Vertical Cities Asia
Graduation & Competition

Lifetime City & Theater City

Laura Dinkla
TU Delft 16 april 2013
introduction location
research for masterplan
design Lifetime City
new masterplan
concept Theater City
how to build the Theater City
a day in the life of Sun Hee
Seoul, South Korea: 1500 km
Yongsan, Seoul: 20 km
Korea is annexed by Japan

Independence from Japan

516 military coup
1st economic development plan

sending military to the Vietnam
2nd economic development plan

518 democracy movement

Seoul Asian game
Seoul Olympic

join the UN

economic crisis

south and north Korea summit
Korea and Japan World cup

KORUS FTA
KOR-EU FTA
protest the FTA
City boundaries in time
Housing prices

Amount of cars
neighbourhood of connection

Working distances
“The objective of the competition is to seek a holistic solution or a new urban paradigm for a rapidly growing Asian city which also faces the issues of sustainability and quality of life that also addresses the increasing aging population in Asian cities.”
boundaries of neighbourhoods
removal of neighbourhoods
land use

Legend:
- service
- commercial
- leisure
- housing
- culture
- education
- offices
- health services
Lifetime City
Lifetime City
Open Ended City
Water city
The Loop
Lifetime City

winners VCA competition
chosen masterplan
masterplan Open ended City
opportunities for the elderly to be well integrated in society, as they are given responsibilities in providing day care services and programs for children.”
Falls are a major health problem in an aging society, which arise as a consequence of a decline in postural and balance due to muscle weakness and other risk factors (Melzer et al., 2001; Sturnieks et al., 2008). Falls, or even the fear of falling lead to a reduced quality of life (Voermans et al., 2007).
Our study provides strong evidence that dance promotes a wide-range of beneficial effects that are not limited to motor behavior, posture and balance, but covers also perceptual and cognitive abilities. Therefore, dance might be an appropriate approach for enforcing and maintaining plasticity processes in elderly populations, thereby contributing to successful aging.

Superior Sensory, Motor, and Cognitive Performance in Elderly Individuals with Multi-Year Dancing Activities Jan-Christoph Kattenstroth, Izabella Kolankowska, Tobias Kalisch, and Hubert R. Dinse

...'Yoga therefore is considered therapeutic. It helps you become more aware of your body’s posture, alignment and patterns of movement. It makes the body more flexible and helps you relax even in the midst of a stress stricken environment.'

www.abc-of-yoga.com
STAY YOUNG AND GO DANCING
Korean dance culture
School of dance:
Department of Dance Performance
Department of Dance Theory
Department of Choreography
Seoul Arts Centre
- concerts - 2523 seats
- recital - 354 seats
- chamber music
- opera hall - 2200 seats
- yayu - experimental - 300 seats
National Theatre Seoul - 1547 seats
Arko Theatre - modern dance - 600 seats
Karma theatre - martial arts/dan - 589 seats
Jump Theatre - martial arts - 510 seats
Lotte World Art Theatre - breakdance/ballet - 466 seats
Gangbuk Dong Nanta - nanta - 386 seats
Myeong Dong Nanta - nanta - 386 seats
Hongdae Nanta - nanta - 375 seats
Sa.Choom Theatre - K-pop/modern dance - 370 seats
Chongdong Theatre - traditional arts - 344 seats
Hakchon Theatre - rock musical - 198 seats
comparison stages

Educatorium
500 Seats

Cordoba Congress Center
566 Seats

Dallas Theater
575 Seats
comparison stages

NORWEGIAN OPERA AND BALLET
1370

MUZIEKTHEATER AMSTERDAM
1500 SEATS

TAIPEI MUSIC CENTER
3500 SEATS 1500 STANDING
stages and auditoria through time

Greek/Roman

Gradins (+standing in between)

Renaissance

V shape since 1876
large theater Pompeii 200 B.C.

