6. Site Analysis of Paul Kruger Street

6.1 Understanding the Urban Condition

6.1.1 Introduction

Before one can propose what an African city should be, urban problems should be defined by re-evaluating current modes of analysing and understanding the urban condition. This shifts toward new methodologies that allow for the understanding of the new socio-spatial relationships in the city. These methods represent and interpret the urban condition, influencing future decisions. Therefore, in order to develop new solutions new ways of understanding are needed.

This document has highlighted particular aspects relating to the urban condition. The first being that the South African City is made up of unique socio-cultural conditions, resulting in its inhabitants evolving into a new type of urbanising agent and thereby creating new social and human landscapes (Kahn, 1995:200). The second that these conditions should involve rethinking what is considered as space. In view of these aspects, new strategies and tactics are required to interpret these conditions should the wish be to restore and reclaim the African City.

At present, analytical models usually involve holding the world still in order to analyse it as an outsider resulting in a systematic overestimation of what already exists, often taking into account the most mediocre aspects (Lootsma, 1999:266). These models have many implications, as they suggest that space is static, with no history, and that we are the "all-seeing eye". These methods of taming and ordering space are problematic, as they refuse to acknowledge the heterogeneous and temporal qualities of space, denying it of dynamic merits (Massey, 2005: 36,106).

One needs to challenge these blatantly obvious modes of analysis and rather dispute the internal coherence, in order to point to the blind spots within the objective of exposing the city. The aim is not to characterise space as complete, but rather leave possibilities for something new.

6.1.2. Questioning the Validity of the Figure-Ground Study

To date, figure-ground studies have been relied upon greatly, being a prevalent and iconic tool in urban design. The validity of the figure-ground relation that formed the understanding of the urban fabric prior to the twentieth century, should be queried so that new tools, methodologies, and analysis techniques be created to intervene in the complex urban environments (Manau, Ortoneda & Solano, 2005:62). Giambattista Nolli's map of Rome from 1748 was an analytical method that was developed due to specific economic, social, cultural and political circumstances.

Nolli's methods and conventions of mapping the urban landscape can not adequately represent the spatialities and complexity of the twenty-first century city, let alone the African City. This is partly because what makes up the contemporary city has shifted from what was once visible; composition, material and form, to the invisible; processes, attitudes, perceptions and transactions. The figure-ground study is completely divorced from social landscapes in that



it stabilises the complexity of the time-space relationship (Massey, 2005:107,109). Figure-ground studies, imply a clear distinction between form and void, producing the by-product of controlled space which is residual space; an inherent problem in the South African city (Koolhaas, et al. 2000:193). This is not to say that figure-ground studies are void of value in urban design



Fig. 61 Giambattista Nolli (1748) Rome at the time of Benedict XIV: the Plan of Rome, Sector V including the Piazza Navona and the Pantheon. (Leupen, et al.1997:19)

processes as they contribute to the understanding of the spatial qualities of cities. However, this abstract and purely representational approach to understanding the city from an aerial point of view has reduced three-dimensional realities to two-dimensional, graphical imagery of urban spatialities.

6.1.3. New Tools to Analyse the Contemporary City

A new method of understanding and intervening in the contemporary urban fabric involves shifting the way in which cities are viewed, from formal to dynamic systems, so as to understand new relationships that exist between architecture and cities, as well as the juxtapositions, interconnections and distribution of forces they produce (Wall, 1999:234). This also promotes the identification of voids, the unproductive, obsolete and undefined (Simeoforidis, 2000:416).

To propose a new method of analysing the urban condition, is to recognise that human behaviour, expressed through a set of social, political, and economic processes, is shaped by territory and its spatial surroundings. In this context of the socio-spatial dialect, territory is defined as a geographically-organised human activity, or a human landscape that is created by agents operating within a specific social structure (Wolch & Dear, 1989: 3,7). The objective is to diverge from the abstract, reduced method of comprehending the urban condition, to one where the organisation of space is a product of human behaviour and social practices. Space within an urban context cannot be understood as an isolated object, but rather as a social landscape undefined by physical boundaries. It is rather defined by human boundaries, outlining the possibilities and limitations of human behaviour.



Once a legitimate understanding of the city as a human and social landscape exists, then architecture will play a passive role in which it intervenes as a condition and a social negotiator (Koolhaas, et al. 2000:12). Furthermore, architecture, as a product complete in itself, does not play the key role within the urban realm. Although it is only one of many disciplines contributing to a city, architecture is not entirely irrelevant, but needs to be reevaluated, redefined and reprogrammed, so that architecture becomes a condition holding a social and ethical function.

6.1.4. New Tools to Analyse the African City

These new modes of analysis are particularly important within the African urban condition. Its dynamic qualities should not be pinned down and neither should urban devices and occurrences be seen as absolute and final. African space cannot be understood as a mere horizontality as this idea eliminates the prospect of chance and temporality, two vital aspects of Africa's social landscape. The supposed informality of the African society should be cautiously considered as it is often just a cover up for some form of rebellious reaction against the excessive rationalisation of the modern (Massey, 2005:112).

The criteria used to understand the African City based on a multidisciplinary perspective acknowledges the importance of time and spatial phenomena as a temporal condition. Space is understood as the product of social relations where human beings have some ability to alter space and participate in its continuing production (Massey, 2005:118).

Interpret the Urban Condition of Paul Kruger Street

opposed to what they are.

