



Urban Analysis

The urban areas of South Africa have undergone radical changes since 1994. The biggest metropolitan cities, like Johannesburg, Cape Town, Durban and Pretoria, have surely felt the changes most intensely.

Public space is being occupied in new ways.
Previously uncluttered, sanitized urban
parks and open spaces are now dotted with
braziers and campfires, and used for storing
goods overnight or conducting commercial
transactions; pavements have become
crowded with hawkers, tailors and
hairdressers; streets are congested with
taxis.

The spaces it vacates, whether commercial, retail or residential, are boarded or bricked up, "mothballed" against occupation by the poor. (Bremer 2005:6).

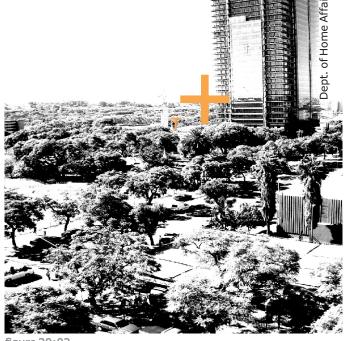


figure 20:02
Photograph view from site towards the east of Tshwane



Open sites which are boarded up or bricked in between buildings, creating harsh environments, are still available to be transformed into interactive spaces. Rather than demolishing buildings or evicting traders to create open space, new layers can be activated when a function is connected to a dead or underused space.

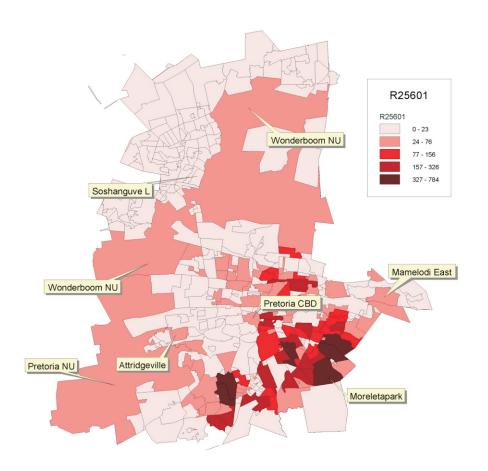
According to Jan Gehl, the built fabric creates physical and psychological boundaries which in essence define the edges of open spaces. These spaces take the form of streets, pavements, alleys and urban parks (Gehl 1987:52).

The precinct's pavement is currently used by informal traders selling food and daily necessities to pedestrians en route to public transport and the commercial areas. An opportunity exists for an architectural intervention utilizing dead or under-used spaces, that can form part of the urban fabric by connecting the street to the surface of the site.





figure 20:03 Collage of food sold in the Pretoria CBD



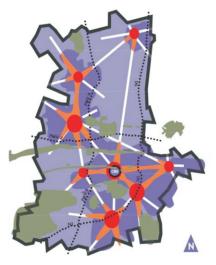


figure 20:04 (right) Income vs. node

figure 20:05 (left) Tshwane multinodal form

Income vs Nodes

The Pretoria CBD, unlike suburbs like Moreleta Park, Menlyn, Brooklyn and Centurion, has seen a rapid decline of income in relation to the node, due to businesses moving out of the CBD. The City of Tshwane Spatial Development Plan for 2010 aims to re-establish the Pretoria CBD as the main income node connected to the other nodes and the city of Johannesburg (Municipal Demarcation Board S.a.).

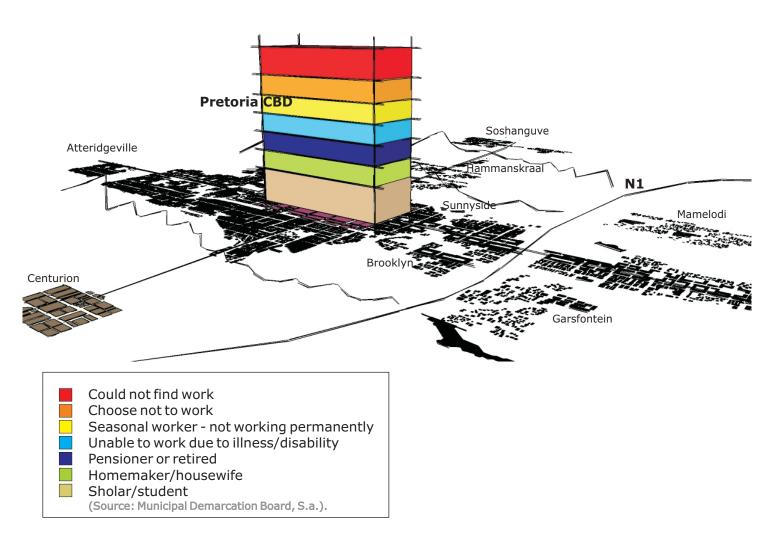
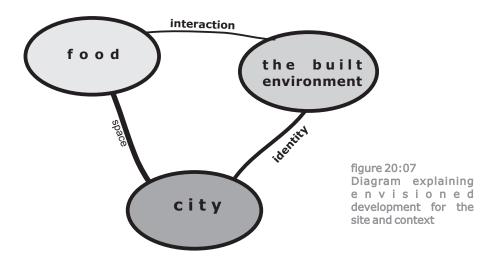