1. Large Theater
   - Original: 200 B.C.
   - Rebuilt: 2 B.C.
   - Capacity: 5000 persons
   - Architect: M. Ariolus Primus
2. Small Theater
   - Constructed: 80 B.C.
   - Capacity: 1500 persons
   - Builders: G. Olimpia Valgus
   - Marcus Porcius
3. Temple of Zeus Mithras
4. Temple of Iseus
5. Palaestra (gymnasium)
6. Propylaeum (portico)
7. Forum Triangularis
8. Doric Temple
9. Tank for Saffron Water
10. Theater Colonnade
   (gladiator barracks)

Pompeii (Italy), Quarter of the Theaters, 79 A.D.
visiting the back area of Muziektheater Amsterdam
Proscenium theater
- Classical ballet productions
- Large modern dance productions
- Opera
- Musicals
- Acting

Thrust stage
- Modern dance productions
- Acting
- Cabaret

Black box/flat floor
- Modern dance productions
- Folkloristic dance productions
- Experimental/mixed performances

End stage
- Music performances
- Cabaret

In the round stage
- Circus
- Sports

Traverse theaters
- Opera
- Fashion shows
- Music performances
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The cultural program has its roots in a universal appreciated art form: dance. With appearances in many forms, dance can be enjoyed by people from different cultures, it can be practiced at different levels and at different ages. In an aged society such as Korea it might even be used as therapy to develop motor skills and movement. In the new theater more of the creative facets that are involved in or related to making a dance production are present, including presenting, costume making and painting. Furthermore shops will be included to provide the right material and to enable people to bring the creativity home.
The ambition of the Yongsan theatre is to bring people together. It takes the ancient Greek Agora as its precedent, a place for social interaction, for sharing ideas and for recreation. Literally Agora also means ‘gathering place’. It is a truly public domain that is open to everyone. The new theater in the heart of Yongsan attracts people from around the neighbourhood, but also people from outside Yongsan, that come by the adjacent station, or by car. The building attracts visitors from all ages. Both young and old people find activities they can join, or they can learn from each other. Also amateurs get the chance to learn from professionals, by watching, talking and acting. People can share their ideas and explore their talents. Routes and program cross each other in one building so that interaction is almost inevitable. Also passersby are welcome in and around the building. While passing they can interact with the building and its visitors. They will be aware of the fact that they pass the new theater, it will become a reference point in the city. Already its location is unique and therefore a reference point. The amount of people and its facilities make it a real urban element in the city. When it has become a well known point, it is easy to say ‘...let’s meet at the theater’.
Numbers

Location size: 34310 m²
Total built square meters: 76860 m²
Plot size: 3492 m²
Square meters built within plot: 36560 m²
new masterplan
green structure
linking shopping and living
hierarchy in streets
passing by
new route
traditional Hanoks
traditional Hanoks
concept model
breaking the site into pieces

Main connection (12m)  Secondary breaks (6m)  Tertiary breaks (3m)
concept - identify parts in theater
concept - separate parts of theater
concept - rearrange parts of theater
theatres and producing areas
theatres and dressing rooms
studios and dressing rooms
studios and art school
foyer and city theatre
foyer, restaurants and meeting rooms
shopping and exposition
needed program
observing the sun

March

10.00

June

13.00

September

16.00

December
city in axonometry
city in axonometry
Theater City
Yongsan - Seoul - South Korea
1:500 Floorplan -1

P4 Graduation Laura Dinkla
Vertical Cities Asia
Delft University of Technology

floorplan basement
main entrances and public transport
parking entrances
section over stage
theatre base
theatre main construction
theatre main construction
theatre vierendeel 3d boxes
theatre flooring
basic construction

Renske van Dieren student TU Delft
sliding window frame
second skin facade
second skin + ventilation
wooden roof
woven layer semi transparent

Des Moines Public Library
possibilities of projection
theatre facade
theatre facade facing down
heavy rainfall in summer

Rainfall Seoul

- 500 27th of July

Rainfall inmm precipitation

- January
- March
- May
- July
- September
- November
watersquares

Watersquare 17th century

drijvend plien

trapenplain

waterzuiverend labyrinth
drijvende grassmat

spet/pleat's

Waterspell Rotterdam research Layout
blue roofs for water detention
dry situation
heavy rainfall
Vertical Cities Asia
Graduation & Competition

Lifetime City & Theater City

Laura Dinkla
TU Delft 16 april 2013