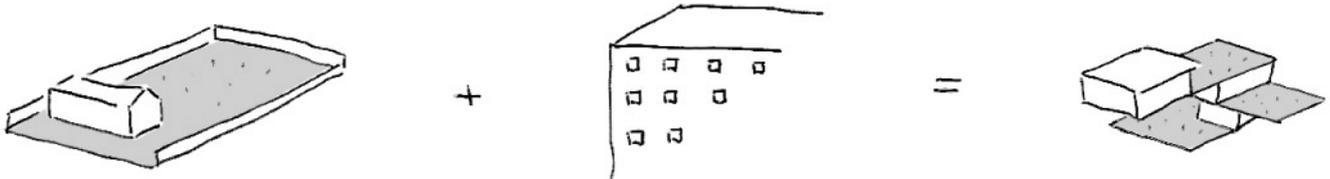


GARDEN FLATS

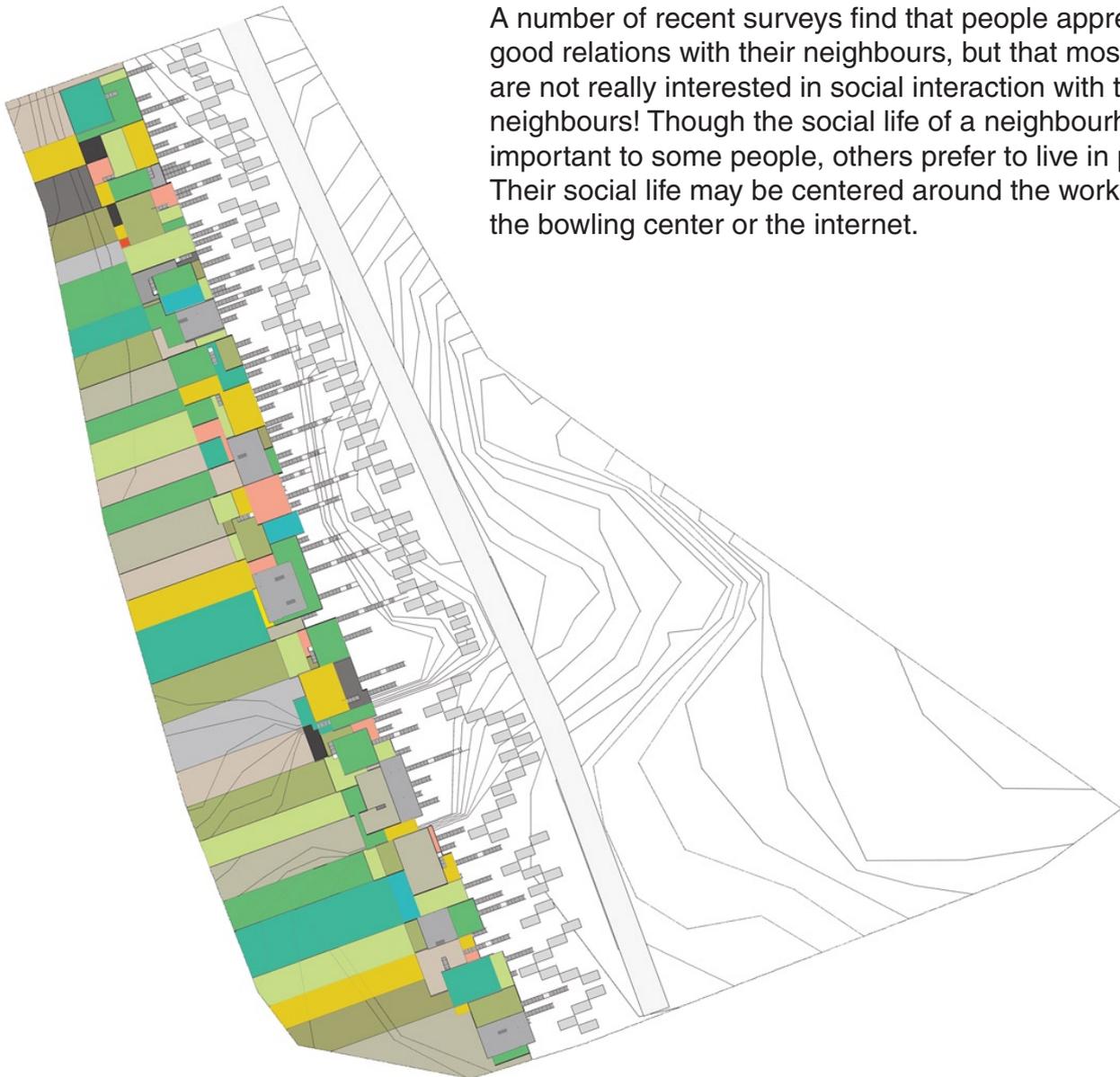
unfinished architecture

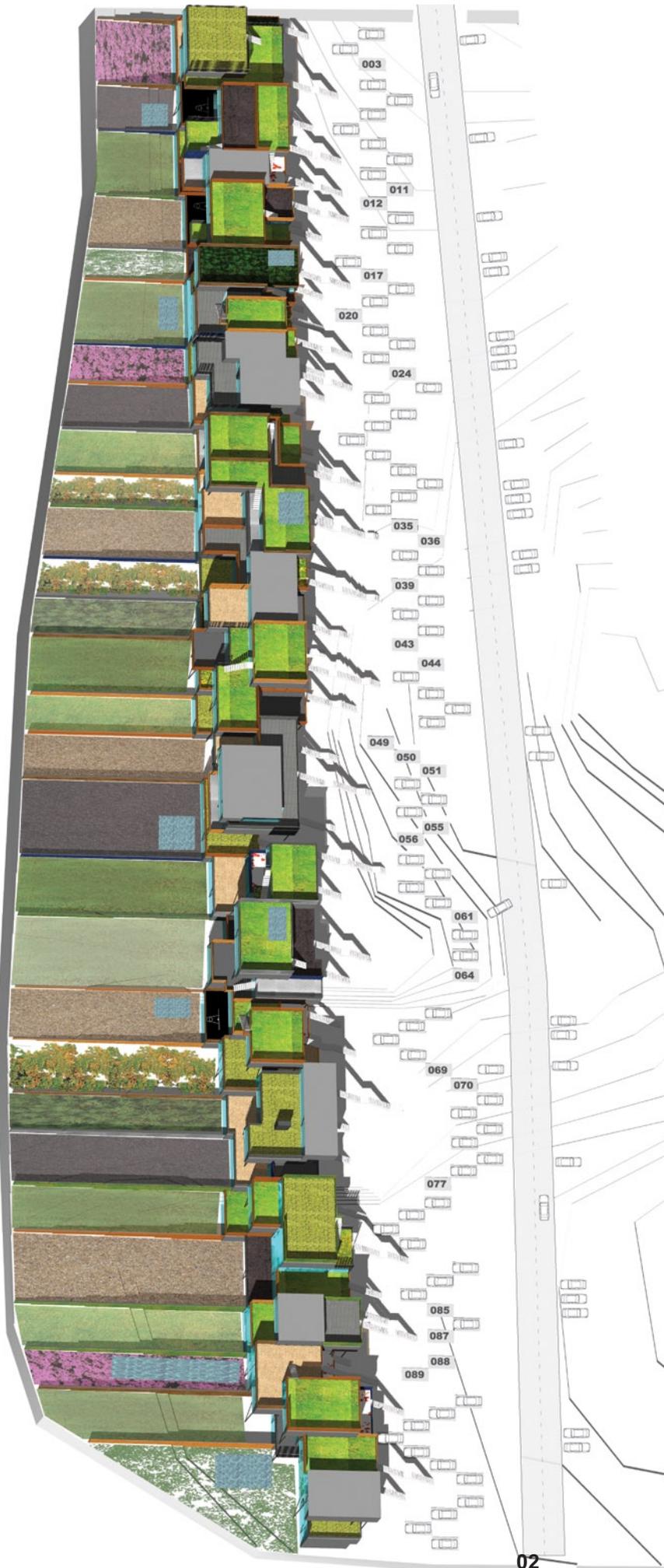
Part of project for the European competition Can Solé, Spain. Uid / Henrik Valeur, Fredrik Fritzson and Søren Christian Madsen in collaboration with consulting engineers Ole Vanggaard and Jeppe Steen Andersen, Copenhagen 2003.