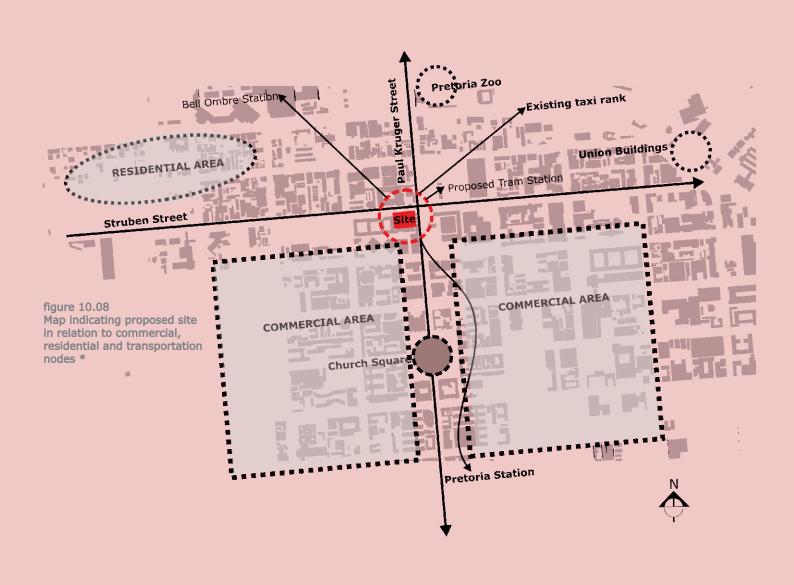
figure 20:06 Map; indicating reasons for not working



Throughout history, much in the built environment has been designed around food. Currently in South Africa, and globally for that matter, plans to regenerate sectors of the urban economy have been organized around the production and consumption of food. In many deteriorating areas, the socio-economic situation has been changed by the opening of new cafes, lounges, restaurants and speciality food stores.

The idea of this project is thus to investigate a place for educating people in the food production process, with space for interaction and consumption, creating an iconic cookery school where the process of gastronomy can be displayed and the products of performance be sold to the public. This would be a place where local food products and the community can be combined with architecture to create and promote local development. Success is envisioned as a space with regional identity, a space where market appeal is combined with architecture to turn an underused site into a destination for food and city lovers.

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Site Selection

The site chosen is located in Struben Street, north of Church Square in the CBD of Pretoria. Struben Street passes the northern edge of the site and stretches from the residential node in the west all the way towards the Union Buildings in the east. Paul Kruger Street forms the eastern Edge of the site, connecting Church Square with the Pretoria Zoo to the North.

Site Criteria and Motivation

Proximity to existing and future mass transit facilities.

Proximity to residential nodes

Proximity to educational nodes

Proximity to existing commercial nodes

Visual impact, as the building will have to sell itself and its function

The Site has the following strategic advantages.

It is centrally located in the CBD.

It is located between the residential and commercial nodes.

