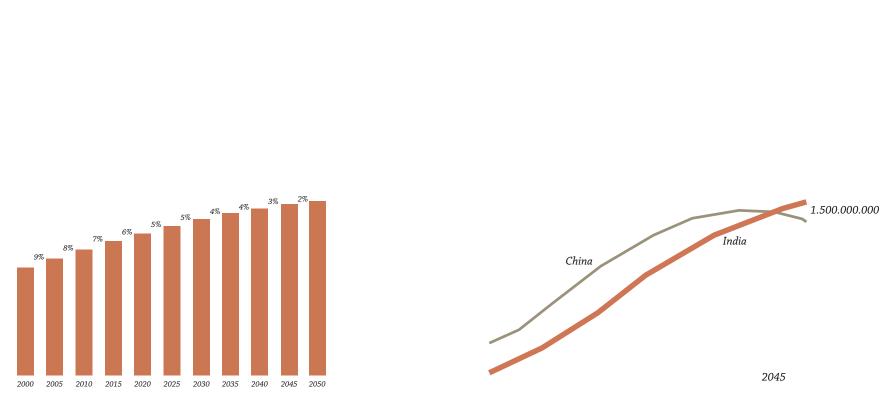
Activating Sri Prastha Rehabilitation | Mumbai's vacant housing stock

Introduction

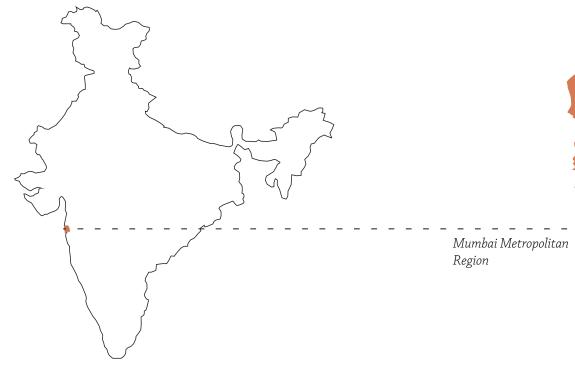
The Global South | India







Mumbai Metropolitan Region

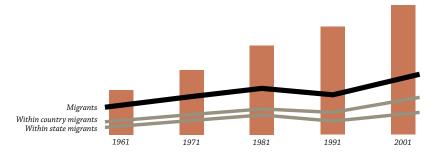




Mumbai Metropolitan Region



Mumbai Metropolitan Region | Migration

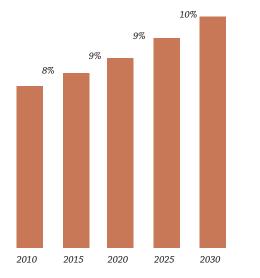


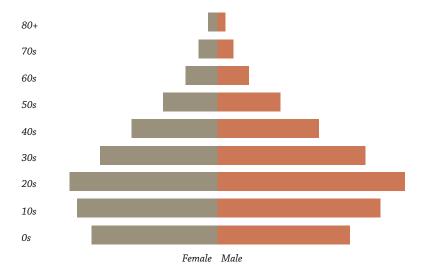
Population Mumbai



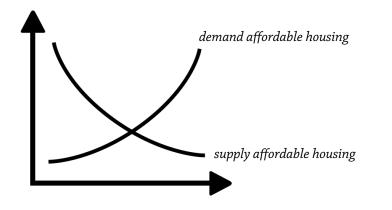


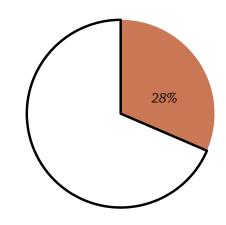
Mumbai Metropolitan Region | Population growth



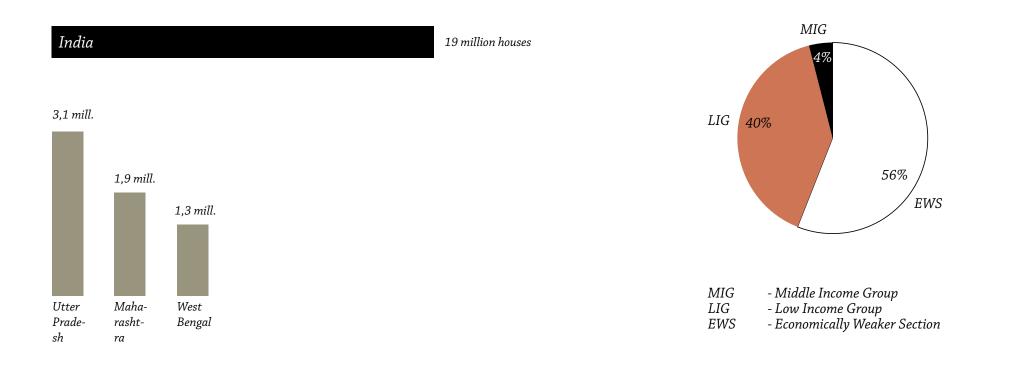


Mumbai Metropolitan Region | Imbalance

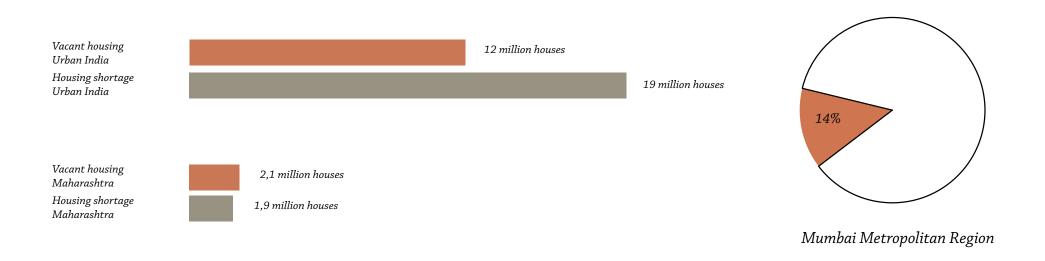


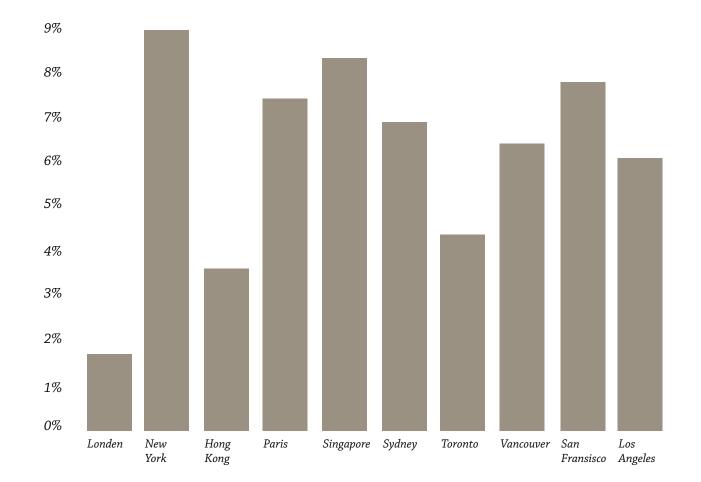


Mumbai Metropolitan Region | Housing shortage



Mumbai Metropolitan Region | Vacant housing





Reasons vacancy



risk of renting out

black money

unrealistic pricing









job possibilities

13

Government housing







infratructure



water and electricity



livelihood





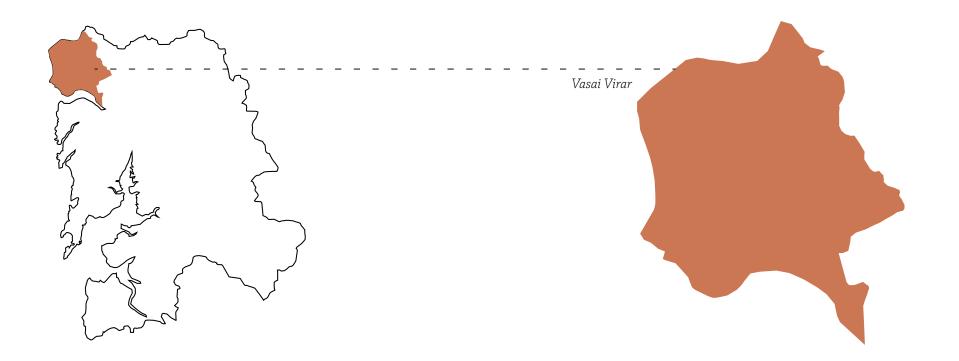
job possibilities



Research

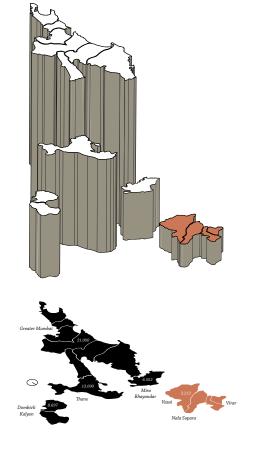
How can the vacant existing housing stock contribute to solve the issue of the shortage of affordable housing in Mumbai, India?