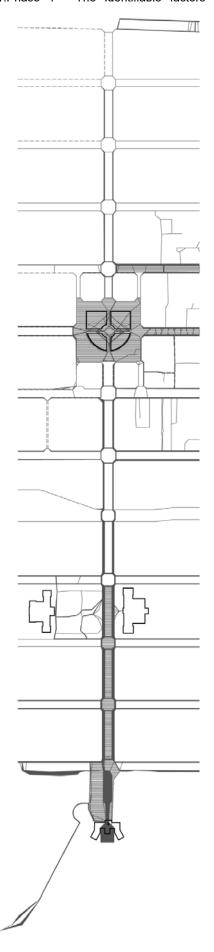
The analysis of Paul Kruger Street is informed by the focus of discussion which is the question that asks what a valid Africa urban expression is. From this and the previous theoretical investigation one can extract criteria that informs the methodology of analysis. Due to the focus on social space in an African context, and the aim for an urban condition whose identity is driven by activity and not by form, the analysis will focus on the temporal qualities of the city, in terms of its attitudes, perceptions and transactions, and the social landscape in which these urban processes take place. In other words, the most important outcome of this analysis is to determine what the spaces within Paul Kruger Street do as

In most cases the social and temporal qualities of any space, specifically within an urban condition, are very difficult to determine as an individual in a short period of time, due to the inconsistency and due to the fact that each individual may understand and perceive certain aspects differently. Therefore the method of analysis involves a process which begins with analysing aspects of Paul Kruger Street that is freely available and can be identified from available information, regular site visits, photographs and interviewing individuals that either use or live in the city.

Once all the known determinants are put together and understood as interdependent factors, one can then extract information from the results of the initial analysis in order to begin to understand the temporal and social condition of Paul Kruger Street. After these first two steps of analysis, one can acquire a clear understanding of the urban condition along the street, and more specifically it would then become clear that specific urban conditions, each with their own identity, problems and opportunities, occur along Paul Kruger Street.



6.1.6.1.Phase 1 - The Identifiable factors



BASE MAP A1: Daytime Pedestrian Activity

Analysis of Paul Kruger Street			
Ph	ase of Analysis	Description	
	A: Identifiable	Pedestrian Movement &	
	Factors	Intensity	am
	B: Results		7:30am
	C: Urban		rues.
	Conditions		Ĕ

Fig. 62 Analysis of pedestrian movement during the day along Paul Kruger Street (Author 2007).



Activity



Analysis of Paul Kruger Street			
Ph	ase of Analysis	Description	
	A: Identifiable	Pedestrian Movement &	
	Factors	Intensity (night)	_
	B: Results		9:00pm
	C: Urban		Fri. (
	Conditions		Fr







Fig. 63 Analysis of pedestrian movement during the evening along Paul Kruger Street (Author 2007).



BASE MAP A3: Vehicular Activity

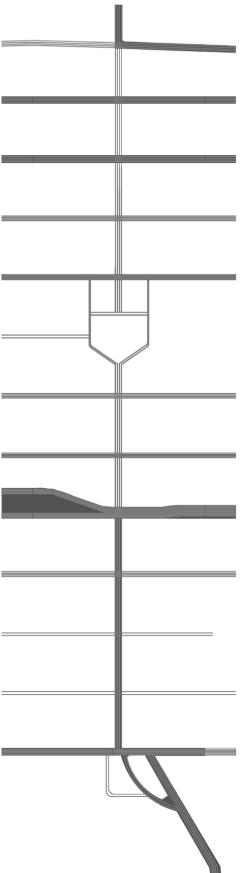


Fig. 64 Analysis of vehicular movement during the evening along Paul Kruger Street (Author 2007).

	Analysis of Paul Kruger Street			
Ī	Ph	ase of Analysis	Description	
Ī		A: Identifiable	Lighting as a result of	
		Factors	street lights, signage	_
		B: Results	and the illumnation of	9:00pm
			some buildings.	9:0
		C: Urban		Ę.
		Conditions		匠

Moderately high levels of illumination due to street lights.

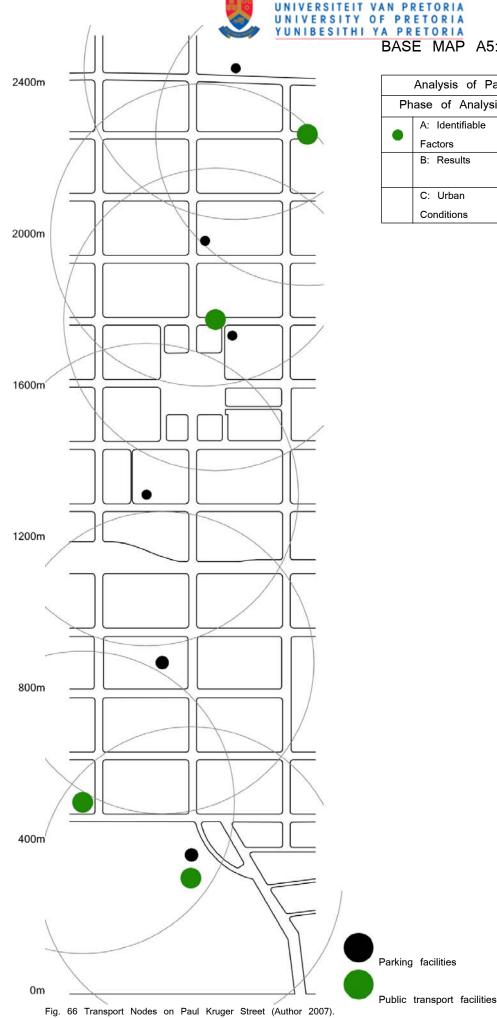
Very low levels of illumination.

