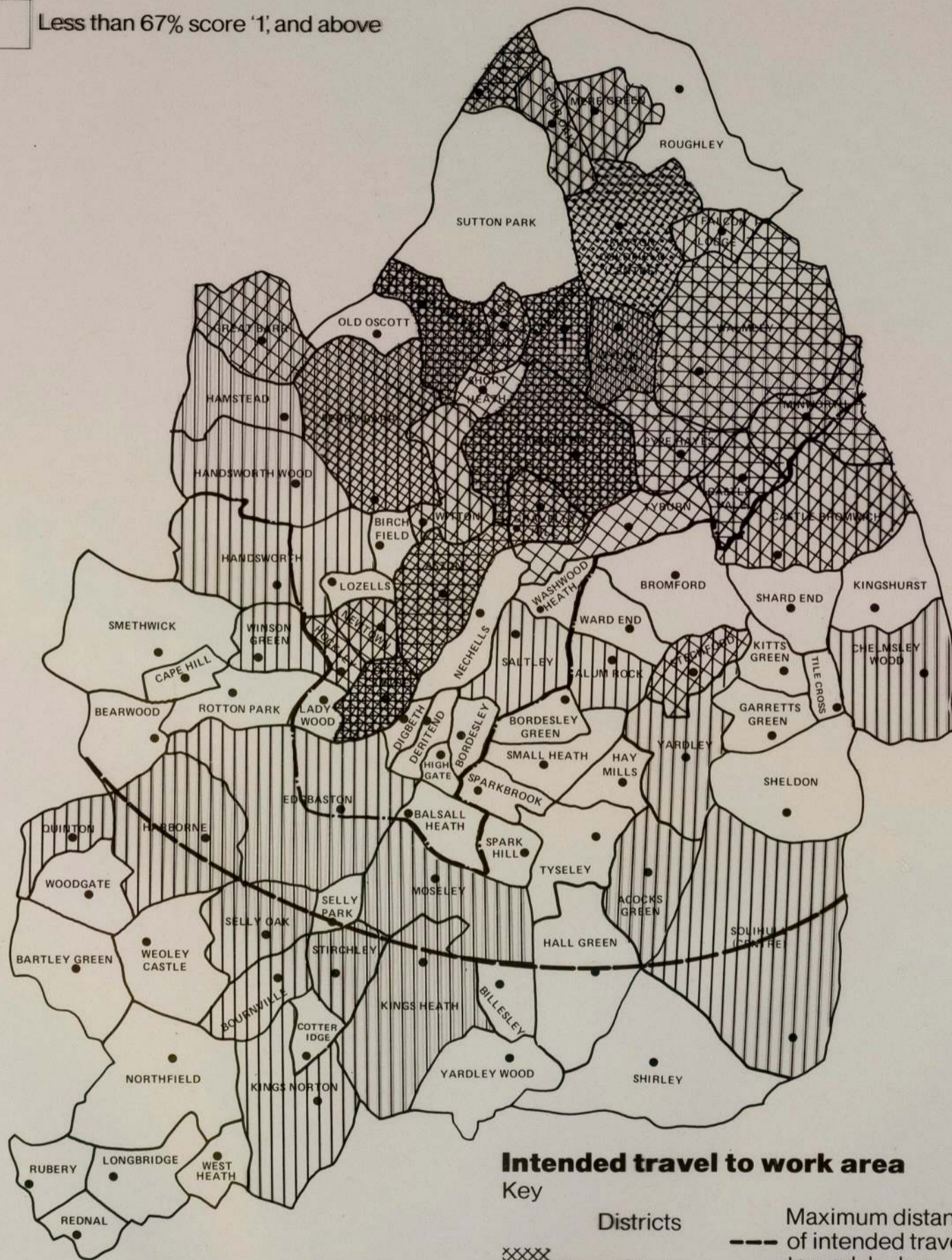
# Intended travel to work area



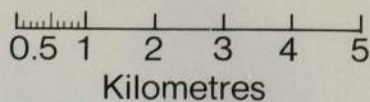
# Awareness of Birmingham



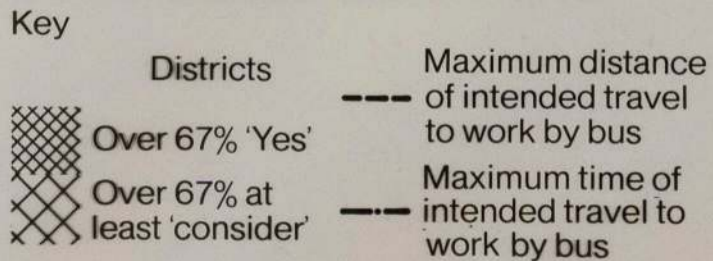
Boldmere



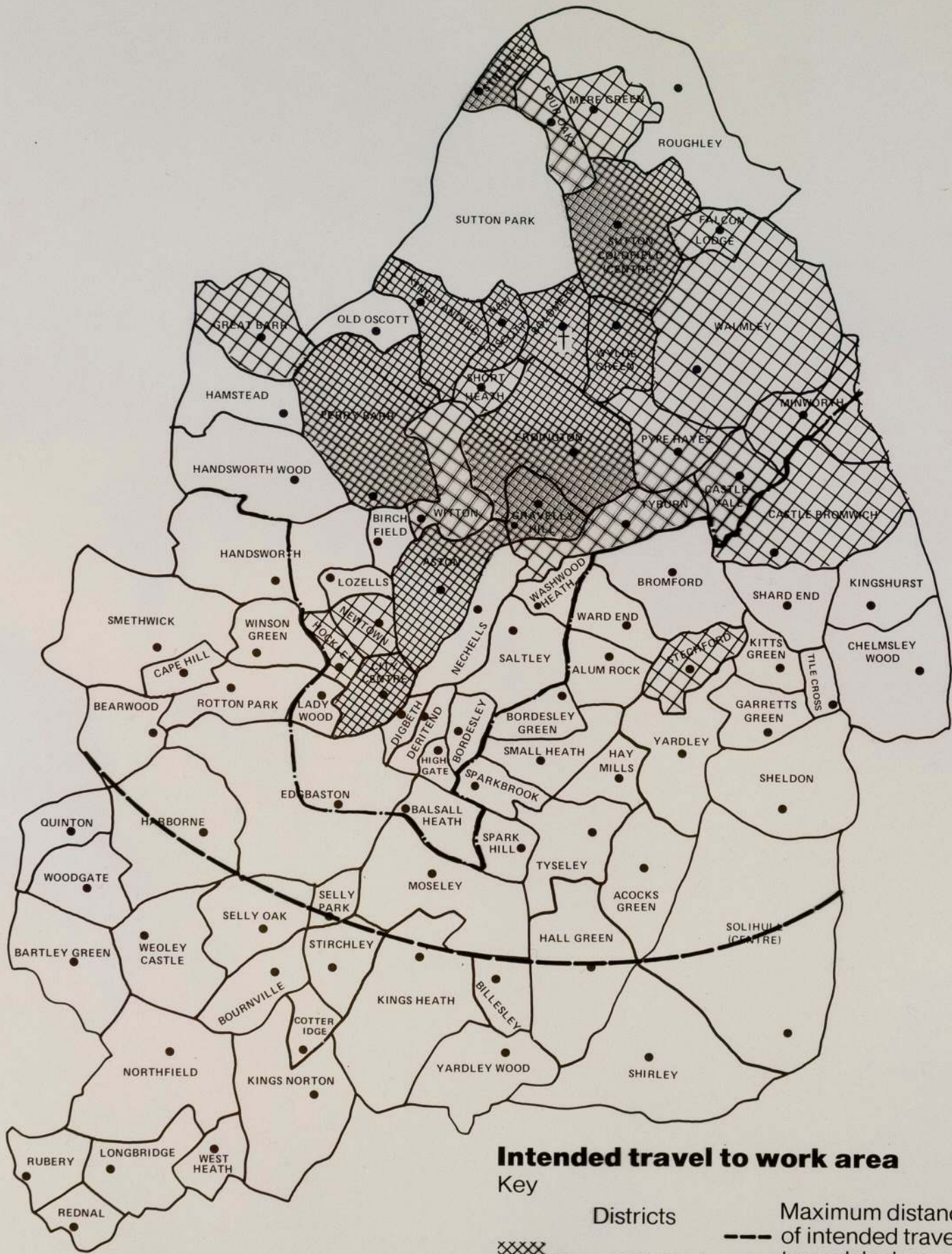
† Home location \*City centre point



## Intended travel to work area



# Boldmere



† Home location \*City centre point

Kilometres

**Intended travel to work area**  
 Key

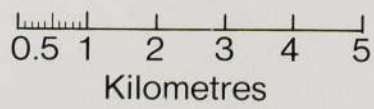
<p>Districts</p> <ul style="list-style-type: none"> <li> Over 67% 'Yes'</li> <li> Over 67% at least 'consider'</li> </ul>	<ul style="list-style-type: none"> <li> Maximum distance of intended travel to work by bus</li> <li> Maximum time of intended travel to work by bus</li> </ul>
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# Boldmere

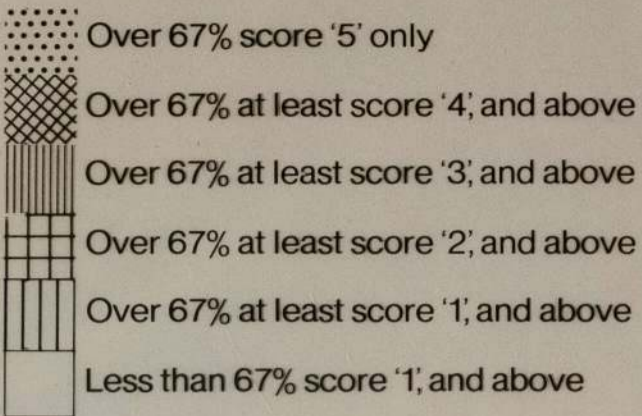


† Home location \*City centre point

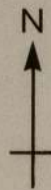


SOLUTION  
(CENTRAL)

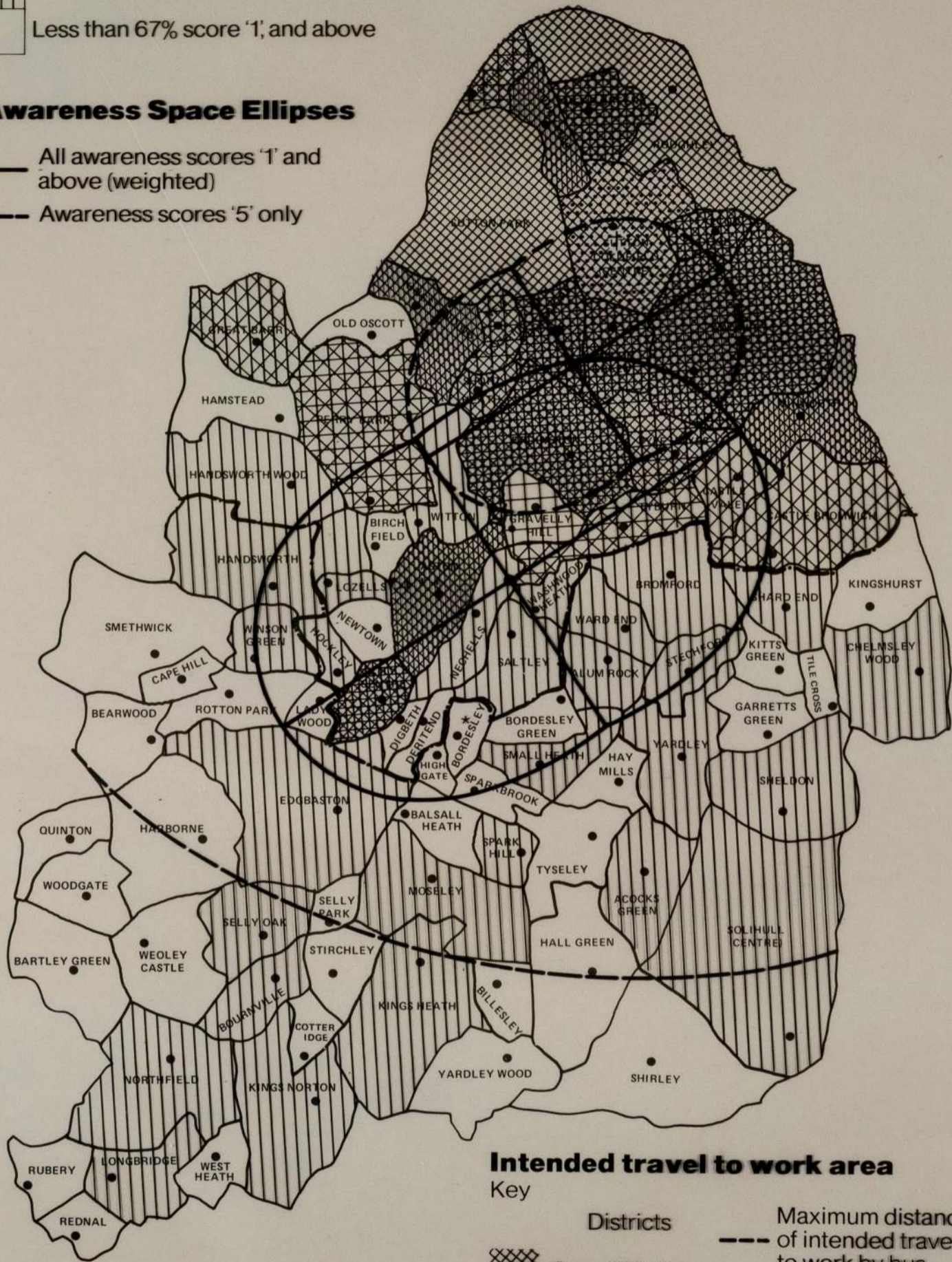
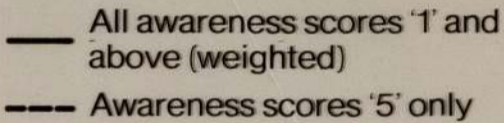
# Awareness of Birmingham



