

How can a design process be supported to secure more socially sustainable solutions in the transformation of Nordic post-war social housing projects?

- What is social sustainability, what characterises socially sustainable solutions and how can the concept be made more tangible?
- How can social sustainability be evaluated and/or quantified and how can this inform a design process?
- How can a design process be organised in order to include the social dimension?

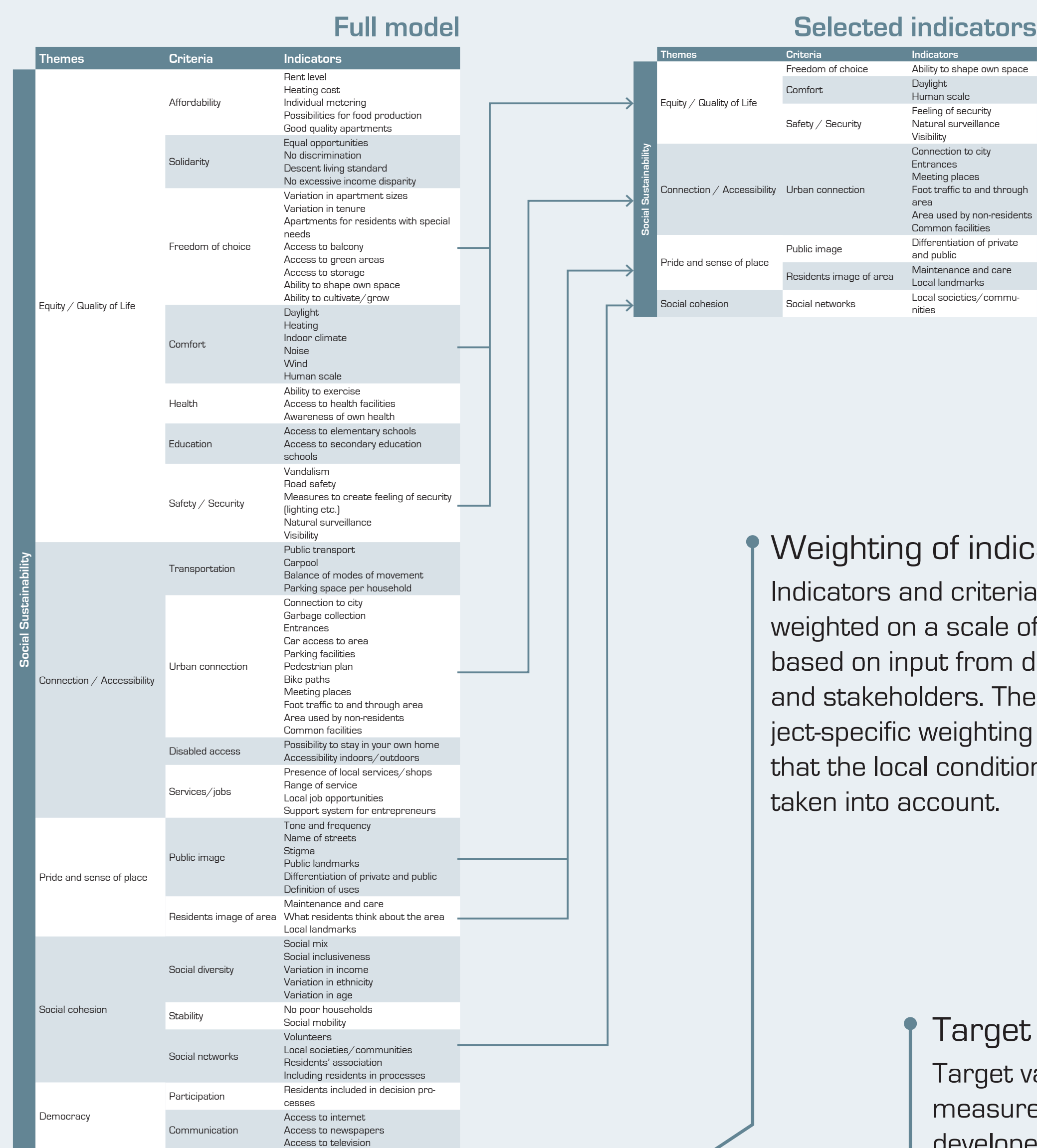
Operation

Selection of indicators

Indicators and criteria are selected based on input from designers and stakeholders. The extensive list of indicators is narrowed down to a more concrete list. The selection can be based on:

- Research
- Site visits
- Stakeholder involvement

Stage 1



Weighting of indicators
Indicators and criteria are weighted on a scale of 4-10 based on input from designers and stakeholders. The project-specific weighting ensures that the local conditions can be taken into account.