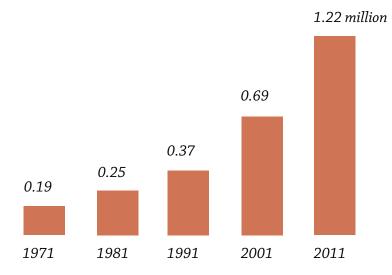
Vasai Virar | Affordability

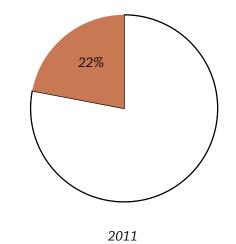




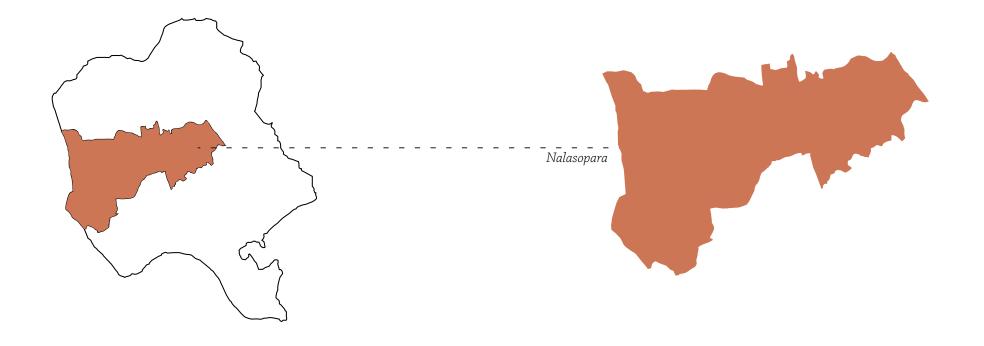


Vasai Virar | Population growth





Nalasopara



Nalasopara



Nalasopara | Growth



Nalasopara | Housing typologies





Nalasopara | Location

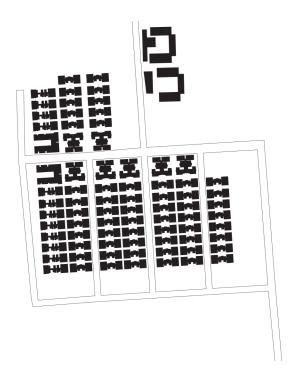


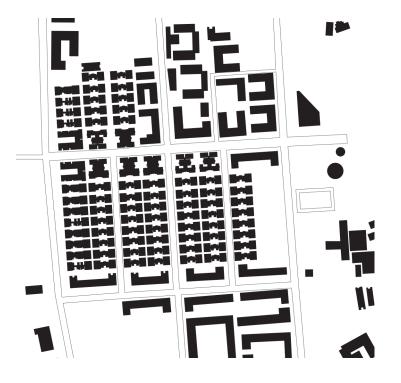


Nalasopara | Location



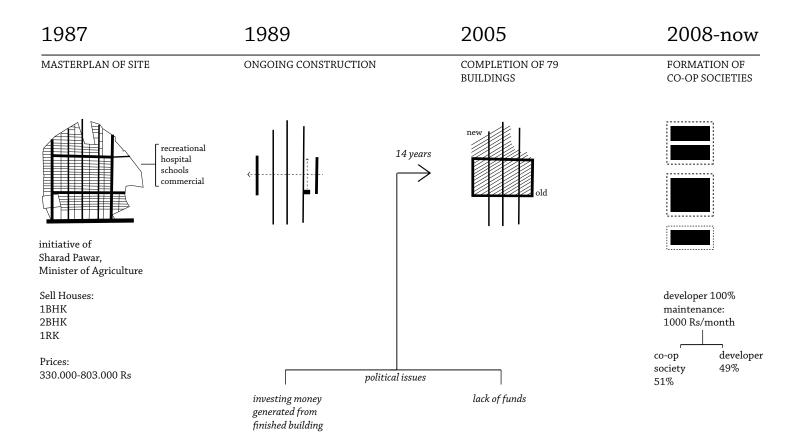
Sri Prastha | Growth







Sri Prastha | Timeline



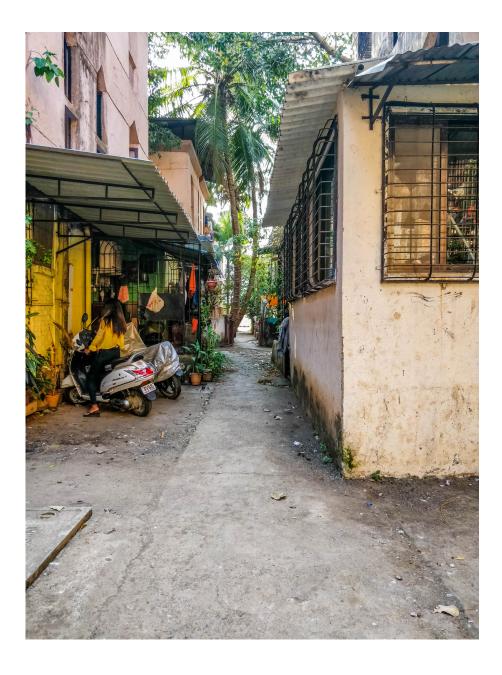
Commercial | Amenities































Sri Prastha | Building types



number of buildings: number of dwellings: dwelling types: levels: residents per building:



58 18 2

3

12 18

3

3

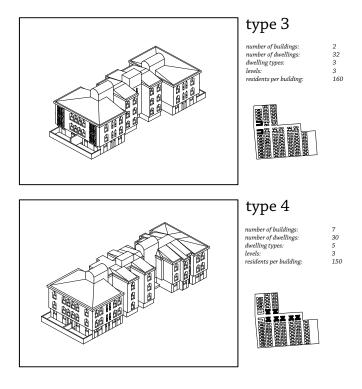
90

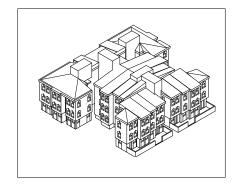
90

type 2

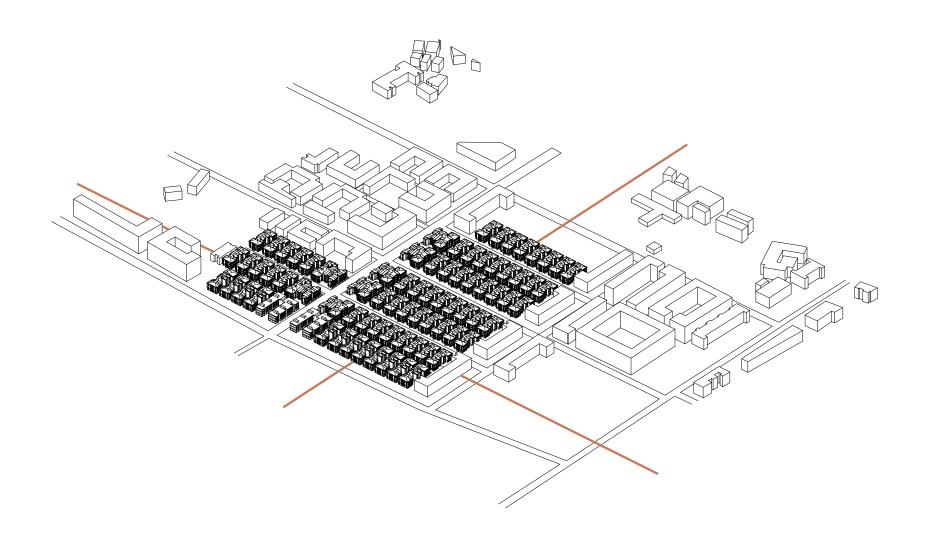
number of buildings: number of dwellings: dwelling types: levels: residents per building:



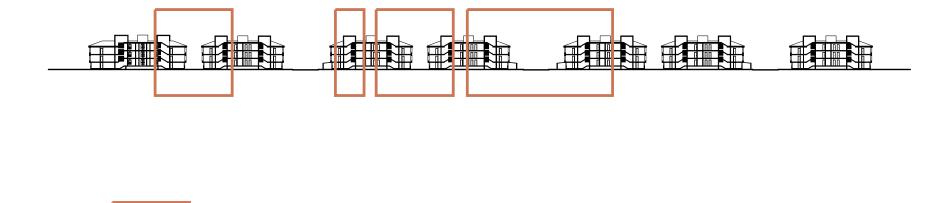




Sri Prastha



Sri Prastha | Sections



Ē Ê Ĥ Ē

entrance building



staircase | entrance building

inbetween two buildings



courtyard | parking | garbage

small street



entrances to dwellings | green | house extensions

inbetween four buildings



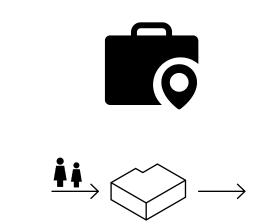
green | connection

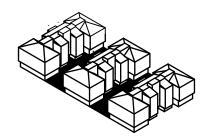


big street

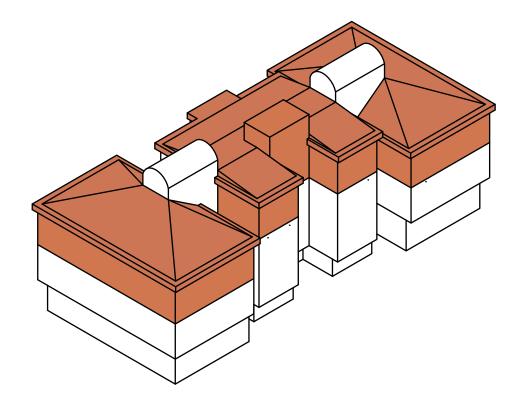
entrances to dwellings | parking | house extensions







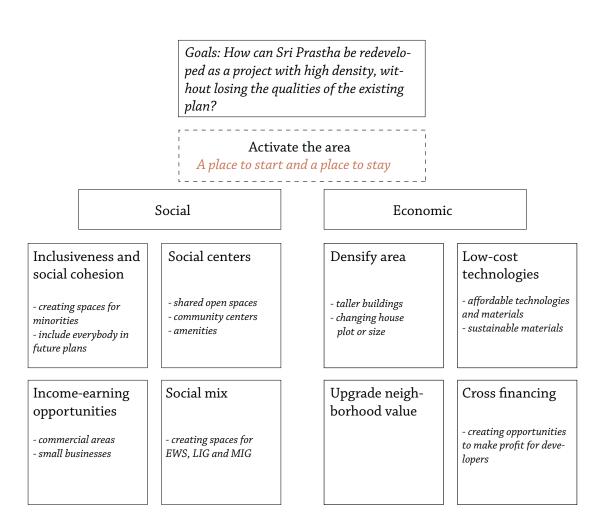




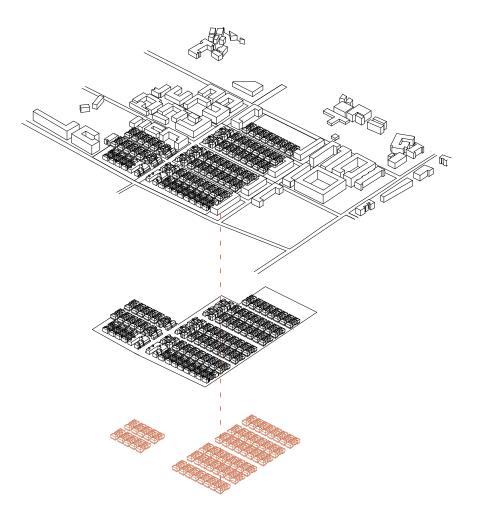
Design question

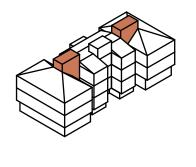
How can Sri Prastha be redeveloped as a project with high density, without losing the qualities of the existing plan?

