2013 ICA CONFERENCE Creating Safer Communities - More Than Design

3 - 4 July 2013 Calgary, Alberta, Canada

Tinus Kruger CSIR Built Environment, South Africa

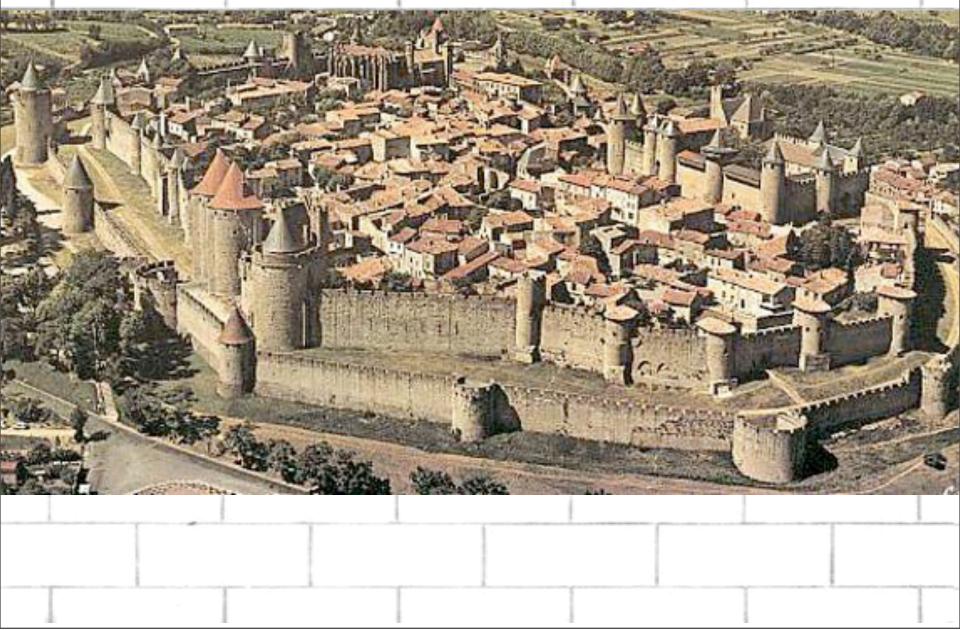


our future through science

CPTED without boundaries A critical examination of walls as security measures



CPTED > SECURITY > WALLS?