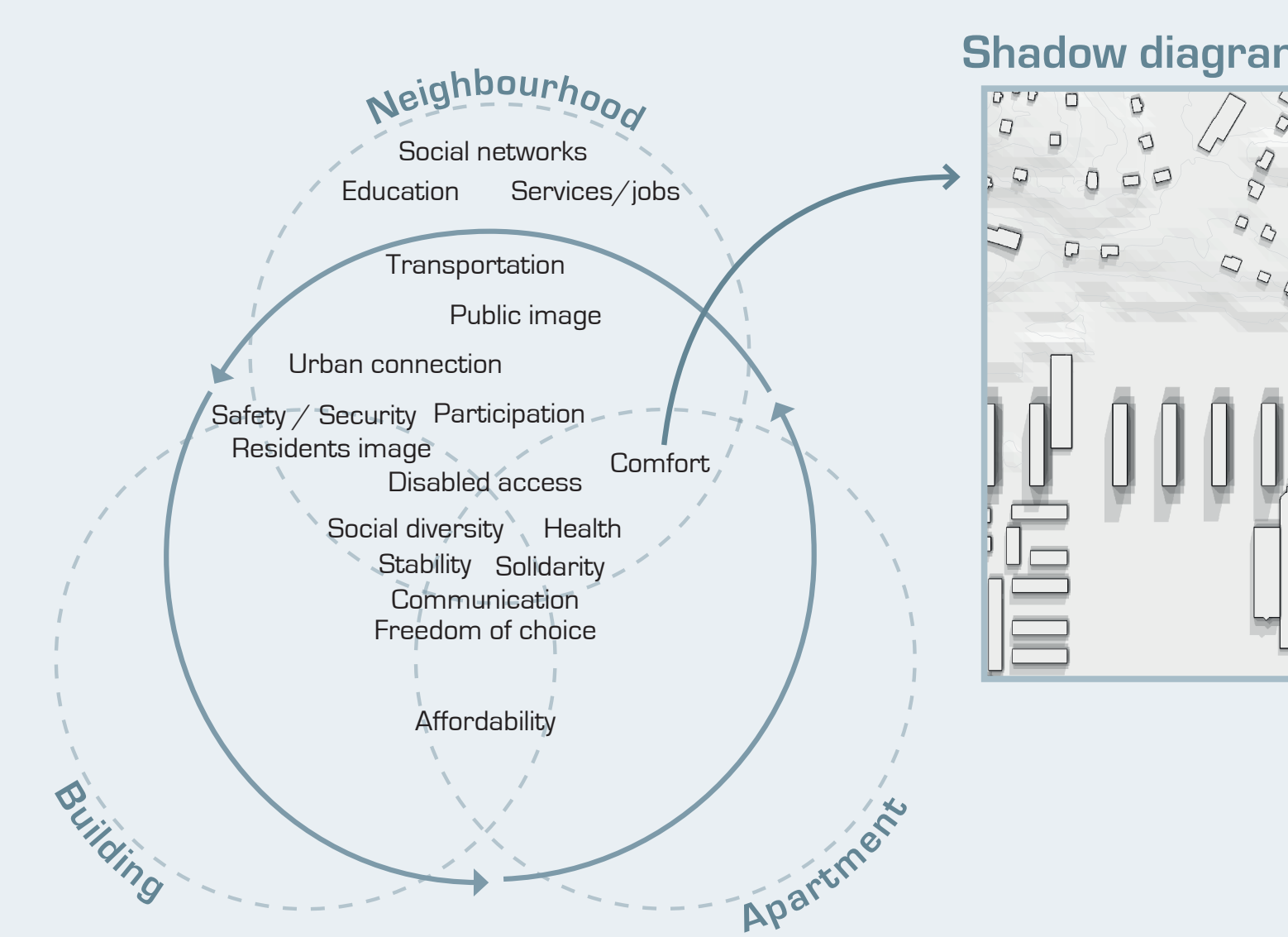
Target values
Target values can be set and measurement scales can be developed for the indicators.

