

denton corker marshall limited
d. heung & associates architects
Lpt architects
national university of singapore
university of hongkong

architectural portfolio

1995

1996

1997

1998

1999

2000

2001

2002

2003

Riverview Model
Danang

PRADA

EVOLUTION

"Memory's images, once they are fixed in words, are erased," Polo said. Perhaps I am afraid of losing Venice all at once, if I speak of it. Or perhaps, speaking of other cities, I have already lost it, little by little.

CHAN KIN KWOK

Vertical thinking is concerned with proving or developing concept patterns.

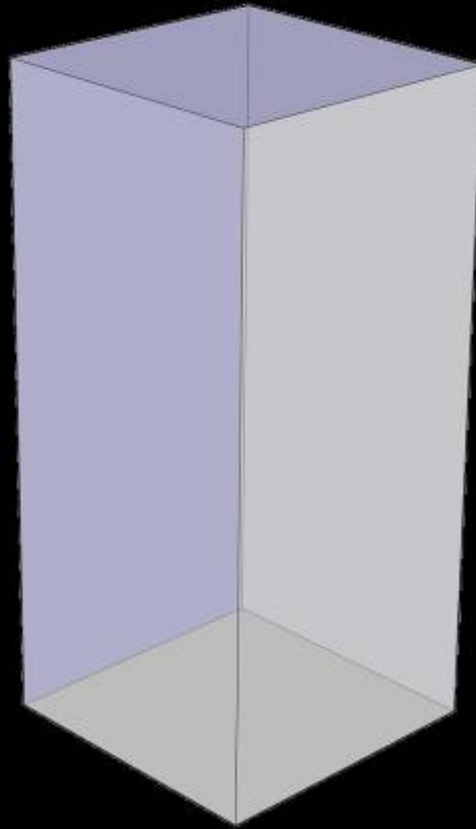
Edward De Bono

EVOLUTION

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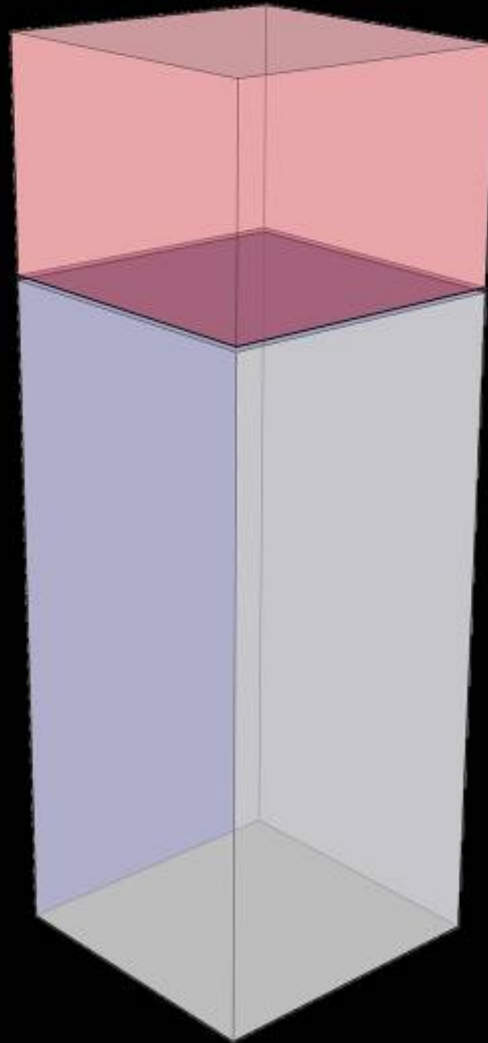
*A clearly defined direction towards
the solution by experience*



EVOLUTION

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'This must be RIGHT'



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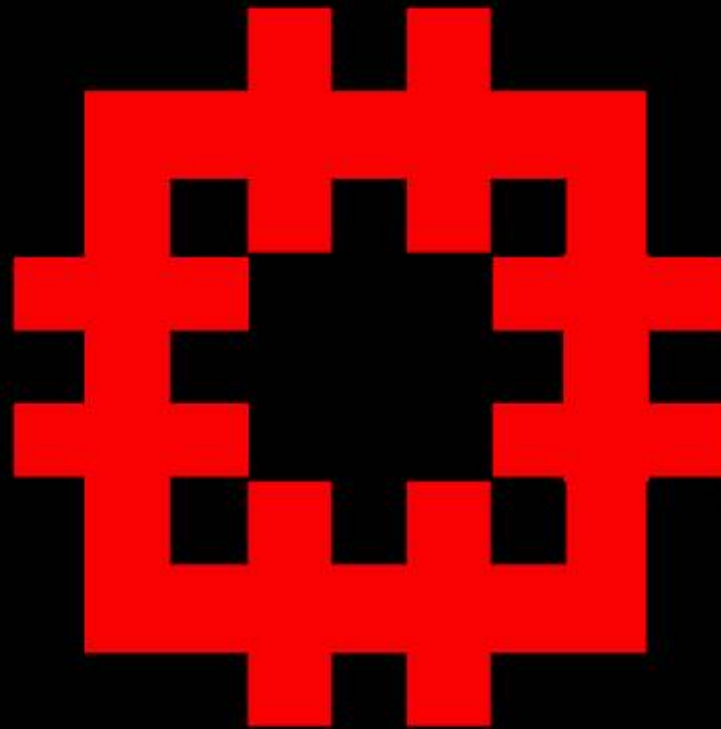
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EVOLUTION