Fig. 65 Analysis of illumination on Paul Kruger Street (Author 2007).



BASE MAP A5: Transport Nodes

	Analysis of Paul Kruger Street			
Ph	ase of Analysis	Description		
	A: Identifiable	Transport facilities and		
	Factors	the contribution they	аш	
	B: Results	make to pedestrian activ-	7:30am	
		ity and the energy thay		
	C: Urban	may result from that.	Lues.	
	Conditions	-	-	



	Analysis of Paul Kruger Street			
Ph	ase of Analysis	Description		
	A: Identifiable	The street and build-	_	
	Factors	ing edge and whether	San	
	B: Results	or not it allows for	11:15am	
		pedestrans to interact		
	C: Urban	with it.	Lues.	
	Conditions		F	

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Building facades with texture.

Edges in which encounters between building & people occur.

■ Solid & monotonous building edges allowing for minimal interaction.
■ Edges that allow acces to buildings, usually where trade occurs.

Edges that allow acces to buildings, usually where trade occurs.

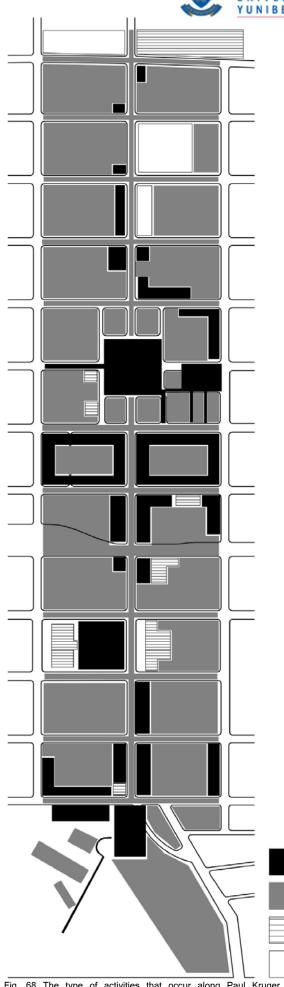
Edges that are contolled by means of

Edges that are contolled by means of fencing or security guards.



BASE MAP A7: Daytime Activities

Analysis of Paul Kruger Street			
Ph	ase of Analysis	Description	
	A: Identifiable	Necessary, optional and	_
	Factors	social activities.)ar
	B: Results		14:00am
	C: Urban		Wed.
	Conditions		<



Optional activities, which usually only take place should the environment be at an optimal condition.

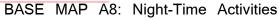
Necessary activites, that are usually compulsory.

Social activities where public interaction takes place.

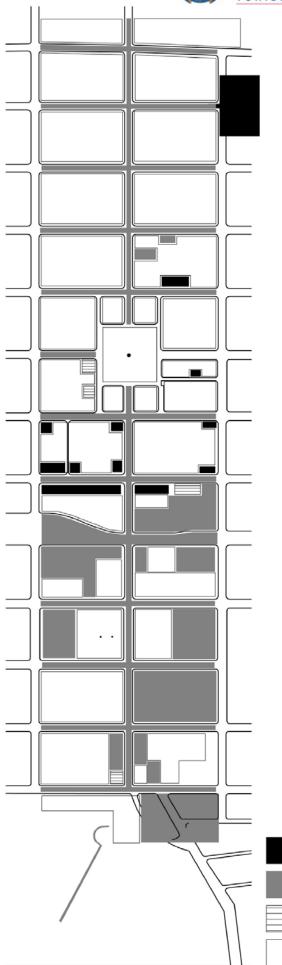
Minimal activity or human interaction.

Fig. 68 The type of activities that occur along Paul Kruger Street during the day (Author 2007).





	Analysis of Paul Kruger Street			
Ph	ase of Analysis	Description		
	A: Identifiable	Necessary, optional and		
	Factors	social activities.	_	
	B: Results		8:45pm	
			8:4	
	C: Urban		Sat.	
	Conditions		Ø	



Optional activities, which usually only take placetake place should the environment be at an optimal condition.

Necessary activites, that are usually compulsory.

Social activities where public interaction takes place.

Minimal activity or human interaction.

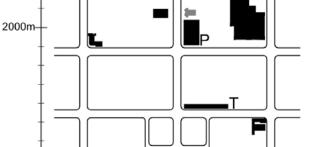
Fig. 69 The type of activities that occur along Paul Kruger Street during the evening (Author 2007).

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BASE MEquipmes 2400m Anal Phase A:

BASE MAP A9: Daytime Services & Equipment

Analysis of Paul Kruger Street			
Ph	ase of Analysis	Description	
	A: Identifiable	Choice and opportunities	_
	Factors	based on the 'services	Jan
	B: Results	and equiipment' that are	14:00am
		embedded within the	
	C: Urban	urban surface.	Wed.
	Conditions		>



1200m P P

800m

Fig. 70 The services and equipment available on Paul Kruger Street during the day. (Author 2007).

Facilities that provide recreation, entertainment, education and mulli-purpose facilities. i.e. museums, restaurants, hotels, schools, libraries, halls and places of worship.

Public transport facilities.

Parking facilites.

Open public spaces, squares or gardens.

Abandoned facilities that are no longer in use.