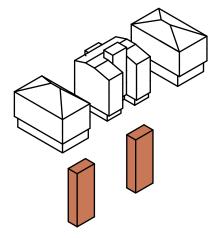
Design question | Goals

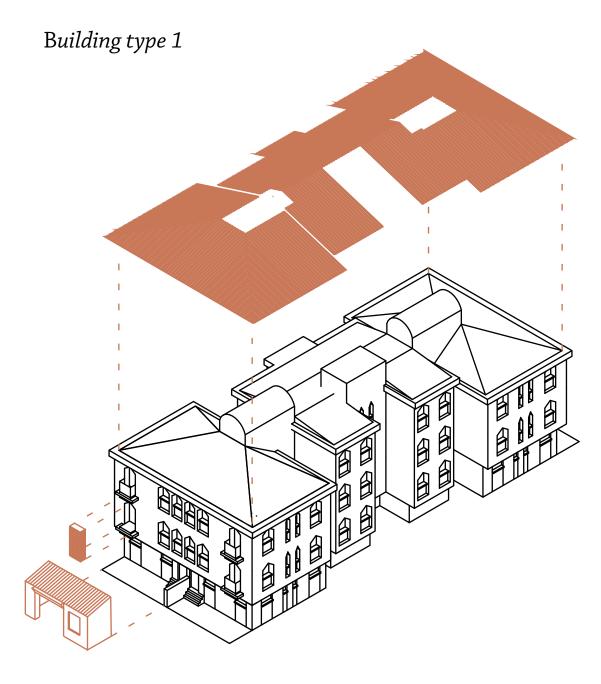


Focus | Building type 1

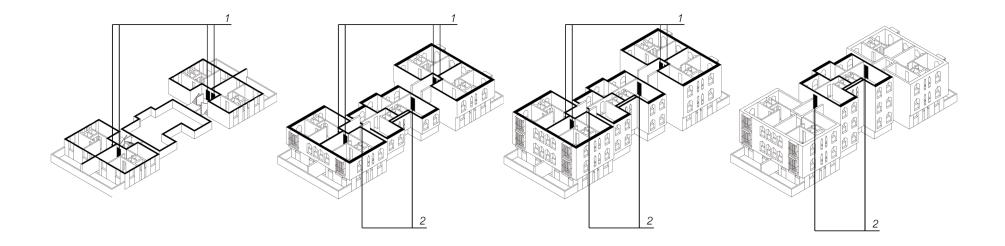








Building type 1



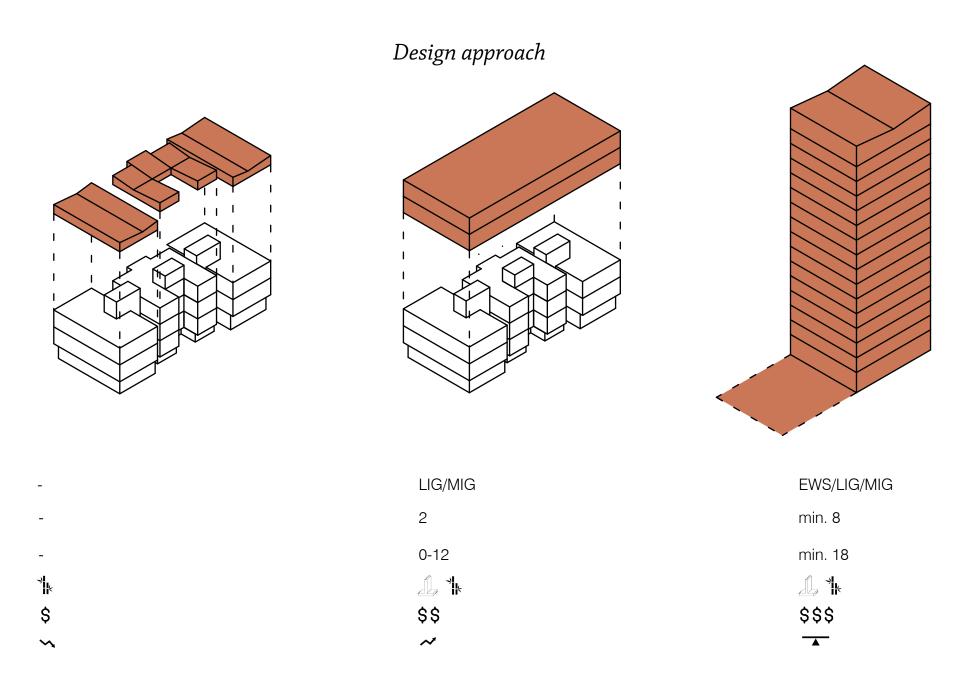
type 1

| app. in building: | 12 |
|---------------------|------------|
| type: | 1BHK |
| size: | 40 m2 |
| | (516 sqft) |
| price: | 567.600 Rs |
| income group: | LIG |
| total app. in area: | 696 |
| | |

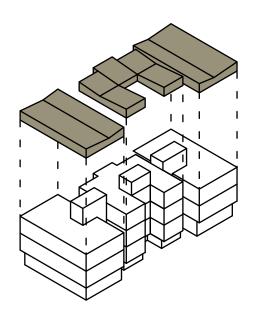
type 2

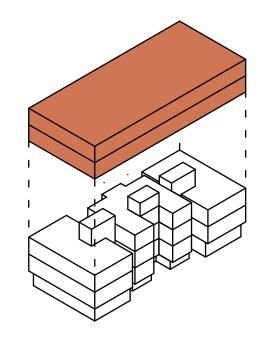
| app. in building: | 6 |
|---------------------|-----------------------|
| type: | 1BHK/1RK |
| size: | 47 m2/36 m2 |
| | (516 sqft/365 sqft) |
| price: | 567.600 Rs/401.500 Rs |
| income group: | LIG |
| total app. in area: | 174/174 |
| | |