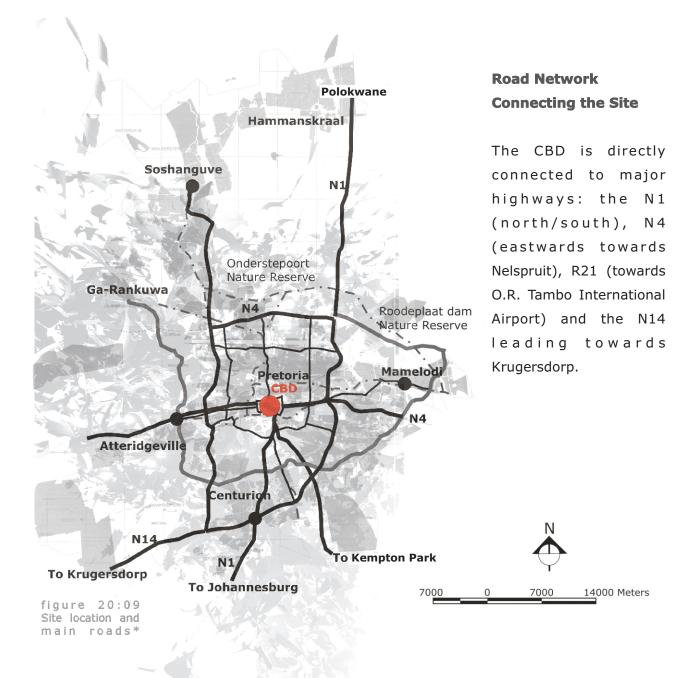
It is within walking distance from the Belle Ombre station and the Pretoria taxi rank, and is right across the street from the proposed tram system.

It is close to museums and local schools.

It is within walking distance from Pretoria Zoo, the second most visited place in Pretoria.

Parking facilities already exist adjacent to the site, and more parking is proposed on immediately surrounding sites.

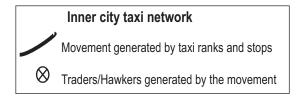
The site is within walking distance of Church Square.

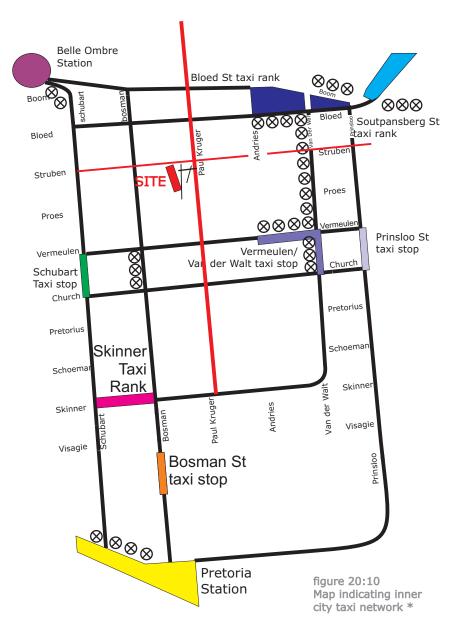


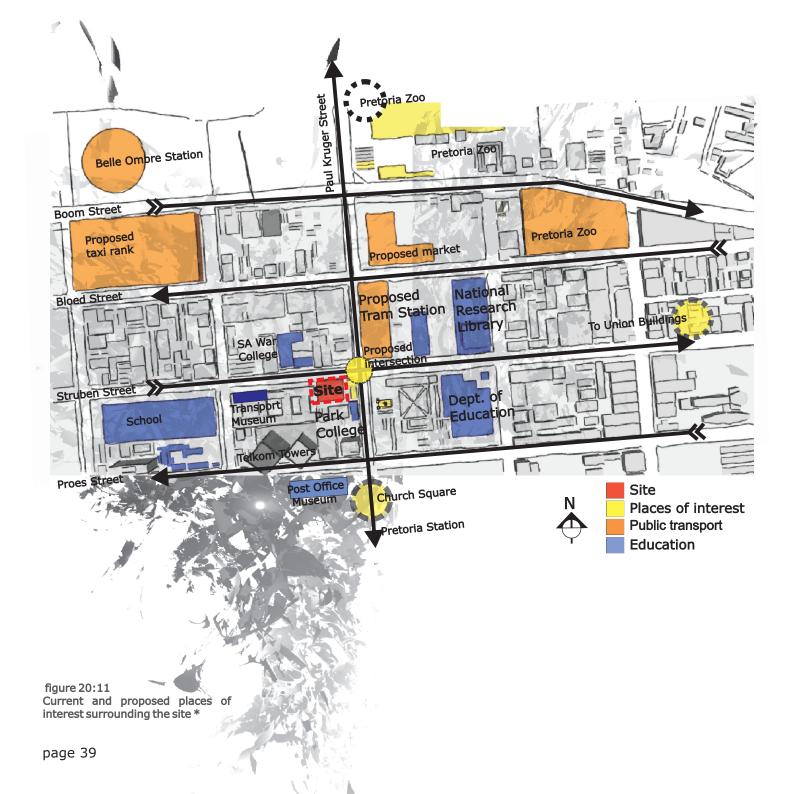
Private and Public Transport

Although many people live west of the Pretoria CBD, most people in the city work east of it and in Johannesburg. The largest majority of people commuting from or to the CBD use either taxis or private transport.

