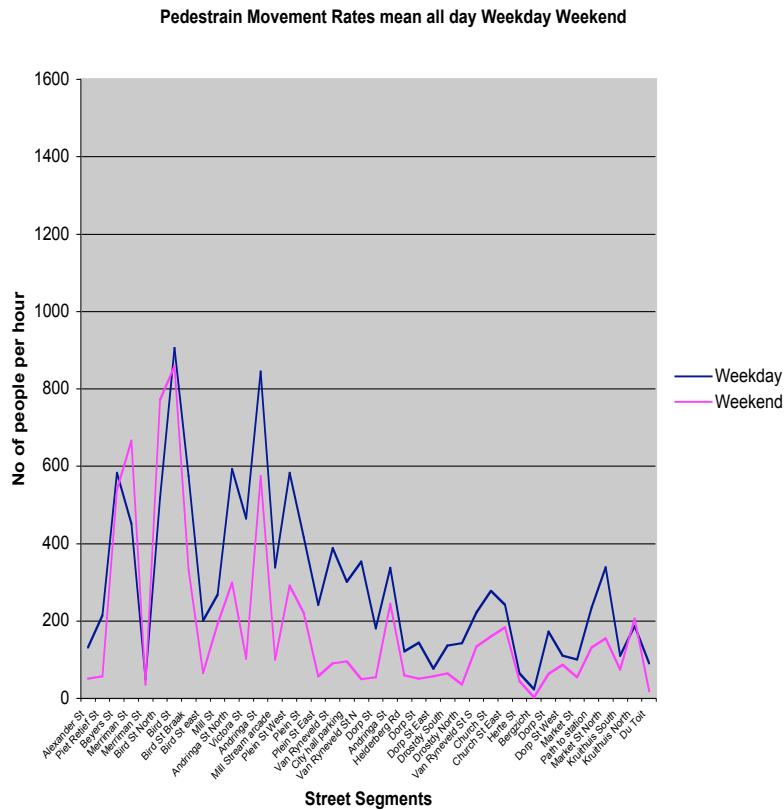


5. KEY FINDINGS

- Pedestrian flows in the area are greatest on the section of Andringa Street between Plein Street and the pedestrianised Beyers Street, peaking to over 1515 people per hour during lunchtime on a Weekday.
- The highest observed movement on the Weekend was on the section of Bird Street between Merriman Road and Du Toit Street peaking to 1320 people per hour during the late morning.
- On average the street section recording highest movement on average all day both on a Weekend and a Weekday is Bird Street between Du Toit Street and Alexander Road.
- In general movement flows are greater on a Weekday than on a Weekend (see Graph 1).
- On a Weekday pedestrian movement rates peak predominately at lunchtime and early evening (see Graph 3).
- On a Weekend pedestrian movement rates peak predominately late morning and lunchtime (see Graph 4). On a Weekday, in the evening, flows of pedestrians are generally higher than on a Weekend.
- Bird Street appears to be the principal spine of North South movement in the area and is busier on a Weekday than on a Weekend. Movement on Bird Street drops significantly on a Weekend in the section adjacent the Braak and to the south thereof.



Graph 1. Pedestrian Movement Rates Mean all Day – Weekday Weekend

- On a Weekend flows of pedestrians decreased in most street sections, however on the following streets flows increased; outside the taxi rank in Bird Street, Merriman street between Andringa and Bird Street and where Market Street splits to intersect with Blom Street at the Braak. All of these street segments are near to shopping centres and relate to a public transport system be it taxis or the train. The first two are near the Pick n Pay Shopping Centre while the latter is near the Shoprite Mall entrance off Bird Street.

- On a Weekday and on a Weekend the movement rates on the observed street sections to the west of the Braak around the Van der Stel Sport Grounds and the Voorgelegen Garden are very low except for the pedestrian route leading to the station.

- On a Weekday highest pedestrian movement around the Town Hall are along Andringa Street and Victoria Street while on a Weekend movement along Plein Street is higher than along Victoria Street.

- On average pedestrian movement on a Weekday and on a Weekend movement is relatively consistent (583/540 people per hour) through the pedestrianised Beyers Street and along Bird Street (906/858 people per hour) between Du Toit and Alexander Road.