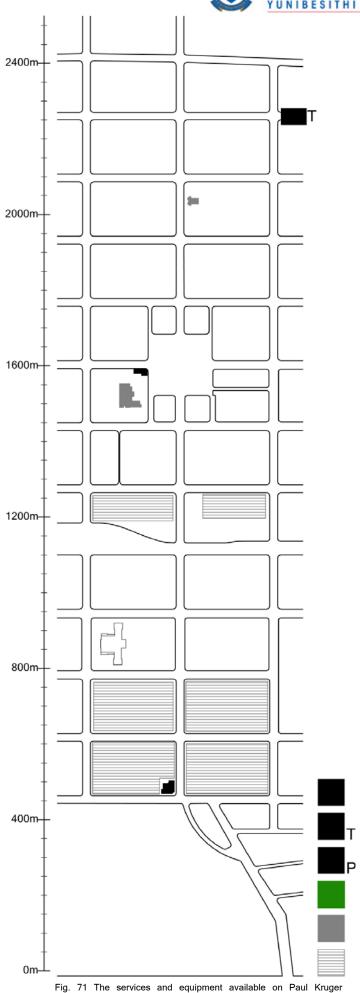
Residential compenent consisting exclusively of blocks of flats

0m-

400m

1600m-

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Street during the evening. (Author 2007).

BASE MAP A10: Night-Time Services & Equipment

Analysis of Paul Kruger Street			
Phase of Analysis		Description	
•	A: Identifiable Factors B: Results	Choice and opportunities based on the 'services and equiipment' that are	8:45pm
	C: Urban Conditions	embedded within the urban surface.	Sat.

Facilities that provide recreation, entertainment, education and mulli-purpose facilities. i.e. museums, restaurants, hotels, schools, libraries, halls and places of worship.

Public transport facilities.

Parking facilites.

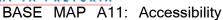
Open public spaces, squares or gardens.

Abandoned facilities that are no longer in use.

Areas in which housing facilities i.e. apartment blocks can be found.

i be louid.





	Analysis of Paul Kruger Street			
Ph	nase of Analysis	Description		
	A: Identifiable	Private, semi-public and	_	
	Factors	public space.)an	
	B: Results		14:00am	
	C: Urban		Wed.	
	Conditions		\$	

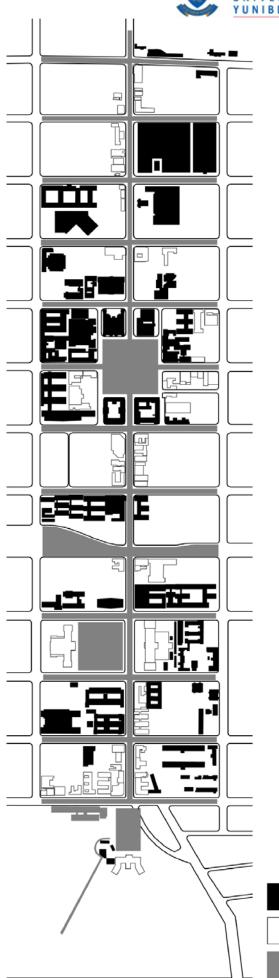


Fig. 72 The analysis of the accessibility to the spaces along Paul Kruger Street (Author 2007)

Private spaces, usually being those to which selected individuals have access to, i.e. office and government institutions.

Semi-public space. These being either shops or public facilities like museums and train stations.

Public space. Open public spaces, squares, gardens and streets.



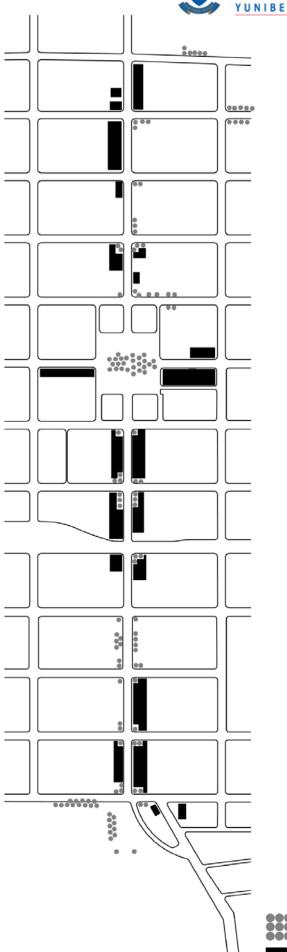


Fig. 73 The analysis of the commercial activity along Paul Kruger Street (Author 2007).

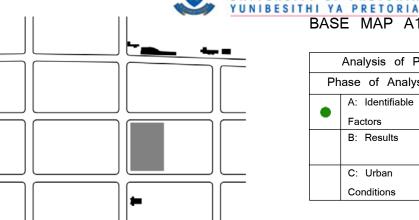
BASE MAP A12: Formal vs. Informal

	Analysis of Paul Kruger Street			
Phase of Analysis		Description		
	A: Identifiable	Informal commercial	_	
	Factors	activity versus formal	0ar	
	B: Results	commercial activity.	10:00am	
	C: Urban		Lues.	
	Conditions		ĭ	

Informal traders

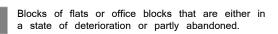
Formal trading facilities, i.e. shops, restaurants, hotels, and second-hand car dealerhips.





BASE MAP A13: Declining Services

Analysis of Paul Kruger Street				
Phase of Analysis		Description		
	A: Identifiable	Facilities and services		
	Factors	that are in a state of		
	B: Results	decline.		
	C: Urban			
	Conditions			



Public facilities that are either in a state of deterioration or rarely used or completely abandoned.