The Gautrain rapid rail link aims to connect the city of Tshwane to Johannesburg, easing the traffic load on the major roads. A Tshwane tram system is proposed, connecting the Pretoria CBD with other major suburbs and with a proposed station across the street from the site.







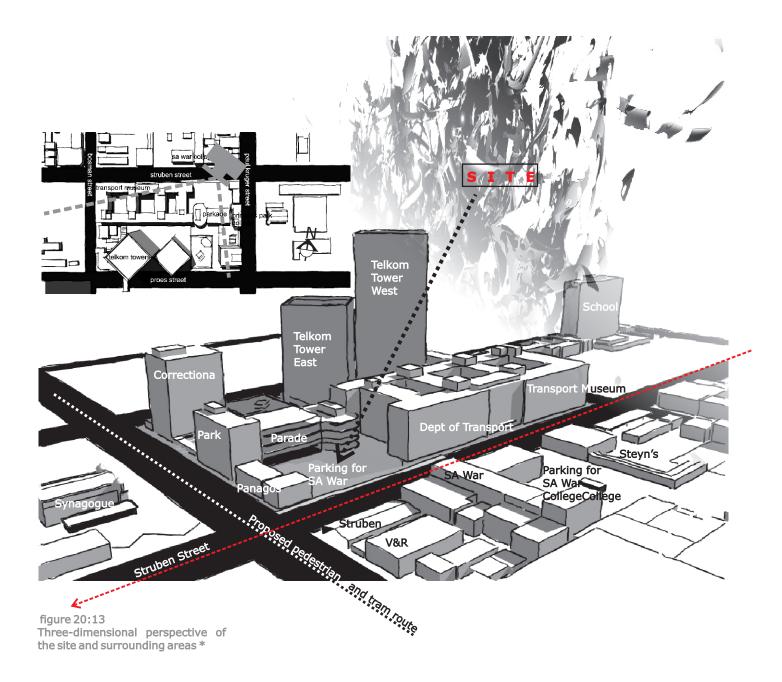


The existing parking area located in Struben Street, east of Paul Kruger Street, was chosen for this dissertation as it provides the necessary requirements for an architectural intervention. Currently the site is underused, and functions as an open parking area for the SA War College. It is a barren, unaltered space between high rise commercial buildings and heritage buildings. It is connected to educational facilities such as the Transport Museum, the War Museum, and the Post Office Museum, and is within walking distance of the Pretoria Zoo and Church Square. It is also a point of intersection between the commercial and residential areas of the CBD en route to major public transport nodes of Pretoria.

The site is flat, with no significant topographical features. It has a one metre fall from the southern edge towards the northern edge. The site has previously been cleared and covered with a tar surface, and serves as an open air-parking area for the SA War College. Two rows of six, indigenous trees each have been planted in the middle of the site to provide shade for the cars. Otherwise, vegetation is nonexistent. The northern edge of the site is separated from the public street level by a two-meter-high steel palisade wall.

figure 20:12 Photograph collage showcasing dead or under-used space on the site

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Visual Impact

The site will have a strong visual impact because:

- It is centrally located in the CBD and next to the Telkom Towers.
- Struben Street, forming the northern edge, is proposed as a government boulevard connecting to the Union Buildings.
- the Panagos and Synagogue heritage building form the eastern edge.
- the SA War Museum and Transport museum are directly opposite the site.
- the site is connected to the proposed pedestrian route connecting the Pretoria Zoo and Church Square.

Views from the site:

- Directly to the North, the Pretoria Zoo and natural landscape are visible.
- To the east, the Panagos and Synagogue heritage buildings are visible, with a view of the Union Buildings in the background.
- The Telkom Towers form the south-western view.
- Directly behind the site, what was previously the five-story Peugeot building forms the southern view.