- Movement east west through the municipal parking area on a Weekday is an average of 380 people per hour between 10am and 4pm. Movement on a Weekend is half of this rate.

- Local adults make up the largest population of observed users; actual number of observed adults is 3633. Throughout a Weekday 1285 students, 190 teenagers and 186 tourists were observed.

- The highest numbers of tourists are located on Church Street on a Weekday and on a Weekend while the highest numbers of teenagers are located along Piet Retief Street during the week. This route connects the schools to the south with the town centre to the north. On a Weekend more teenagers were observed along Bird Street near the taxi rank.

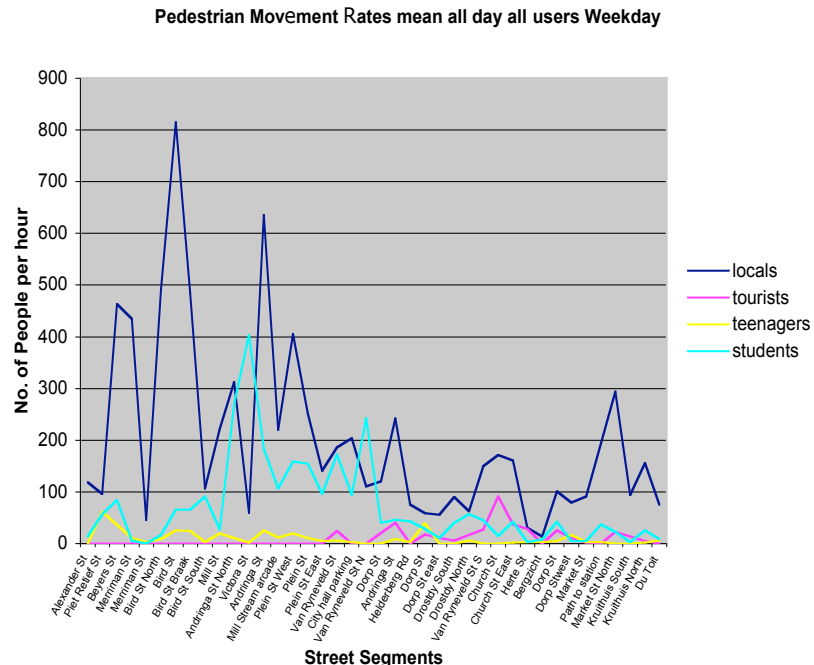


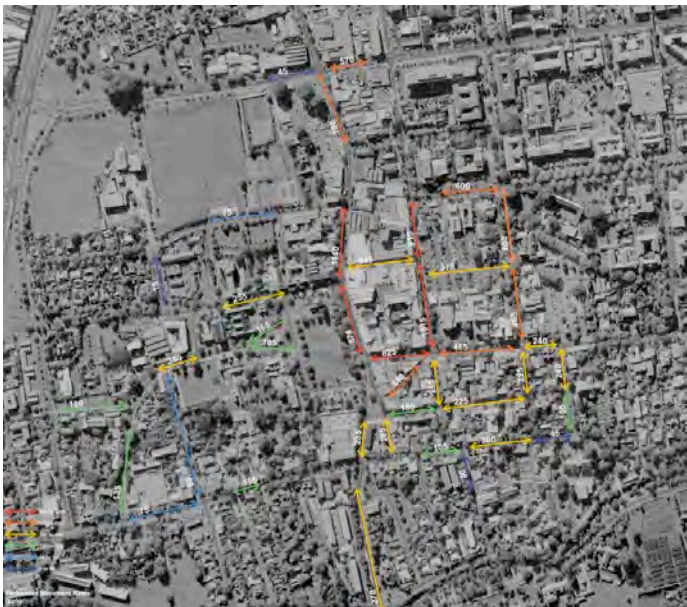
Table 2. Pedestrian Movement Rates Mean all Day of all Observed Categories of Users – Weekday



8:00-10:00am



10:00 -12:00pm



12:00-14:00pm



14:00 -16:00pm

KEY

Observed locations or 'gates' are represented by arrows coloured according to the number of persons crossing each 'gate' per hour in both directions.

Red arrows represent locations with the highest movement rates through orange, yellow, green, light blue to dark blue arrows for the locations with the least movement.

Numbers attached to the arrows indicates the hourly movement rates.