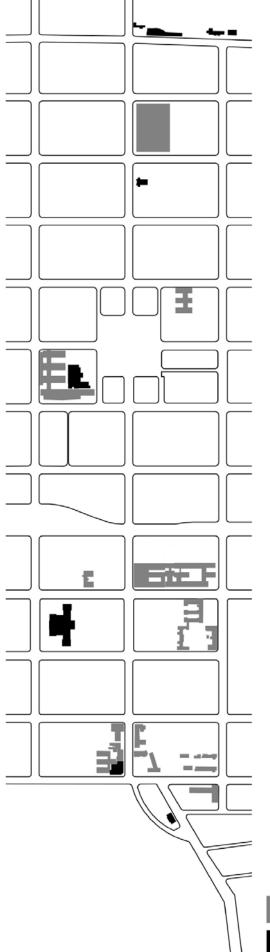
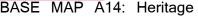


Fig. 74 Facilities along Paul Kruger Street that are in a state of decline (Author 2007).

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Phase of Analysis A: Identifiable Factors B: Results Description Buildings and spaces of heritage value.		Analysis of Paul Kruger Street				
Factors heritage value.	Phase of Analysis		Description			
B: Results		A: Identifiable	Buildings and spaces of			
		Factors	heritage value.			
		B: Results				
C: Urban		C: Urban				
Conditions		Conditions				

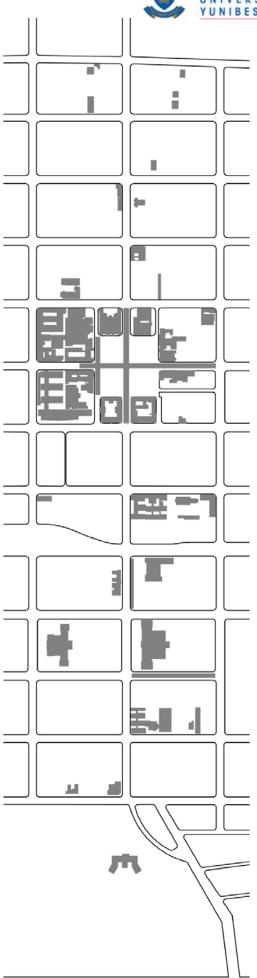
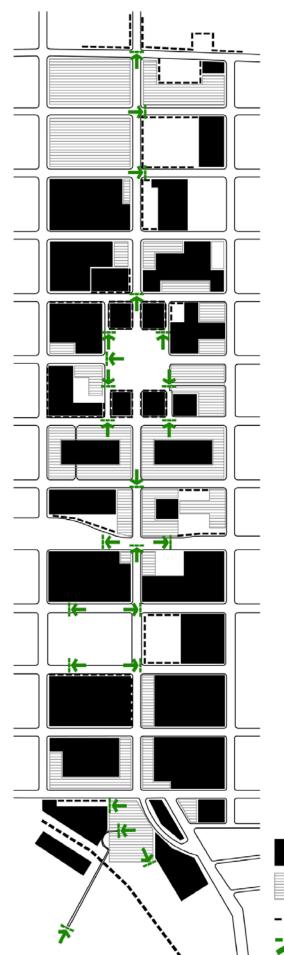


Fig. 75 Buildings of heritage value along Paul Kruger Street (Author 2007).

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6.1.6.2. Phase 2 - The Resulting Pacific



BASE MAP B1: Territory

	Analysis of Paul Kruger Street				
Ph	ase of Analysis	Description			
A: Identifiable Factors B: Results		Controlled space and residual space as a result of both physical and			
	C: Urban Conditions	psychological boundaries.			

Contributing		
Identifiable	Base Maps - Phase 1	
Factors		
	A1. Daytime Pedestrian Activity	
	A2. Night-Time Pedestrian Activity	
	A3. Vehicular Activity	
	A4. Illumination	
	A5. Transport Nodes	
•	A6. Edge Condition	
•	A7. Daytime Activities	
•	A8. Night-Time Activities	
	A9. Daytime Services & Equipment	
	A10. Night-Time Services & Equipment	
•	A11. Accessibility	
•	A12. Formal vs. Informal	
•	A13. Declining Services	
	A14. Heritage	

Private sector to which only certain individuals have access.

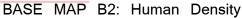
Accessible to the public.

Physical boundary.

Psychological boundary, therefore 'blocking' areas.

Fig. 76 The analysis of the physical and psychological boundaries along Paul Kruger Street (Author 2007).





	Analysis of Pa	aul Kruger Street
Ph	ase of Analysis	Description
	A: Identifiable	The areas that generally
	Factors	attract more people, and as
	B: Results	result are perceived to have
		more energy and
	C: Urban	experiential quality.
	Conditions	

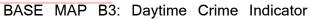
Contributing	
Identifiable	Base Maps - Phase 1
Factors	
•	A1. Daytime Pedestrian Activity
•	A2. Night-Time Pedestrian Activity
•	A3. Vehicular Activity
	A4. Illumination
•	A5. Transport Nodes
	A6. Edge Condition
	A7. Daytime Activities
	A8. Night-Time Activities
•	A9. Daytime Services & Equipment
•	A10. Night-Time Services & Equipment
	A11. Accessibility
	A12. Formal vs. Informal
•	A13. Declining Services
	A14. Heritage

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- A low amount of human activity.
- A moderate amount of human activity.
- A high amount of human activity.

