

Annex 4 – Sustainable urban planning: Four methods of carrying out risk analysis

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Summary of presentation in Tallinn, Estonia, November 2003

Summary

1. Introduction
2. Offence-pictograms
3. TinTin cartoons
4. Kids & Space
5. Visibility calculator
6. Virtual Reality

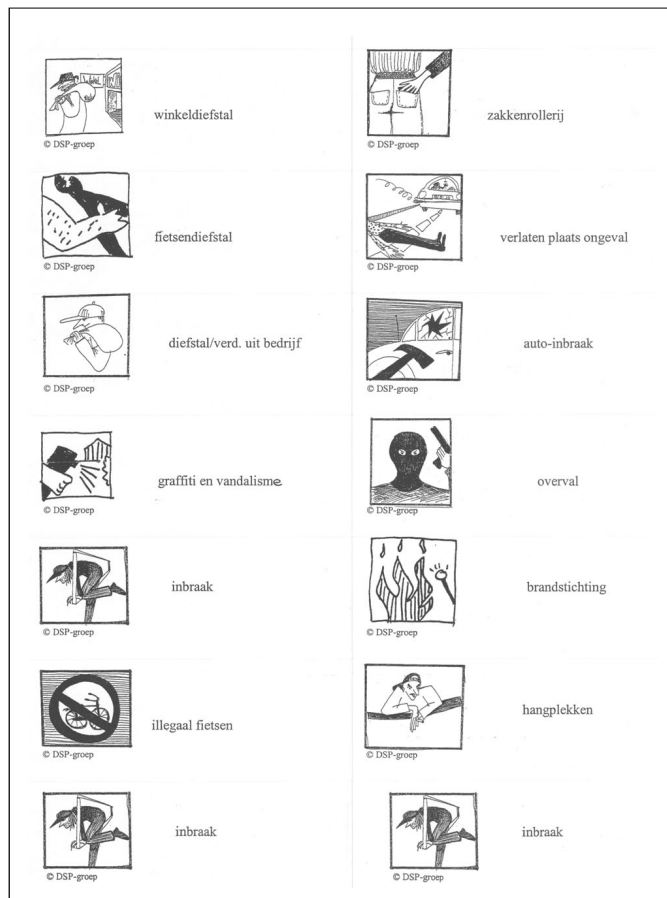
Introduction to Tobias Woldendorp

- Senior CPTED consultant (1956) EDOCA member
- Started as a designer public space (10 years)
- Working at DSP-groep 10 years on safety in the built environment
- From urban project brief, programme of requirements to builders specification

Sidelines

- Teaching at Academy of Architecture, Arnhem & Polytechnic Amsterdam
- Steering committee of Art in Public Space
- Board of Architecture Wijdmeren