FEAR BUILDS WALLS



perceptions

FEAR

WALLS











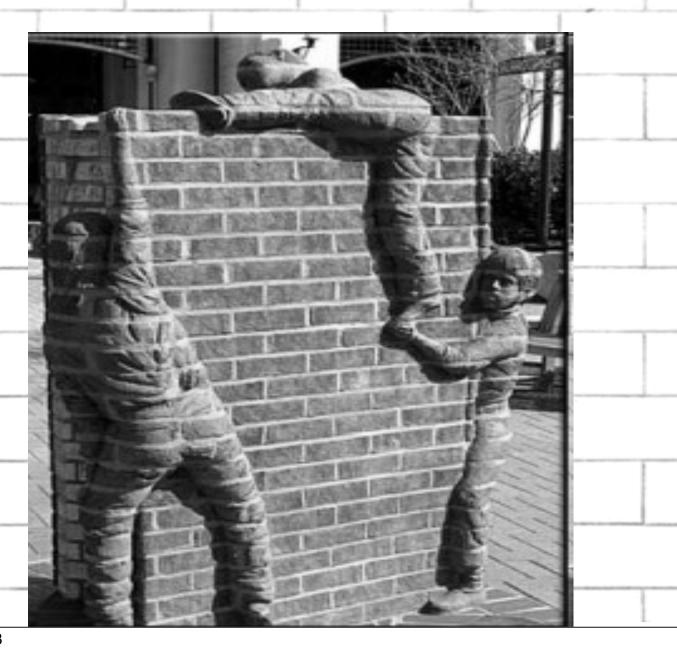




Wednesday, 17 July, 13







1. Introduction



1. Introduction

2. Responses to crime



1. Introduction

2. Responses to crime

3. Project – removing a security wall

1. Introduction

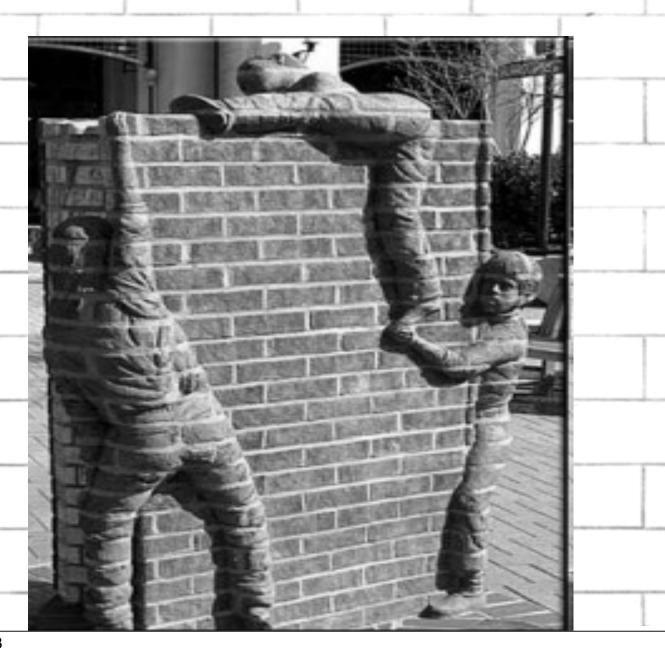
2. Responses to crime

3. Project – removing a security wall

4. Conclusion

	PRESENTATION STRUCTURE
1.	Introduction
2.	Responses to crime
3.	Project – removing a security wall
4.	Conclusion
5.	

INTRODUCTION



INTRODUCTION

The South African context

- Background to South Africa
- Social-political situation
- Crime situation

Background







Canada Population 35 million 8 x size of SA

South Africa

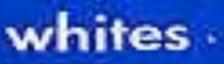
Population

50 million

1 AAAAA

The socio-political situation

Political legacy





blankes

nie blankes

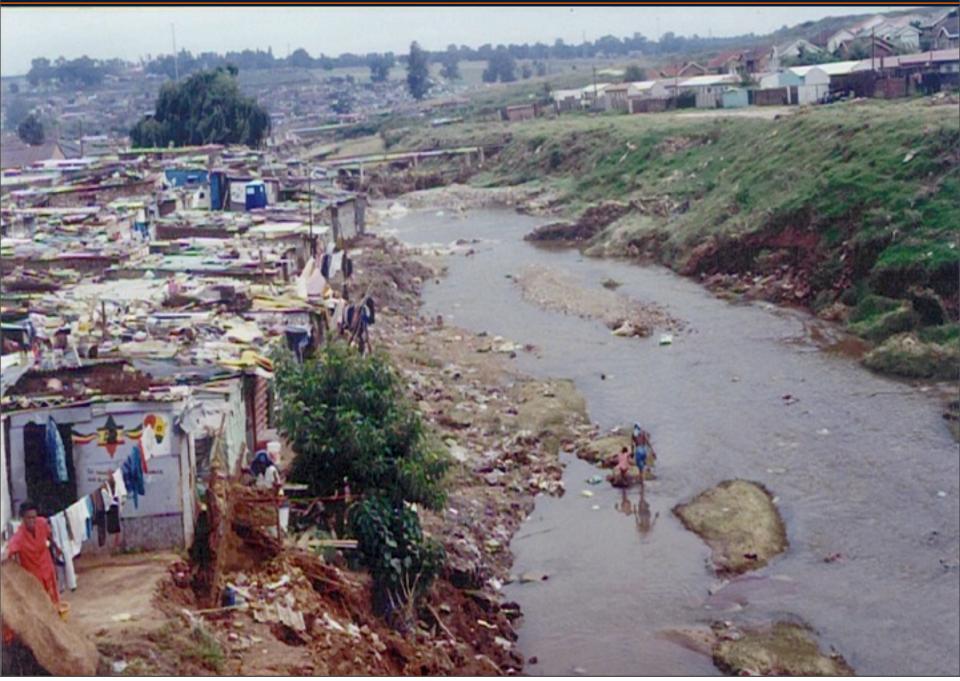
History of forced segregation



History of forced segregation



Extreme levels of poverty



Inequality and income disparity



Unemployment: 40 – 50%



Lack of respect for law and order; moral decay



The crime situation

LX44

The crime situation

- Crime levels very high relative to many other countries
- More than 15 600 murders per year 31 per 100 000
- Since 1994 the murder rate has decreased by almost 54%, (from 70 per 100 000)
- USA 4.2 per 100 000 (13 000)
- Highest murder rate 2012 Honduras (92 per 100 000)

Extreme violence



Wednesday, 17 July, 13

High levels of fear



Fear... sometimes it is justified



The physical environment can contribute to, or reduce, the fear of crime









INTRODUCTION

Implications

- High levels of crime, violence and fear, combined with...
- Inequalities extreme differences in context
- Affect the nature of strategies and initiatives aimed at reducing crime

RESPONSES TO CRIME



Responses are context specific

- Affluent communities often rely on private resources and funding
- Poorer communities do not have access to resources other than those provided by the government