Fig. 77 The analysis of the areas that generaly attract more people (Author 2007). $\begin{tabular}{lll} \hline \end{tabular} \label{table_equation}$





Analysis of Pa	aul Kruger Street
Phase of Analysis	Description
A: Identifiable Factors	This in an indication of actual criime and perceived
B: Results	crimed along the street. This information is based on
C: Urban Conditions	information extracted from statistics and research conducted for the Paul Kruger Street Spine Urban Design Framework for the Improvement of Environmental Conditions on Paul Kruger Street by (Schoonraad, Steenkamp, Young, Roodt and Velaytham, 2000:37).

Contributing	
Identifiable	Base Maps - Phase 1
Factors	
•	A1. Daytime Pedestrian Activity
	A2. Night-Time Pedestrian Activity
	A3. Vehicular Activity
	A4. Illumination
	A5. Transport Nodes
	A6. Edge Condition
•	A7. Daytime Activities
	A8. Night-Time Activities
	A9. Daytime Services & Equipment
	A10. Night-Time Services & Equipment
	A11. Accessibility
	A12. Formal vs. Informal
•	A13. Declining Services
	A14. Heritage

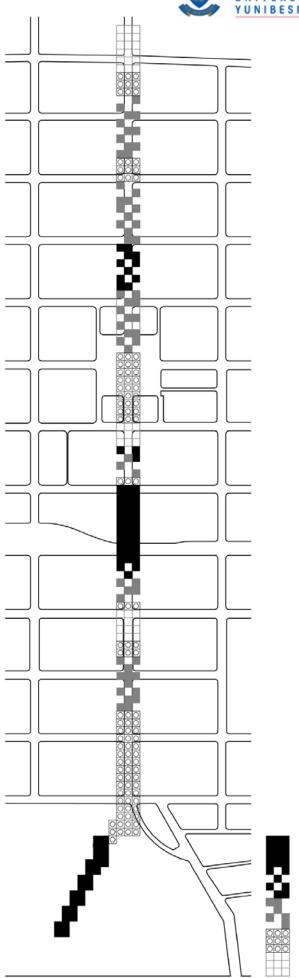


Fig. 78 The analysis of perceived and actual criminal activity along Paul Kruger Street during the day (Author 2007).

Very high.

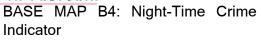
Above average.

Average.

Below average.

Very low.





	Analysis of Pa	aul Kruger Street
Pł	nase of Analysis	Description
	A: Identifiable Factors	This in an indication of actual criime and perceived
•	B: Results	crimed along the street. This information is based
	C: Urban Conditions	on information extracted from statistics and research conducted for the Paul Kruger Street Spine Urban Design Framework for the Improvement of Environmental Conditions on Paul Kruger Street by (Schoonraad, et al. 2000:37).

Contributing	
Identifiable	Base Maps - Phase 1
Factors	
	A1. Daytime Pedestrian Activity
	A2. Night-Time Pedestrian Activity
	A3. Vehicular Activity
•	A4. Illumination
	A5. Transport Nodes
	A6. Edge Condition
	A7. Daytime Activities
•	A8. Night-Time Activities
	A9. Daytime Services & Equipment
	A10. Night-Time Services & Equipment
	A11. Accessibility
	A12. Formal vs. Informal
•	A13. Declining Services
	A14. Heritage

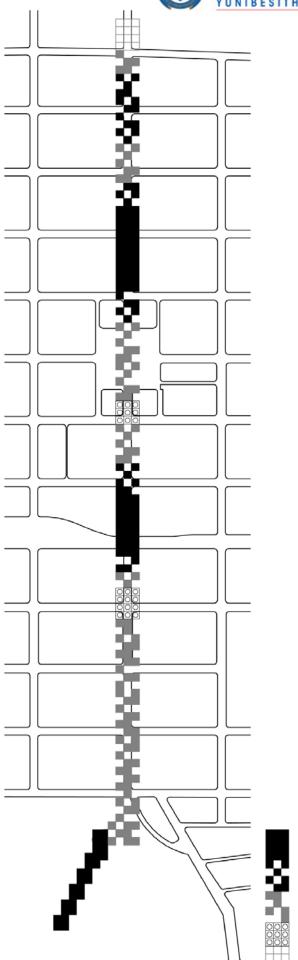


Fig. 79 The analysis of perceived and actual criminal activity along Paul Kruger Street during the evening (Author 2007).

Very high.

Above average.

Average.

Below average.

Very low.