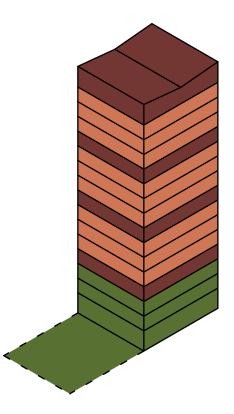
Design approach



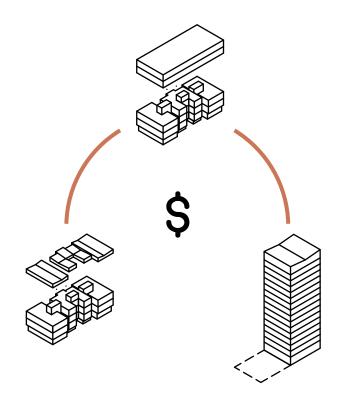
Design approach

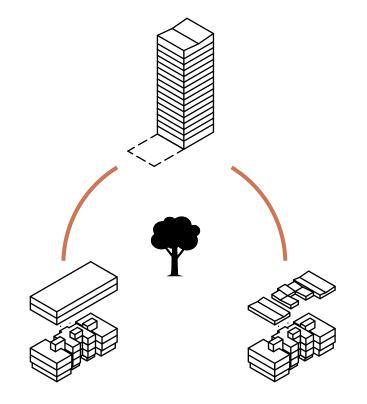




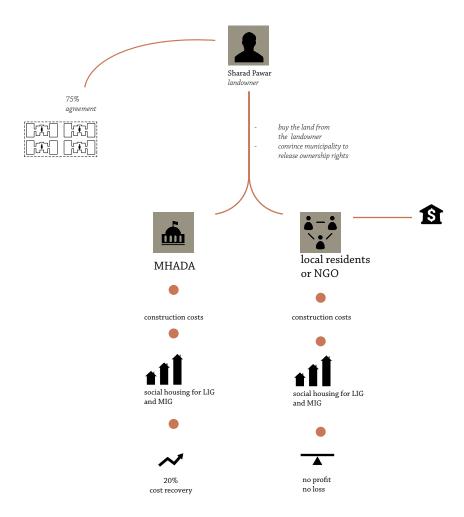


Design approach



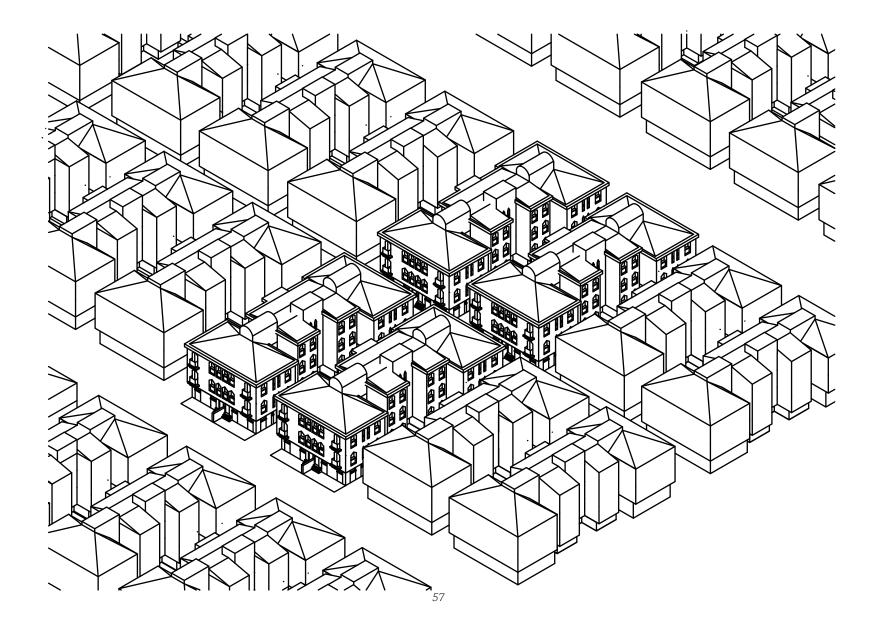


Financial approach

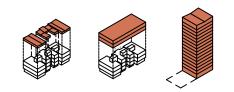


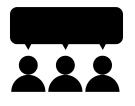
Design

Urban block

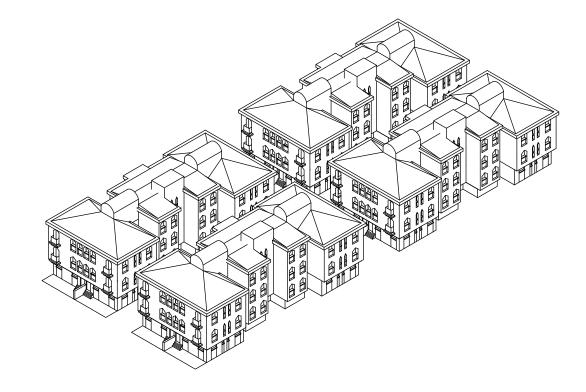


Urban block

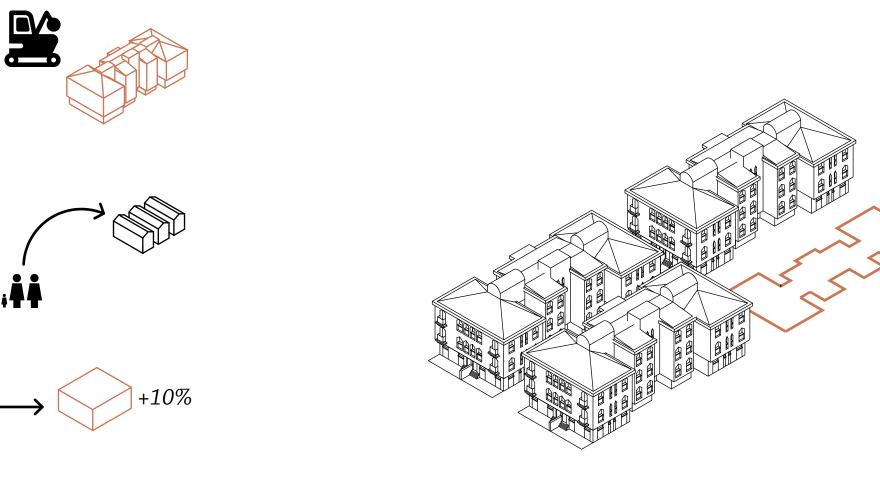


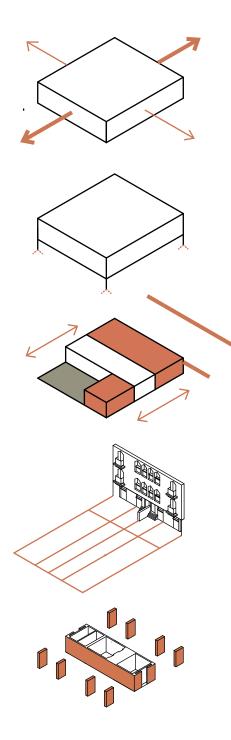




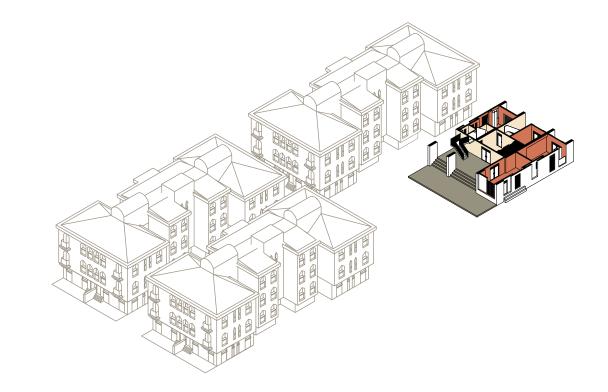


Option 1 | New building

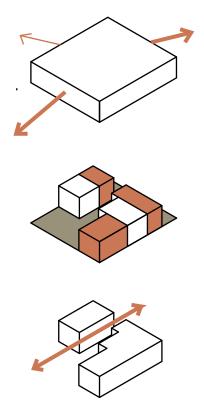


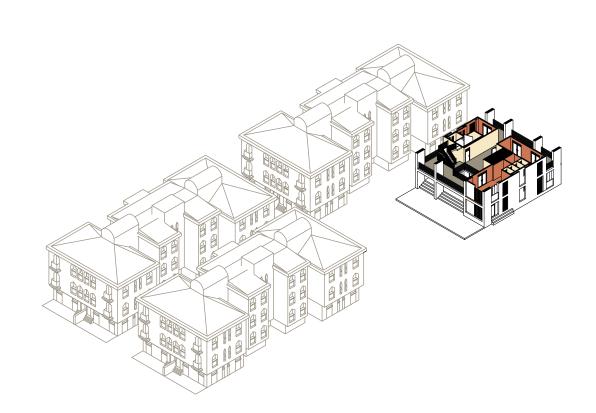


New building | Ground floor | Commercial

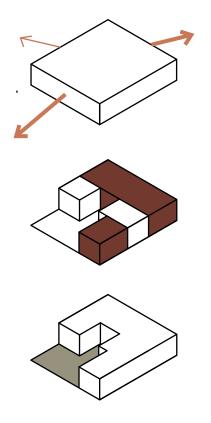


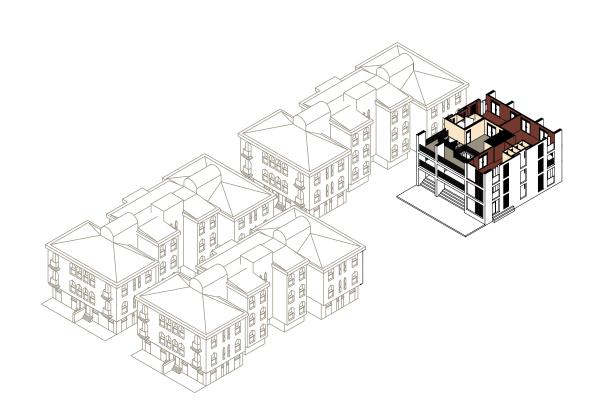
New building | First floor | Commercial