Analysis

Indicators are analysed across different scale levels. In the example below, a shadow diagram informs about the light levels (and this comfort) in the neighbourhood and apartments.

Analysis of indicators can include:

- Analyses of indoor and outdoor comfort
- Daylight analyses
- Connectivity analyses
- Use of GIS
- etc.



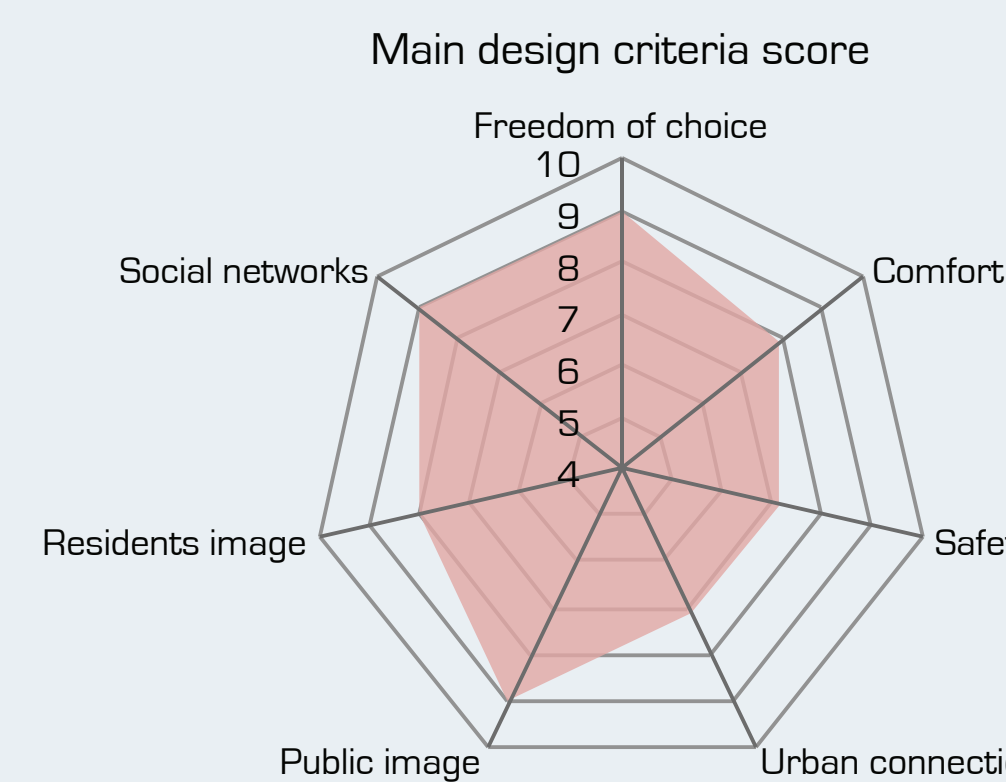
Cross-referencing with scales

Themes	Apartment	Building	Neighbourhood
Equity / Quality of Life	X		X
Connection / Accessibility			
Pride and sense of place			
Social cohesion			
Democracy			

Scoring of indicators

Based on the analyses and measurement scales, indicators are scored on a scale of 4-10 and alternatives are visualised.

Score	Judgement	Daylight factor
10	Excellent	5%
9	Good to excellent	4,3%
8	Good	3,6%
7	Fair to good	3%
6	Fair	2,3%
5	Acceptable to fair	1,6%
4	Marginally acceptable	1%



Assessment

Second community involvement. Presentation of ideas. Input from community.

Assessment

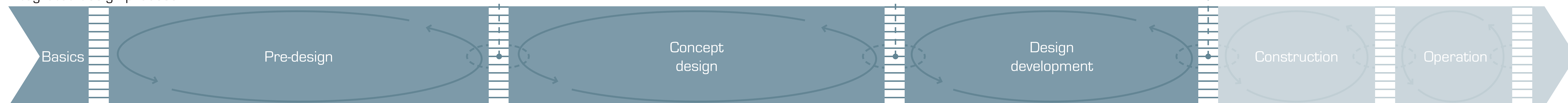
Third community involvement. Presentation of design proposals.

Assessment

Fourth community involvement. Presentation of design proposals.

Community involvement

Integrated design process



Tools

Model of social sustainability indicators

Cross-referencing scale

Multi-criteria decision-making