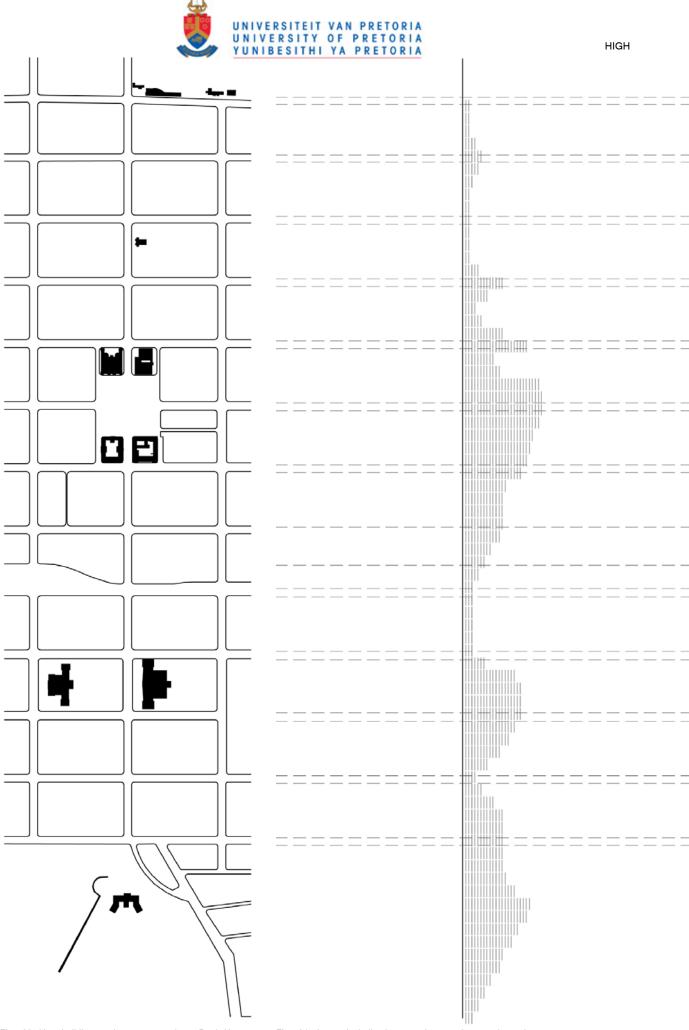


Fig. 80 Key building and structures along Paul Kruger Street (Author 2007).

Fig. 81 A graph indicating emotions and sensations that one may experience during the day along Paul Kruger Street (Author 2007).



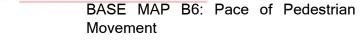
BASE MAP B5: Emotions & Sensations

	Analysis of Pa	aul Kruger Street
Ph	ase of Analysis	Description
	A: Identifiable	A comparison of the
	Factors	experiental quality along the
	B: Results	street during the day and
		at night. It is based on
	C: Urban	energy, activity, processes
	Conditions	and transactions.

Contributing	
Identifiable	Base Maps - Phase 1
Factors	
•	A1. Daytime Pedestrian Activity
•	A2. Night-Time Pedestrian Activity
	A3. Vehicular Activity
	A4. Illumination
	A5. Transport Nodes
•	A6. Edge Condition
•	A7. Daytime Activities
•	A8. Night-Time Activities
	A9. Daytime Services & Equipment
	A10. Night-Time Services & Equipment
	A11. Accessibility
•	A12. Formal vs. Informal
•	A13. Declining Services
•	A14. Heritage

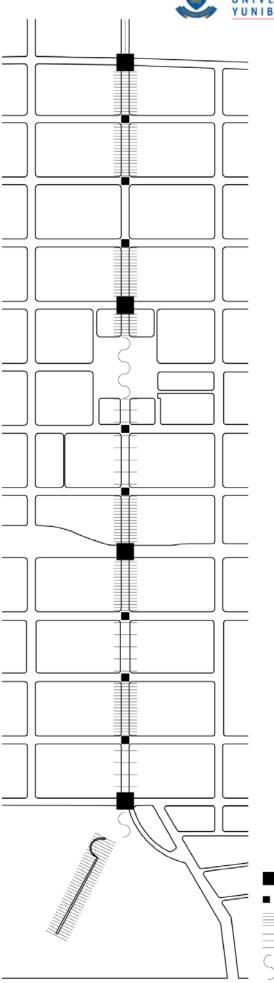
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	Analysis of Pa	aul Kruger Street
Ph	ase of Analysis	Description
	A: Identifiable	The rate at which
	Factors	pedestrians walk along the
	B: Results	street.
	C: Urban	
	Conditions	

Contributing	
Identifiable	Base Maps - Phase 1
Factors	
	A1. Daytime Pedestrian Activity
	A2. Night-Time Pedestrian Activity
•	A3. Vehicular Activity
	A4. Illumination
	A5. Transport Nodes
•	A6. Edge Condition
•	A7. Daytime Activities
•	A8. Night-Time Activities
•	A9. Daytime Services & Equipment
•	A10. Night-Time Services & Equipment
•	A11. Accessibility
	A12. Formal vs. Informal
	A13. Declining Services
•	A14. Heritage



Interruption to pedestrian movement due to a traffic intersection with high levels of vehicular activity.

Interruption to pedestrian movement due to a traffic intersection with moderate levels of vehicular activity. Walking at a fast pace.

Walking a moderate pace.

Leisurely walk.

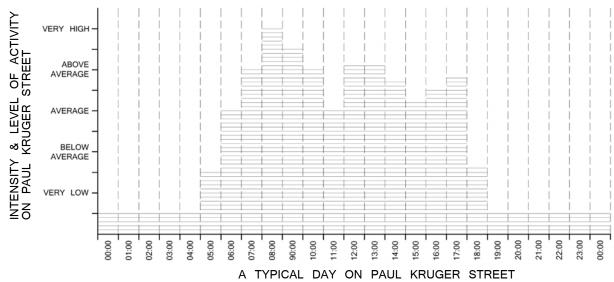
Fig. 82 The rate at which pedestrians move along Paul Kruger Street Street (Author 2007).

6.1.6.3. Conclusion to the Analysis of Paul Kruger Street

This analysis clearly illustrates that Paul Kruger Street is characterised by the domination of *physical space* over the *social space*. It lacks both a temporal condition and overlapping conditions, therefore allowing a limited number of programmes to occur over a short period of time, for that reason it is a street that can only provide an insignificant amount of choice and opportunity. Unfortunately it is a street that is only able to identify itself with routine and a limited number of processes and transactions and not with more desirable characteristics such as spontaneity, surprise and sensation.