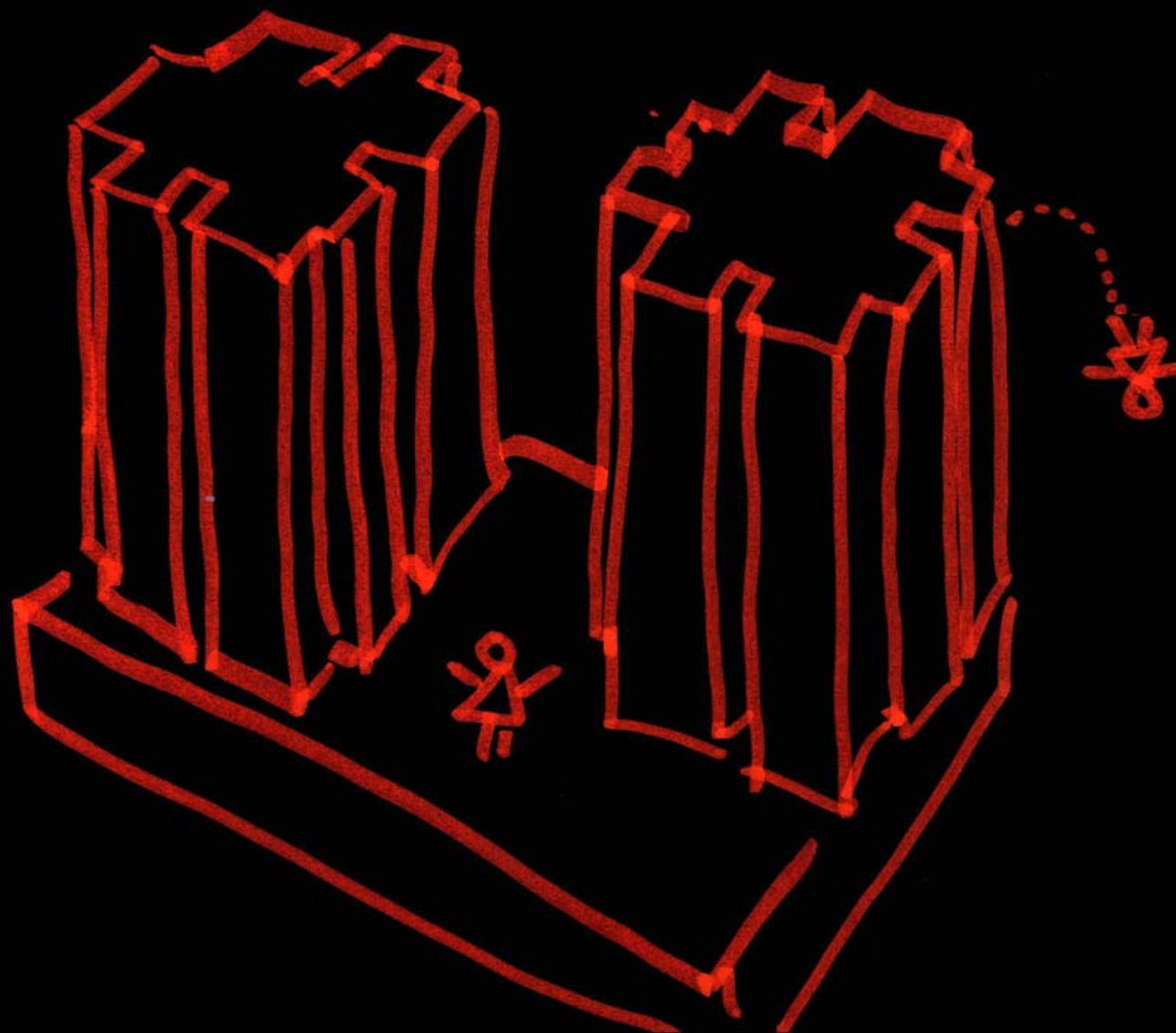
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Hong Kong Housing Authority

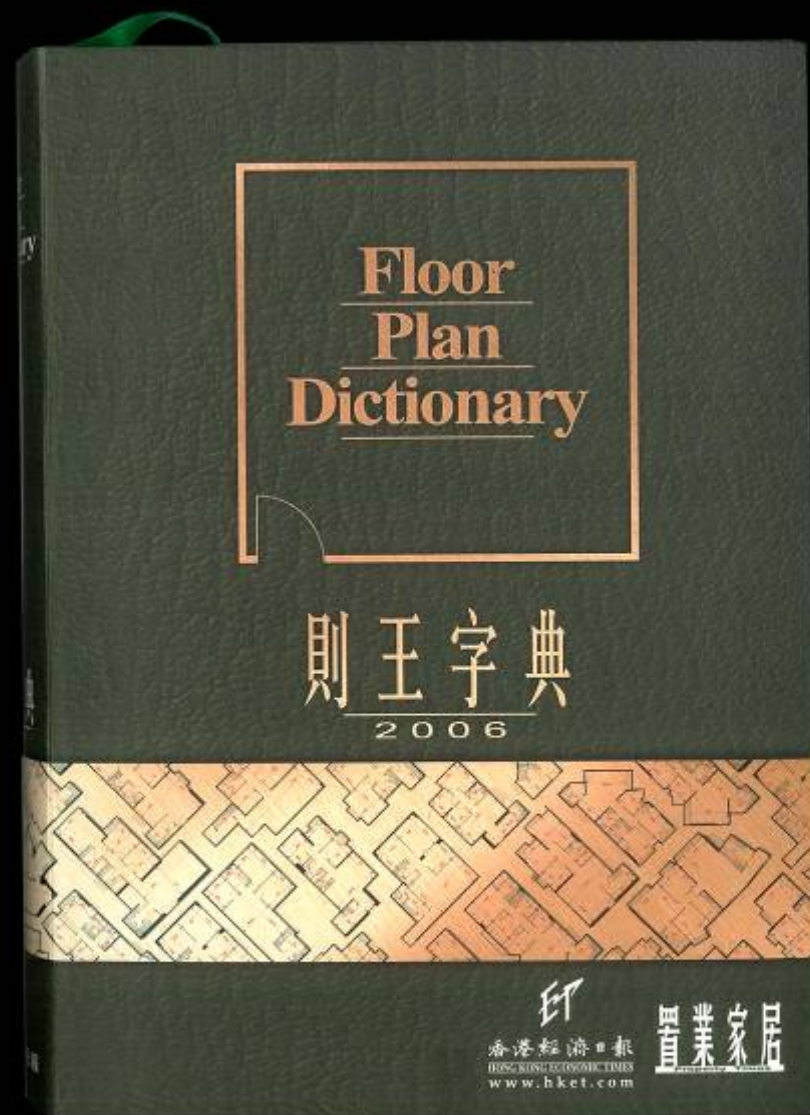
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EVOLUTION