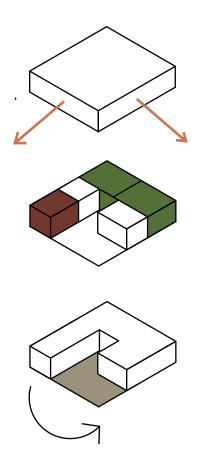


New building | Second floor | Amenities



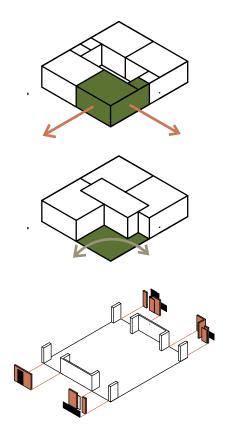


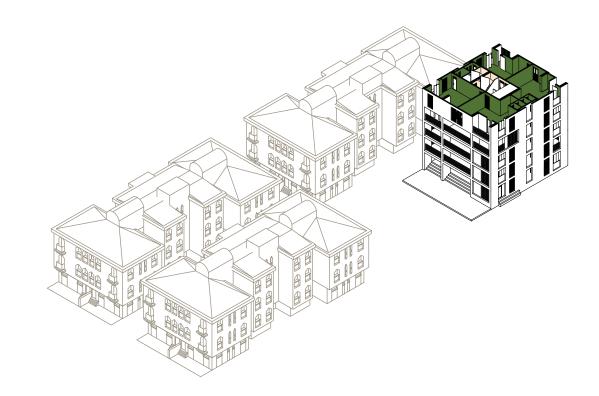
New building | Third floor | Community



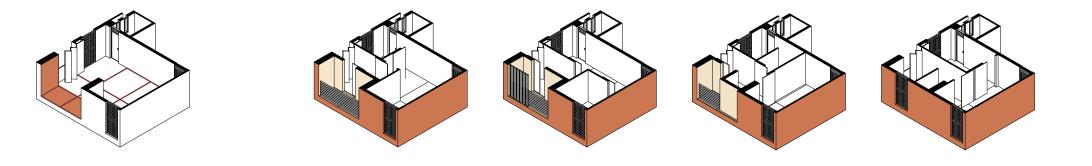


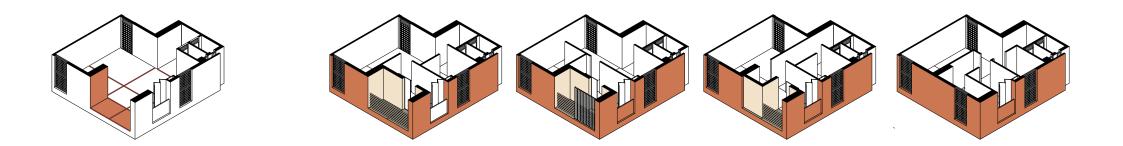
New building | Typical dwelling floor



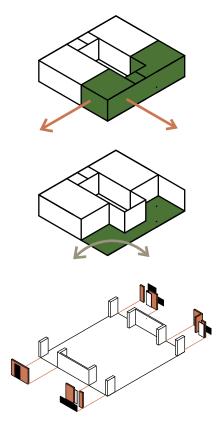


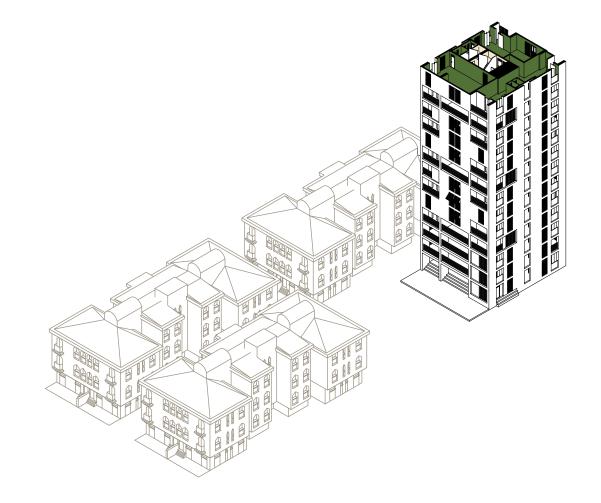
New building | *Dwelling types*





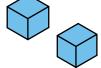
New building | *MIG dwelling floor*





New building | Community roof





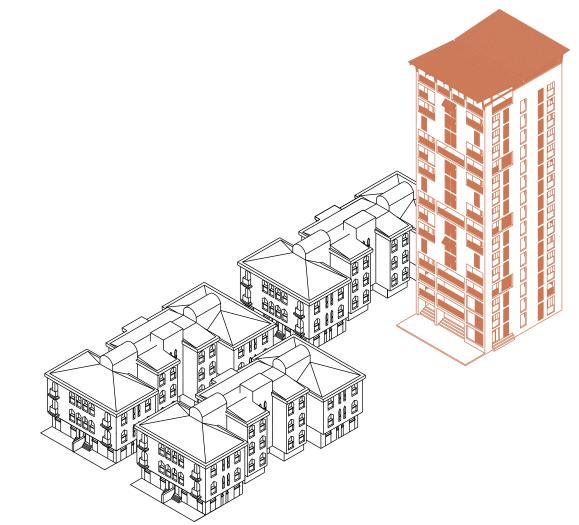






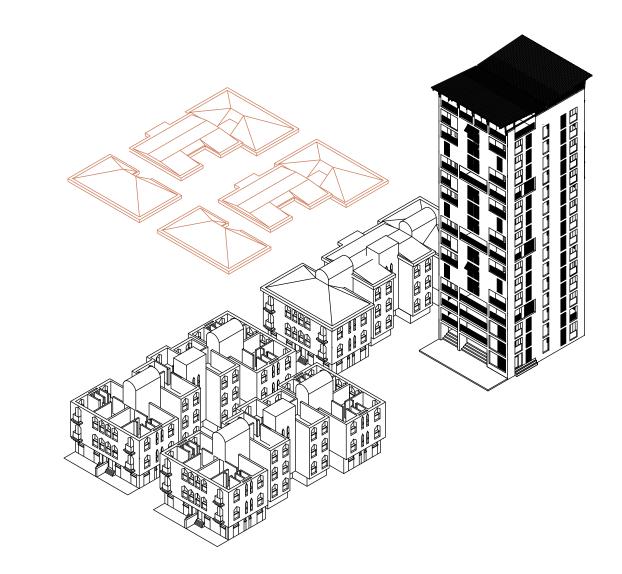


New building

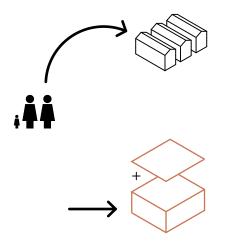


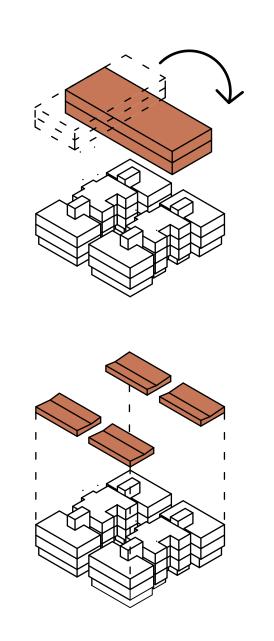


Option 2 | Up-build

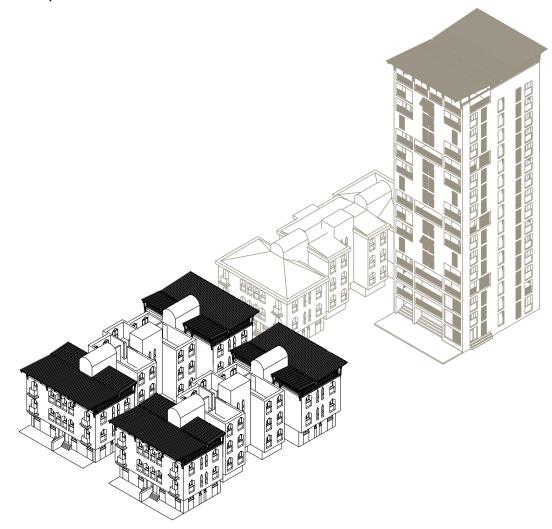


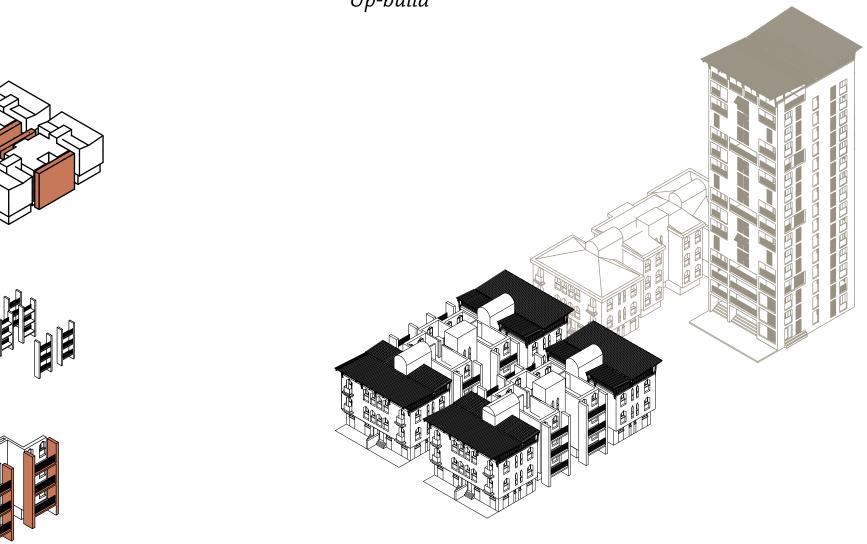