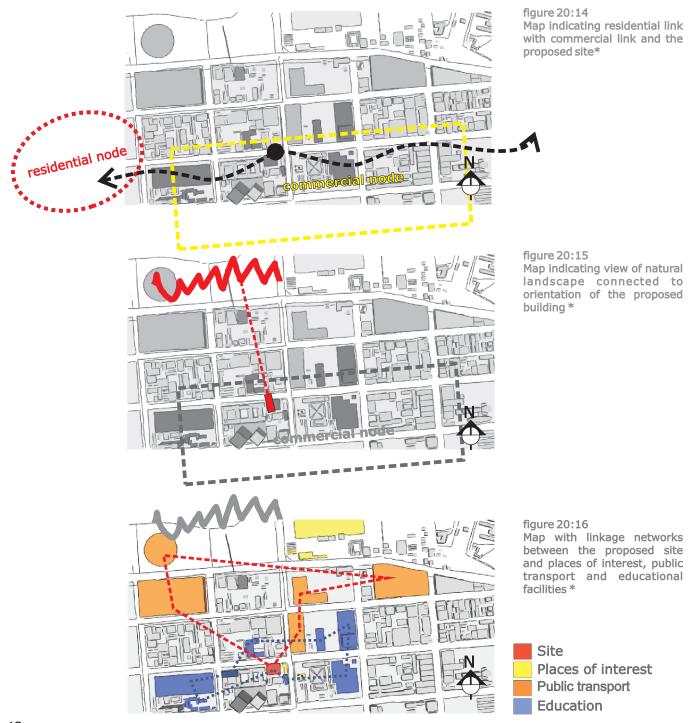


Table 1: Swot Analysis of site

Strengths	Weaknesses	Opportunity	Threat		
		Daine farmer and a second a second and a second a second and a second			
Character to the terminal and the termin	Canada di anticono inconstituto in attaco	Reinforce commercial activity in	The CDD could be a all the		
Strong commercial activity in	Companies are investing in other	Struben Street and surrounding	The CBD could lose all its		
Stuben St and Paul Kruger St	suburbs	streets	commercial strength		
Reasonable amount of light	Little or no shopping or formal	Create formal and informal retail			
industrial activity in Struben St	eating facilities in streets other				
between Bosman St & Schubart St	than Bloed St	Bloed St			
between bosinan be a benabare be	India bioda be	Block St	1		
	Buying power in lower income	Improve retail facilities to draw			
Fair amount of buying power	groups only	wide range of income groups			
			1		
	Stalls make pavements cluttered	Widen pavements and provide			
Hawker stalls add to street character	and impede pedestrian traffic	trading space.			
		Strong pedestrian routes can			
Pedestrian traffic in Church St and	Pedestrian routes underdefined	be established between	Sterile atmosphere threaten if		
Struben St via transport nodes	and in deteriorating state	nodes	only few people are on streets		
Victorian, Art Deco and Modernist	Heritage buildings neglegted and	Heritage buildings can be used	Heritage buildings can be lost to		
architectural heritage buildings	in deteriating state No street activity once schools and	as source of tourism	future generations Lack of safety for children are		
Numerous educational institutions	businesses close	city	not particularly catered for		
Trainerous caacational institutions	DUSTITIOSCS CIUSC	Improve access to sports fields	liot paracularly catered for		
Large Open Space: school sports		and other public spaces after			
field	Access to open space restricted	school hours			
Mix-Use in buildings: goverment,			1		
education, commercial, light					
industrial	No residential premises	Attract residential development			
Fair number of restaurants &	Lack of upmarket shops and	·	1		
takeaways	food outlets				
	Taxis impede orderly traffic flow				
	and cause congestion, few bus				
routes	stops	Regulate taxi lanes			
	Lack of human scale and				
	proportion around Telkom Towers				
	and Dept of Transport building				
Street frontages of buildings	and Dept of Transport building				
generally in good or average	Back yards and backs of buildings	Attract more light industry to	Light industry could add to		
condition	generally in bad condition	larea	visual deterioration of area		
	Vacant spaces other than sports				
Little vacant space other than sports					
fields	activity	Improve usage of vacant spaces			
	Lack of human space]		
	No public toilet facilities	Install public toilet facilities]		
	Lack of street furniture	Create public surface	Dauling anged de verberdet		
		Cuanta mana mantina a ana ar	Parking areas do not add to		
	Ī	Create more parking space (e.g.	urban fabric, but can attract		
	To accept in a manufacture of the contract of	line demonstrated manifer deal N	la a a a la ta a u a a		
	Insufficient parking space	underground parkades)	people to area		
Swot Analysis	Drug problem prevalent according	underground parkades)	people to area		
Swot Analysis	Drug problem prevalent according to people spoken to	underground parkades)	people to area		
	Drug problem prevalent according to people spoken to Unemployed people gather in		people to area		
Swot Analysis of Precinct	Drug problem prevalent according to people spoken to Unemployed people gather in Struben St in the hope of	Create oppertunities for	people to area		
	Drug problem prevalent according to people spoken to Unemployed people gather in		people to area Lack of safety deters people		
	Drug problem prevalent according to people spoken to Unemployed people gather in Struben St in the hope of finding employment	Create oppertunities for economic upliftment			
	Drug problem prevalent according to people spoken to Unemployed people gather in Struben St in the hope of	Create oppertunities for economic upliftment Increase police presence and	Lack of safety deters people		
	Drug problem prevalent according to people spoken to Unemployed people gather in Struben St in the hope of finding employment Perceived lack of safety	Create oppertunities for economic upliftment Increase police presence and lighting in area	Lack of safety deters people		