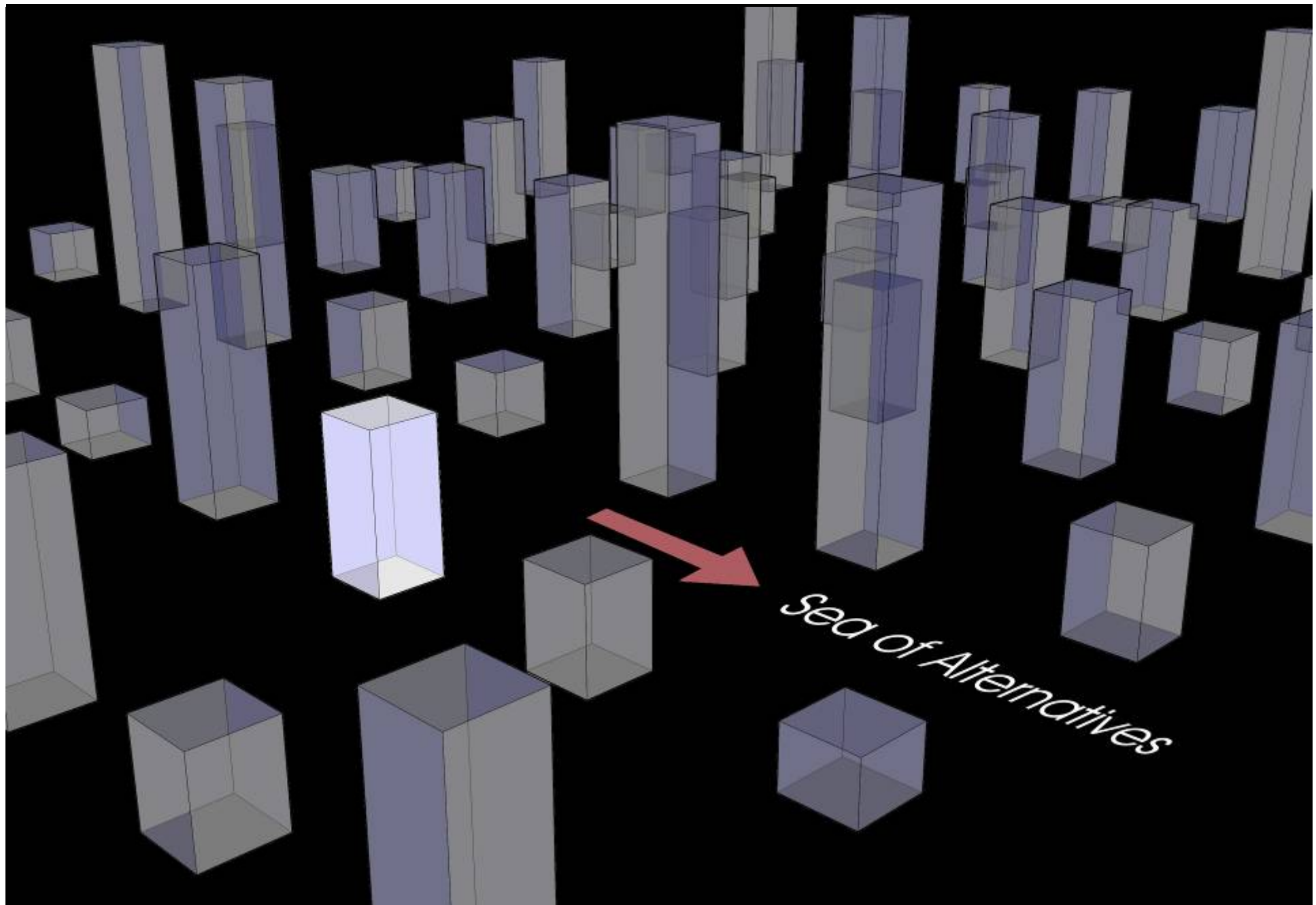
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Lateral thinking is concerned with restructuring such patterns (insight) and provoking new ones (creativity).