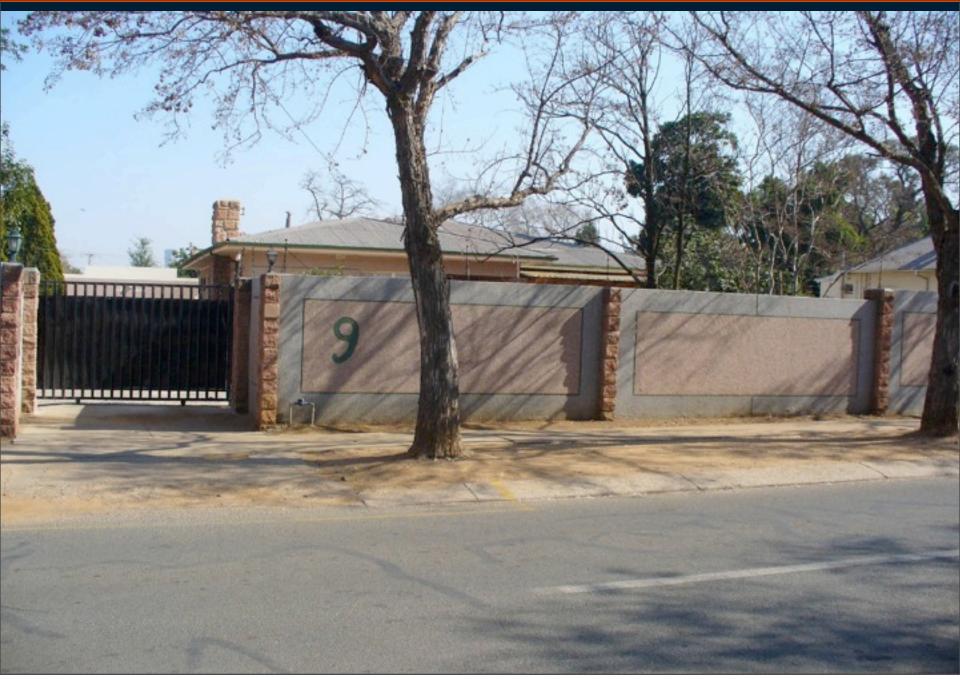
Typical responses to crime and the fear of crime – affluent areas



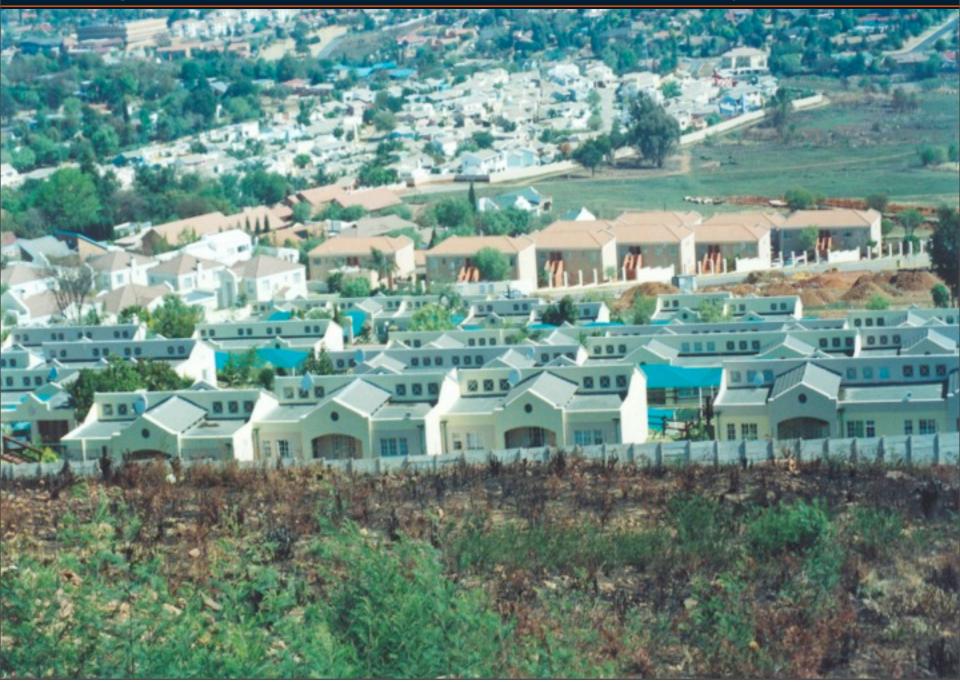
Typical responses to crime and the fear of crime – affluent areas



Walls are built around private houses...



...neighborhoods, townhouse complexes, security estates etc.



Combined with electric fencing, CCTV systems...



Combined with electric fencing, CCTV systems...





