TRIPOLIS
[THREE CITIES]
FOR
AMSTERDAM

Mohammed Reza Alkaabi
Graduation studio | “At home in the city” Dwelling
HISTORY

1661

1664
HISTORY

1661  1664  1770
HISTORY

1661

1664

1770

1811
HISTORY

1661

1664

1770

1811

1850
HISTORY

1661

1664

1770

1811

1850

1885-89

1914-26
Limits of Density

A research regarding the quality of the private domain

Graduation Research
Tu-Delft, 2011
Due the lack of Space and the great space consumption, cities are nowadays forced to grow in their outskirts.

Could we come up with a new density model that could save the city from fading out, without losing its Spatial variety?
RESEARCH

Definition Density

FSI = gross floor area / plan area

GSI = built area / plan area

OSR = (plan area – built area) / gross floor area

L = gross floor area / built area

Spacemate chart
Case Studies

Kowloon walled city
Hong Kong, 1947-1987, unknown

Hong kong tower block
Hong Kong

Copan
Brazil, 1966, Niemeyer

Disteldorp
Amsterdam, 1919, Bt boeyinga

De bongerd
Amsterdam noord, 1994-2005, Change architects

Grachtenpand
Amsterdam.
SITE ANALYSE
Amsterdam North
SITE ANALYSE
Amsterdam North
SITE ANALYSE
Amsterdam North
LOCATION
Overhoeks
Design

Form

Low  FSi
High  GSi
Low   OSr

Mass

Private

Public

10,742 dwellings
Distribution

High FSi
Low GSi
High OSr

Private

Semi-private

Public
POSITION

Form
POSITION

Orientation
**Program**

<table>
<thead>
<tr>
<th>Tower A</th>
<th>Tower B</th>
<th>Tower C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working, Commercial</td>
<td>Working, NonCommercial</td>
<td>Hotel, leisure, Sport, 50 meter Pool</td>
</tr>
<tr>
<td>Living/working</td>
<td>Living/working</td>
<td>Living/working</td>
</tr>
<tr>
<td>Cultural</td>
<td>Local services</td>
<td>sailing club, Café</td>
</tr>
</tbody>
</table>

Distance:
- Tower A to Tower B: 145m
- Tower B to Tower C: 116m
- Tower C to Tower A: 100m
- Tower A to Tower C: 75m
Tower Overhoeks
Tower Tolhuistuin

- Tower height: 145 m
- Height above ground: 6 m
- Distance from ground: 12 m
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Building technology Tutor | Ype Cuperus

SITUATION
SIXHAVEN
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P4 - Presentation                              TU- Delft  28-09-2012

Scale  1:500
1.1 Entrance Hall Dwellings
1.2 Entrance Hall Hotel
1.3 Reception
1.4 Security guard
1.5 Hotel Lobby Workingspace
1.6 Kitchen
1.7 Storage
1.8 Restaurant
1.9 Terrace
2.0 Sailing Club
2.1 Laundry Space
2.2 Six Haven
2.3 Bicycle Garage
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1.9 Terrace
2.0 Sailing Club
2.1 Laundrey Space
2.2 Six Haven
2.3 Bicycle Garage
“The homogeneous and undifferentiated character of modern cities kills al variety of life styles and arrests the growth of individual characters.”

A pattern language, Alexander C.
“While horizontal space symbolizes a kind of sociable and barrier free access, vertically organized space typically presents obstacles to movement and visibility, separating activity on one floor from the next.”

“Horizontal Space is epitomized as flexibility, organisable into shades of public, semi-private and private, while a vertical extrusion of similar floor plates implies privacy and separation.”

Scott Johnson, Tall building: imagining the skyscraper
“Buildings are not merely placed into the outdoors, but they actually shape the outdoors”
“Do everything possible to enrich the cultures and subcultures of the city, by breaking the city, as far as possible, into a vast mosaic of small and different subcultures, each with its own spatial territory, and each with the power to create its own distinct lifestyle.”

Alexander C.
CONCEPT

THE VERTICAL GRID

Horizontal Grid

Vertical Grid?
NOLLI PLAN
GREEN COURTYARDS
Impression
Impression
FLOORPLAN

BALCONY DWELLINGS
NOLLI PLAN

GREEN CORRIDOR/TOWER DWELLINGS
FLOORPLAN
GREEN CORRIDOR/TOWER DWELLINGS
TRIPOLI
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T Y P O L O G Y
Scale  1:100

TOWER
DWELLING
A

A

A

A

Level 0  Level +1  Level +2  Level +3

TRIPOLI

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T Y P O L O G Y

Scale  1:100

TOWER

DWELLING
NOLLI PLAN

FAMILY DWELLINGS
NOLLI PLAN

WORKLANE
TRIPOLI
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Scale  1:200
FLOORPLAN

CAFE, RESTAURANT / PANORAMA DWELLINGS
CONSTRUCTION

STABILITY

169 m²

CORE
45°

239 m²

CORE

Increased with 41 %
CONSTRUCTION
Floor distribution
CONSTRUCTION

Cantilever

primary construction

secundairy supporting structure

CORE
FACADE
FACADE
NEIGHBOURHOODS
CANTILEVER
The image of the tower is collective as well as individual. The floor to ceiling window give the appartment a feel of suspended landscape plateus. the interior space is expanded to the outdoor environment. beyond its physical boundaries.

rain, sun, clouds, wind & greenery determine the atmosphere.
CLIMATE

- Natural Ventilation
- Atrium Space
- Shading
- Rain Water
- Water Filtration
- Bio Gas
- Black water
- Air flow
Gone is the feeling of restriction prevalent in the skyscraper life.

No longer a simple building, it is in reality a “huge machine designed to serve, not the collective body of tenants, but the individual resident in isolation.”

*High-Rise, Ballard J.G*
SPECIAL THANKS TO:

MY PARENTS
MURTEDA ALKAABI
SINAN SUBASI
MICHEL MOOI
EDU LAMTARA