



VivaCity 2020

Housing Morphology in Sheffield

Urban Village: Broomhall-Sheffield

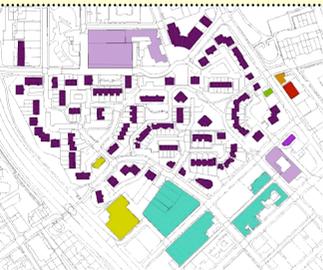
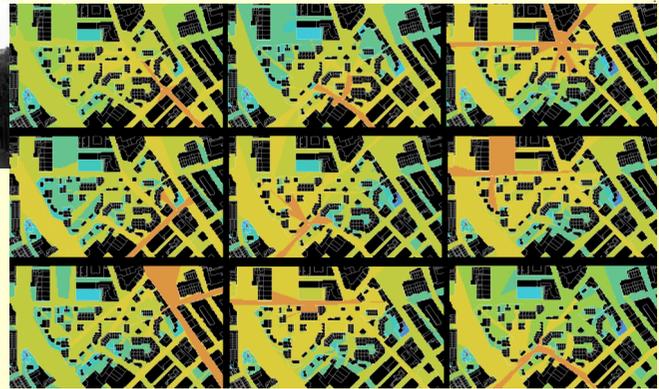
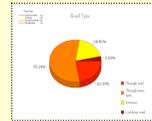
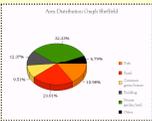
Fieldwork & Analysis carried out by Vasiliki Bakali, Eugenia Isaak, Eleni Psarrou

Background

The urban development in Broomhall Flats contains only residential use. Housing are conceived and designed only as estates in the greater industrial zone. Therefore the commercial and cultural activities are poor. Broomhall is constituted of buildings with different characteristics. More precisely, the buildings are constructed in a floating surface and the placement of them defies the street. In addition, it is observed that the doors float within the urban tissue and the layout of the interior chicaned at the perimeter.

Discussion

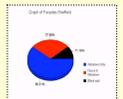
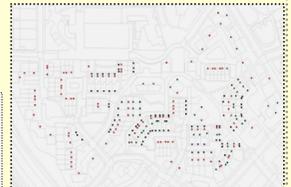
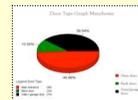
The project examines the relation between Broomhall Flats and the urban tissue and investigates how this is represented on the spatial configuration and social structure of the system. The study focuses on the syntactical analysis of streets and convex spaces within and around the settlement and relates the results of the study with the observation data (maps, pie charts) so as to draw conclusion on the overall structure of the estate.



LANDUSE	
Commercial / Public Offices	(2)
Community Facilities	(1)
Education	(0)
Industry / Manufacture	(8)
Leisure / Entertainment	(1)
Open Public Space	(20)
Residential Premises	(140)
Retail Premises	(1)
Services	(1)

Discussion

The syntactical analysis studies the main Elements of the settlement: Streets, convex spaces and built form. The system appears as an asymmetrical spatial configuration (beady-ring structure) and is deep to the exterior street network. Short axial lines run through the development. Most integrated outward facing convex spaces lie in the perimeter of the estate. Convex spaces are generally non-constituted. The constituted convex areas are located in the most segregated parts of the settlement.

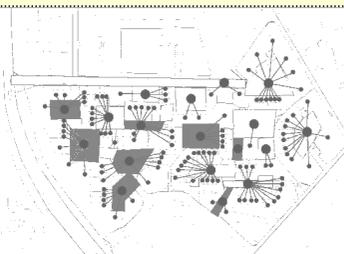


No-neighbours score: 0.39

Separation index: 0.2

Constitutedness rate: 0.3

Neighborliness score: 7



Discussion

The spatial configuration gives evidence of the Social structure within the settlement. Broomhall Flats is designed in a village-like pattern as a Nostalgia towards past structures. The estate defies the urban grid and is withdrawn from the city life. The settlement prevents intruders from entering and moving within it. The level of interaction is low and it is restricted among residents. The design pattern is a replica and does not have the spatial features of a village.