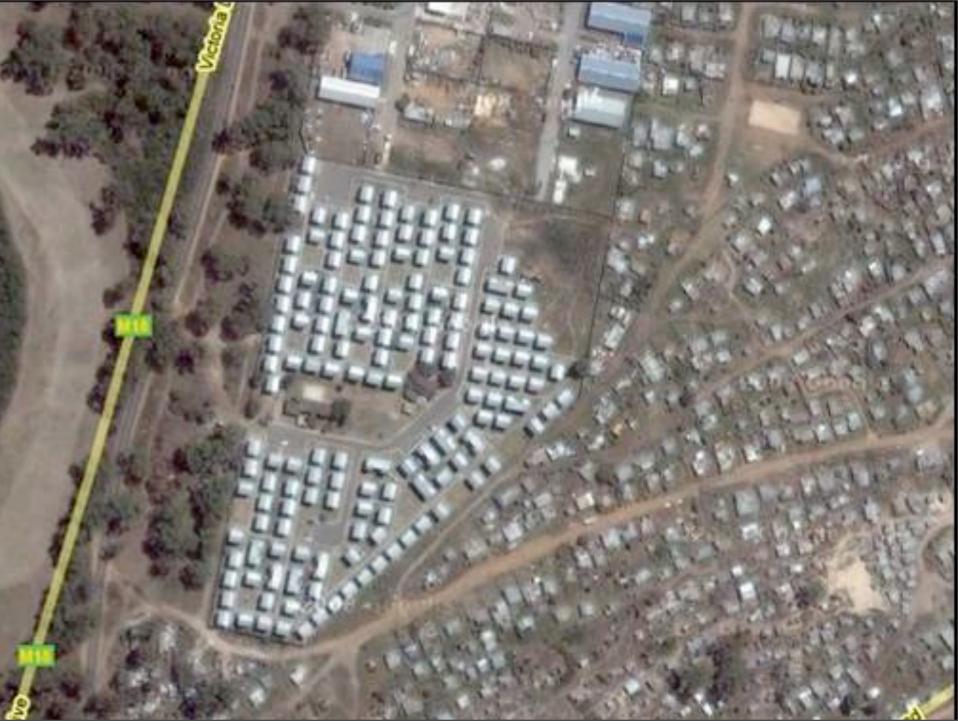
Typical responses to crime and the fear of crime – poor areas







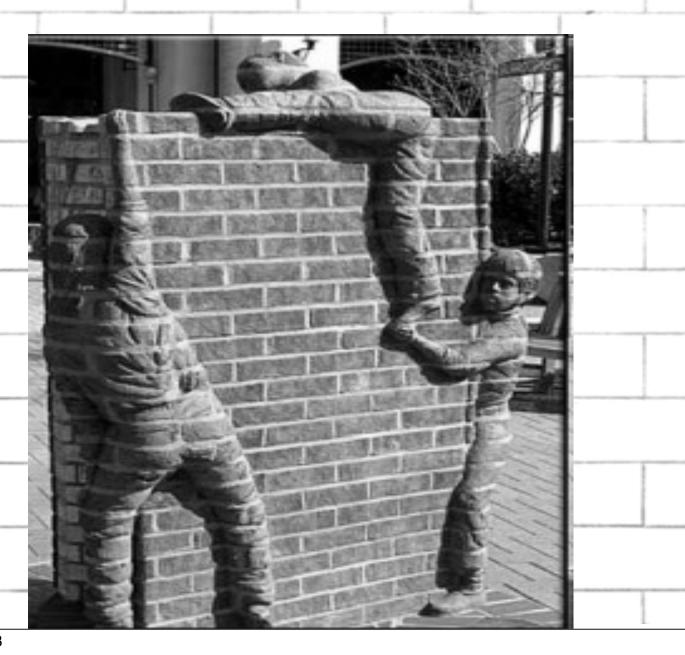




In South Africa, walls are contentious

- Emotive responses for and against
- Need for security vs exclusion
- One of the more visible manifestations of people's fear of crime, esp. in affluent areas
- To many people, including the poor, solid walls have come to represent the "must-have" protection system, a barrier without which they feel vulnerable and exposed to crime

PROJECT – REMOVING A SECURITY WALL



Removing the perimeter wall at the Goethe-Insitut, Johannesburg



Project description

- A German cultural organization based in an affluent part of Johannesburg (Parktown)
- Required guidance to replace the perimeter wall with alternative security measures without compromising the safety of employees and members of the public
- Employees / users of the facility needed to be "involved" in the decision to remove the wall
 Removing a wall goes against natural instinct

Project objectives

- To make the Institute more accessible to visitors and strengthen its image as a welcoming, inclusive cultural organization
- To demonstrate the Institute's commitment to the breaking down of cultural barriers and the creation of integrated communities
- To symbolically commemorate the falling of the Berlin wall 20 years ago (1989), as well as 15 years of democracy in South Africa (1994)

Project activities

- Information sharing and public discussions regarding safety & security and walls to inform, share concerns and address fears
 Rudimentary risk assessment, CPTED analysis
- Involve architecture students in generating ideas and proposing alternatives to the wall
- Develop and execute the intervention



Wednesday, 17 July, 13





GERMAN CULTURAL CENTRE

Solid brick wall - between 3m (10ft) and 4m (14ft) high

Wednesday, 17 July, 13

T WAT T

11





Guard house with 24 hour guard





Electric fence...