Evolution of cartoons

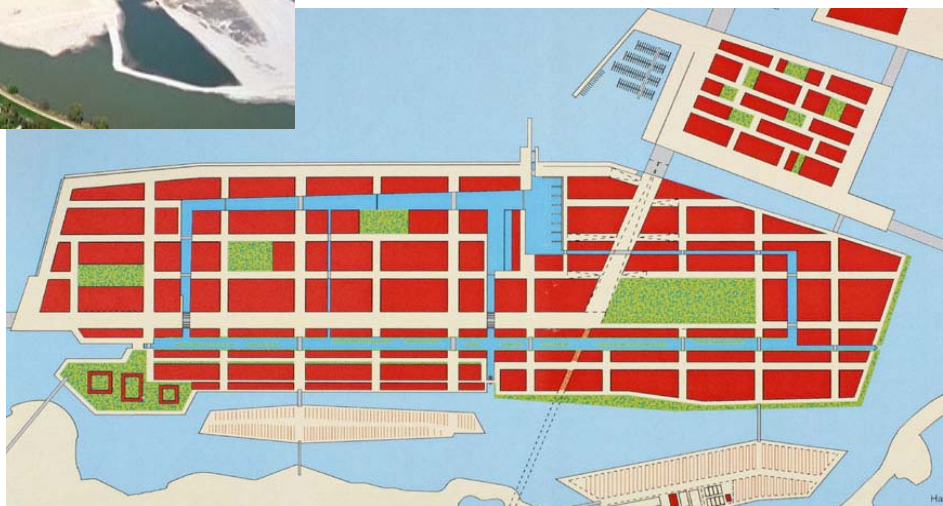


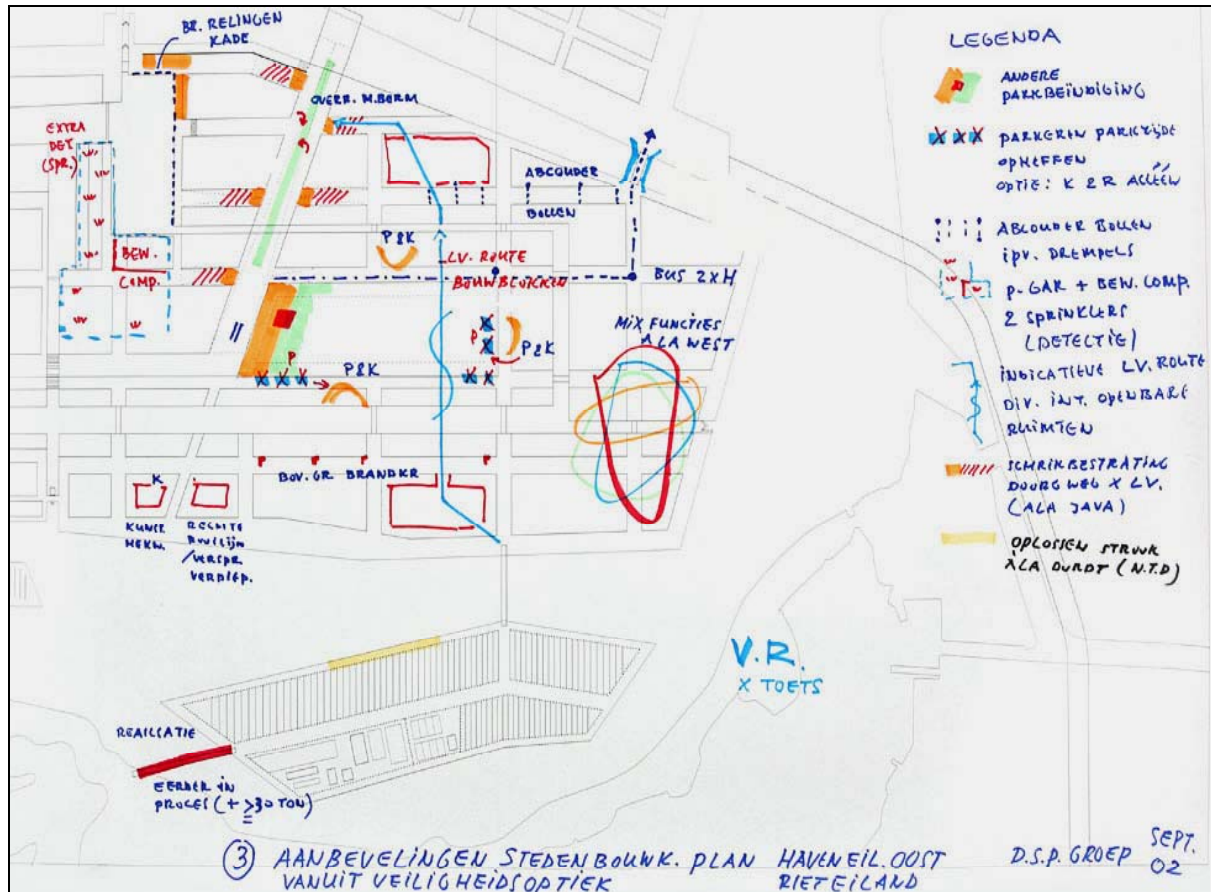
- Whilst working with the cartoons with children the cartoons were modified
- Everyone (internally and externally) working with the cartoons developed their own favourite type