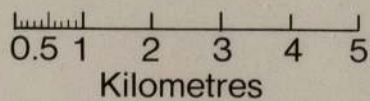
Sutton (Central)



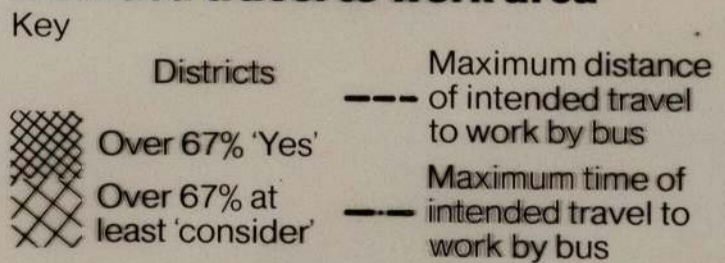
## Awareness Space Ellipses



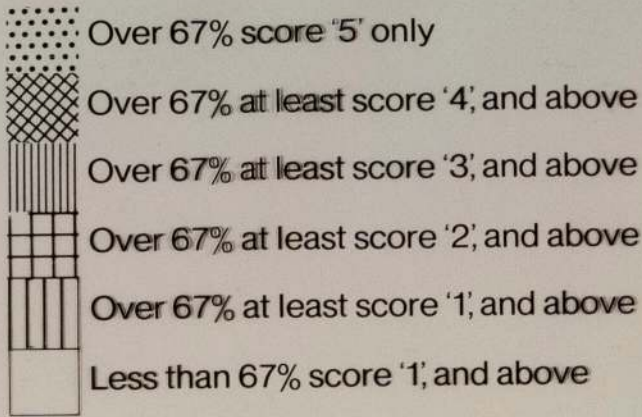
† Home location \*City centre point



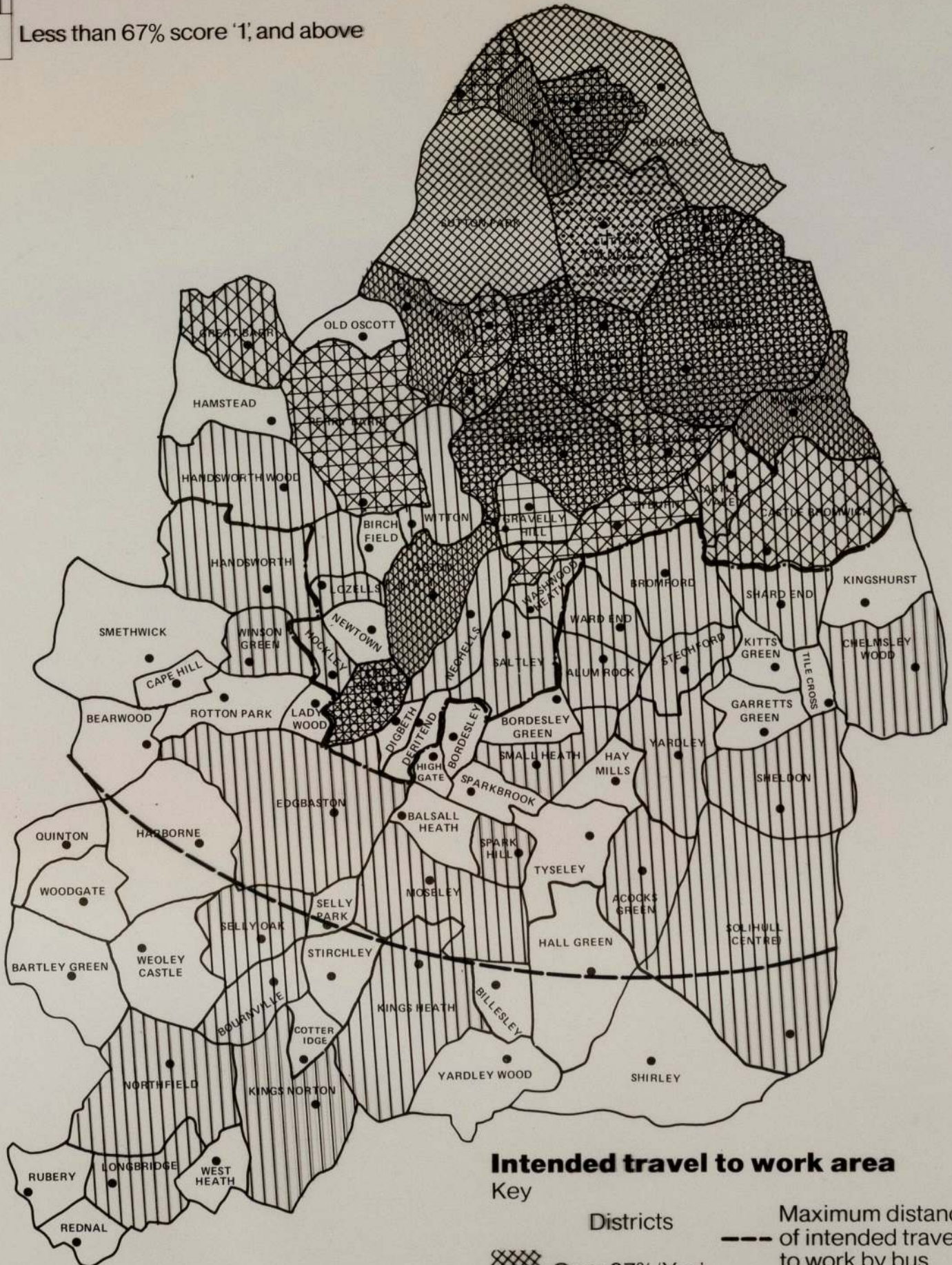
## Intended travel to work area



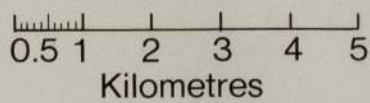
# Awareness of Birmingham



Sutton (Central)