- ↔ 800 -1200
- ↔ 400 - 800
- ↔ 200 - 400
- ↔ 100 - 200
- ↔ 50 - 100
- ↔ 0 - 50

Figure 3
PEDESTRIAN MOVEMENT
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8:00-10:00am



10:00 -12:00pm



12:00-14:00pm



14:00 -16:00pm

KEY

Observed locations or 'gates' are represented by arrows coloured according to the number of persons crossing each 'gate' per hour in both directions.

Red arrows represent locations with the highest movement rates through orange, yellow, green, light blue to dark blue arrows for the locations with the least movement.

Numbers attached to the arrows indicates the hourly movement rates.

- 800 -1200
- 400 - 800
- 200 - 400
- 100 - 200
- 50 - 100
- 0 - 50

Figure 5
PEDESTRIAN MOVEMENT
WEEKEND
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16:00-18:00pm



Average all day

Pedestrian Movement Rates Weekend

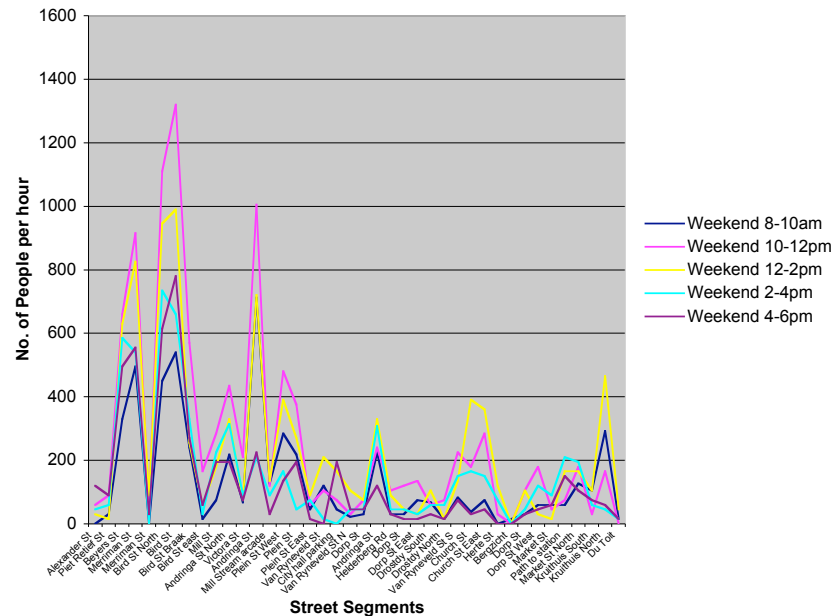


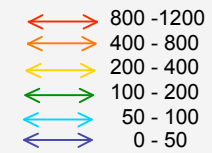
Table 4. Pedestrian Movement Rates – Weekend

KEY

Observed locations or ‘gates’ are represented by arrows coloured according to the number of persons crossing each ‘gate’ per hour in both directions.

Red arrows represent locations with the highest movement rates through orange, yellow, green, light blue to dark blue arrows for the locations with the least movement.

Numbers attached to the arrows indicates the hourly movement rates.



**Figure 6
PEDESTRIAN MOVEMENT
WEEKEND**

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5. KEY FINDINGS *continued*

In analysing the different users and the streets they frequent on a Weekday the following conclusions were drawn

- Locals tend to move most in the streets surrounding Shoprite Mall. Movement then spreads north into Bird Street, and east into Plein Street.
 - A distinct section of higher movement for locals is to the west of the town centre is along Market Street. This route leads to the station.
 - Areas where one is likely to experience only a few locals is to the south of the Van der Stel Sports ground, Herte Street, the eastern end of Dorp Street and adjacent the wall surrounding Voorgelegen Gardens as well as Victoria Street to the north of the Town Hall.
 - The number of tourists observed are very low but the areas they tend to frequent are along Church Street, Herte Street, the eastern end of Dorp Street and adjacent the wall surrounding Voorgelegen Gardens, Market Street near the tourist information centre and the southern end of Van Ryneveld street.
 - The areas tourists avoid are Plein Street, Bird Street, the streets surrounding Shoprite mall and most of the streets surrounding the Town Hall block (except for Van Ryneveld Street), as well as routes leading to the Van der Stel Sports grounds.
- The observed teenagers tend to use the Piet Retief, Bird Street route that links the schools to the south of the river into the town centre. Teenagers also use tend to use the routes around the Shoprite centre.
 - Teenagers tend to avoid Church, Market and Alexander Street.
 - Student movement is concentrated around the Town Hall block (predominately in the north) and along Plein Street.
 - Student movement is very low on Herte, Market, and on the routes leading to the Van der Stel sport club and in front of Pick n Pay in Merriman Street.
 - Overlap in terms of where two or more user groups have a good potential to occupy the same street section occurs for locals and teenagers on the street sections surrounding the Shoprite Mall. Locals, teenagers and students use Andringa Street to the west of the Town Hall block. Tourists and students use Van Ryneveld Street to the east of the Town Hall block.