Case study: IJburg, Haveneiland Oost Amsterdam



The tool used here is the Safety Effects Report, which is based on the European Standard for the *Reduction of crime and fear of crime by urban planning and building design*: ENV 14383-2





- On another map we picture the recommendations for the proposed area. For example, a mixture of different housing types, creating a bicycle route through the island to improve public security, and some solutions for the tram stop located between a park and a school.
- The result of this project will be that the client has:
 - More insight to the risks
 - More stakeholders are involved at an early stage
 - More practical recommendations as to how to adjust the designs.

Kids & Space

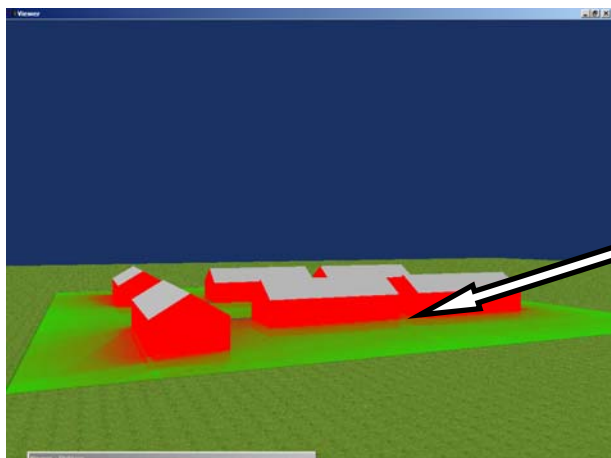
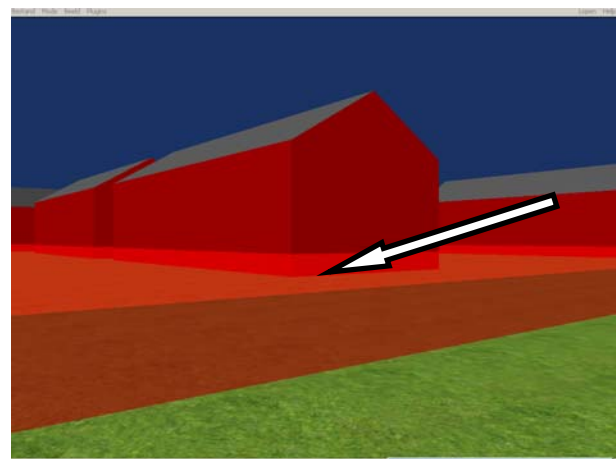
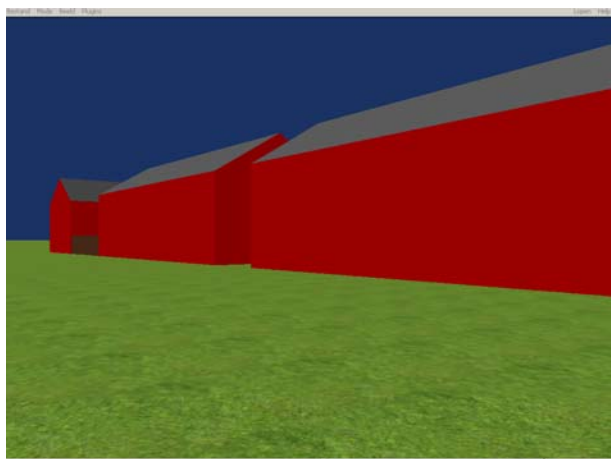
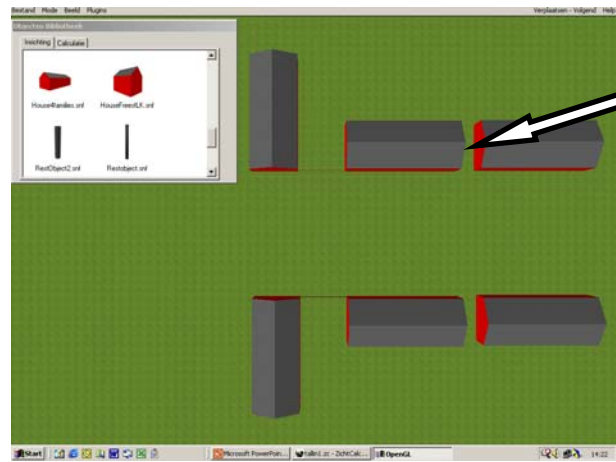
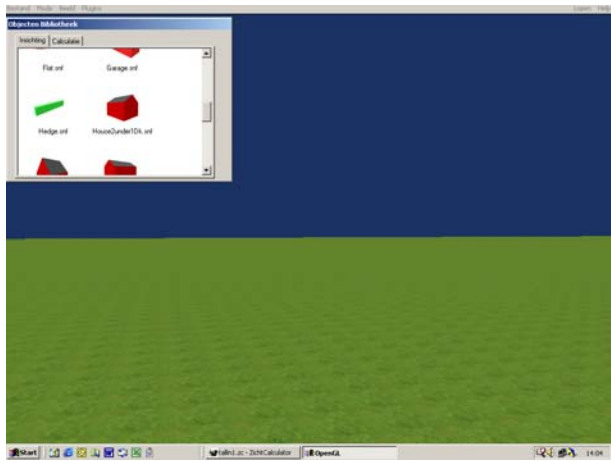