Edward De Bono

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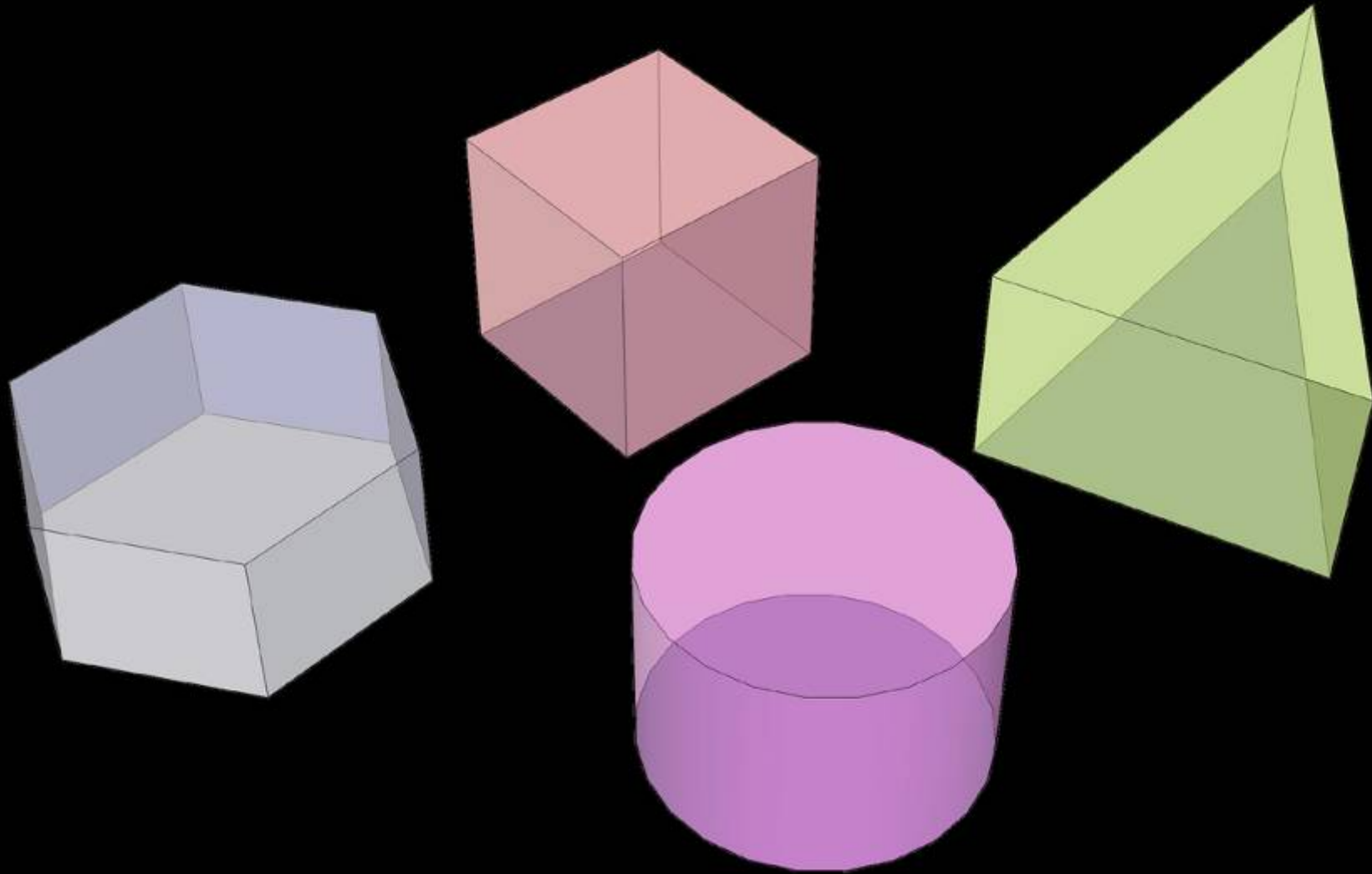