Figure 7
PEDESTRIAN MOVEMENT
WEEKDAY
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Space Syntax



Locals



Tourists



Teenagers




Students

KEY

Observed locations or 'gates' are represented by arrows coloured according to the number of persons crossing each 'gate' per hour in both directions.

Red arrows represent locations with the highest movement rates through orange, yellow, green, light blue to dark blue arrows for the locations with the least movement.

The hourly movement rates are indicated by numbers attached to the arrows.

 25% highest potential rates on street segments for a particular user group.


 25% lowest potential movement rate on street segments for a particular user group.

Figure 7
PEDESTRIAN MOVEMENT
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Space Syntax

6. STATIC OBSERVATIONS

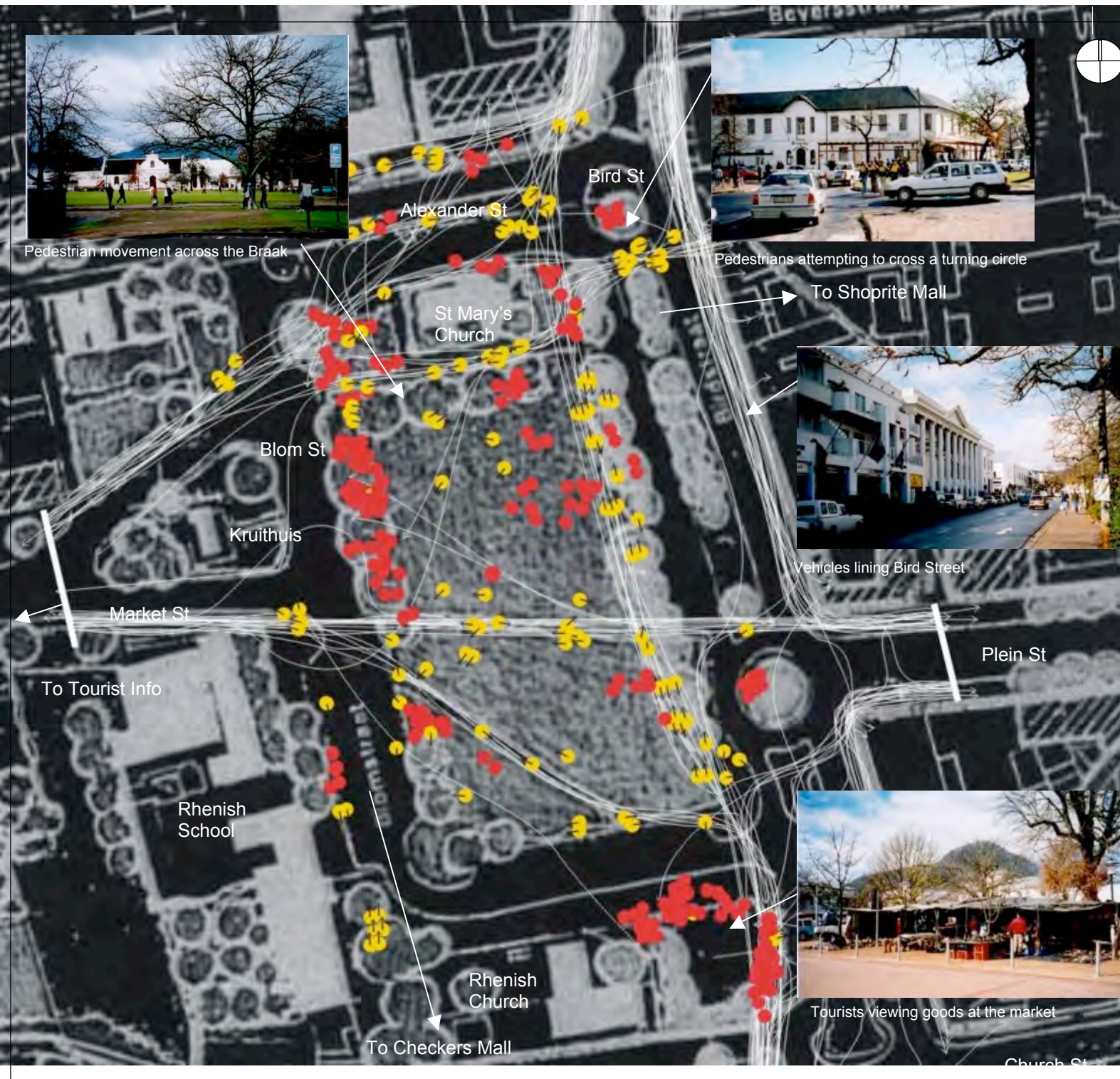
Method

A survey of static pedestrian activity around the Braak was undertaken in order to determine how well the space was utilised throughout the day on both a weekday and on a weekend. Observations recorded both moving and static people within the Braak over five time periods on a weekday and on a weekend from 08:00 to 18:00, the data is then overlaid to build up a pattern of space use. The movement patterns of people and how they interacted with the Braak was also noted by following people from four entry points into the Braak (See Figures 08-09).

7. KEY FINDINGS

Static Observations (Figures 8 and 9)

- On a Weekday and on a Weekend there is a high concentration of static people along the western edges of the Braak adjacent Blom Street. It is along this edge of the Braak that taxi drivers and commuters wait for taxi's to fill up.
- There is a strong relationship between the commuters, Shoprite mall, and the informal taxi rank. People do their shopping, walk their trolleys across the Braak, and wait for the taxis to fill up to leave, load their goods and leave their trolleys behind. This behaviour is more apparent on a Weekend.
- People also tend to concentrate to the east, and south east of St Mary's Church.
- Informal meeting points and static space use occurs in the traffic Islands of Alexander road.