Razor wire



70 Westwold Way

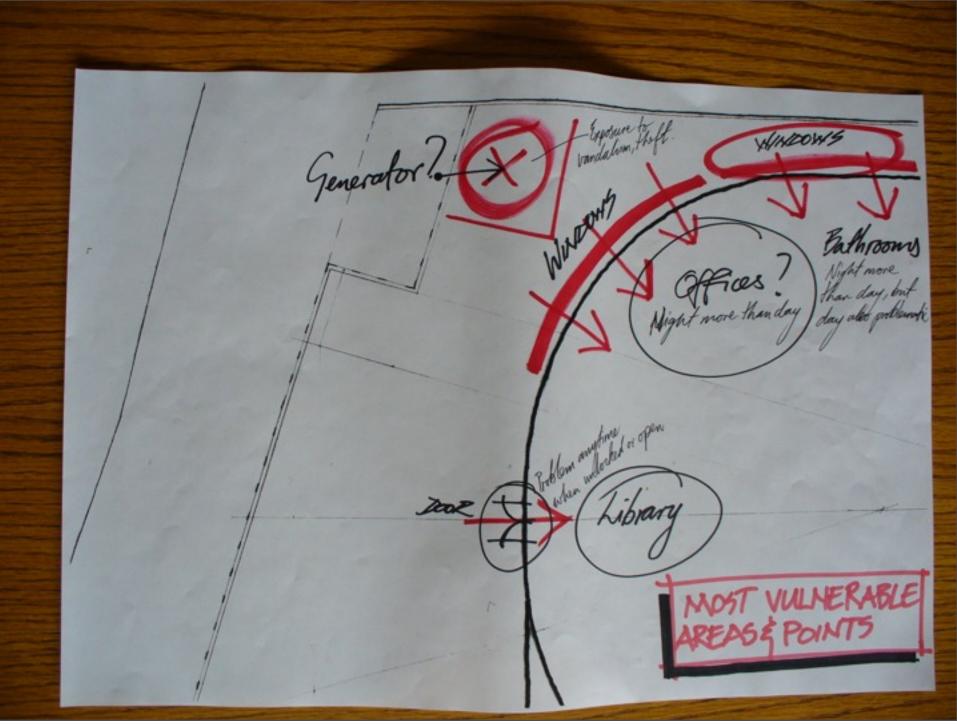
V

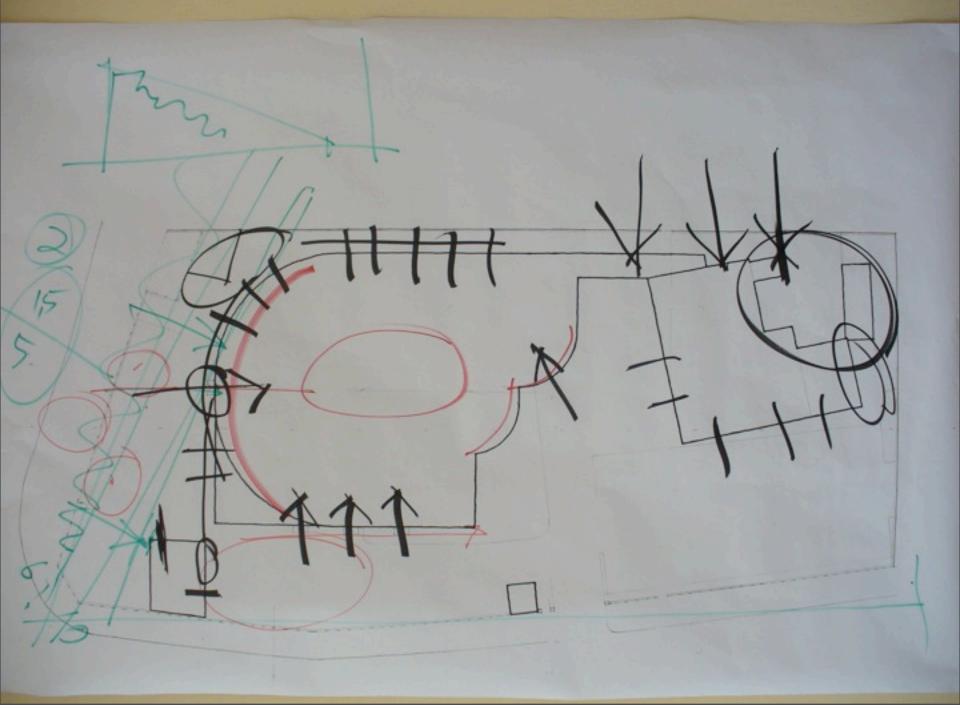
9

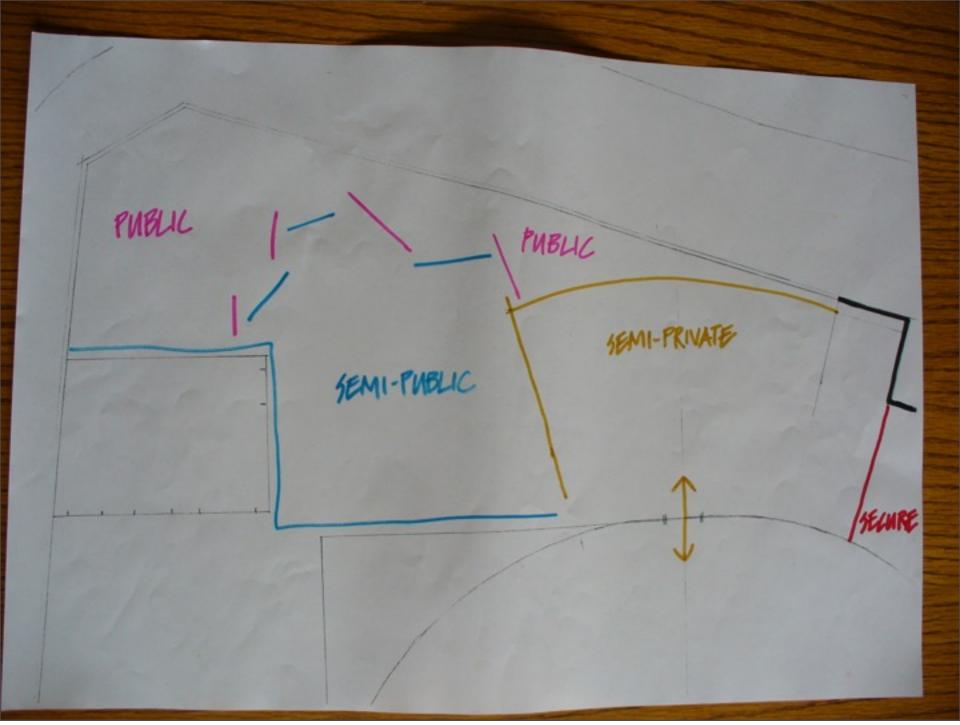