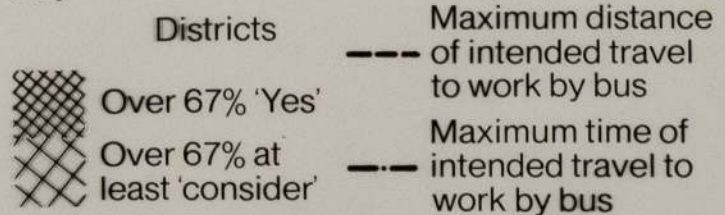


† Home location \*City centre point

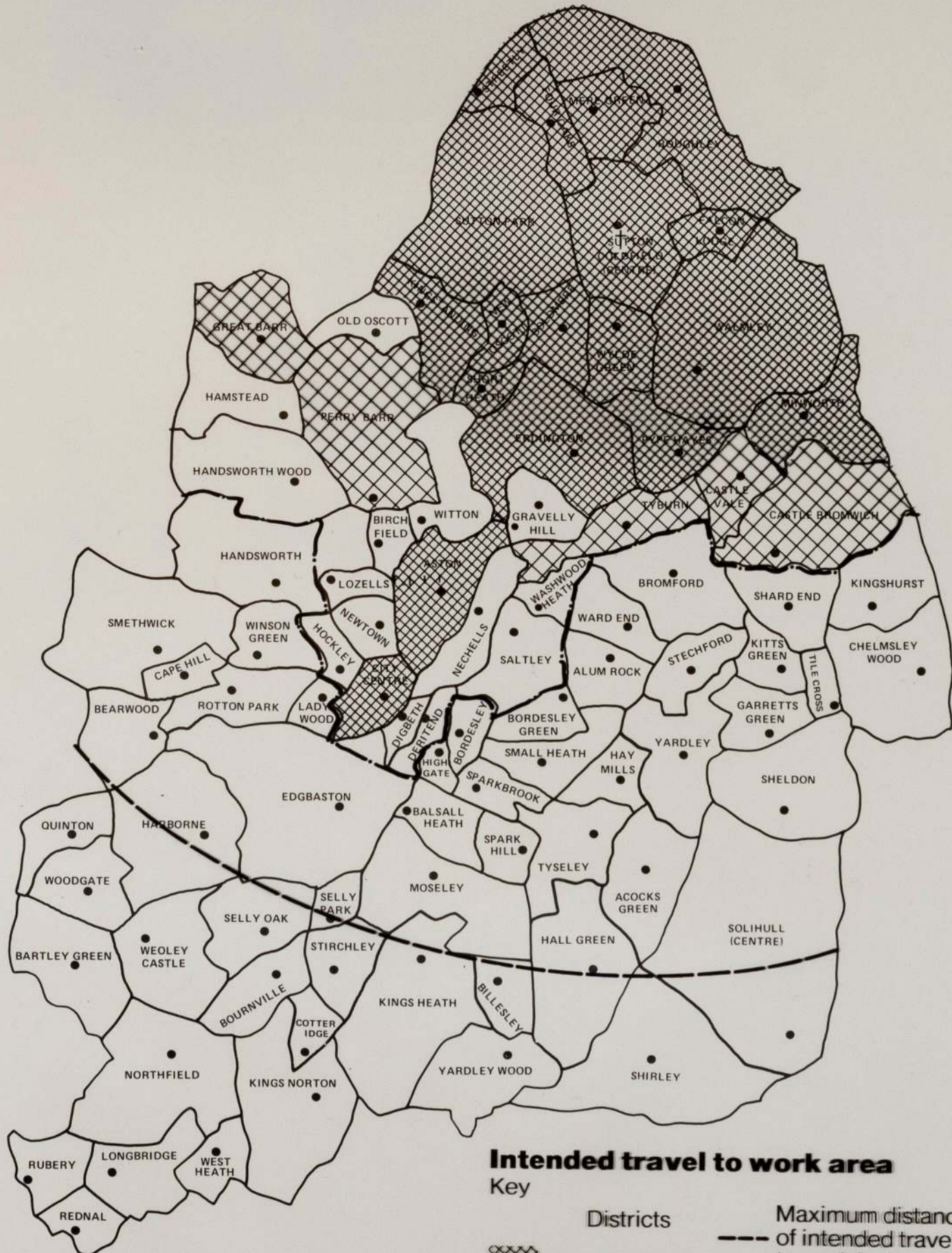


## Intended travel to work area

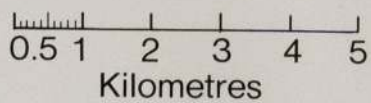
Key



# Sutton (Central)



† Home location \*City centre point

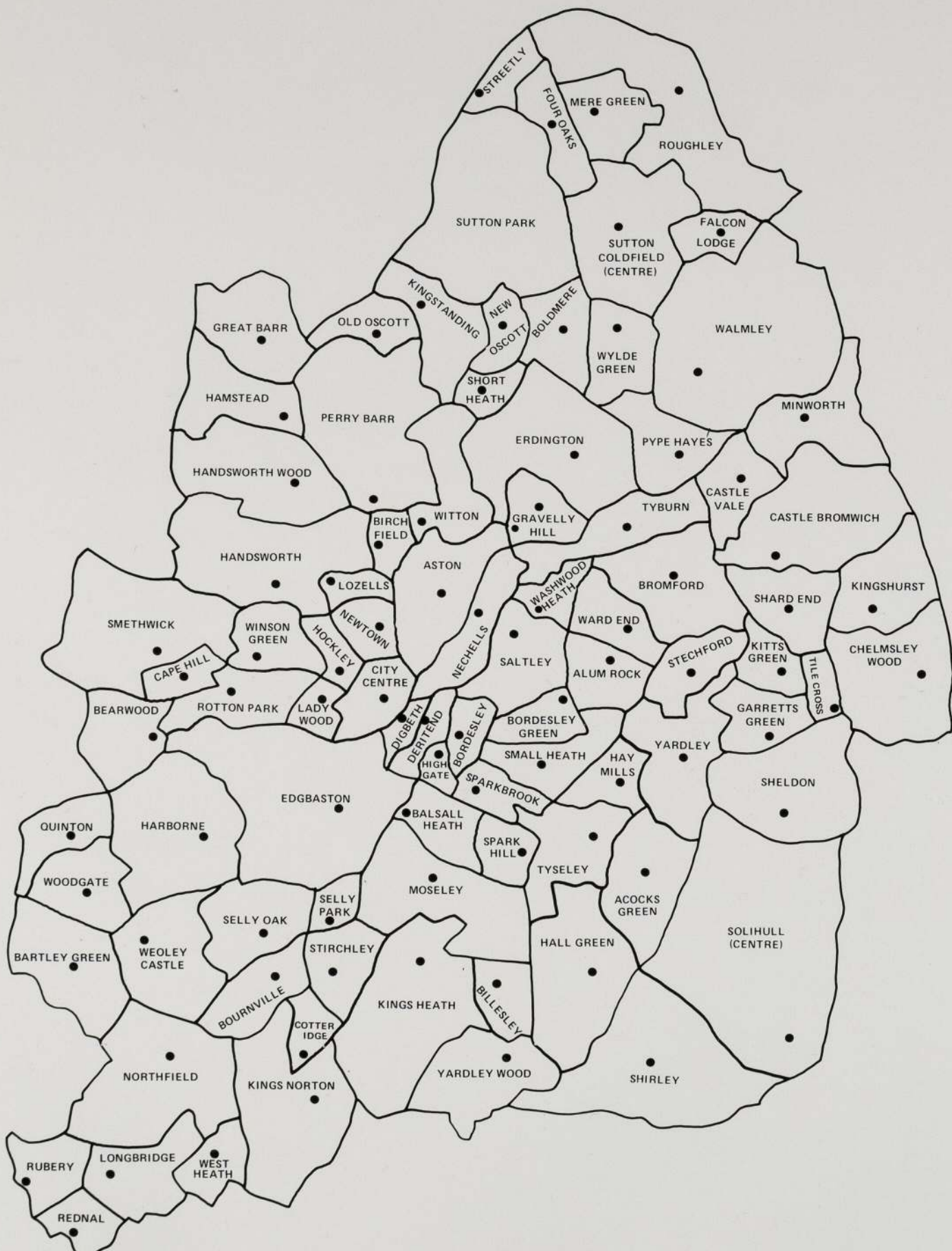


## Intended travel to work area

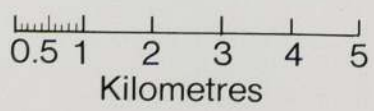
Key

- |   |  |
|---|--|
| <p>Districts</p> <ul style="list-style-type: none"> <li> Over 67% 'Yes'</li> <li> Over 67% at least 'consider'</li> </ul> | <ul style="list-style-type: none"> <li> Maximum distance of intended travel to work by bus</li> <li> Maximum time of intended travel to work by bus</li> </ul> |
|---|--|

# Sutton (Central)

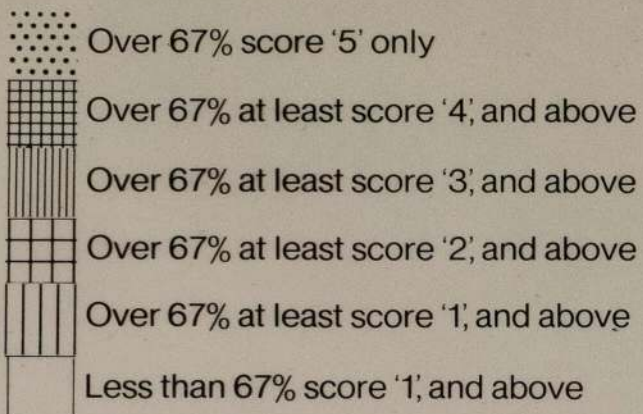


† Home location \*City centre point

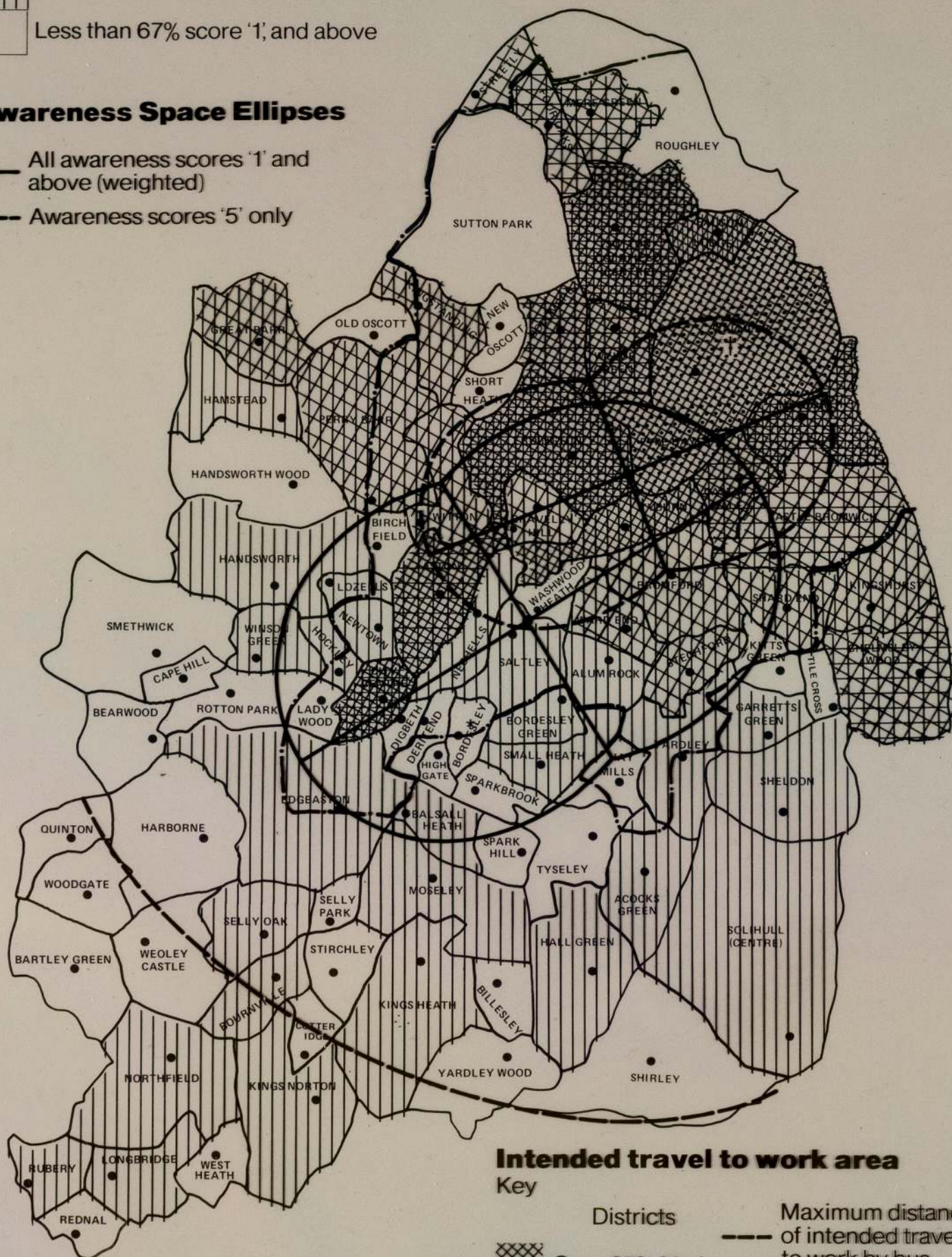
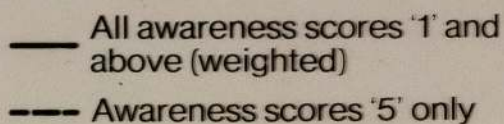