- On a Weekday the build up of static people around the craft market (to the south of the Braak) is higher than on a Weekend.
- On a Weekday activity on the Braak increases toward late afternoon as people pass the time waiting for taxi's to leave while on a Weekend very few static people were observed using the Braak in the same time period.
- Static people on a Weekday use the lawn of the turning circles on Bird Street as a place to rest.
- Few static people occupy the pavements of the streets and outside building on the outer periphery of the Braak, viz. the Kruithuis, Rhenish School and Rhenish Church.
- The minimal pedestrian movement and static space use along Blom Street and to the south west of the Braak, to the north of the Checkers Mall, is also apparent from these observations.
- On a Weekend there is a high number of people moving along the edge of the St Mary's Church between Bird and Blom Street. A vendor selling fruit and vegetables has tried to capitalise on this movement by setting up a temporary store on the back of his vehicle on the north east corner of the Braak adjacent Bird Street.
- Moving people tend to follow the paths that have been created across the Braak limiting the deterioration of the lawn, however the Weekend observations indicate how highly utilised the path below the St Mary's Church is, this path is very well worn and the ground is quite eroded.
- The movement patterns of people both on a Weekday and on a Weekend indicates how most people tend to circulate around the edges of the Braak specifically to the east along Bird Street.
- On both a Weekday and on a Weekend the centre of the Braak is traversed quite heavily by pedestrians moving diagonally between Plein Street and Blom Street from or to the railway station or from the Tourist Information on Market Street across the Braak.
- The Braak is a short cut en route to the station, and the tourist information and is ideally located near two Shopping malls. Its location has therefore lead it to be traversed by commuters, shoppers and tourists. The few people that tend to stop are waiting for taxis. Commuters are the primary static users of the Braak.