Rudimentary risk assessment

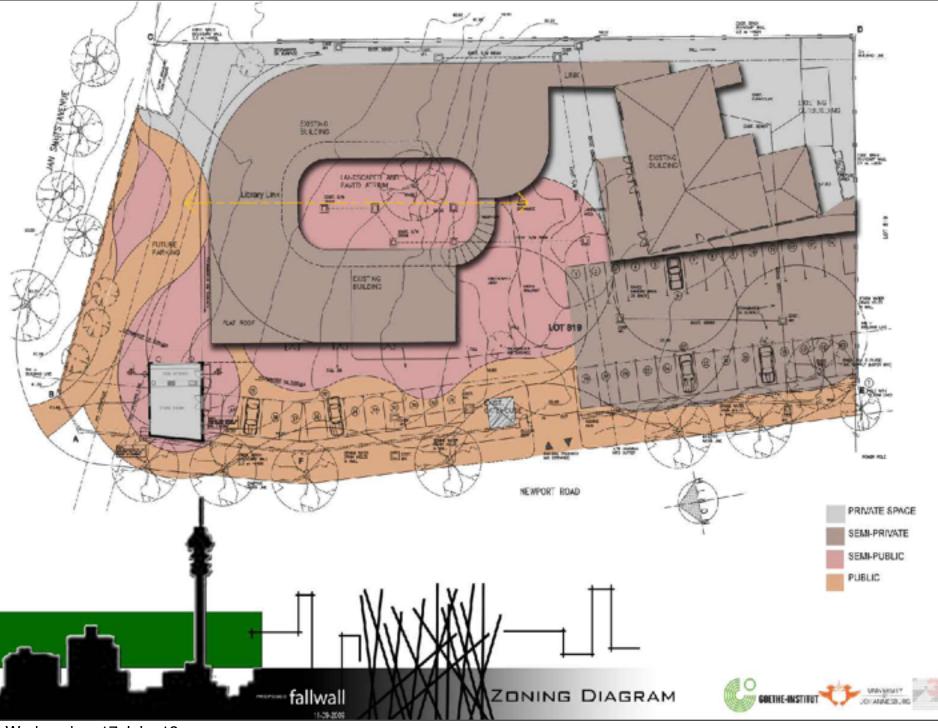
- Assets
- Threats
- Vulnerabilities / levels of opportunity
- Likelihood of location being targeted
- Consequences