Sea of Alternatives

EVOLUTION

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Geometry



EVOLUTION

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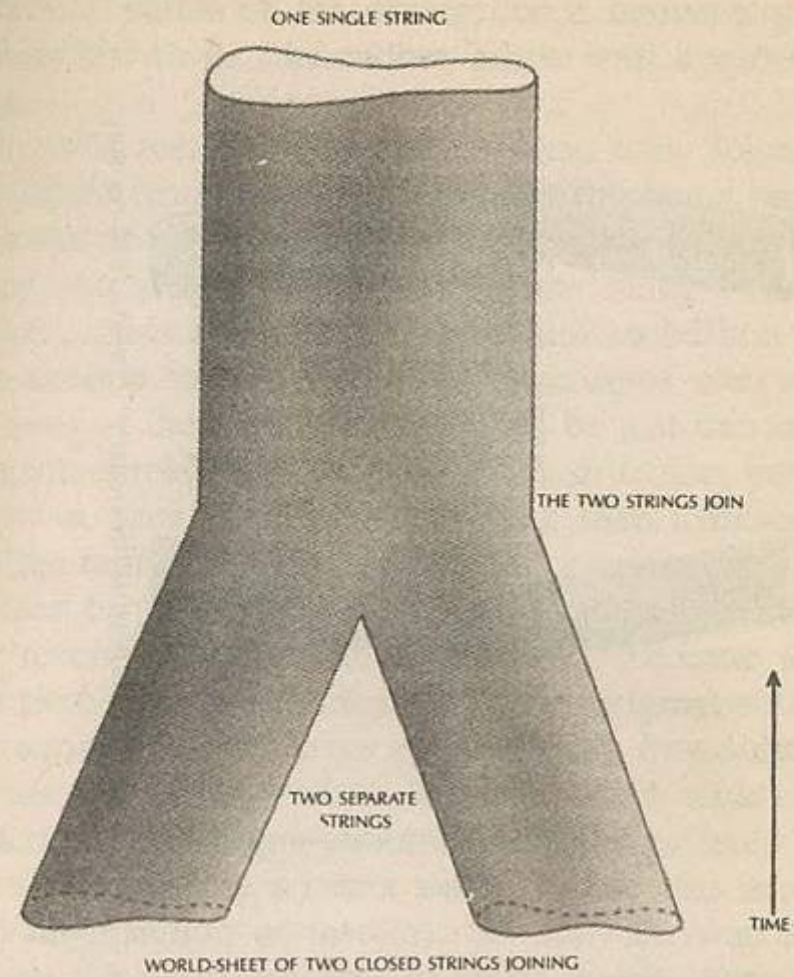
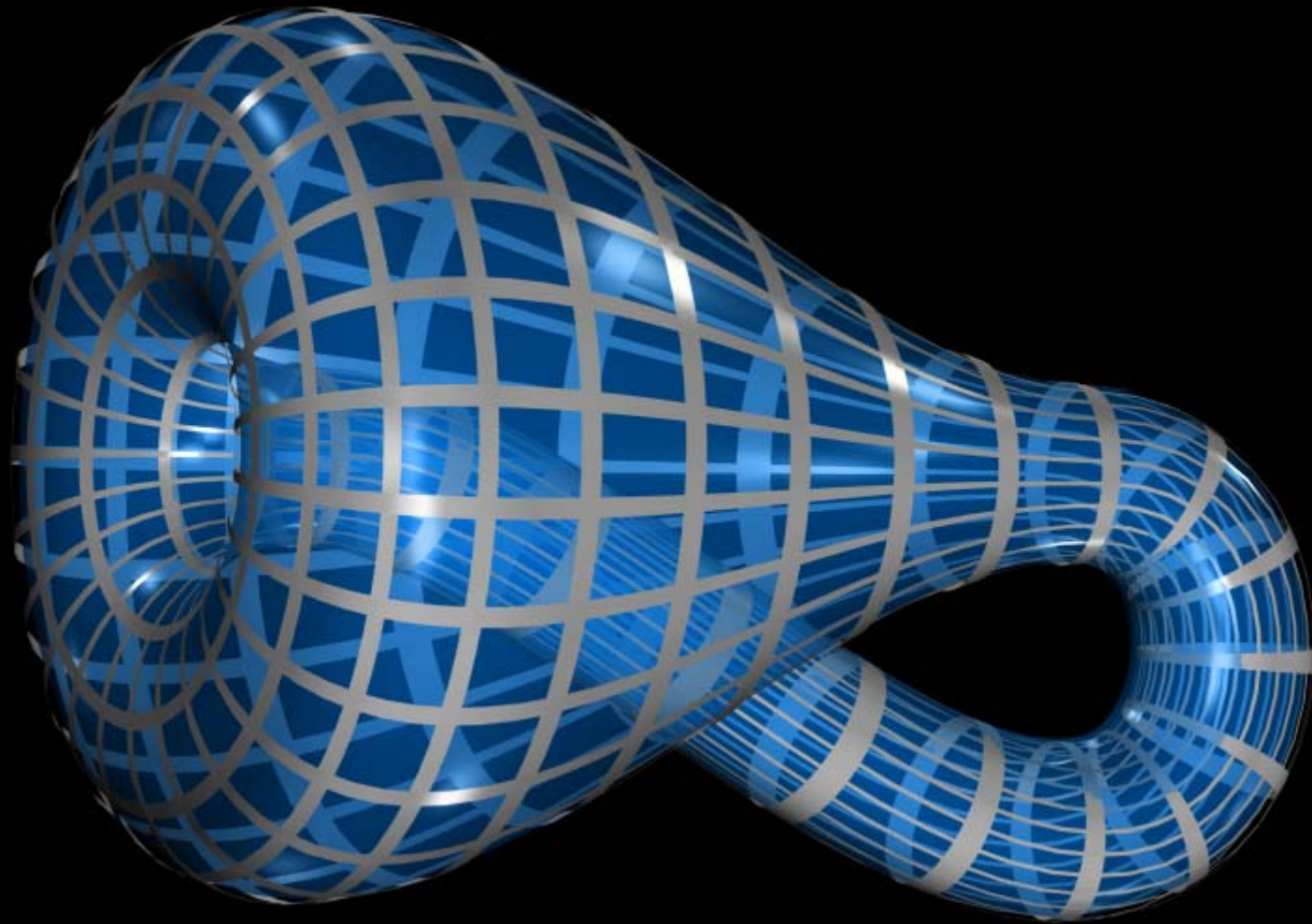


FIGURE 10.4

"Memory's images, once they are fixed in words, are erased," Polo said. Perhaps I am afraid of losing Venice all at once, if I speak of it. Or perhaps, speaking of other cities, I have already lost it, little by little.

EVOLUTION



EVOLUTION

Polo said.
Perhaps I am afraid of losing Venice and of not being able to speak of it. Or perhaps,
speaking of other cities, I have already lost it, little by little.

House of Multiple Dimension



THE MOBIUS STRIP

The Superstring Theory can be summarized as a new quantum field theory based on vibrating strings rather than point particles. In this theory, strings can collide, re-form, and create new strings, and matters are created out of these interactions. In describing such interactions a new geometry extending to multiple dimensions is required.

The **Möbius Strip** is one of such geometries. It represents the geometry of a single loop Feynman Diagram for colliding open strings.



A Möbius strip is a strip with only one side. It's formed by twisting a normal strip 180 degrees, then join it's ends together into a loop. An ant walking along the inside of the strip soon find itself walking along the outside.....



If a Möbius Strip is cut into half along it's center, it remains as 1 strip.

The end result of a cut Möbius strip is equivalent to a strip being twisted 360 degrees and joined to form a loop.



My design uses this **ultimate continuity** of the Möbius Strip as a generator. Programmes are packed into a Möbius Strip to form an unending loop of events.

Method of erection and materials are derived and applied using this property of **surface continuity**.