The postwar housing boom in Europe was primarily carried out by two competing typologies, i.e. flats in highrise buildings and detached houses with private gardens. From society's viewpoint the highrise building is a more sustainable typology, because it potentially leaves land to be used for collective recreational facilities, agriculture or as nature reserve. The detached house -on the other hand- provide the privacy and individuality demanded by most of the population.



A number of recent surveys find that people appreciate good relations with their neighbours, but that most people are not really interested in social interaction with their neighbours! Though the social life of a neighbourhood is important to some people, others prefer to live in privacy. Their social life may be centered around the workplace, the bowling center or the internet.





The aim of the garden flat concept is to enhance housing **diversity** and **flexibility**.



The garden flat is a hybrid of the high-rise flat and the detached house, designed to meet the increasing demands for privacy/individuality while at the same time addressing contemporary issues of sustainability.



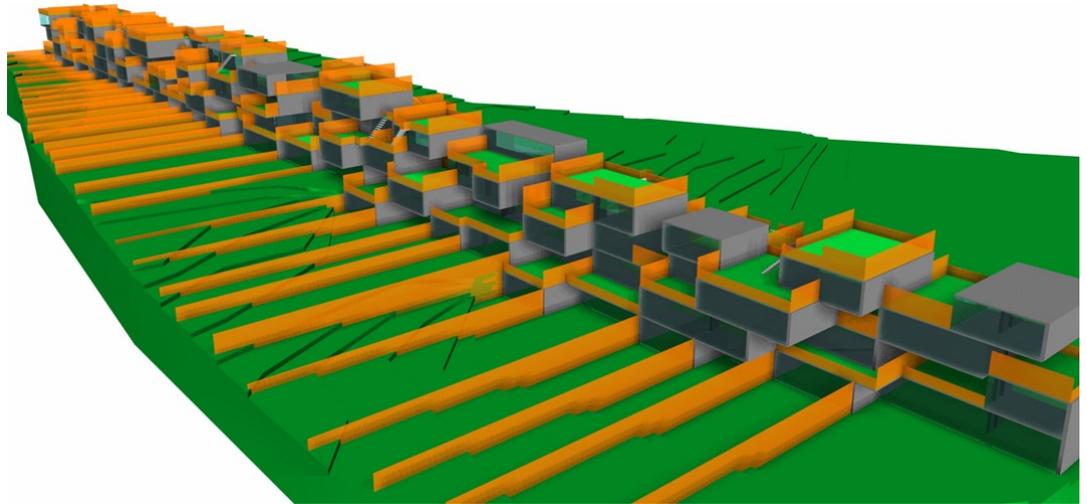
Each flat is individually accessed via private stairs or ground-level entrance, within very short distance of private parking space. On the other side of the access-road are another 100 parking spaces for guests and families with two cars.



The gardens varies in size and can be equipped for individual purposes.

001	Flat	100 sqm	002	Flat	70 sqm
003	Flat	80 sqm	004	Flat	90 sqm
005	Flat	120 sqm	006	Flat	100 sqm
007	Flat	100 sqm	008	Flat	80 sqm
009	Flat	100 sqm	010	Flat	80 sqm
011	Flat	80 sqm	012	Flat	80 sqm
013	Flat	80 sqm	014	Flat	80 sqm
015	Flat	80 sqm	016	Flat	80 sqm
017	Flat	100 sqm	018	Flat	80 sqm
019	Flat	80 sqm	020	Flat	80 sqm
021	Flat	80 sqm	022	Flat	80 sqm
023	Flat	100 sqm	024	Flat	80 sqm
025	Flat	100 sqm	026	Flat	80 sqm
027	Flat	100 sqm	028	Flat	80 sqm
029	Flat	80 sqm	030	Flat	80 sqm
031	Flat	80 sqm	032	Flat	80 sqm
033	Flat	80 sqm	034	Flat	80 sqm
035	Flat	80 sqm	036	Flat	80 sqm
037	Flat	80 sqm	038	Flat	80 sqm
039	Flat	80 sqm	040	Flat	80 sqm
041	Flat	80 sqm	042	Flat	80 sqm
043	Flat	80 sqm	044	Flat	80 sqm
045	Flat	80 sqm	046	Flat	80 sqm
047	Flat	80 sqm	048	Flat	80 sqm
049	Flat	80 sqm	050	Flat	80 sqm
051	Flat	80 sqm	052	Flat	80 sqm
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063	Flat	80 sqm	064	Flat	80 sqm
065	Flat	80 sqm	066	Flat	80 sqm
067	Flat	80 sqm	068	Flat	80 sqm
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083	Flat	80 sqm	084	Flat	80 sqm
085	Flat	80 sqm	086	Flat	80 sqm
087	Flat	80 sqm	088	Flat	80 sqm
089	Flat	80 sqm	090	Flat	80 sqm
091	Flat	80 sqm	092	Flat	80 sqm
093	Flat	80 sqm	094	Flat	80 sqm
095	Flat	80 sqm	096	Flat	80 sqm
097	Flat	80 sqm	098	Flat	80 sqm
099	Flat	80 sqm	100	Flat	80 sqm