KEY

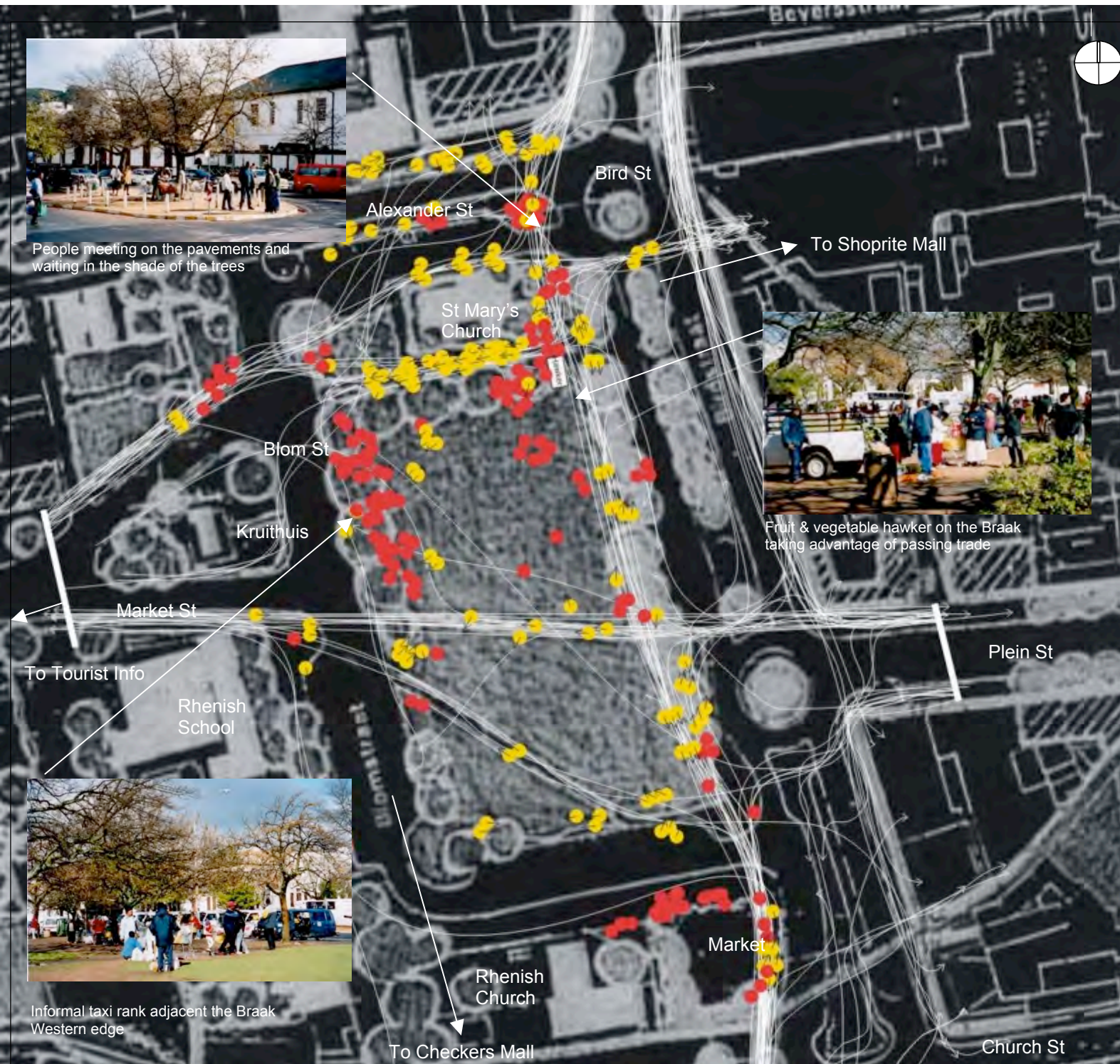
Static Snapshots of the Braak are taken in order to determine the density and frequency of use of the public space. Moving People are noted in yellow with an arrow to indicate direction of movement while static people are noted in red.

People are followed from four access points into the Braak so as to record the precise route taken by people as they move through the space.

Figure 8
STATIC OBSERVATIONS
WEEKDAY
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KEY

Static Snapshots of the Braak are taken in order to determine the density and frequency of use of the public space. Moving People are noted in yellow with an arrow to indicate direction of movement while static people are noted in red.

People are followed from four access points into the Braak so as to record the precise route taken by people as they move through the space.

Figure 9
STATIC OBSERVATIONS
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Space Syntax