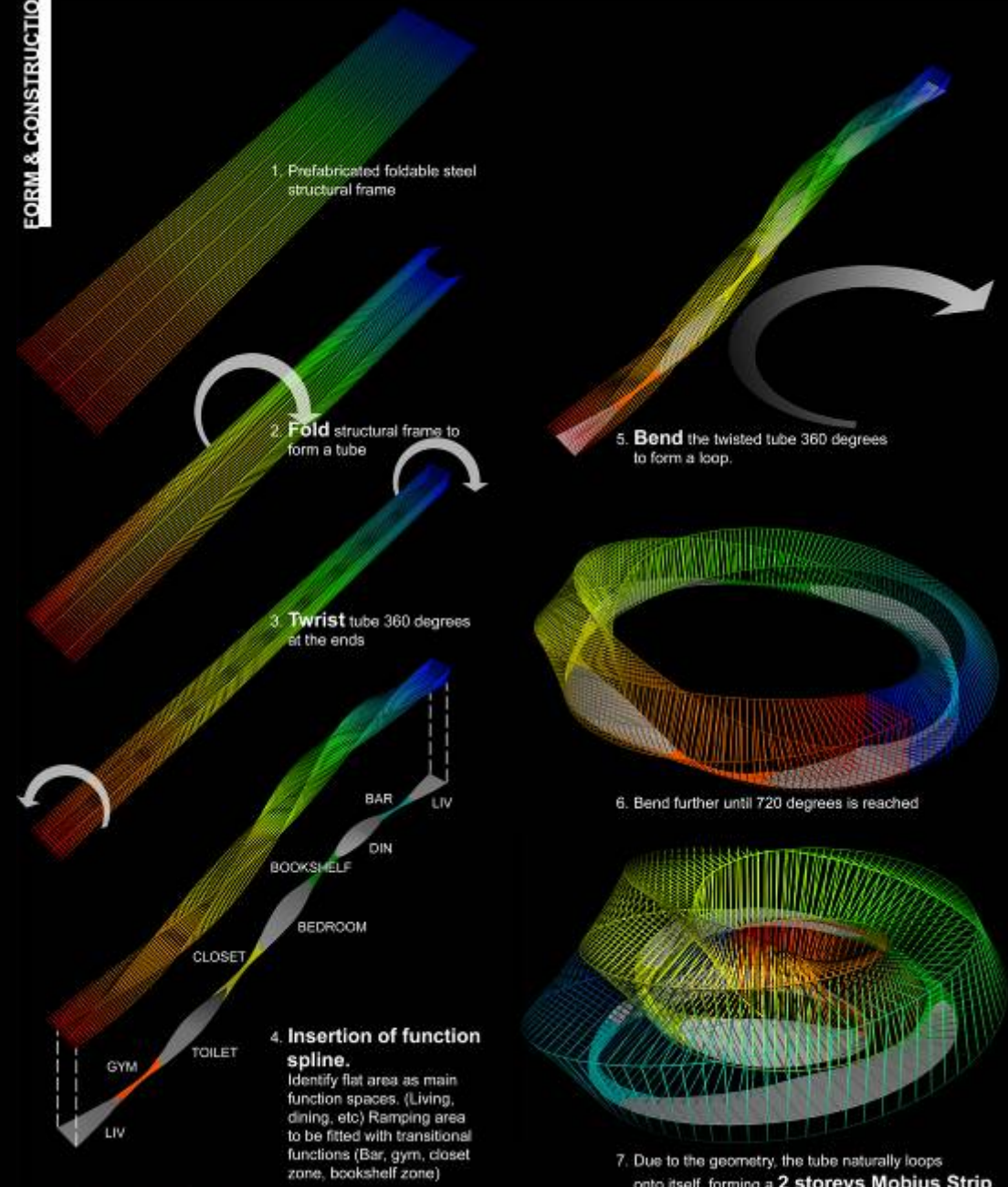


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EVOLUTION

House of Multiple Dimension

FORM & CONSTRUCTION



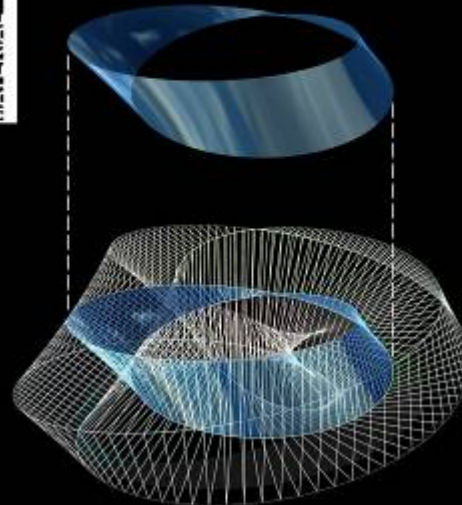
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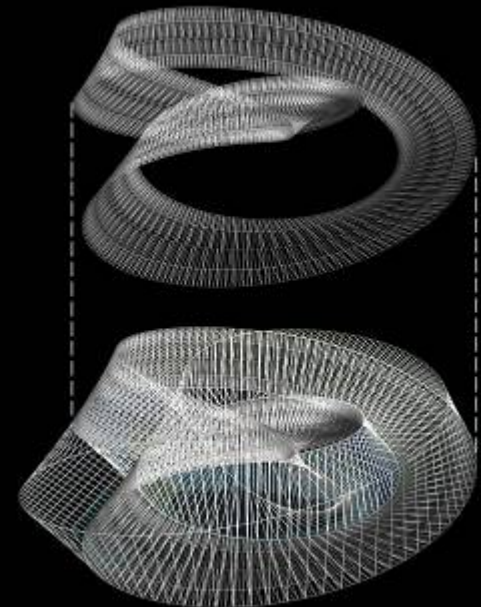
House of Multiple Dimension

Rolls of **flexible materials** are used to wrap around the house as **individual Mobius strips**. The 4 walls of the strip are wrapped in 4 different materials.