The garden flat complex consists of 100 different flats with private gardens and possibilities to work at home. The gross floor area is 7.100 sqm and footprint is 2.142 sqm. The average size of a flat is 71 sqm, with an average 50-50 % size ratio between flat and garden.

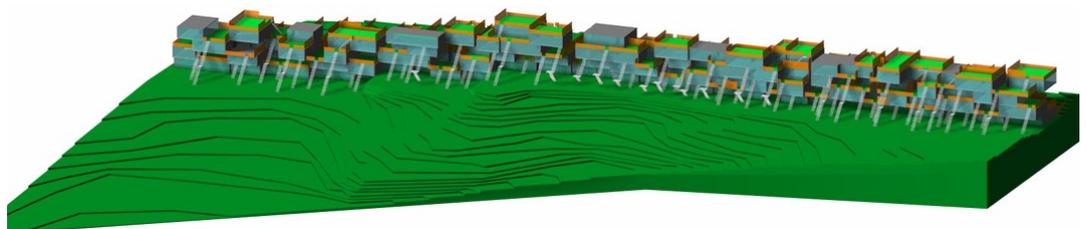
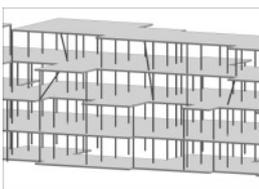


The structural system contains of slabs and bars. The slabs are of concrete, either as a conventional in situ cast flat slab, or as a more industrialised “fillgran” slab. The building is stabilized by bars, which forms a 3 dimensional special system, to stabilize the slabs and to support the slabs, from below, or hanging from above. This gives a great flexibility in the planning stage, by use of inclined columns or ties. The slabs on the different floors can in this way be hanging from bars, without having to rely upon cantilevering beams. The slab can be a simple flat slab supported as needed to distribute the forces in the slab, and the walls can all be non-load bearing, made of simple and cheap materials. The structural system acts as a spatial plate system, but the vertical structure are reduced to a minimum by the steel columns and bars. The connection between the bars and the slab can be established in a cheap and crude way by casting the members directly into the concrete slab. By placing sloping columns the organization of the rooms in the lower floor can be disengaged from the floors above.

Different demands as regards fire barrier and sound insulation, can be met by an ordinary double wall. It is the aim that the chosen construction allows the inhabitants to choose the organization of the flat also in the long run.

This structure has advances compared with conventional structural systems for housing, in that it meet demands as:

- Great flexibility in the organization of each flat
- Easy to built by common known basic construction methods.
- A freedom to choose material for facades and interior independent of the structural system.



Orange Glass	Flowerpots/Concrete	Grass	Brick
Chip-Wood		Tiles	
Textile		Anti-slip-Alu	
Metal Net		Painted Concrete	
Aluminium		Deep Green	
Semitransparent Glass		Sand	Plow
Hard Wood		Asphalt	
Grass		Hard-Court	
Hedge			

To keep basic costs down and leave the final touch to the inhabitants, flats are sold in an unfinished construction state. A catalogue of possible materials and solutions for garden surfaces and screens, and indoor floors, ceilings and walls, enable individual choices in use, looks and price of dwelling.