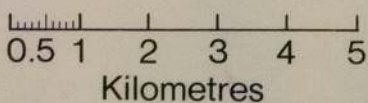
## Awareness of Birmingham



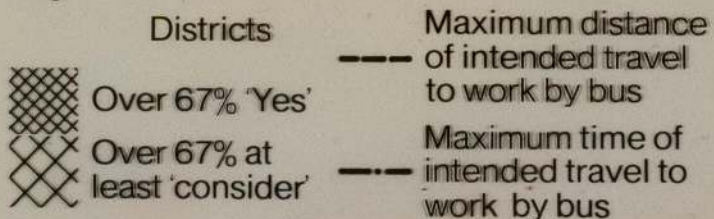
## Awareness Space Ellipses



† Home location \* City centre point

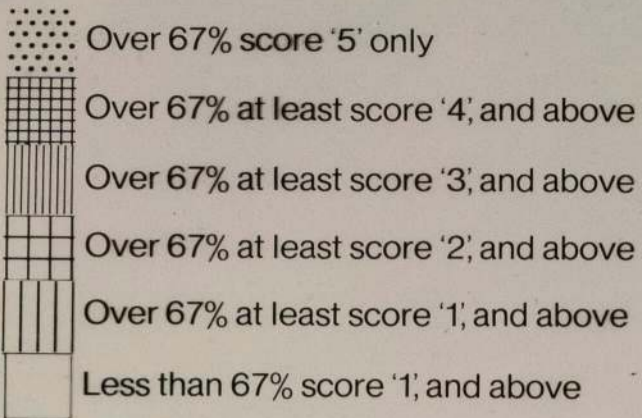


## Intended travel to work area Key

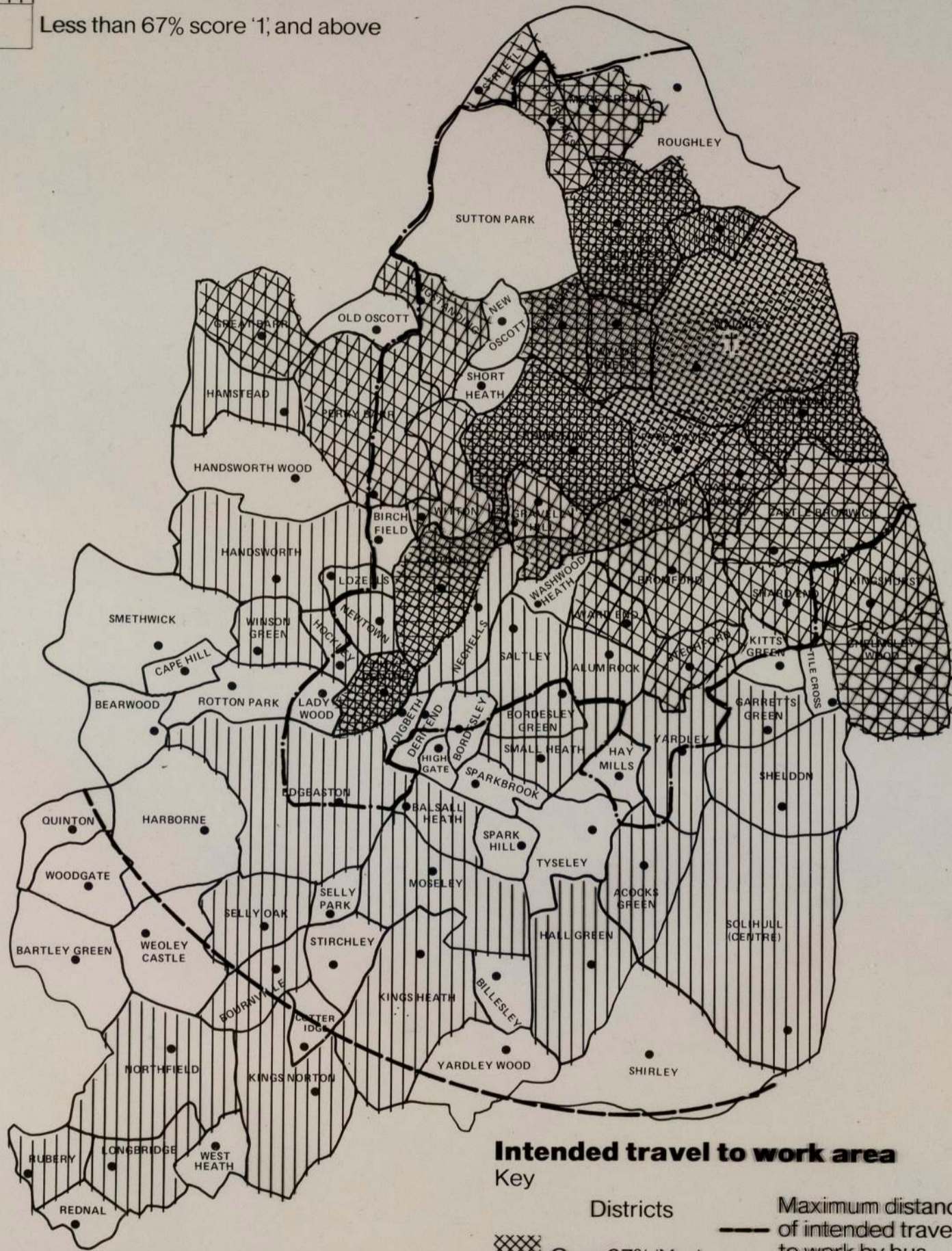




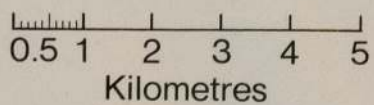
# Awareness of Birmingham



Walmley

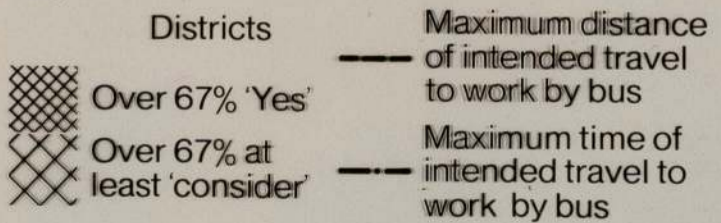


† Home location \* City centre point

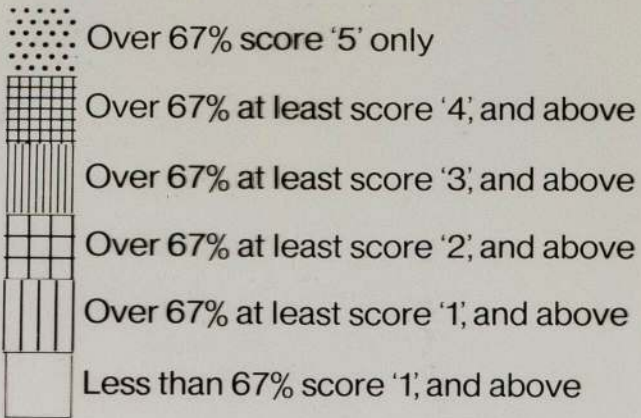


## Intended travel to work area

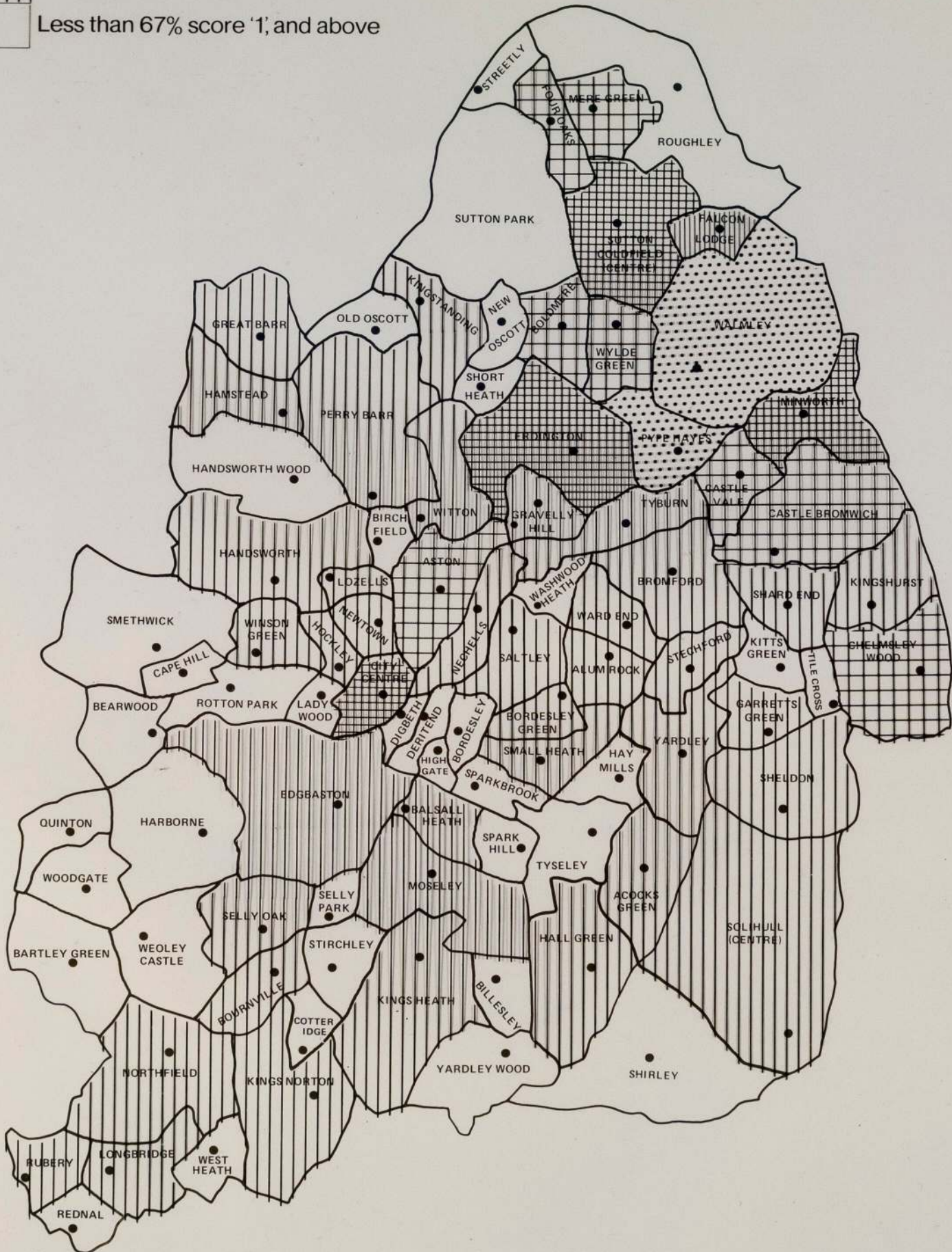
Key



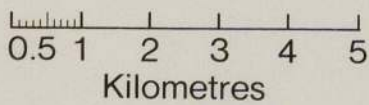
# Awareness of Birmingham



Walmley



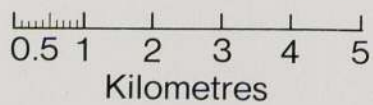
† Home location \* City centre point



# Walmley

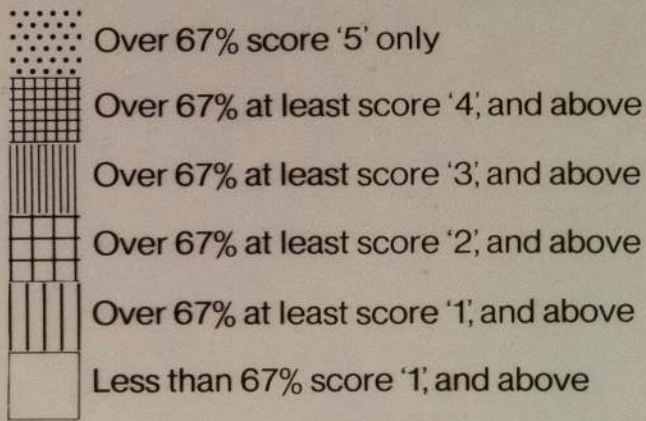


† Home location \* City centre point



FALCON  
LODGE

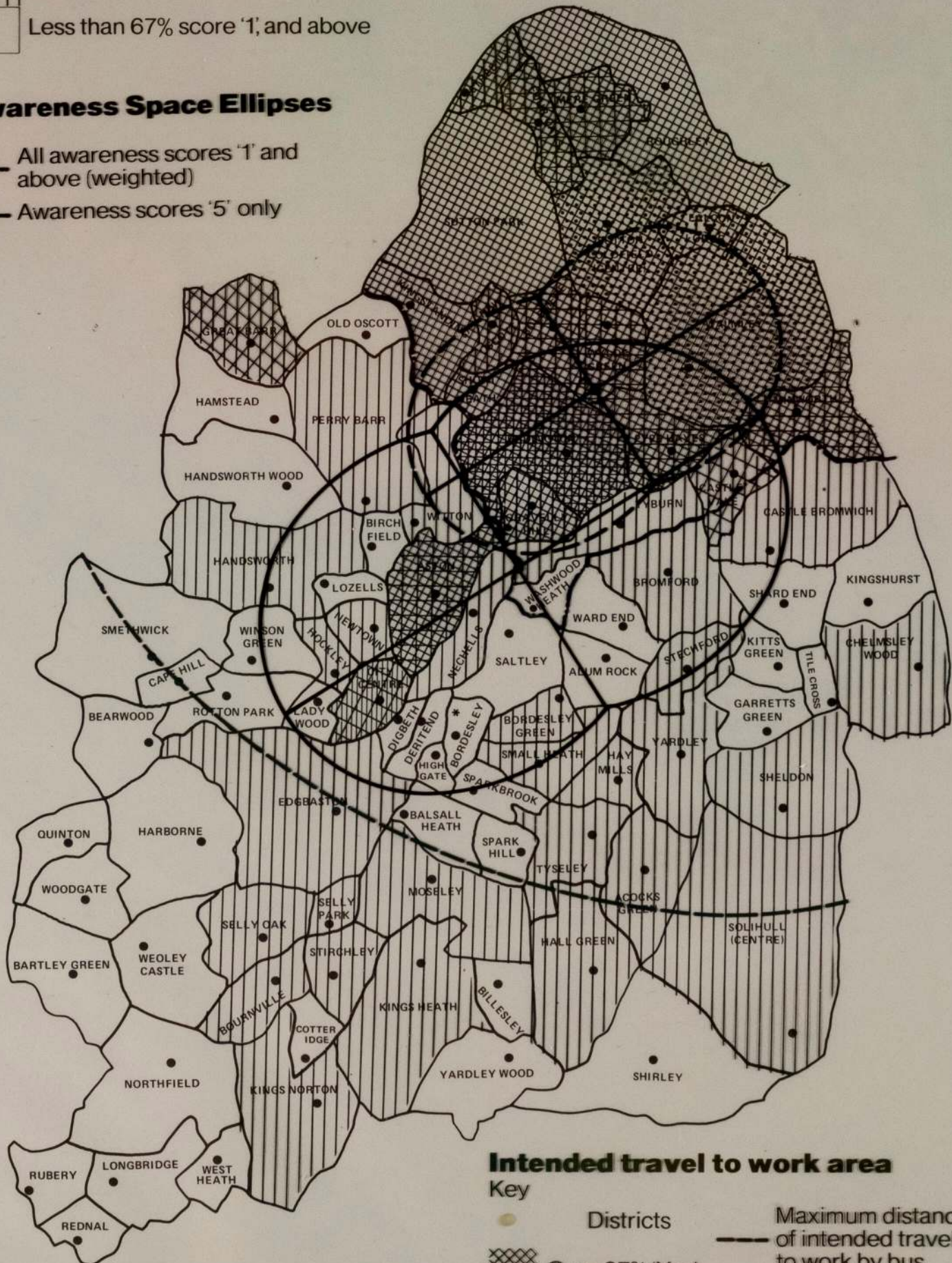
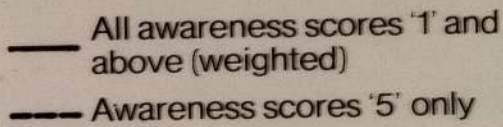
## Awareness of Birmingham