Physical assessment









Wednesday, 17 July, 13

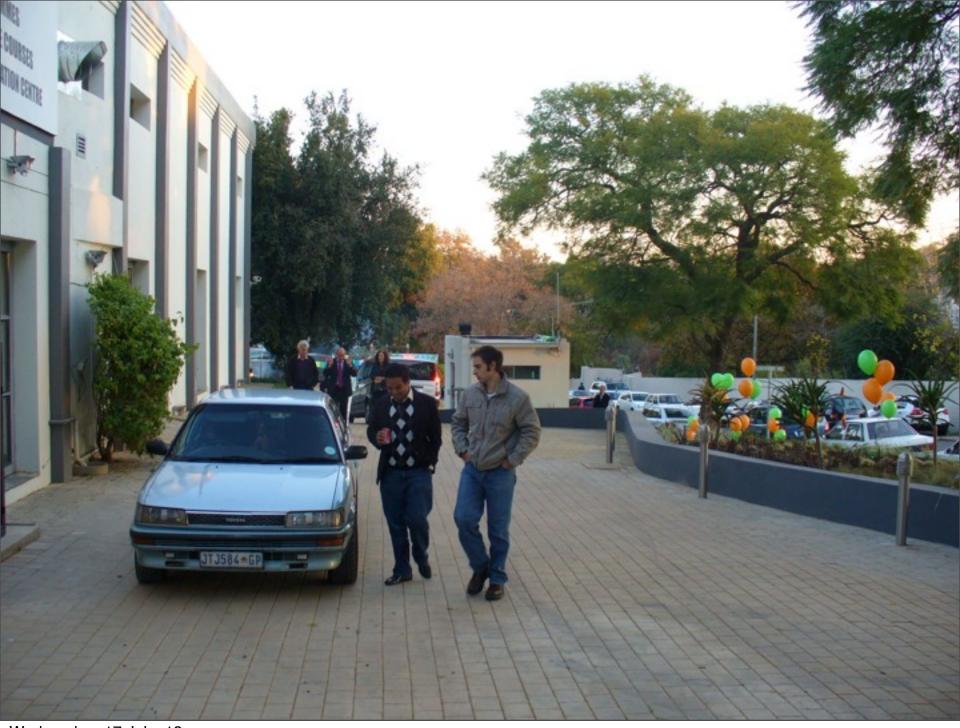


















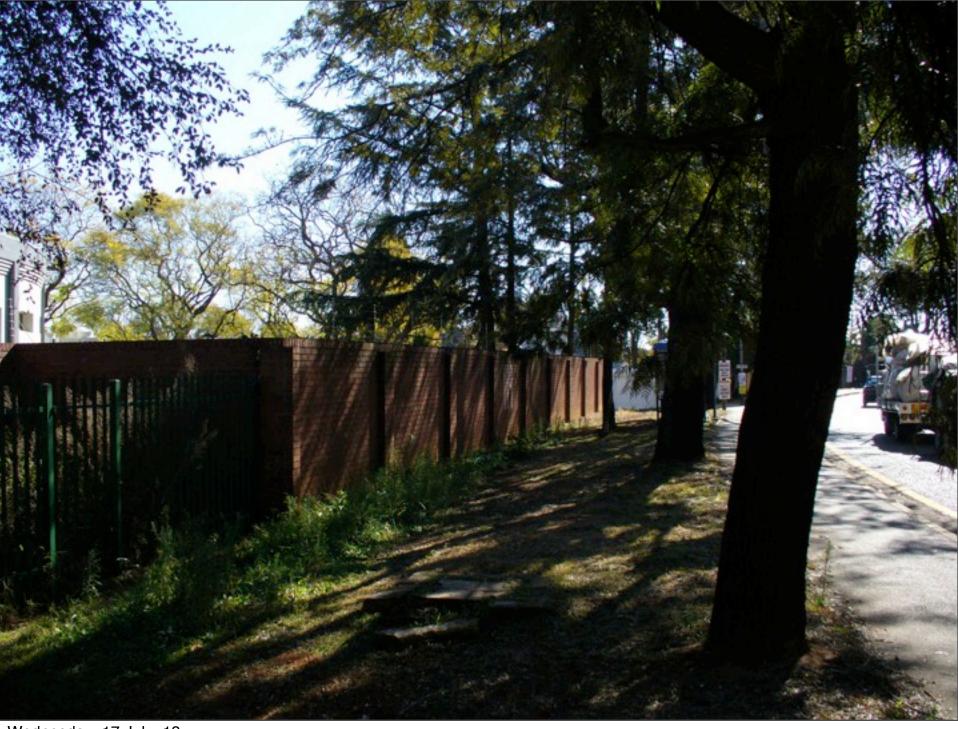










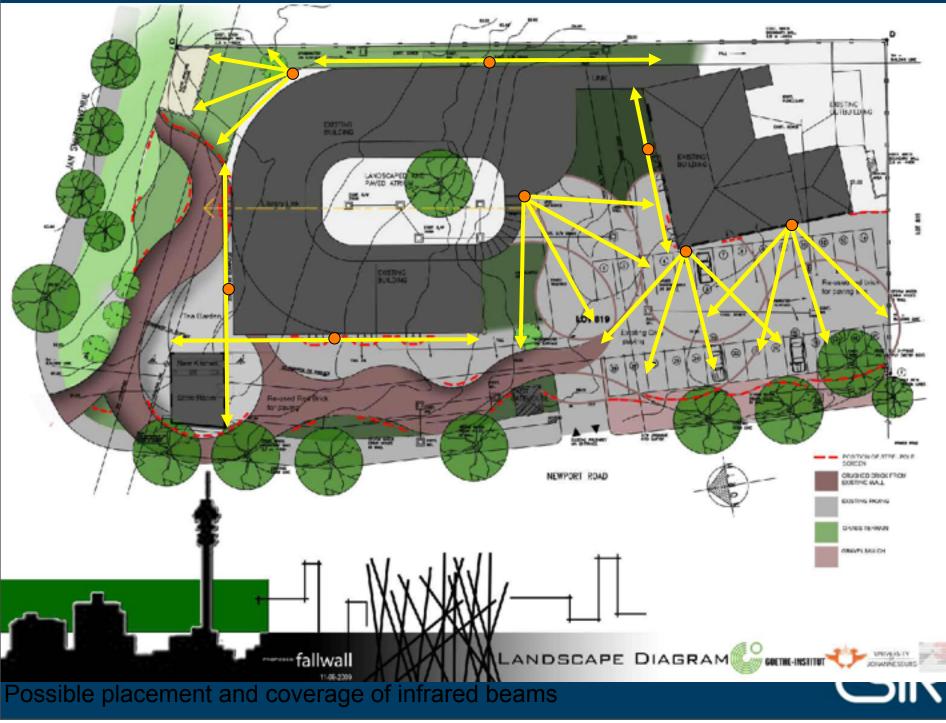




PROJECT – REMOVING A SECURITY WALL

Design and technology interventions

- Employ a multi-pronged approach
 - Passive mechanisms (CPTED)
 - Electronic mechanisms (motion detection alarm system, CCTV, locks)
 - Burglar proofing at windows, security gates at doors
 - Security guard
- Techniques / strategies / tools
 - Defined private and public zones
 - Surface treatment (paving, grass)
