

Vertical Entertaining Complex

Ρ5

LI TAN 4700570

Complex Project Graduation Studio



# **INTRODUCTION** TOWARDS (P)LEISURE CITY

2100?



DECENTRALIZATION OF WORK AND PRODUCTION

RISE OF PRODUCTIVITY

> ECONOMY TURN ITS FOCUS TOWARDS HUMAN EMOTION AND WELLNESS







Clothing

Electronics

# **Materialism**





Housing

Cars



## **Materialism**





Housing

Cars

Experiences





Theater

Travel

66

Pleasure and Leisure are becoming the next leading economy."







2100 Amstel Schematic Strategy



What are the problems and conflicts stopping Amstel from reaching the (P)Leisure City?

high entertainment demand in dense urban environment

### loneliness caused by addicted virtual technology

offline-space undergo a transformation in creating more experience

#### Core Research Question

How can we response to the growing needs of <u>social</u> <u>entertaining</u> experience within <u>dense urban</u> area, and address the issue through an architectural space that <u>fuses the virtual and the physical</u> environment?

# **RESEARCH** THE FUTURE OF ENTERTAINMENT

#### The Changing Concept of Leisure

more innovative, immersive, hyper-connected and age-inclusive





Purchasing Experience

Socializing

New Physical Space



The film "The Matrix", featuring a computer-generated world where citizens of

the future are imprisoned from birth.



Sensory Technology Timeline





Hear

3rd-person

subject described by others

Watch

2nd-person

directly observe the subject













# 







#### Inspiration: A Complex Entertaining Product- Westworld



## Visitors' Perspective



Arrival



Dressing Up



Entering



Amusement Park

### Possible Experiences inside

Street View





Sexual Activities



Riding Horse



Gun Fighting

## Corporate's Perspective



Manufacturing



Narrative Building



Acting in Amusement Park



Repair

NOW — FUTURE

+more realistic

+more immersive

+more interactive

WATCH A FILM ------ ENJOY A CINEMATIC EXPERIENCE

+more realistic

+more immersive

+more interactive



### +more realistic



### +more interactive



#### purchasing products ----> purchasing experiences

What can **architects** do?

Can we design an entertaining complex in the city that offers rapidly updating social and recreational activities fusing the virtual and the physical environment?

Can we create a routing that connect these immersive activities?



theme park

shopping mall








Three Minutes to Nirvana, Eugenia Loli

## Precedents Study Program



Vendsyssel Theatre SHL

Location: 9800 Hjørring, Denmark Year: 2017 Area: 4,200 m2



Lideta Market Vilalta Arquitectura

Location: Addis Ababa, Ethiopia Year: 2016 Area: 14,200 m2



The Shed DS+R

Location: Hudson Yard, New York Year: 2019 Area: 18,500 m2



Bunjil Place FJMT

Location: 2 Patrick Northeast Drive, Narre Warren, Australia Year: 2017 Area: 24,500 m2

## **Precedents Study** Theme Park Organization



Disneyland Anaheim

Location: California, USA Year: 1955 Area: 343,982 m<sup>2</sup>



Universal's Islands of Adventure

Location: Florida, USA Year: 1999 Area: 450,000 m<sup>2</sup>



Universal Osaka

Location: Osaka, Japan Year: 2001 Area: 540,000 m<sup>2</sup>



EXPO Milan 2015

Location: Milan, Italy Year: 2015 Area: 1,100,000 m<sup>2</sup>





# **DESIGN** THE FUN UNIVERSE

# Program

### Traditional Digital Film

**Pre-Production** Screenplay, Financing, Casting Production Cameras, Studios, Lighting, Sound Post-Production Editing, Rendering, Sound Track Advertising, Packaging, Distribution Transportation **Cinema Presentation Cinema Playing** Secondary Presentation DVD/TV/Online

### Traditional Digital Film

#### **Pre-Production** Screenplay, Financing, Casting Screenplay, Financing, Testing Production Cameras, Studios, Lighting, Sound **Programming, Scene Design** realtime updating **Post-Production** Editing, Rendering, Sound Track Sensory Design Advertising, Packaging, Download, Distribution Transportation Additive Printing, Robtics Manufacturing Augmented Experiential Spaces, **Cinema Presentation Cinema Playing Visitors Participation** Secondary Presentation DVD/TV/Online Live Broadcasting

### *Future Interactive Cinematic Experience*

## How to construct an immersive Scenography?



physical settings



environmental control



androids



augmented virtual projection

• • • • • •



# The Fun Universe is an entertainment complex dedicated to <u>producing</u>, <u>presenting</u> and <u>broadcasting</u> all types of social entertaining and visual augmented activities including cinematic experience, interactive performing arts, immersive gaming etc.

It is an urban scale "Westworld", a vertical theme park that contains various popular destinations.







producing

presenting

## broadcasting

| 45% | experiential<br>program       | 45,000m² |
|-----|-------------------------------|----------|
|     | public+<br>service<br>program | 40,000m² |
| 15% | supporting<br>program         | 15,000m² |





### Building's Operating Flow





01

02

03



broadcasting

01

02

presenting

## Location





Principle1:

Great Connectivity: Easily accessible to the visitors and convenient for logistics.