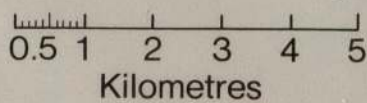
Falcon Lodge



## Awareness Space Ellipses

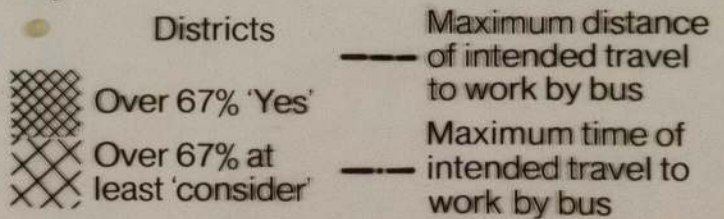


† Home location \* City centre point

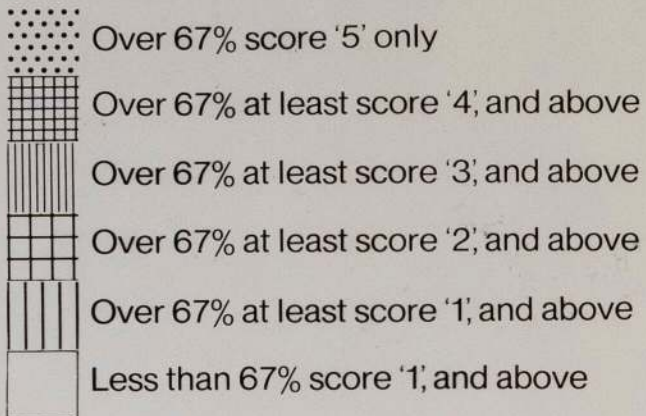


## Intended travel to work area

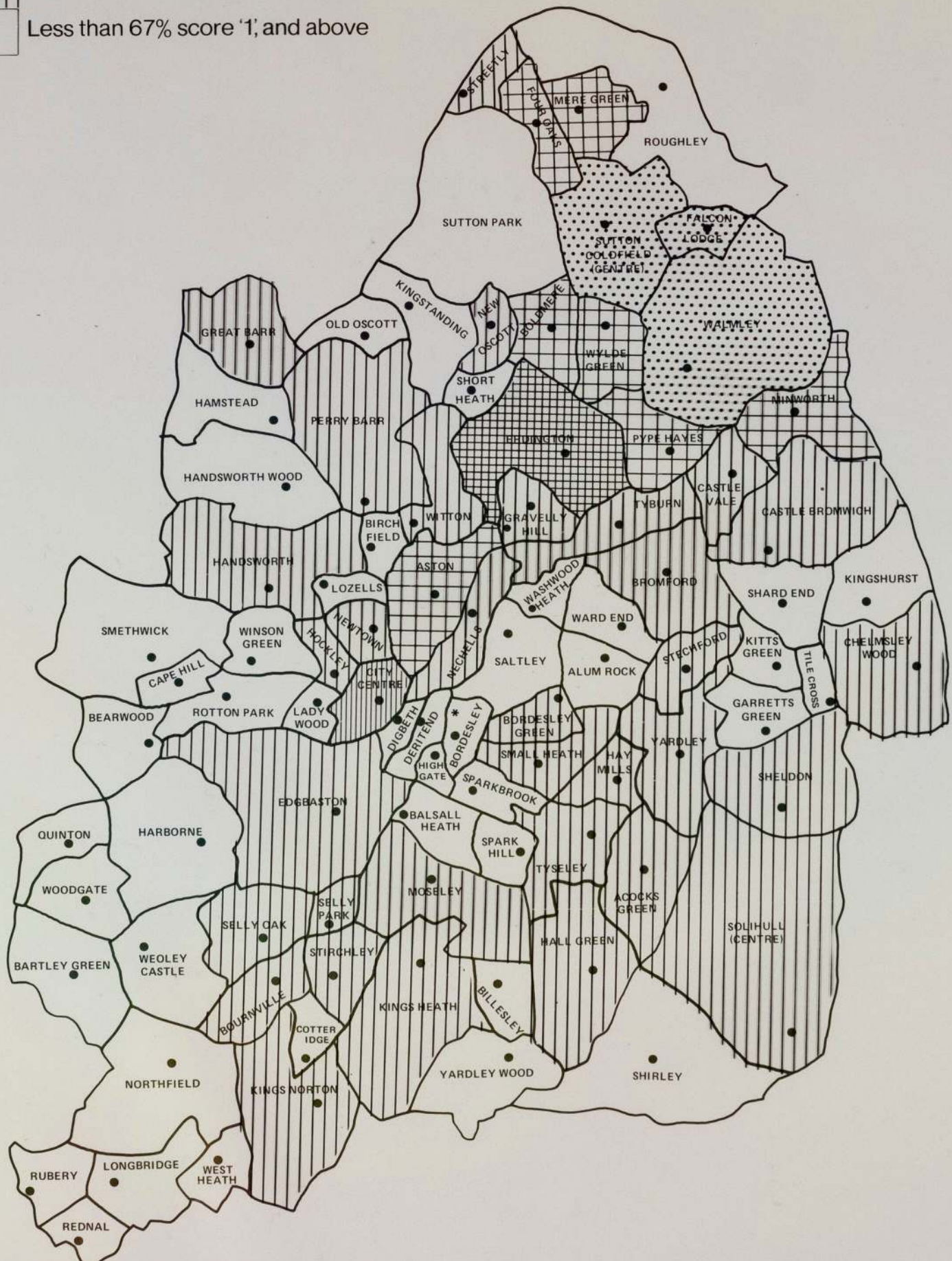
Key



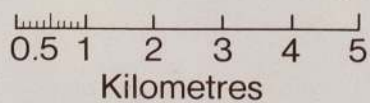
# Awareness of Birmingham



Falcon Lodge



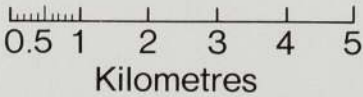
† Home location \* City centre point



# Falcon Lodge



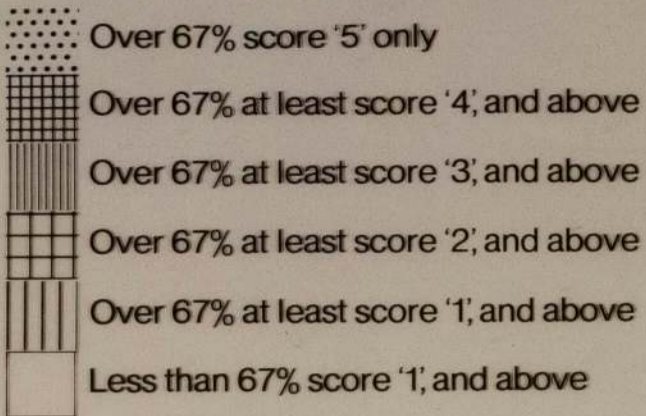
† Home location \* City centre point



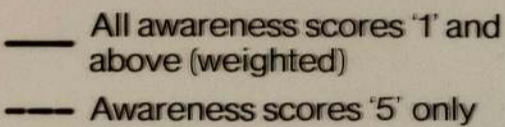
FOUR  
OAKS



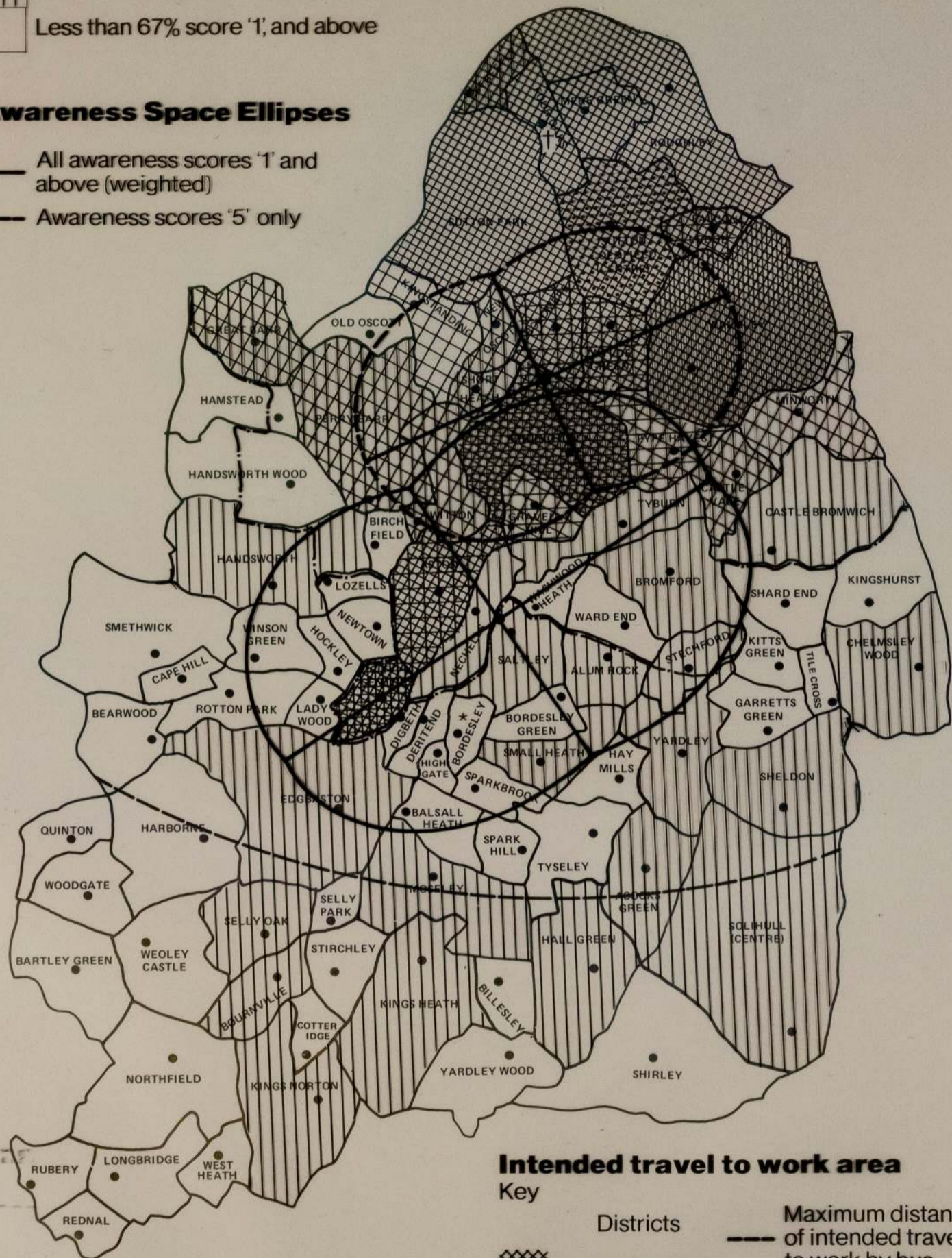
## Awareness of Birmingham



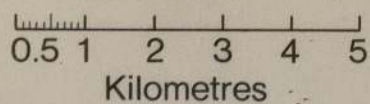
## Awareness Space Ellipses



Four Oaks

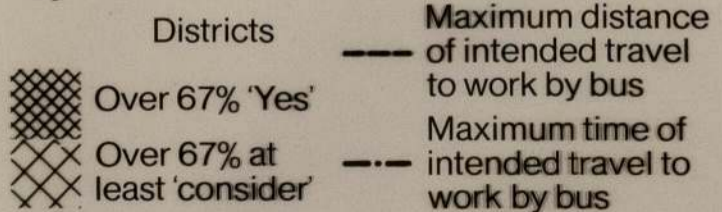


† Home location \* City centre point

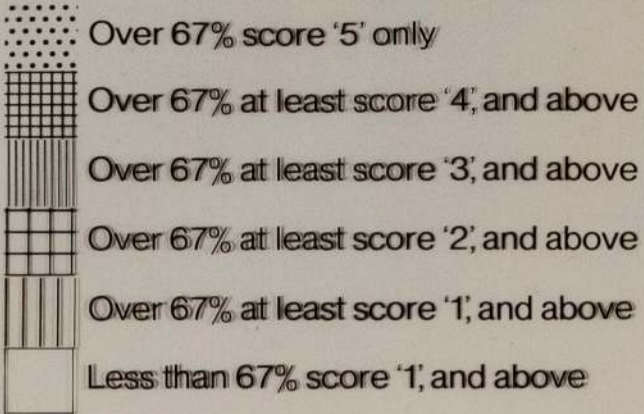


## Intended travel to work area

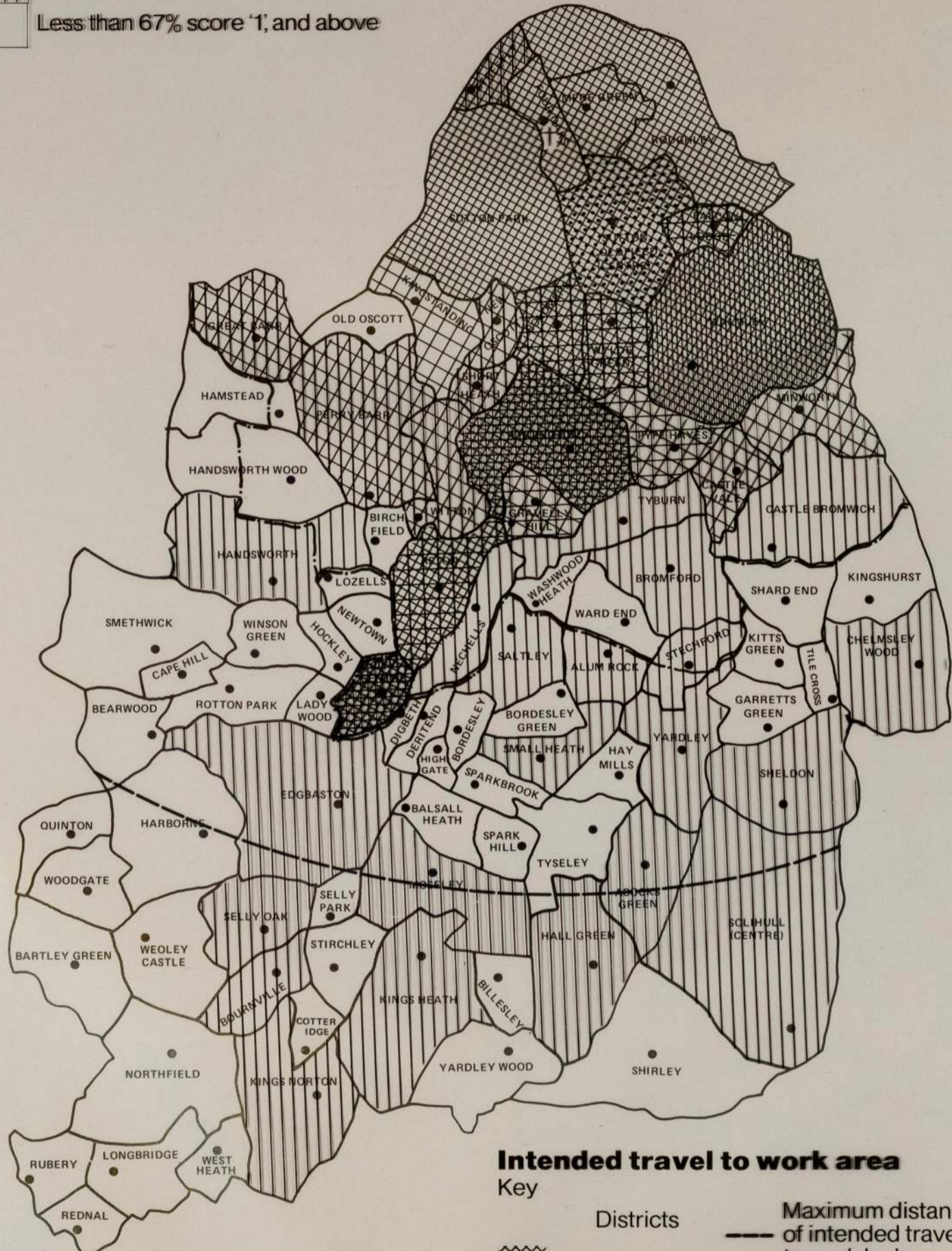
Key



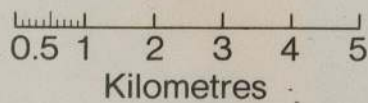
# Awareness of Birmingham



Four Oaks

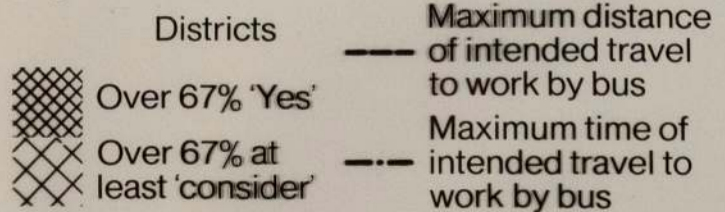


† Home location \* City centre point

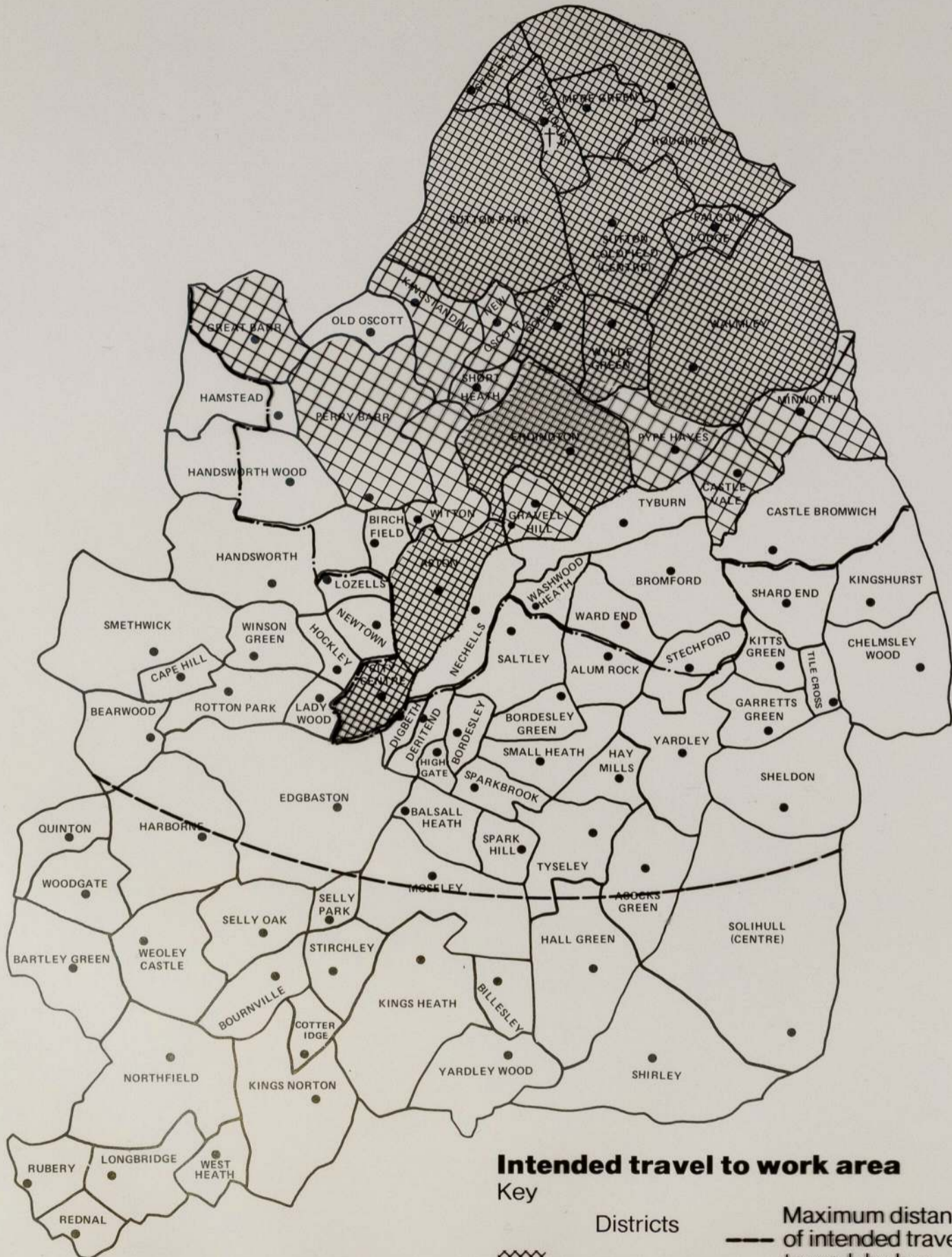


## Intended travel to work area

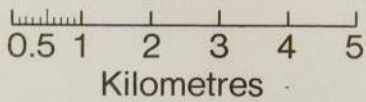
Key



# Four Oaks



† Home location \* City centre point



## Intended travel to work area

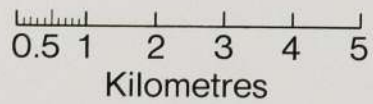
Key

- |  |                              |  |
|--|------------------------------|--|