 - Landscaping (plants)
 - Lighting





Wednesday, 17 July, 13

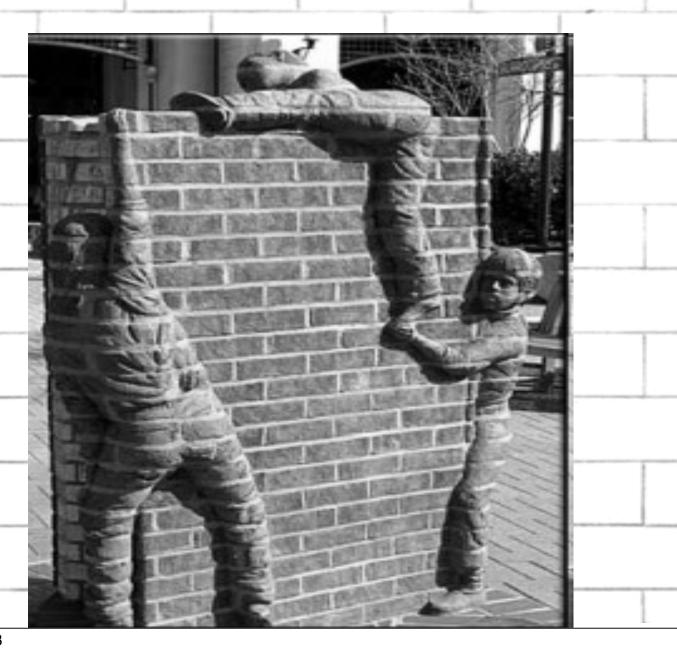






Wednesday, 17 July, 13

CONCLUSION



CONCLUSION

CPTED without boundaries

- Exclusionary CPTED
 - Building barriers
 - Architecture of fear

CONCLUSION

CPTED without boundaries

- Exclusionary CPTED
 - Building barriers
 - Architecture of fear
- Inclusionary CPTED
 - Building bridges
 - Integrating communities



Use more agreeable, less divisive ways of defining territory



Apply CPTED principles to build communities rather than barriers



Tinus Kruger dkruger@csir.co.za