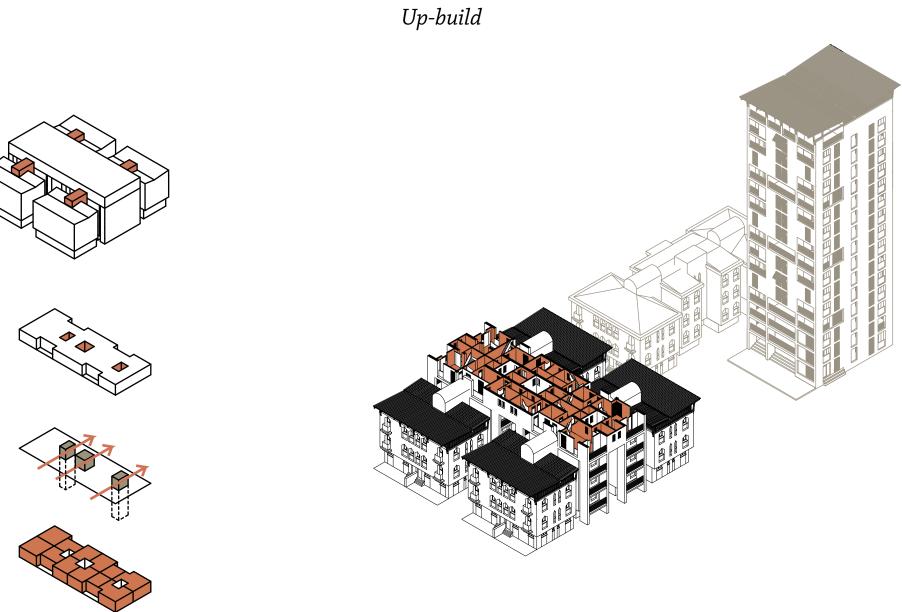


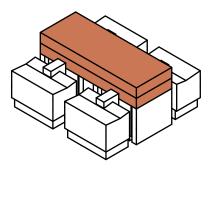
Up-build

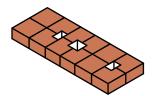




Up-build

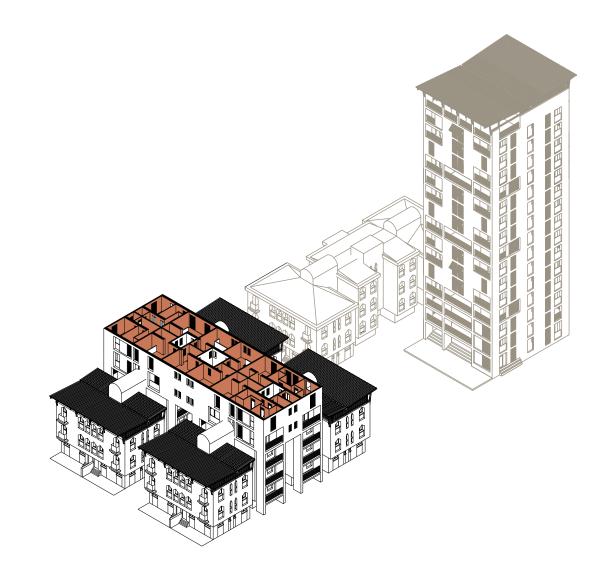








Up-build





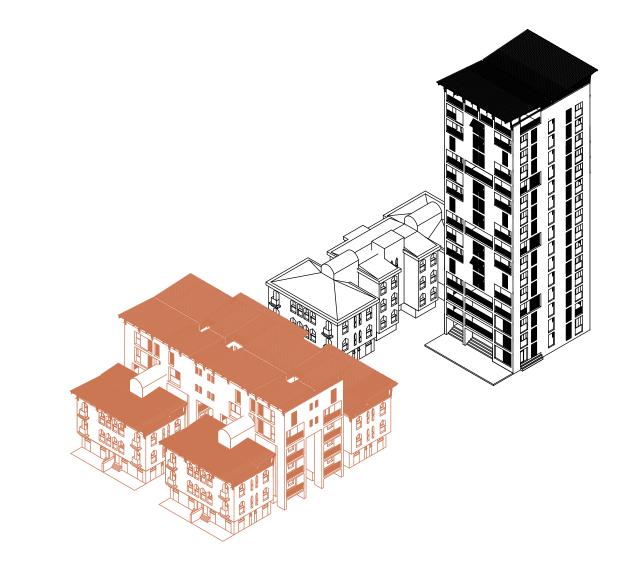


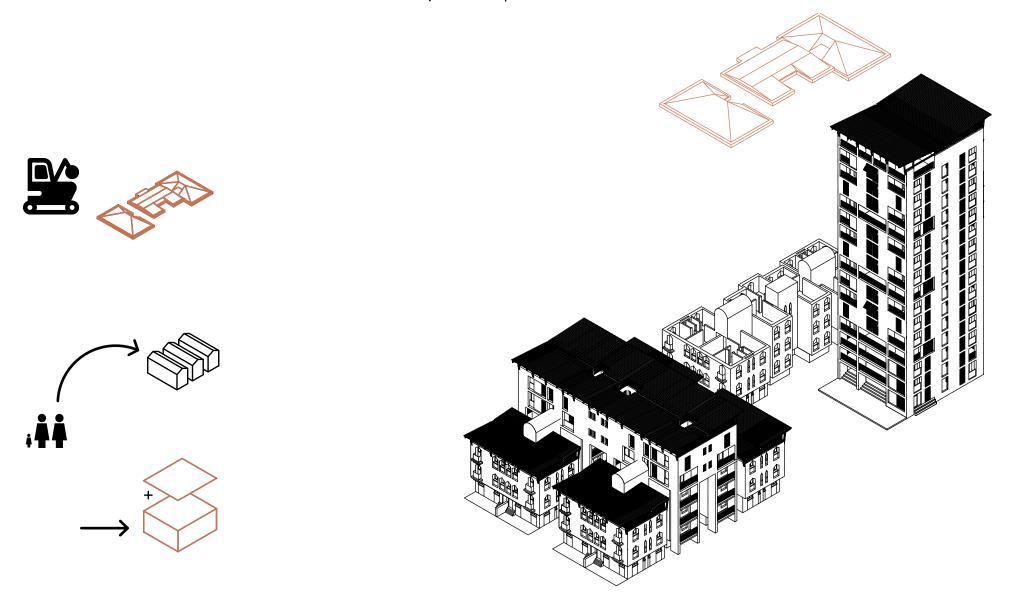


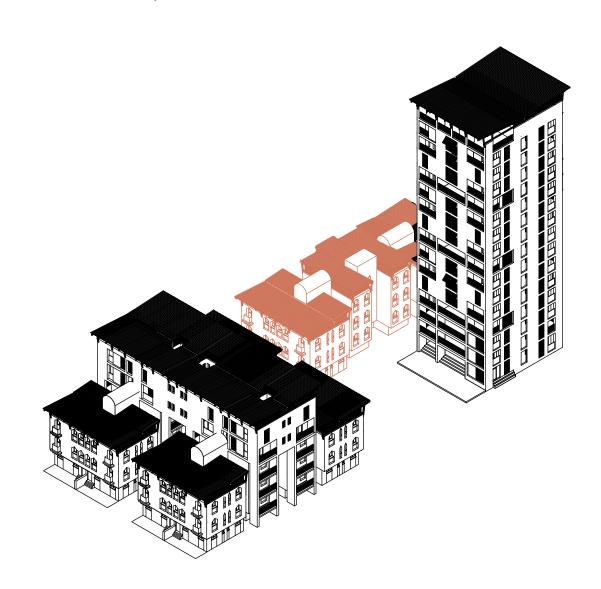




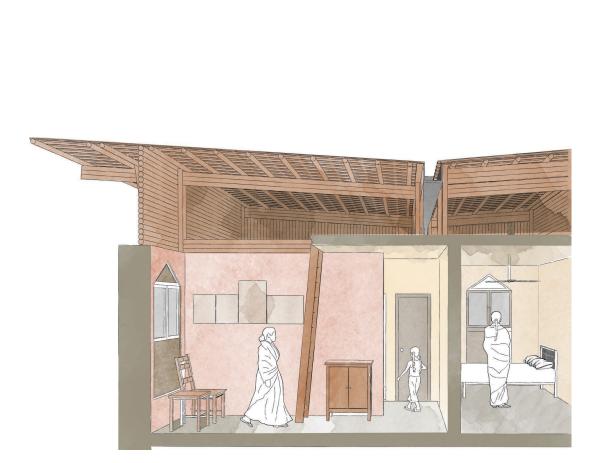






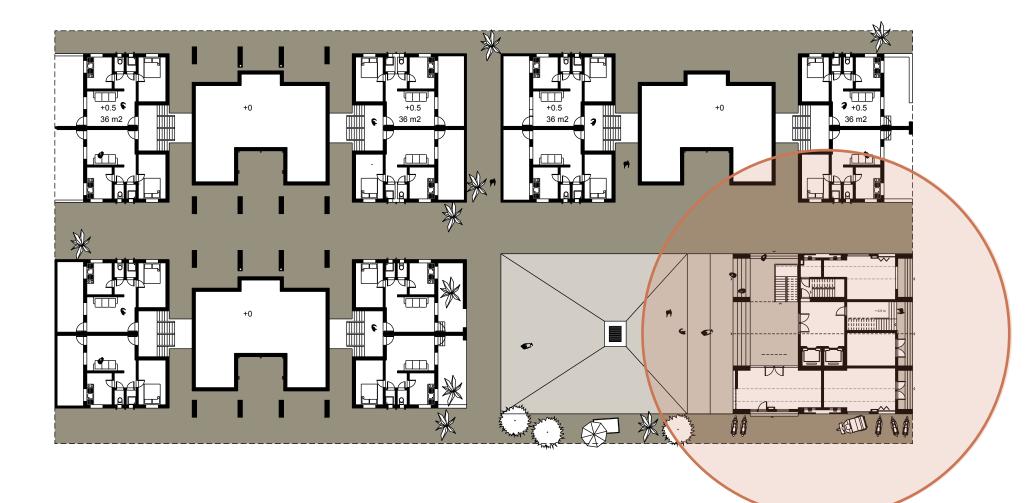


New roof



New roof

Cluster



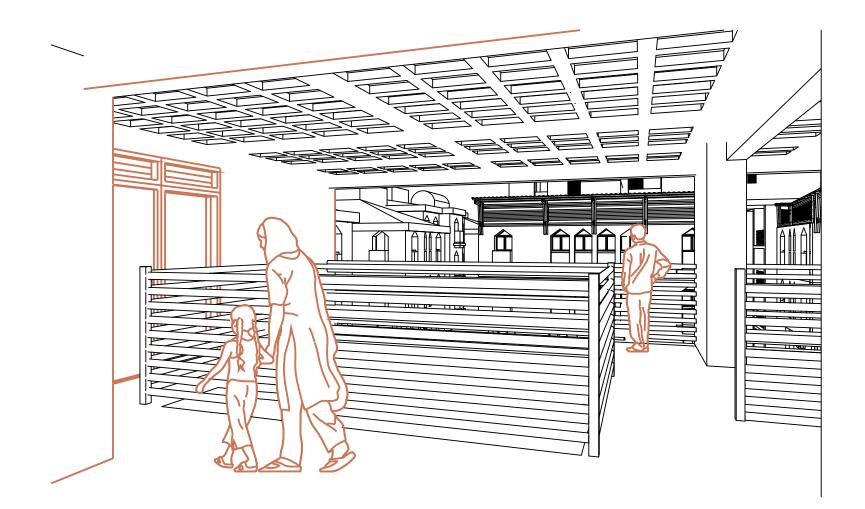
Patterns

Square



play ground | commercial

Amenity floor



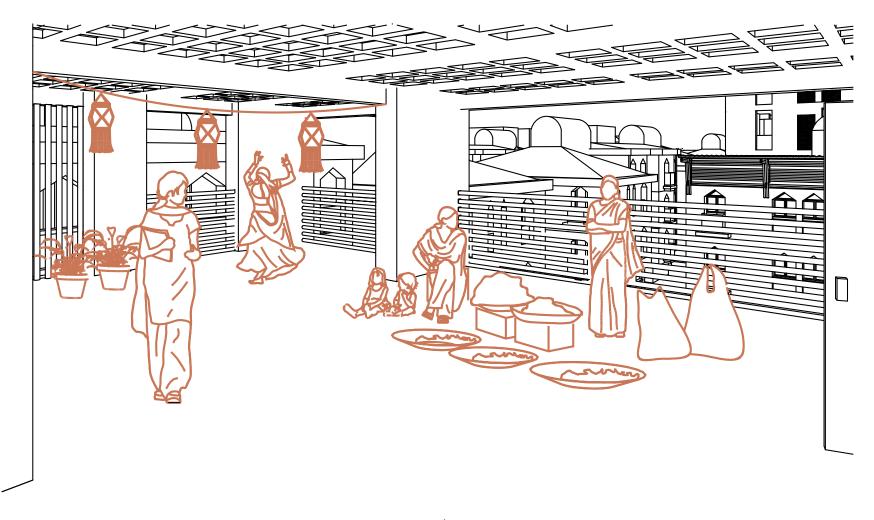
amenities | community

Commercial plint



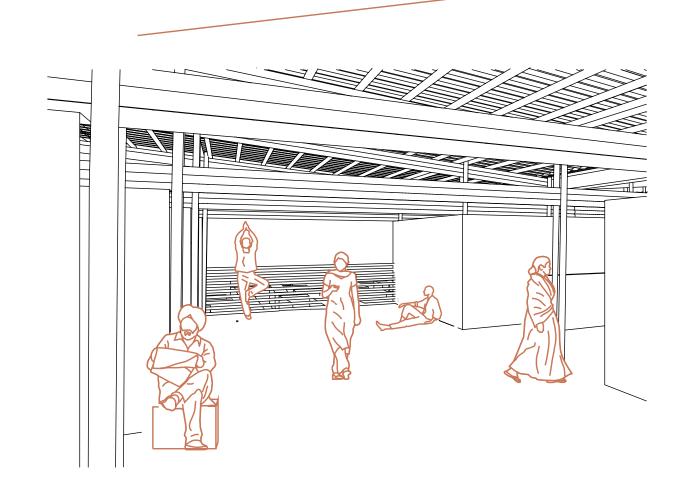
amenities | community

Community floor



community | society

Community roof



community

Small street



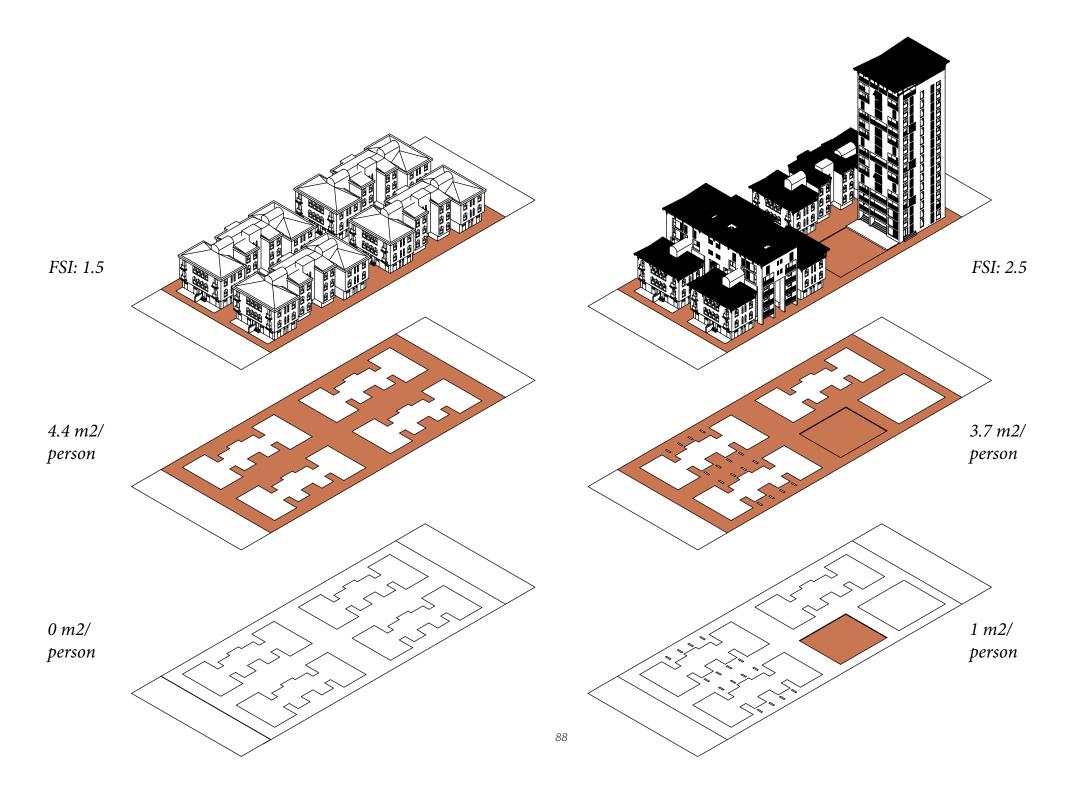
parking | commercial