|  | Districts                    | Maximum distance of intended travel to work by bus |
|  | Over 67% 'Yes'               |  |
|  | Over 67% at least 'consider' | Maximum time of intended travel to work by bus     |

# Four Oaks



† Home location \* City centre point



## STANDARD DEVIATIONAL ELLIPSE – STATISTICAL SUMMARY

AWARENESS LEVEL 1

AWARENESS LEVEL 5

SOUTH CORE					
	968	117			
INTERACTIONS	1.38	1.18	INTERACTIONS	1.18	MEAN X
MEAN X	-1.68	-1.93	MEAN Y	-1.93	MEAN Y
MEAN Y	4.29	3.16	MAJOR AXIS	3.16	MAJOR AXIS
MAJOR AXIS	3.36	2.70	MINOR AXIS	2.70	MINOR AXIS
MINOR AXIS	50°	40°	ANGLE	40°	ANGLE
ANGLE	0.78	0.85	COEFFICIENT OF CIRCULARITY	0.85	COEFFICIENT OF CIRCULARITY
COEFFICIENT OF CIRCULARITY	46.7	27.2	AREA	27.2	AREA
AREA					

EAST CORE					
	436	44			
INTERACTIONS	2.28	3.11	INTERACTIONS	3.11	MEAN X
MEAN X	-0.64	0.11	MEAN Y	0.11	MEAN Y
MEAN Y	4.14	3.50	MAJOR AXIS	3.50	MAJOR AXIS
MAJOR AXIS	3.33	2.40	MINOR AXIS	2.40	MINOR AXIS
MINOR AXIS	30°	10°	ANGLE	10°	ANGLE
ANGLE	0.80	0.69	COEFFICIENT OF CIRCULARITY	0.69	COEFFICIENT OF CIRCULARITY
COEFFICIENT OF CIRCULARITY	44.4	28.3	AREA	28.3	AREA
AREA					

WEST CORE					
	601	65			
INTERACTIONS	0.88	-0.18	INTERACTIONS	-0.18	MEAN X
MEAN X	-0.57	-0.63	MEAN Y	-0.63	MEAN Y
MEAN Y	4.30	3.30	MAJOR AXIS	3.30	MAJOR AXIS
MAJOR AXIS	3.69	2.64	MINOR AXIS	2.64	MINOR AXIS
MINOR AXIS	30°	140°	ANGLE	140°	ANGLE
ANGLE	0.56	0.80	COEFFICIENT OF CIRCULARITY	0.80	COEFFICIENT OF CIRCULARITY
COEFFICIENT OF CIRCULARITY	50.4	28.0	AREA	28.0	AREA
AREA					