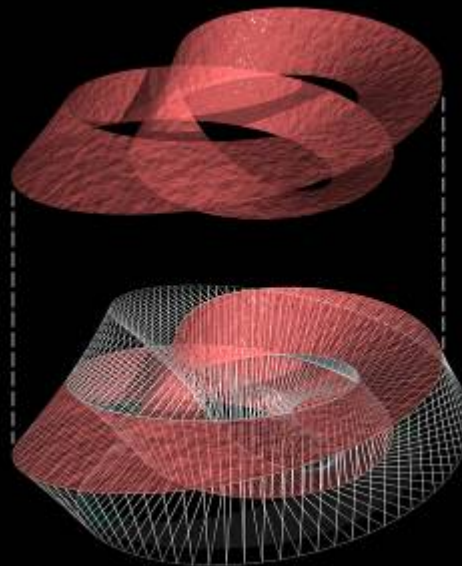
MATERIAL



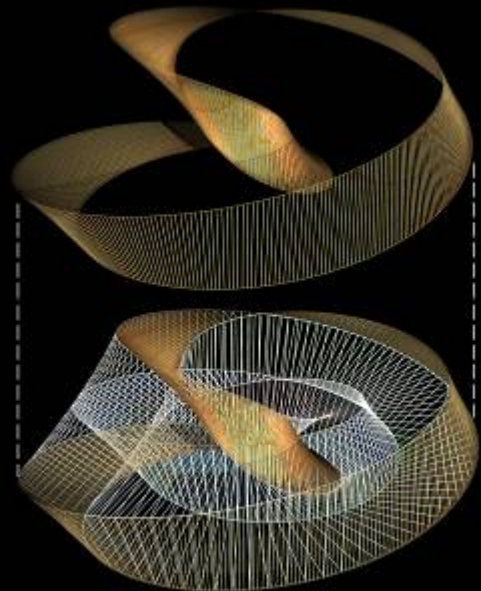
1. Transparant plastic sheet



3. Steel wire mesh



2. Translucent plastic sheet with 3-D bumps

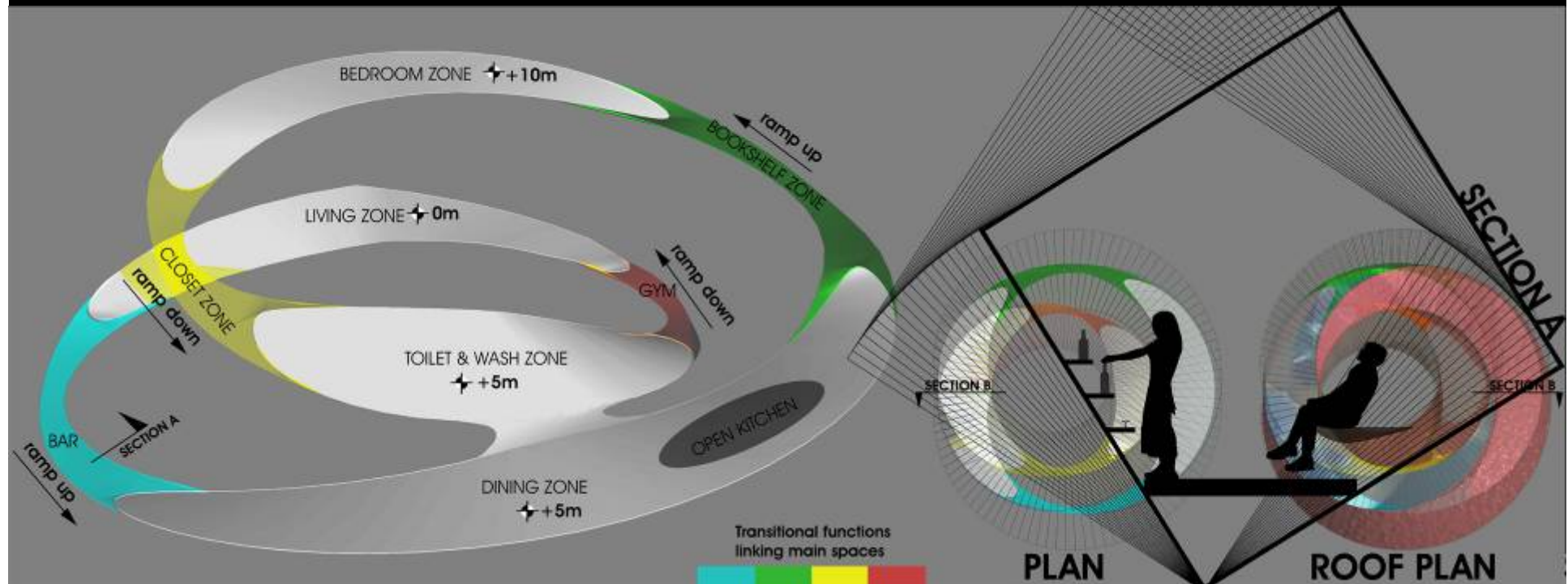


4. Roll of Bamboo

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EVOLUTION

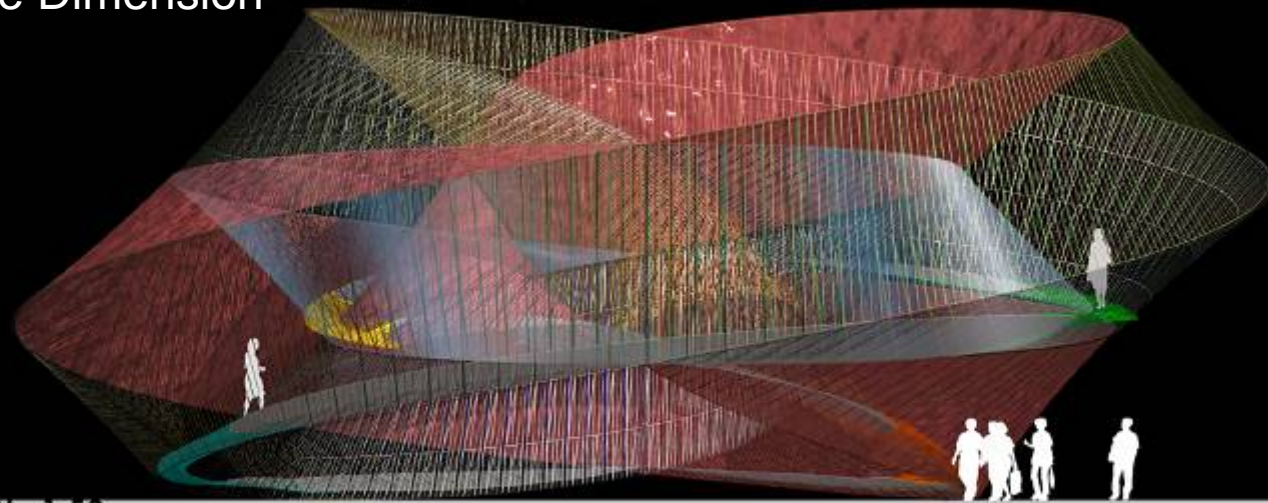
House of Multiple Dimension



EVOLUTION

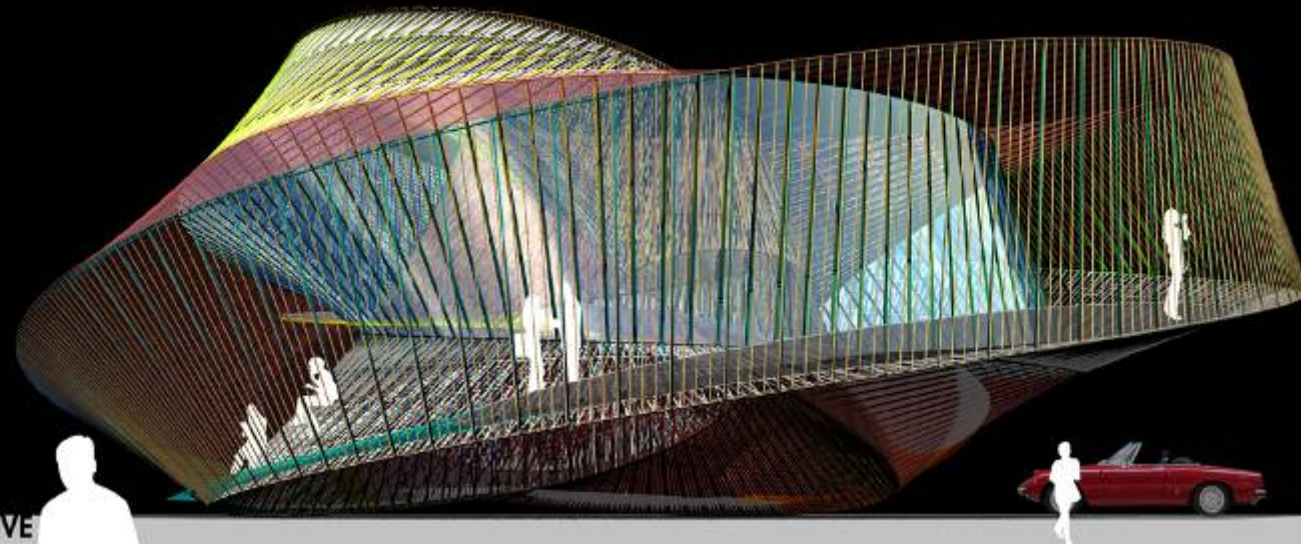