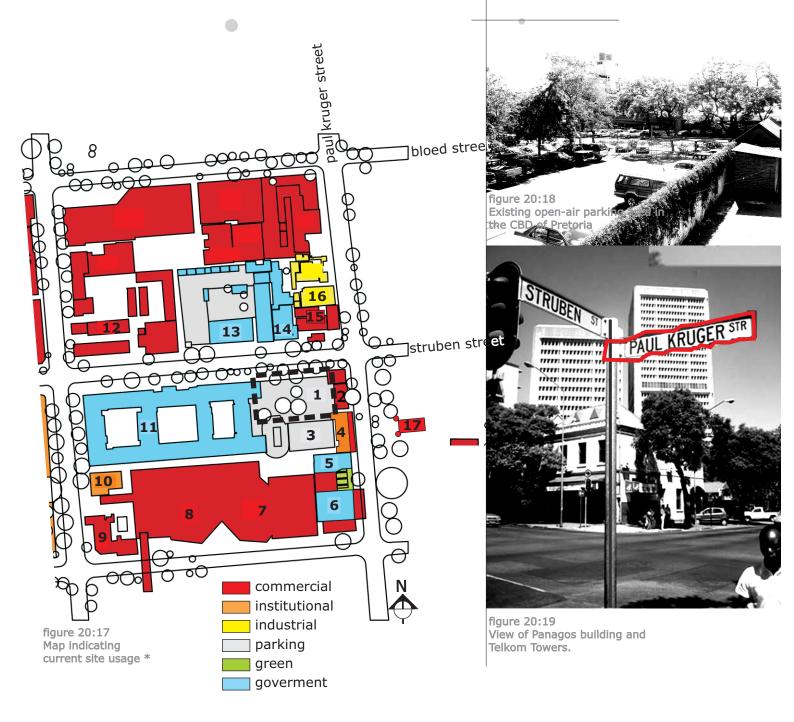


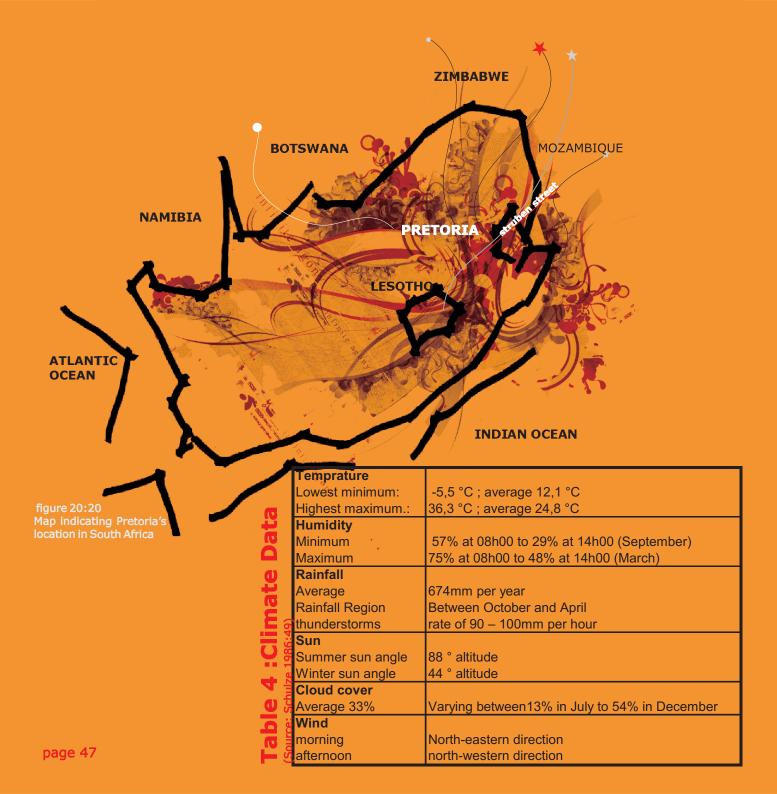
Table 2: Current Usage of Surrounding Sites