ASTON					
	1000	115			
INTERACTIONS	0.94	0.15	INTERACTIONS	0.15	MEAN X
MEAN X	0.25	1.53	MEAN Y	1.53	MEAN Y
MEAN Y	4.63	2.84	MAJOR AXIS	2.84	MAJOR AXIS
MAJOR AXIS	3.37	1.56	MINOR AXIS	1.56	MINOR AXIS
MINOR AXIS	60°	70°	ANGLE	70°	ANGLE
ANGLE	0.73	0.55	COEFFICIENT OF CIRCULARITY	0.55	COEFFICIENT OF CIRCULARITY
COEFFICIENT OF CIRCULARITY	51.5	16.5	AREA	16.5	AREA
AREA					

## STANDARD DEVIATIONAL ELLIPSE – STATISTICAL SUMMARY

AWARENESS LEVEL 1

AWARENESS LEVEL 5

LOZELLS					
	495	156			
INTERACTIONS			INTERACTIONS		
MEAN X	1.06	0.48	MEAN X		
MEAN Y	0.57	1.44	MEAN Y		
MAJOR AXIS	4.42	4.01	MAJOR AXIS		
MINOR AXIS	3.46	2.87	MINOR AXIS		
ANGLE	60°	60°	ANGLE		
COEFFICIENT OF CIRCULARITY	0.78	0.72	COEFFICIENT OF CIRCULARITY		
AREA	49.5	38.1	AREA		

HANDSWORTH					
	1527	266			
INTERACTIONS			INTERACTIONS		
MEAN X	0.50	-0.66	MEAN X		
MEAN Y	0.03	1.76	MEAN Y		
MAJOR AXIS	4.43	2.34	MAJOR AXIS		
MINOR AXIS	3.56	2.22	MINOR AXIS		
ANGLE	60°	70°	ANGLE		
COEFFICIENT OF CIRCULARITY	0.81	0.78	COEFFICIENT OF CIRCULARITY		
AREA	50.7	20.5	AREA		

ERDINGTON					
	1550	155			
INTERACTIONS			INTERACTIONS		
MEAN X	2.42	3.36	MEAN X		
MEAN Y	1.39	3.07	MEAN Y		
MAJOR AXIS	4.95	2.78	MAJOR AXIS		
MINOR AXIS	3.41	2.38	MINOR AXIS		
ANGLE	60°	60°	ANGLE		
COEFFICIENT OF CIRCULARITY	0.69	0.86	COEFFICIENT OF CIRCULARITY		
AREA	56.7	21.1	AREA		

CASTLE VALE					
	504	40			
INTERACTIONS			INTERACTIONS		
MEAN X	3.53	4.13	MEAN X		
MEAN Y	1.28	2.45	MEAN Y		
MAJOR AXIS	4.86	4.36	MAJOR AXIS		
MINOR AXIS	3.36	1.96	MINOR AXIS		
ANGLE	50°	20°	ANGLE		
COEFFICIENT OF CIRCULARITY	0.69	0.45	COEFFICIENT OF CIRCULARITY		
AREA	54.8	35.9	AREA		

## STANDARD DEVIATIONAL ELLIPSE – STATISTICAL SUMMARY

AWARENESS LEVEL 1

AWARENESS LEVEL 5

BOLDMERE			
INTERACTIONS	1017	65	INTERACTIONS
MEAN X	2.56	3.13	MEAN X
MEAN Y	2.01	5.28	MEAN Y
MAJOR AXIS	5.42	4.06	MAJOR AXIS
MINOR AXIS	3.52	1.85	MINOR AXIS
ANGLE	60 <sup>o</sup>	70 <sup>o</sup>	ANGLE
COEFFICIENT OF CIRCULARITY	0.65	0.46	COEFFICIENT OF CIRCULARITY
AREA	65.6	31.2	AREA

WALMLEY			
INTERACTIONS	937	78	INTERACTIONS
MEAN X	3.10	5.32	MEAN X
MEAN Y	1.47	4.75	MEAN Y
MAJOR AXIS	5.68	4.36	MAJOR AXIS
MINOR AXIS	3.56	2.12	MINOR AXIS
ANGLE	60 <sup>o</sup>	70 <sup>o</sup>	ANGLE
COEFFICIENT OF CIRCULARITY	0.63	0.49	COEFFICIENT OF CIRCULARITY
AREA	70.6	36.9	AREA

SUTTON CENTRAL			
INTERACTIONS	983	89	INTERACTIONS
MEAN X	2.84	4.18	MEAN X
MEAN Y	2.35	6.86	MEAN Y
MAJOR AXIS	5.69	3.60	MAJOR AXIS
MINOR AXIS	3.51	2.36	MINOR AXIS
ANGLE	60 <sup>o</sup>	60 <sup>o</sup>	ANGLE
COEFFICIENT OF CIRCULARITY	0.62	0.66	COEFFICIENT OF CIRCULARITY
AREA	70.3	29.1	AREA

FALCON LODGE			
INTERACTIONS	889	71	INTERACTIONS
MEAN X	3.12	4.83	MEAN X
MEAN Y	2.35	6.07	MEAN Y
MAJOR AXIS	5.79	4.08	MAJOR AXIS
MINOR AXIS	3.48	2.39	MINOR AXIS
ANGLE	60 <sup>o</sup>	60 <sup>o</sup>	ANGLE
COEFFICIENT OF CIRCULARITY	0.60	0.59	COEFFICIENT OF CIRCULARITY
AREA	71.8	35.1	AREA

STANDARD DEVIATIONAL ELLIPSE – STATISTICAL SUMMARY

AWARENESS LEVEL 1

AWARENESS LEVEL 5

FOUR OAKS			
INTERACTIONS	633	56	INTERACTIONS
MEAN X	2.90	3.87	MEAN X
MEAN Y	3.31	8.27	MEAN Y
MAJOR AXIS	5.86	4.76	MAJOR AXIS
MINOR AXIS	3.33	1.94	MINOR AXIS
ANGLE	70°	70°	ANGLE
COEFFICIENT OF CIRCULARITY	0.57	0.41	COEFFICIENT OF CIRCULARITY
AREA	74.4	41.5	AREA

INTERACTIONS		INTERACTIONS
MEAN X		MEAN X
MEAN Y		MEAN Y
MAJOR AXIS		MAJOR AXIS
MINOR AXIS		MINOR AXIS
ANGLE		ANGLE
COEFFICIENT OF CIRCULARITY		COEFFICIENT OF CIRCULARITY
AREA		AREA

INTERACTIONS		INTERACTIONS
MEAN X		MEAN X
MEAN Y		MEAN Y
MAJOR AXIS		MAJOR AXIS
MINOR AXIS		MINOR AXIS
ANGLE		ANGLE
COEFFICIENT OF CIRCULARITY		COEFFICIENT OF CIRCULARITY
AREA		AREA

INTERACTIONS		INTERACTIONS
MEAN X		MEAN X
MEAN Y		MEAN Y
MAJOR AXIS		MAJOR AXIS
MINOR AXIS		MINOR AXIS
ANGLE		ANGLE
COEFFICIENT OF CIRCULARITY		COEFFICIENT OF CIRCULARITY
AREA		AREA



## STANDARD DEVIATIONAL ELLIPSE – STATISTICAL SUMMARY

VACANCY DISCOVERY

VACANCY APPLICATION

WEST CORE			
INTERACTIONS	159	96	INTERACTIONS
MEAN X	0.35	-0.11	MEAN X
MEAN Y	0.95	-1.14	MEAN Y
MAJOR AXIS	3.96	3.19	MAJOR AXIS
MINOR AXIS	3.13	2.30	MINOR AXIS
ANGLE	70 <sup>o</sup>	60 <sup>o</sup>	ANGLE
COEFFICIENT OF CIRCULARITY	.79	.72	COEFFICIENT OF CIRCULARITY
AREA	39.9	24.3	AREA

SOUTH CORE			
INTERACTIONS	236	128	INTERACTIONS
MEAN X	0.57	0.74	MEAN X
MEAN Y	-0.86	-1.35	MEAN Y
MAJOR AXIS	2.53	2.05	MAJOR AXIS
MINOR AXIS	1.97	1.56	MINOR AXIS
ANGLE	70 <sup>o</sup>	60 <sup>o</sup>	ANGLE
COEFFICIENT OF CIRCULARITY	.78	.76	COEFFICIENT OF CIRCULARITY
AREA	16.2	10.4	AREA

EAST CORE			
INTERACTIONS	127	41	INTERACTIONS
MEAN X	1.25	0.50	MEAN X
MEAN Y	-0.28	-0.80	MEAN Y
MAJOR AXIS	3.06	1.98	MAJOR AXIS
MINOR AXIS	2.55	1.41	MINOR AXIS
ANGLE	70 <sup>o</sup>	60 <sup>o</sup>	ANGLE
COEFFICIENT OF CIRCULARITY	.83	.71	COEFFICIENT OF CIRCULARITY
AREA	25.0	9.3	AREA

ASTON			
INTERACTIONS	167	65	INTERACTIONS
MEAN X	0.84	0.62	MEAN X
MEAN Y	-0.45	0.44	MEAN Y
MAJOR AXIS	3.61	2.42	MAJOR AXIS
MINOR AXIS	2.49	1.52	MINOR AXIS
ANGLE	60 <sup>o</sup>	80 <sup>o</sup>	ANGLE
COEFFICIENT OF CIRCULARITY	.69	.63	COEFFICIENT OF CIRCULARITY
AREA	30.2	12.8	AREA

## STANDARD DEVIATIONAL ELLIPSE – STATISTICAL SUMMARY

VACANCY DISCOVERY

VACANCY APPLICATION

ERDINGTON					
	382	122			
INTERACTIONS		1.64	INTERACTIONS		
MEAN X	1.30		MEAN X		
MEAN Y	0.20	1.21	MEAN Y		
MAJOR AXIS	4.23	3.71	MAJOR AXIS		
MINOR AXIS	2.56	1.74	MINOR AXIS		
ANGLE	60 <sup>o</sup>	60 <sup>o</sup>	ANGLE		
COEFFICIENT OF CIRCULARITY	.61	.47	COEFFICIENT OF CIRCULARITY		
AREA	38.4	26.4	AREA		

CASTLE VALE					
	238	44			
INTERACTIONS		2.31	INTERACTIONS		
MEAN X	1.42		MEAN X		
MEAN Y	0.10	1.16	MEAN Y		
MAJOR AXIS	4.29	3.91	MAJOR AXIS		
MINOR AXIS	2.74	1.67	MINOR AXIS		
ANGLE	50 <sup>o</sup>	40 <sup>o</sup>	ANGLE		
COEFFICIENT OF CIRCULARITY	.64	.43	COEFFICIENT OF CIRCULARITY		
AREA	40.7	28.4	AREA		

LOZELLS					
	308	100			
INTERACTIONS		0.36	INTERACTIONS		
MEAN X	0.46		MEAN X		
MEAN Y	0.10	0.29	MEAN Y		
MAJOR AXIS	3.10	2.31	MAJOR AXIS		
MINOR AXIS	2.36	1.71	MINOR AXIS		
ANGLE	70 <sup>o</sup>	80 <sup>o</sup>	ANGLE		
COEFFICIENT OF CIRCULARITY	.76	.74	COEFFICIENT OF CIRCULARITY		
AREA	23.9	13.0	AREA		

HANDSWORTH					
	780	209			
INTERACTIONS		0.04	INTERACTIONS		
MEAN X	0.42		MEAN X		
MEAN Y	-0.02	0.41	MEAN Y		
MAJOR AXIS	3.42	2.53	MAJOR AXIS		
MINOR AXIS	2.52	1.92	MINOR AXIS		
ANGLE	70 <sup>o</sup>	70 <sup>o</sup>	ANGLE		
COEFFICIENT OF CIRCULARITY	.74	.76	COEFFICIENT OF CIRCULARITY		
AREA	28.4	15.8	AREA		

STANDARD DEVIATIONAL ELLIPSE – STATISTICAL SUMMARY

VACANCY DISCOVERY

VACANCY APPLICATION

SUTTON COLFIELD (ALL)			
INTERACTIONS	1149	615	INTERACTIONS
MEAN X	2.37	2.77	MEAN X
MEAN Y	2.68	3.82	MEAN Y
MAJOR AXIS	5.25	5.12	MAJOR AXIS
MINOR AXIS	2.44	1.77	MINOR AXIS
ANGLE	60°	60°	ANGLE
COEFFICIENT OF CIRCULARITY	.46	.35	COEFFICIENT OF CIRCULARITY
AREA	51.1	46.1	AREA