- Making a programme for public space with (problem) kids
- Appealing to their sense of architecture
- Parallel with Urban plan for a new neighbourhood
- Making models and choosing their objects for public space (game)

Visibility calculator

Calculation

- Measuring objects between nodes in the grid
- Eye-height varies
- Shadows arrowed (red) are potential problematic zones



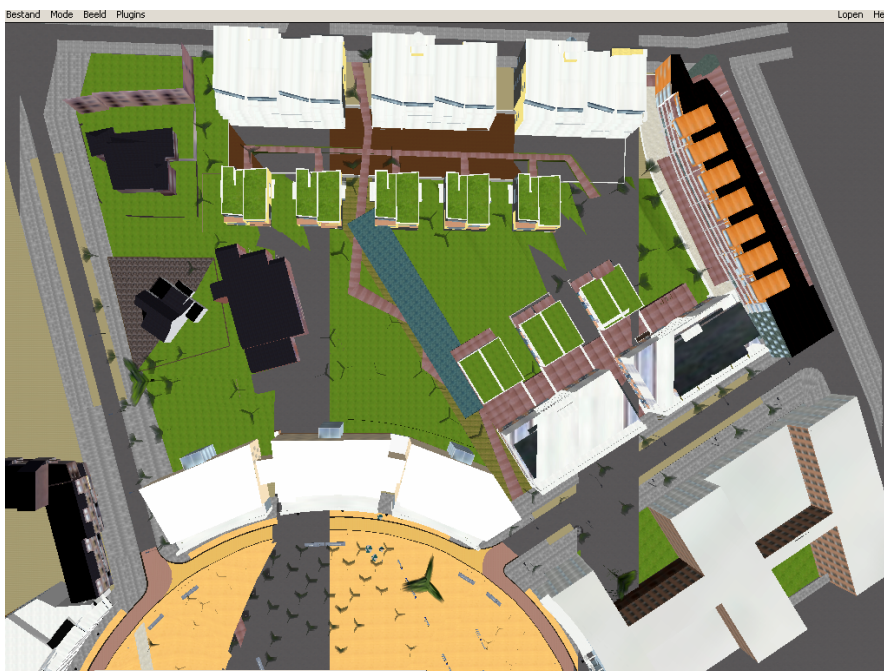
Virtual reality

Almere: City center



Almere: CPTED as part of the process

Apeldoorn: Station Square



Apeldoorn:
communication with the
architect (input) and the
public (output)

- In the city of Apeldoorn CPTED advisers have been consulting architects and landscape architects by sitting with them whilst going through a Virtual Reality programme
- Later in the process the VR film was used in communication with the local communities