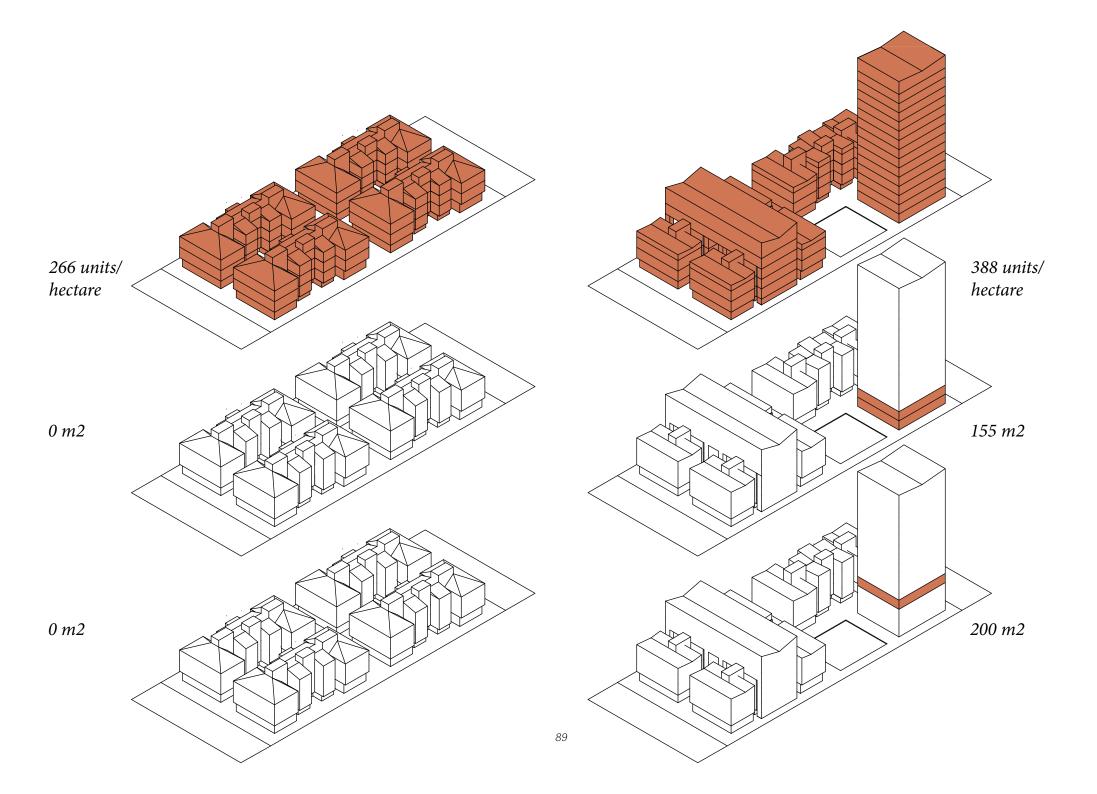
Balconies



parking | balconies

Comparison





Cluster options

Directives









goals

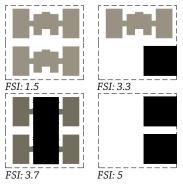
one building



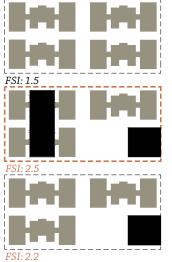
FSI: 5

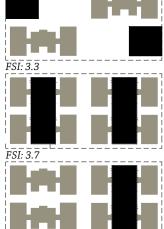
two buildings

rules



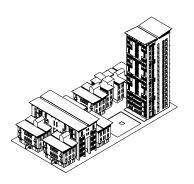
four buildings





FSI: 1.85

Options



option 1





option 3



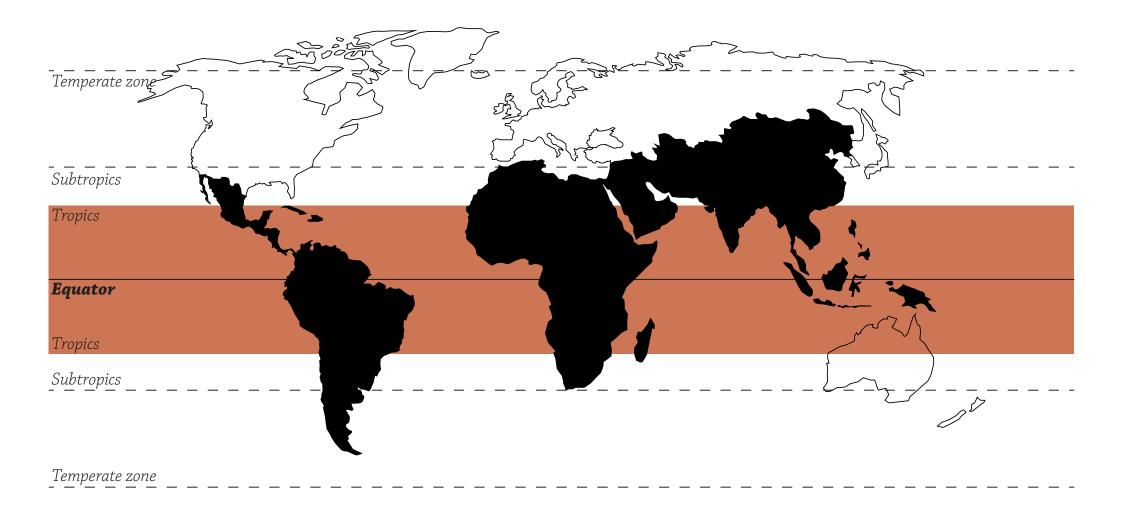
option 2



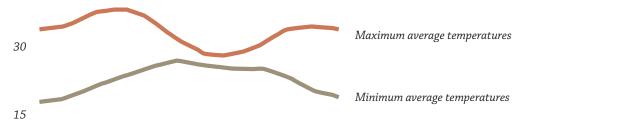
option 4

Building technology

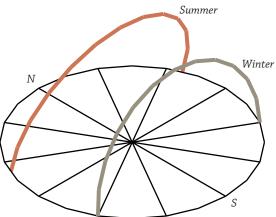
Global South | Climate



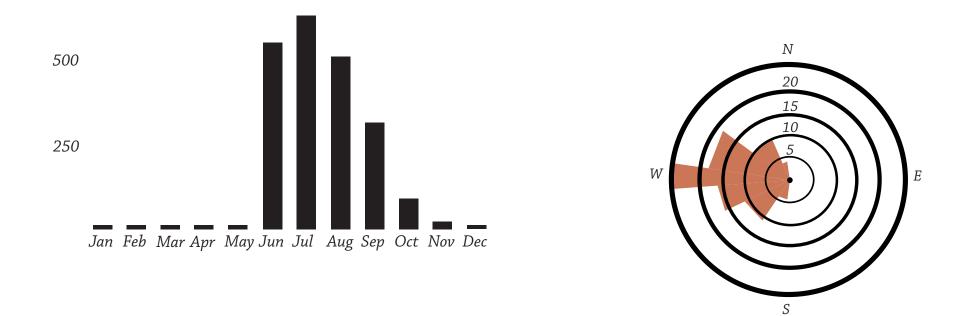
Mumbai | Climate

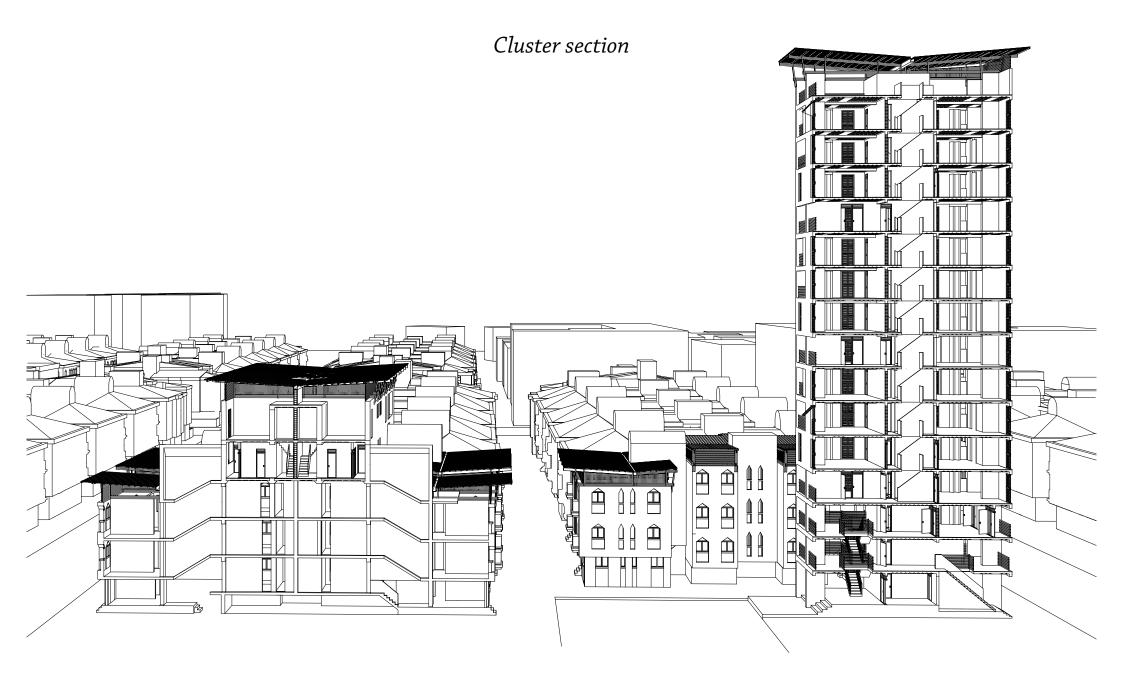


Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec



Mumbai | Climate

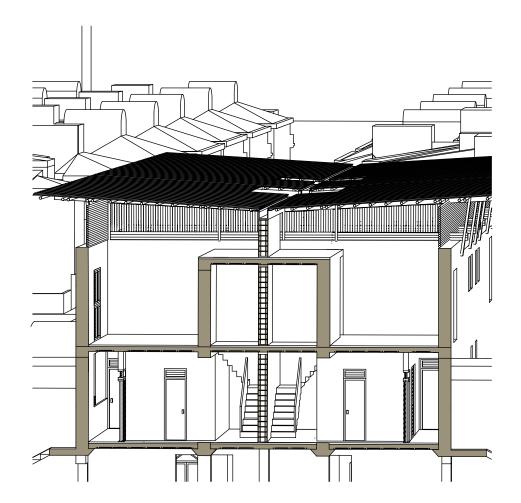




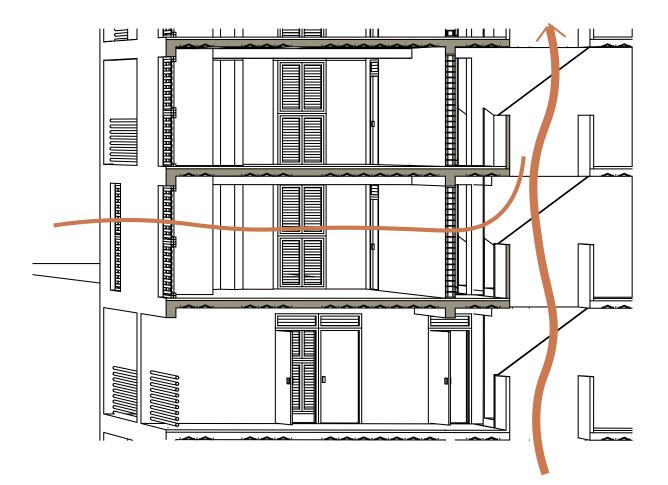
Cluster facades