INTERACTIONS		INTERACTIONS
MEAN X		MEAN X
MEAN Y		MEAN Y
MAJOR AXIS		MAJOR AXIS
MINOR AXIS		MINOR AXIS
ANGLE		ANGLE
COEFFICIENT OF CIRCULARITY		COEFFICIENT OF CIRCULARITY
AREA		AREA

INTERACTIONS		INTERACTIONS
MEAN X		MEAN X
MEAN Y		MEAN Y
MAJOR AXIS		MAJOR AXIS
MINOR AXIS		MINOR AXIS
ANGLE		ANGLE
COEFFICIENT OF CIRCULARITY		COEFFICIENT OF CIRCULARITY
AREA		AREA

INTERACTIONS		INTERACTIONS
MEAN X		MEAN X
MEAN Y		MEAN Y
MAJOR AXIS		MAJOR AXIS
MINOR AXIS		MINOR AXIS
ANGLE		ANGLE
COEFFICIENT OF CIRCULARITY		COEFFICIENT OF CIRCULARITY
AREA		AREA

## STANDARD DEVIATIONAL ELLIPSE – STATISTICAL SUMMARY

### SEARCH ACTIVITY

WEST CORE – ALL MODES			WEST CORE – BUS		
INTERACTIONS	21		14	INTERACTIONS	
MEAN X	-0.64		-0.66	MEAN X	
MEAN Y	-1.34		-1.63	MEAN Y	
MAJOR AXIS	2.57		3.02	MAJOR AXIS	
MINOR AXIS	1.30		1.22	MINOR AXIS	
ANGLE	60 <sup>o</sup>		60 <sup>o</sup>	ANGLE	
COEFFICIENT OF CIRCULARITY	0.51		0.40	COEFFICIENT OF CIRCULARITY	
AREA	13.0		16.7	AREA	

WEST CORE – WALK					
INTERACTIONS	6			INTERACTIONS	
MEAN X	-0.87			MEAN X	
MEAN Y	-0.22			MEAN Y	
MAJOR AXIS	0.78			MAJOR AXIS	
MINOR AXIS	0.64			MINOR AXIS	
ANGLE	10 <sup>o</sup>			ANGLE	
COEFFICIENT OF CIRCULARITY	0.82			COEFFICIENT OF CIRCULARITY	
AREA	1.6			AREA	

SOUTH CORE – ALL MODES			SOUTH CORE – BUS		
INTERACTIONS	33		22	INTERACTIONS	
MEAN X	0.08		0.01	MEAN X	
MEAN Y	-1.59		-1.17	MEAN Y	
MAJOR AXIS	2.98		3.11	MAJOR AXIS	
MINOR AXIS	1.36		1.40	MINOR AXIS	
ANGLE	60 <sup>o</sup>		60 <sup>o</sup>	ANGLE	
COEFFICIENT OF CIRCULARITY	0.46		0.45	COEFFICIENT OF CIRCULARITY	
AREA	16.9		18.3	AREA	

SOUTH CORE – WALK					
INTERACTIONS	10			INTERACTIONS	
MEAN X	0.71			MEAN X	
MEAN Y	-1.86			MEAN Y	
MAJOR AXIS	1.50			MAJOR AXIS	
MINOR AXIS	0.21			MINOR AXIS	
ANGLE	100 <sup>o</sup>			ANGLE	
COEFFICIENT OF CIRCULARITY	0.14			COEFFICIENT OF CIRCULARITY	
AREA	3.6			AREA	

STANDARD DEVIATIONAL ELLIPSE – STATISTICAL SUMMARY

SEARCH ACTIVITY

ASTON (proper) ALL MODES			ASTON (proper) – BUS		
INTERACTIONS	19		15	INTERACTIONS	
MEAN X	0.74		0.32	MEAN X	
MEAN Y	1.04		1.11	MEAN Y	
MAJOR AXIS	1.87		1.88	MAJOR AXIS	
MINOR AXIS	1.48		1.23	MINOR AXIS	
ANGLE	60°		70°	ANGLE	
COEFFICIENT OF CIRCULARITY	0.79		0.65	COEFFICIENT OF CIRCULARITY	
AREA	8.9		7.9	AREA	

ASTON (proper) – WALK					
INTERACTIONS	3			INTERACTIONS	
MEAN X	2.57			MEAN X	
MEAN Y	1.70			MEAN Y	
MAJOR AXIS	1.46			MAJOR AXIS	
MINOR AXIS	0.97			MINOR AXIS	
ANGLE	160°			ANGLE	
COEFFICIENT OF CIRCULARITY	0.66			COEFFICIENT OF CIRCULARITY	
AREA	4.8			AREA	

ERDINGTON – ALL MODES			ERDINGTON – BUS		
INTERACTIONS	44		29	INTERACTIONS	
MEAN X	1.67		1.08	MEAN X	
MEAN Y	1.77		0.93	MEAN Y	
MAJOR AXIS	3.84		3.57	MAJOR AXIS	
MINOR AXIS	1.95		2.21	MINOR AXIS	
ANGLE	50°		50°	ANGLE	
COEFFICIENT OF CIRCULARITY	0.51		0.62	COEFFICIENT OF CIRCULARITY	
AREA	29.1		27.7	AREA	

ERDINGTON – WALK					
INTERACTIONS	13			INTERACTIONS	
MEAN X	3.32			MEAN X	
MEAN Y	4.34			MEAN Y	
MAJOR AXIS	1.89			MAJOR AXIS	
MINOR AXIS	0.80			MINOR AXIS	
ANGLE	60°			ANGLE	
COEFFICIENT OF CIRCULARITY	0.42			COEFFICIENT OF CIRCULARITY	
AREA	6.6			AREA	

## STANDARD DEVIATIONAL ELLIPSE – STATISTICAL SUMMARY

### SEARCH ACTIVITY

HANDSWORTH (proper) ALL MODES			HANDSWORTH (proper) – BUS		
INTERACTIONS	25		22		INTERACTIONS
MEAN X	-0.48		-0.53		MEAN X
MEAN Y	1.05		1.11		MEAN Y
MAJOR AXIS	2.34		2.46		MAJOR AXIS
MINOR AXIS	1.63		1.73		MINOR AXIS
ANGLE	130 <sup>o</sup>		130 <sup>o</sup>		ANGLE
COEFFICIENT OF CIRCULARITY	0.70		0.70		COEFFICIENT OF CIRCULARITY
AREA	12.8		14.3		AREA

HANDSWORTH (proper) – WALK					
INTERACTIONS	3				INTERACTIONS
MEAN X	-0.10				MEAN X
MEAN Y	0.50				MEAN Y
MAJOR AXIS	1.17				MAJOR AXIS
MINOR AXIS	0.02				MINOR AXIS
ANGLE	120 <sup>o</sup>				ANGLE
COEFFICIENT OF CIRCULARITY	0.02				COEFFICIENT OF CIRCULARITY
AREA	2.1				AREA

LOZELLS – ALL MODES			LOZELLS – BUS		
INTERACTIONS	25		22		INTERACTIONS
MEAN X	0.83		1.01		MEAN X
MEAN Y	-0.05		-0.22		MEAN Y
MAJOR AXIS	2.01		2.03		MAJOR AXIS
MINOR AXIS	1.70		1.78		MINOR AXIS
ANGLE	120 <sup>o</sup>		110 <sup>o</sup>		ANGLE
COEFFICIENT OF CIRCULARITY	0.85		0.88		COEFFICIENT OF CIRCULARITY
AREA	10.9		11.5		AREA

LOZELLS – WALK					
INTERACTIONS	3				INTERACTIONS
MEAN X	-0.47				MEAN X
MEAN Y	1.20				MEAN Y
MAJOR AXIS	0.68				MAJOR AXIS
MINOR AXIS	0.10				MINOR AXIS
ANGLE	130 <sup>o</sup>				ANGLE
COEFFICIENT OF CIRCULARITY	0.15				COEFFICIENT OF CIRCULARITY
AREA	0.8				AREA

## STANDARD DEVIATIONAL ELLIPSE – STATISTICAL SUMMARY

### SEARCH ACTIVITY

SUTTON – ALL MODES		SUTTON – CAR (PASSENGER)	
INTERACTIONS	175	41	INTERACTIONS
MEAN X	3.31	3.40	MEAN X
MEAN Y	4.93	3.80	MEAN Y
MAJOR AXIS	4.82	4.48	MAJOR AXIS
MINOR AXIS	1.67	2.48	MINOR AXIS
ANGLE	60 <sup>o</sup>	70 <sup>o</sup>	ANGLE
COEFFICIENT OF CIRCULARITY	0.35	0.55	COEFFICIENT OF CIRCULARITY
AREA	40.96	41.09	AREA

SUTTON – TRAIN		SUTTON – BUS	
INTERACTIONS	16	77	INTERACTIONS
MEAN X	0.44	2.91	MEAN X
MEAN Y	-0.01	4.94	MEAN Y
MAJOR AXIS	1.00	4.68	MAJOR AXIS
MINOR AXIS	0.75	1.08	MINOR AXIS
ANGLE	70 <sup>o</sup>	60 <sup>o</sup>	ANGLE
COEFFICIENT OF CIRCULARITY	0.75	0.23	COEFFICIENT OF CIRCULARITY
AREA	2.47	36.17	AREA

SUTTON – CYCLE/MOTORCYCLE		SUTTON – WALK	
INTERACTIONS	13	28	INTERACTIONS
MEAN X	6.76	5.05	MEAN X
MEAN Y	8.24	8.75	MEAN Y
MAJOR AXIS	2.07	1.37	MAJOR AXIS
MINOR AXIS	1.76	1.16	MINOR AXIS
ANGLE	110 <sup>o</sup>	70 <sup>o</sup>	ANGLE
COEFFICIENT OF CIRCULARITY	0.85	0.85	COEFFICIENT OF CIRCULARITY
AREA	11.57	5.04	AREA

EAST CORE – ALL MODES		EAST CORE – BUS	
INTERACTIONS	10	9	INTERACTIONS
MEAN X	0.92	1.00	MEAN X
MEAN Y	-0.95	-1.02	MEAN Y
MAJOR AXIS	1.73	1.80	MAJOR AXIS
MINOR AXIS	0.61	0.62	MINOR AXIS
ANGLE	110 <sup>o</sup>	110 <sup>o</sup>	ANGLE
COEFFICIENT OF CIRCULARITY	0.35	0.34	COEFFICIENT OF CIRCULARITY
AREA	5.3	5.7	AREA

STANDARD DEVIATIONAL ELLIPSE – STATISTICAL SUMMARY

SEARCH ACTIVITY

CASTLE VALE – ALL MODES		CASTLE VALE – BUS	
INTERACTIONS	8	6	INTERACTIONS
MEAN X	2.39	1.30	MEAN X
MEAN Y	1.56	0.70	MEAN Y
MAJOR AXIS	3.64	3.12	MAJOR AXIS
MINOR AXIS	0.74	0.54	MINOR AXIS
ANGLE	40°	40°	ANGLE
COEFFICIENT OF CIRCULARITY	0.20	0.17	COEFFICIENT OF CIRCULARITY
AREA	21.6	15.7	AREA

CASTLE VALE – WALK			
INTERACTIONS	2		INTERACTIONS
MEAN X	5.65		MEAN X
MEAN Y	4.15		MEAN Y
MAJOR AXIS	13.9		MAJOR AXIS
MINOR AXIS	0.11		MINOR AXIS
ANGLE	170°		ANGLE
COEFFICIENT OF CIRCULARITY	0.01		COEFFICIENT OF CIRCULARITY
AREA	3.1		AREA

INTERACTIONS			INTERACTIONS
MEAN X			MEAN X
MEAN Y			MEAN Y
MAJOR AXIS			MAJOR AXIS
MINOR AXIS			MINOR AXIS
ANGLE			ANGLE
COEFFICIENT OF CIRCULARITY			COEFFICIENT OF CIRCULARITY
AREA			AREA

INTERACTIONS			INTERACTIONS
MEAN X			MEAN X
MEAN Y			MEAN Y
MAJOR AXIS			MAJOR AXIS
MINOR AXIS			MINOR AXIS
ANGLE			ANGLE
COEFFICIENT OF CIRCULARITY			COEFFICIENT OF CIRCULARITY
AREA			AREA