It is also clear that Paul Kruger Street lacks a social landscape that is able to support social exchange and relations; therefore it is a closed system in which it becomes a place of necessity and does not open itself to the possibilities of new and indeterminate outcomes.

As a final point, it is defined by a fixed territory with non-elastic edges resulting in controlled space and residual space, the latter being where the symptoms of the city are played out. The entire street is a space in which one can easily identify a clear distinction between street, sidewalk and building and where the boundaries are never blurred.



ACTIVITIES:

- Gather
- View
- Meet
- Visit
- Eat
- Drink
- Walk
- Talk
- Shop
- Drive
- Get on a bus
- Catch a train
- Play
- Sit
- Relax
- Party
- Visit a museum

Fig. 83 A graph indicating the conclusion that was reached after analysing Paul Kruger Street (Author 2007).

New offices for government departments Museum Park

BASE MAP C1: Assets

Analysis of Paul Kruger Street						
Pł	nase of Analysis	Description				
	A: Identifiable	Buildings, structures and				
	B: Results	open spaces considered to be assests based on historical, cultural, social,				
•	C: Urban Conditions	economic and recreational value.				

Existing structures, buildings or open spaces as assets.

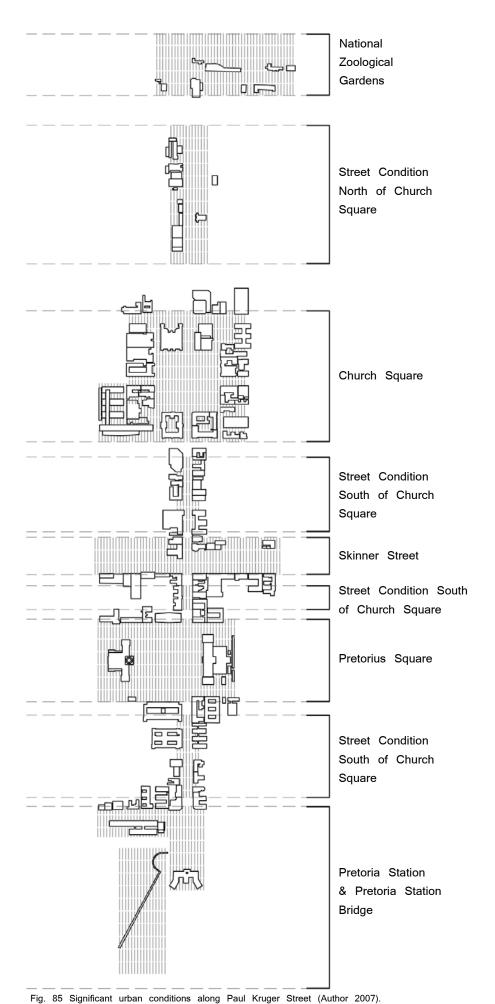
Open spaces as potential assets

Potential assets

Future schemes planned by the city.

Fig. 84 Significant buildings, structures and spaces along Paul Kruger Street (Author 2007).

C2: Urban Conditions



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HI YA	PRETORIA: Pa	aul Kruger Street		
Pha	se of Analysis	Description		
	A: Identifiable	Three-dimensional		
	Factors	representation of the		
	B: Results	built-form along Paul Kruger		
		Street.		
	C: Urban			
	Conditions			

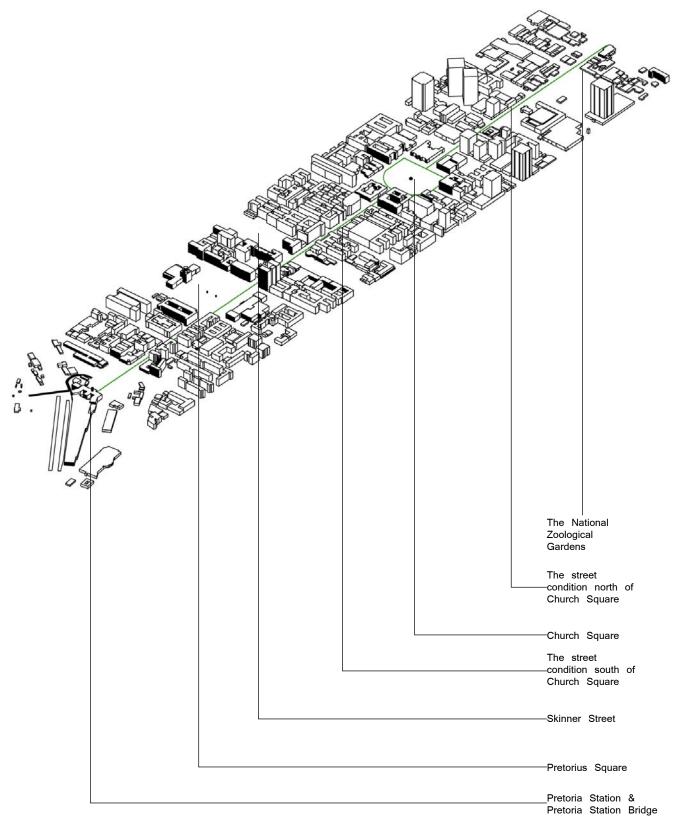


Fig. 86 A three-dimensional representation of Paul Kruger Street (Author 2007).