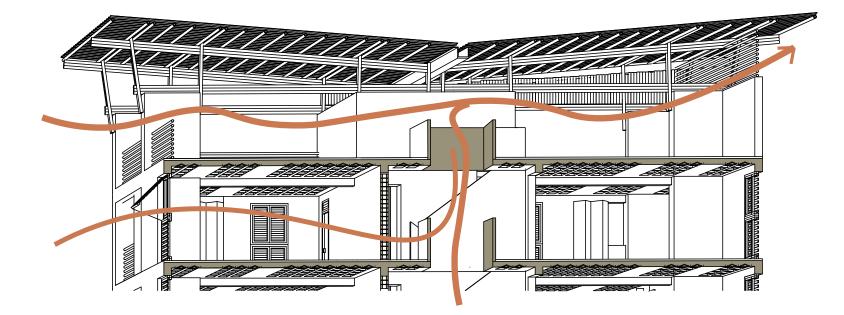
Up-build section



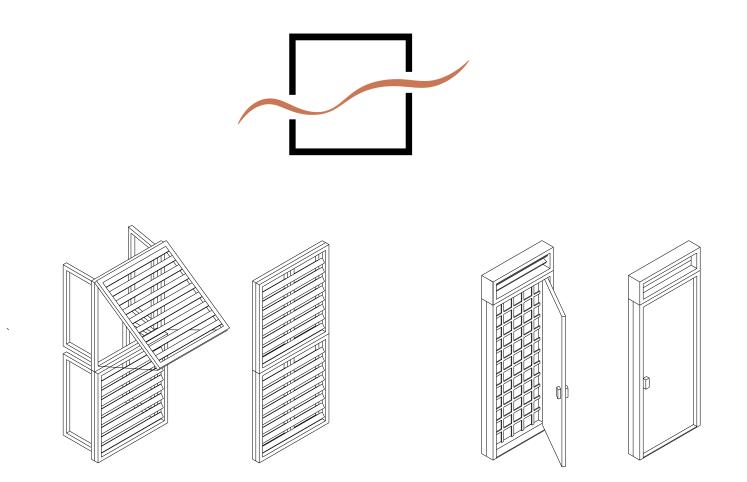
Cross ventilation

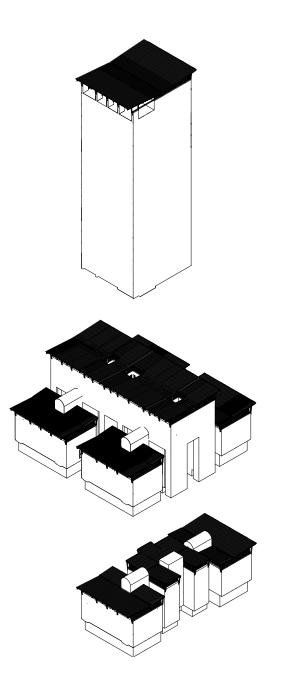


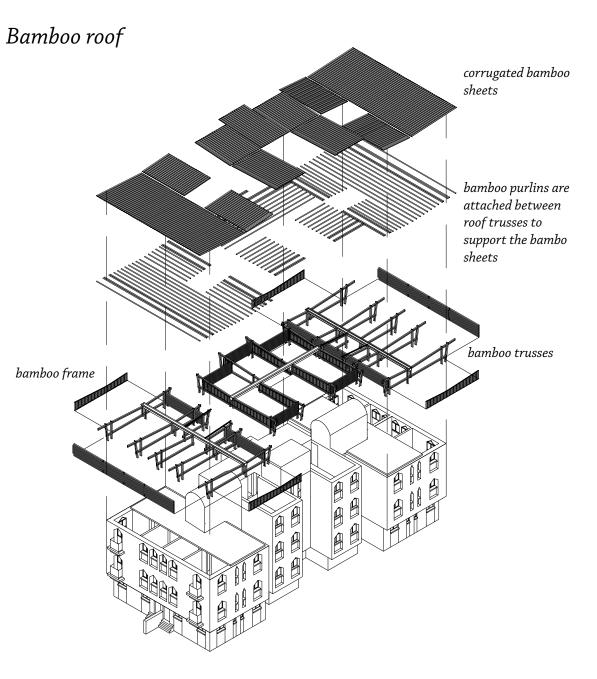
Ventilation

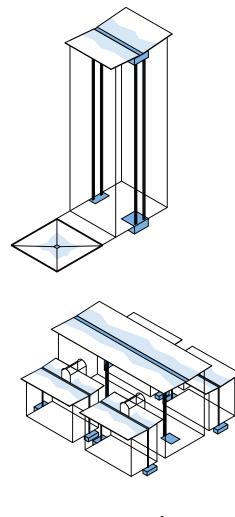


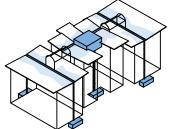
Cross ventilation



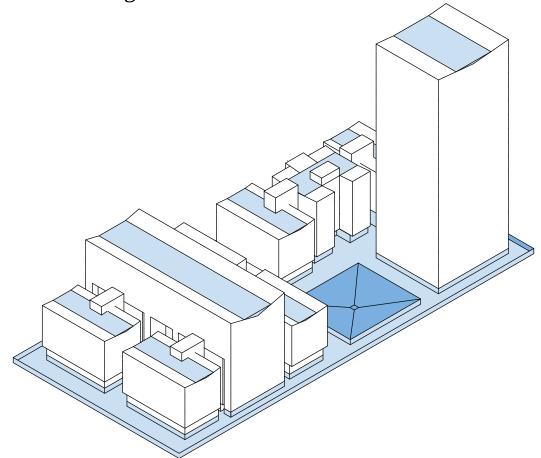




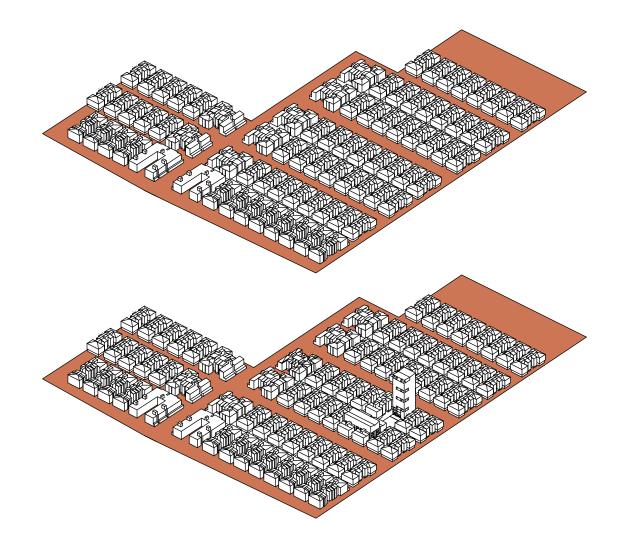


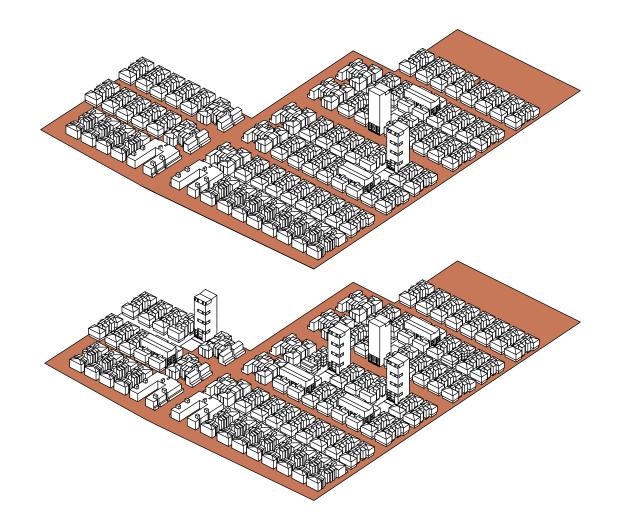


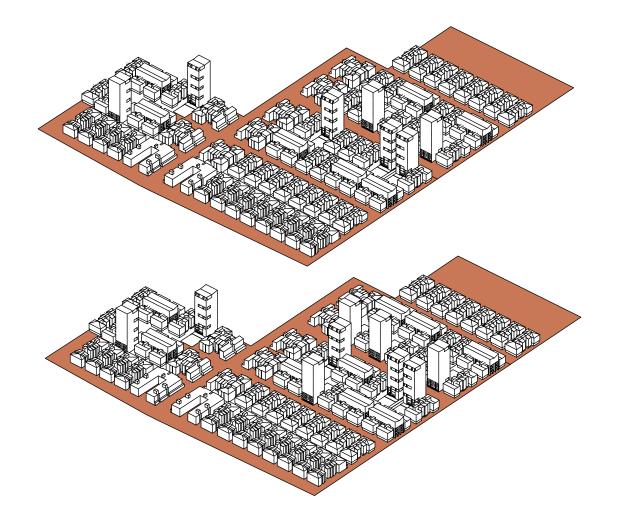
Water harvesting

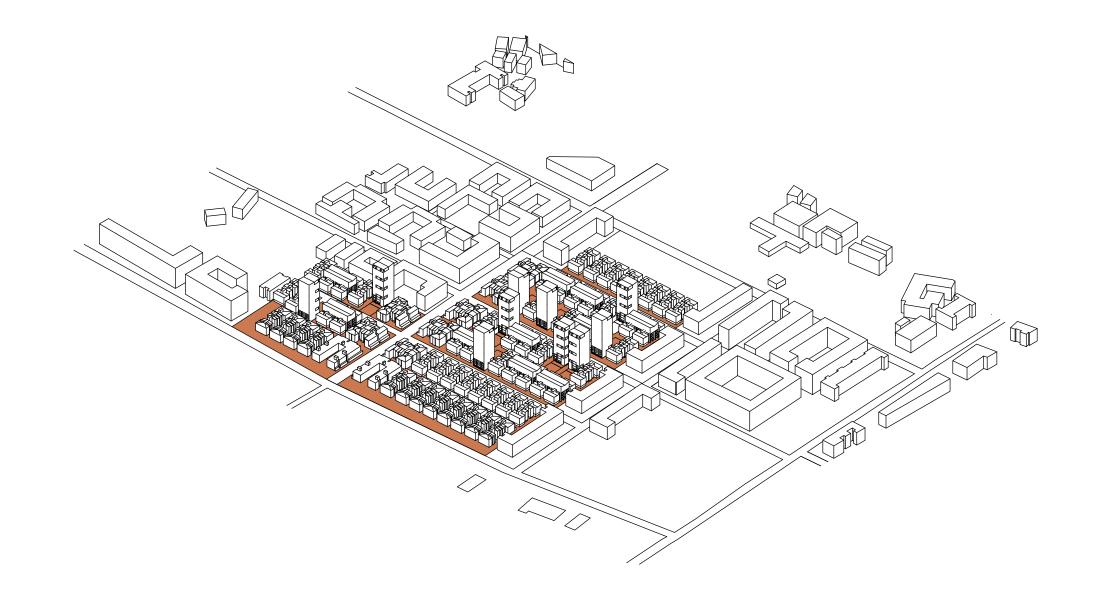


Urban strategy



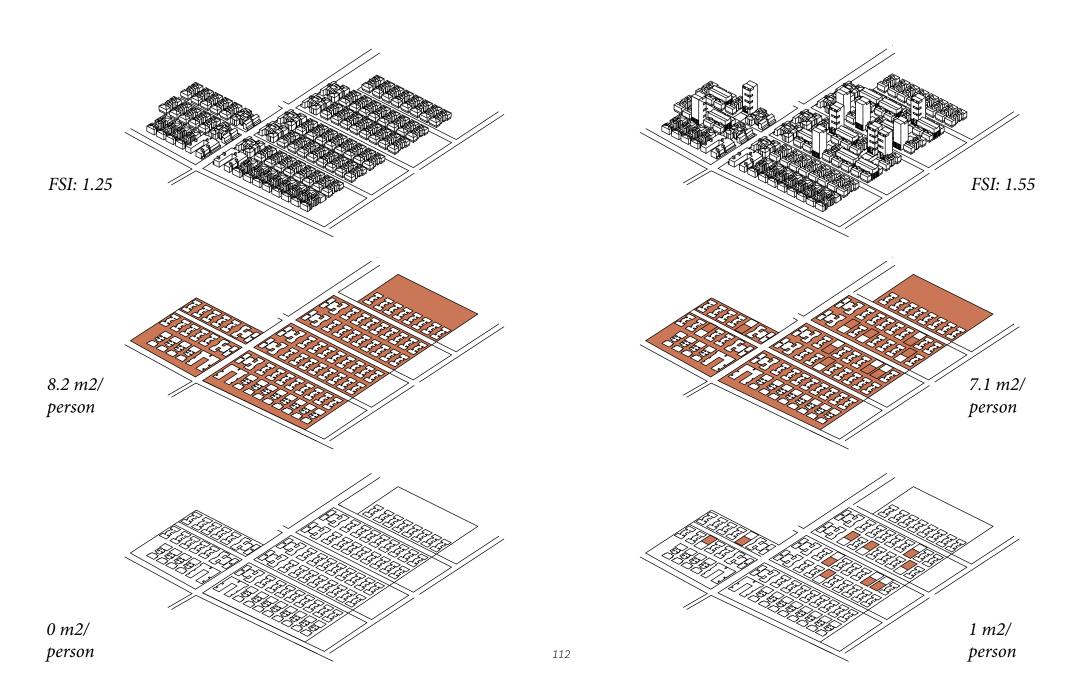


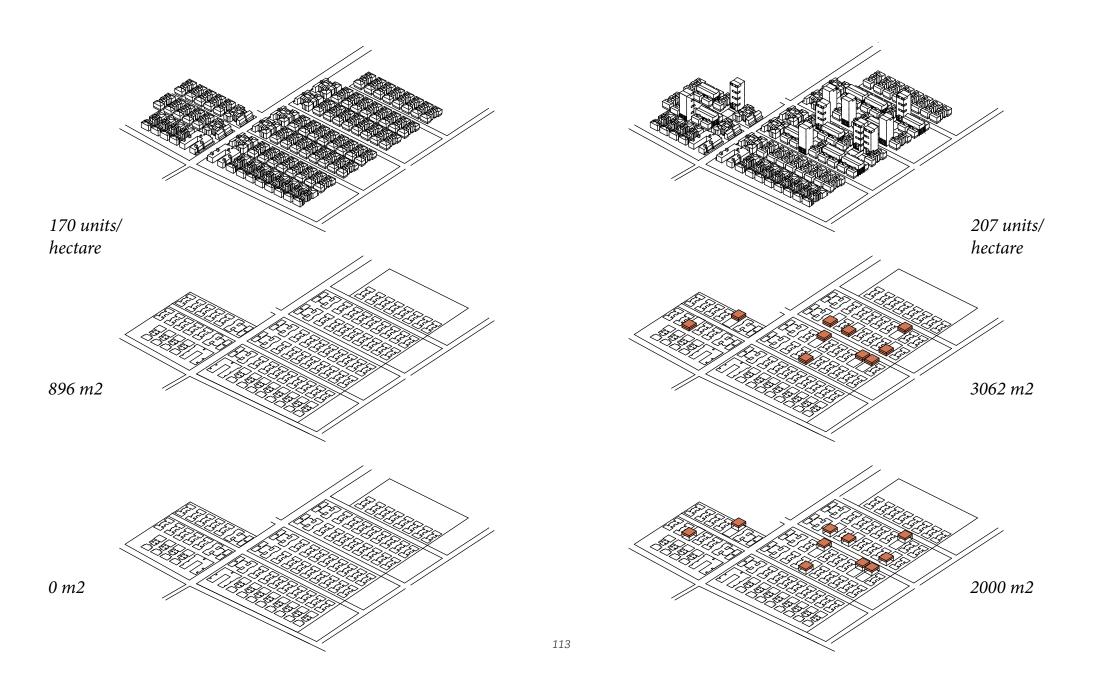






Conclusions





Inbetween two buildings



Community square



Inbetween two buildings



Inbetween two buildings





Big street

Big street



Inbetween four buildings



Inbetween four buildings