Principle2:

High Passenger Flow: Density leads to enough demand



Principle3:

Great Visibility: Represents a FrontPage of the area. For upper level, there is a visual contact directly to the Diagonal Park.



# Mass Study



## Final Principles

-Integrated Functions



## Final Principles

-Integrated Functions -Large Open Space













## Fun Universe as an "URBAN STORYBOOK"

# Design








**Rooftop** - Landing Platforms



**Rooftop** - Garden Landscape















main experiential space



production



**Underground** - Production Units





Underground



broadcastcast hall



**Ground Floor** - Loggia





Ground Floor - Retail, Cafe, Exhibition



Ground Floor - Broadcast Hall







Ground Floor - Broadcast Hall









First Floor - Office & Administration









Main Experiential Space - Open Space





6.6 13.2

0

26.4



Main Experiential Space - Rooms



Main Experiential Space - Rooms













|  | 2 |
|--|---|
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |

7,66-7,26-












Transparent LED Panel + Mass Timber Wall



Opening, Entrance/Exit





Main Experiential Space - Open Space





Main Experiential Space - Rooms



**Hotel** - Guest Rooms







Main Experiential Space - Open Space











Main Experiential Space - Hologram Sphere Theatre



Main Experiential Space - Hologram Sphere Theatre





# Construction





















## How internal scenography is arranged in a dynamic system?

ensures the fundamental physical movement of human rather than visibility maximize the freedom of
later arrangement of
the space by giving a
 structure/restrain

convenient in arranging staircases (vertical circulation)



### modular of <u>6.6\*6.6\*3.3m</u>

ensures the fundamental physical movement of human rather than visibility maximize the freedom of later arrangement of the space by giving a structure/restrain convenient in arranging staircases (vertical circulation)



### modular of <u>6.6\*6.6\*3.3m</u>



ensures the fundamental physical movement of human rather than visibility maximize the freedom of later arrangement of the space by giving a structure/restrain convenient in arranging staircases (vertical circulation)



### modular of <u>6.6\*6.6\*3.3m</u>












Augmented Interior Scenography





Augmented Interior Scenography





Augmented Interior Scenography









| 000000000000   |   | 0     |
|----------------|---|---|
| 0000 0000 0000 |   | 0000000000000                               |
| 0000000000000  |   | 0     |
|                |   |   |
|                |   |   |
|                |   |   |
|                |   |   |
|                |   |   |
|                |   |   |
|                |   |   |
|                |   |   |
|                |   |   |
|                |   |   |
| 0000000000000  |   |   |
| 0000000000000  |   |   |
|                |   |   |
| 0000000 0000   |   |   |
|                |   |   |
|                |   |   |
|                |   |   |
|                |   |   |
|                |   |   |
|                |   |   |
| 0000000 0000   | ( | <br>0 |
|                |   |   |

## Exterior Materialization



Glass



Transluscent Double Facade



Insulating Concrete













Summer



Winter



0 6.6 13.2 26.4

















0 6.6 13.2 26.4











## Roof Materialization



Painted Concrete Floor



Vegetation



Timber Deck



|   |       |   |   |   | 11 |   |
|---|-------|---|---|---|----|---|
|   |       |   |   |   | Π. |   |
|   |       |   |   |   | Ξ. |   |
|   |       |   |   |   | -  |   |
| - | <br>- | - | - | - | -  | _ |
|   |       |   |   |   |    |   |
|   |       |   |   |   | Η. |   |

0 6.6 13.2 26.4



| a de la compañía de l |         | 5 - 14 (19 (19 (19 (19 (19 (19 (19 (19 (19 (19 |         |   |               |
|---|---------|--|---------|---|---------------|
|   | 8600.00 |  | 4100.00 | 2000.00                                 |               |
|   |         |  |         | T                                       |               |
|   |         |  |         |   |               |
|   |         |  |         |   |               |
|   |         |  |         |   |               |
|   |         | 8  |         |   |               |
| 8   |         | 2311.08  |         | +                                       |               |
| 3300.00   |         |  |         |   |               |
|   |         |  | 2       | 7                                       |               |
|   |         |  |         | 2490.54                                 |               |
|   |         |  |         |   |               |
|   |         |  | 5       |   |               |
|   |         |  |         |   |               |
| ÷,  |         | 8  |         |   | anors         |
|   |         | 1055.00  |         | 6 G C                                   |               |
|   |         |  |         |   |               |
|   |         |  |         |   |               |
|   |         |  |         |   |               |
|   |         |  |         | 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - |               |
|   |         |  |         |   |               |
|   |         | 4770.00  |         |   |               |
| 1600.00   |         | 124  |         |   |               |
| 160   |         |  |         | 5 17                                    |               |
|   |         | 00.00  |         |   |               |
|   |         | 23   |         |   |               |
| 4'<br>-   |         |  |         |   |               |
|   |         |  |         |   |               |
|   |         |  |         |   | at the second |
|   |         |  |         |   |               |
|   |         |  |         |   |               |
|   |         |  |         | 동작(1) 11<br>(1) 동작(1)                   |               |
|   |         |  |         |   |               |







Climate – Summer





## Climate – Winter



## Air Conditioning System