No.	Erf no	Building name	Function
1	2885	Parking for SA War College	Government (Parking)
2	4/102	Panagos Building (group of buildings)	Commercial (retail: restaurant, shops, offices)
3	2686	Ex-Peugeot Building parkade	Commercial (parking: Telkom)
4	2686	Pawn shop & Princess Park College (ex-Peugeot offices)	Commercial/institutional (retail: pawn shop & educational)
5	2894	Government Printer sales office & other shops	Government/commercial (retail: maps, hair salon, liquor)
6	2894	Correctional Services (Masada Building)	Commercial (retail: restaurant/shops) & Dept of Corr Services
7	3264	Telkom Tower East	Commercial (offices: Telkom)
8	3264	Telkom Tower North	Commercial (offices: Telkom)
9	3264	Telkom West Wing (ex-Hilda Mansions)	Commercial (offices: Telkom)
10	1/139	Molemo Building (target High School)	Institutional (educational: private)
11	2861	Dept of Transport (ex-Forum Building)	Government (offices: Department of Transport)
12	1/3297	Steyn's Auto Ford	Commercial (retail: car dealer)
13	R/3333	SA War College (ex-Protea Hotel, ex-Boulevard Hotel))	Government (education & accommodation)
14	R/3333	SA War College (ex-Protea Hotel, ex-Boulevard Hotel))	Government (Education & accommodation)
15	R/60	Struben Street Motors	Commercial (retail: car dealer)
16	3/60	V&R Printers	Light industry (printing)
17	R/19	Old Synagogue	N/A

Table 3: Architectural Language of Surrounding Buildings

			Height in storeys -	Heritage assess-
No.	Building materials	Style	estimate	ment
1	N/A	N/A	O	ment
2	Masonry	Victorian/Edwardian	2	High
				riigii
3	Concrete & masonry infill	Modernism	5	
4	Concrete & masonry infill	Modernism	9	
5	Concrete & masonry	Modernism	1	
6	Concrete with masonry infill	Modernism (1968)	12	Low
7	Concrete with masonry infill	Brutalism	5	Low
8	Concrete	Brutalism	17 & 28	Low
9	Concrete with masonry infill	Art Deco (1930s)	4	Medium
10	Concrete & masonry infill	Modernism	3	
11	Concrete & masonry infill	Modernism	7	Medium
12	Concrete & masonry building & car sheds	Industrial (car sales)	1	
13	Concrete & masonry infill	Modernism (1954)	2 - 4	High
14	Concrete & masonry infill	Modernism (1954)	2 - 4	High
15	Masonry building & steel car sheds	Modernism	2	
16	Concrete & masonry	Modernism	2	
17	N/A		2	High

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Climate Data

The Pretoria CBD is characterized by generally high temperatures due to thermal mass of the built-up environment.

Relatively high local humidity can combine with high afternoon temperatures to cause uncomfortable heat.

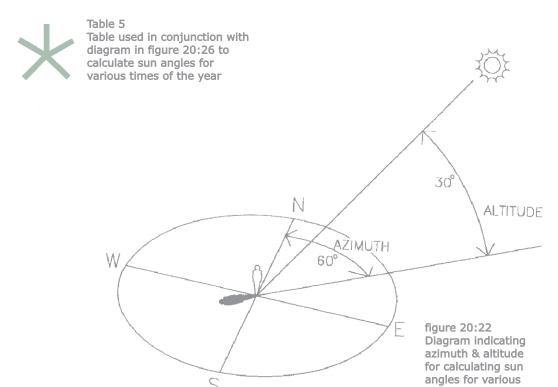
The site's climate can be described as unpleasant. Designing for the microand macro climate will have to be an important consideration in the surface of the site and the building.

(Source: Schulze 1986:49)



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Solar Times	06h00	08h00	10h00	12h00	14h00	16h00	18h00
Clock Times	06h18	08h18	10h18	12h18	14h18	16h18	18h18
Azimuth - 21 Desember	112 east	101 east	91 east	0	91 west	101 west	112 west
Altitude – 21 December	10	35	63	88	63	35	10
Azimuth – 21 June	N/A	55 east	34 east	0	34 west	55 west	N/A
Altitude – 21 June	N/A	14	32	40	32	14	N/A



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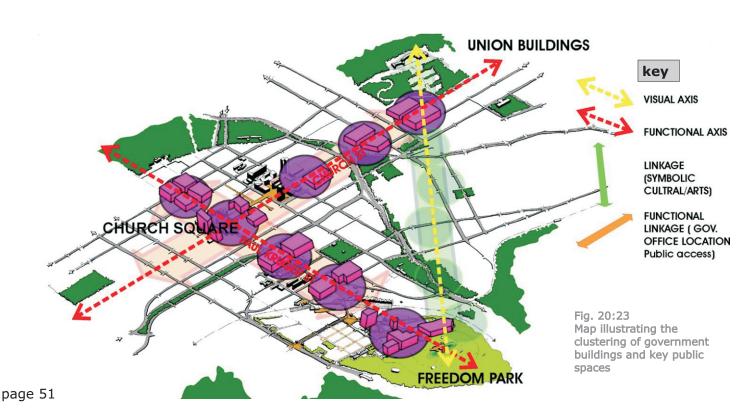
times of year

The Future

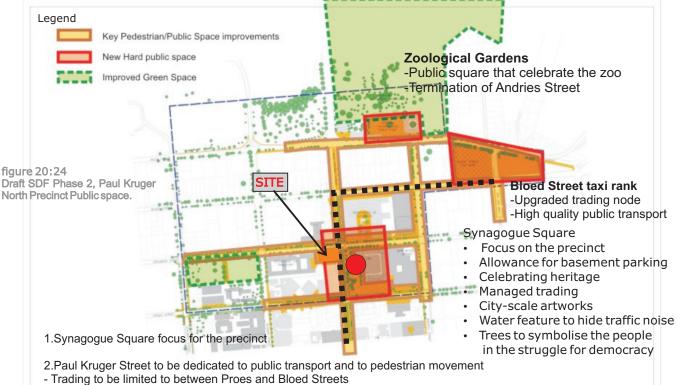
The Tshwane Inner City Spacial Development Framework by Gapp served as a precedent for the proposed renewal of the site for this dissertation.

The project aimed to reinforce proposals made for improving the city of Pretoria's inner urban environment as proposed by Gapp. Aspects such as urban security, public spaces, and accessibility forms the backbone of their proposal.

The proposed site is included in the GAPP proposal as a public space forming part of the proposed Synagogue Square and will contribute to inner city renewal and rejuvenation.



Summary of the Paul Kruger North Precinct as developed by GAPP Framework proposal:



- Major negative impact on intersections in favour of pedestrians
- Integration of hard and soft spaces, i.e. transport facility and road
- Accommodation mostly Government
- New 295-bay parking facility on corner of Proes and Paul Kruger allow for transfer station due to central location
- New ring road = Proes-Bosman-Vermeulen-Andries
- Preserve holistic quality: urban with vegetation
- Preserve buildings with architectural quality
- Preserve vitsas to heritage buildings
- 3. Pedestrian improvements to Proes (link to school grounds)

Struben(Link to Library)

Bloed (Link to Taxi Rank)

Boom (Link to Zoo and to Belle Ombre)

4.Due to the lack of public space, all such space must be accentuated - school grounds must be multi-use and could be a flagship model for new-type schools that share their grounds with the city

Building guidelines:

- No highrises
- Ratio: 3-4 high /1 wide
- Incorporate building into surroundings
- Allow for accessible courtyards