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House of Multiple Dimension



ELEVATION 1:50

A HOUSE OF ULTIMATE CONTINUITY IN PROGRAMME, MATERIAL, AND CONSTRUCTION.
IT HAS NO DOOR, NO INTERNAL PARTITION, NO STAIR, NO COLUMN.
IN THIS MOBIUS STRIP HOUSE, THE WALL, FLOOR, CEILING, STRUCTURE, WINDOW
ARE INDISTINGUISHABLE.... THEY ARE ALL FORMED BY THE SAME MOBIUS SURFACE

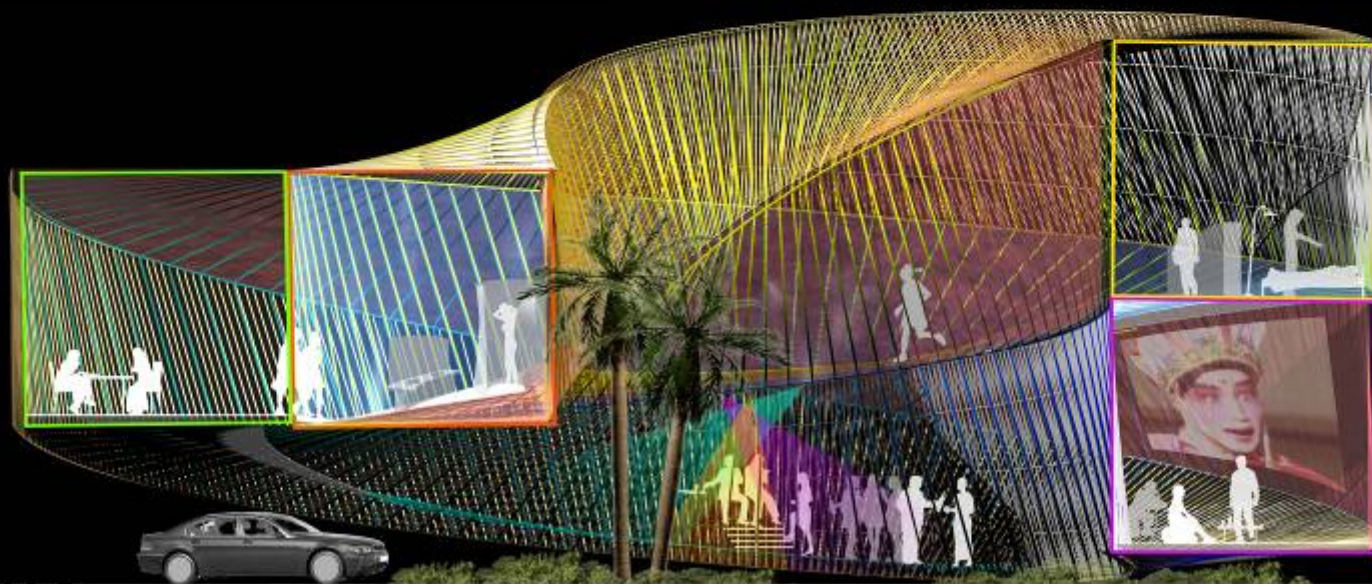
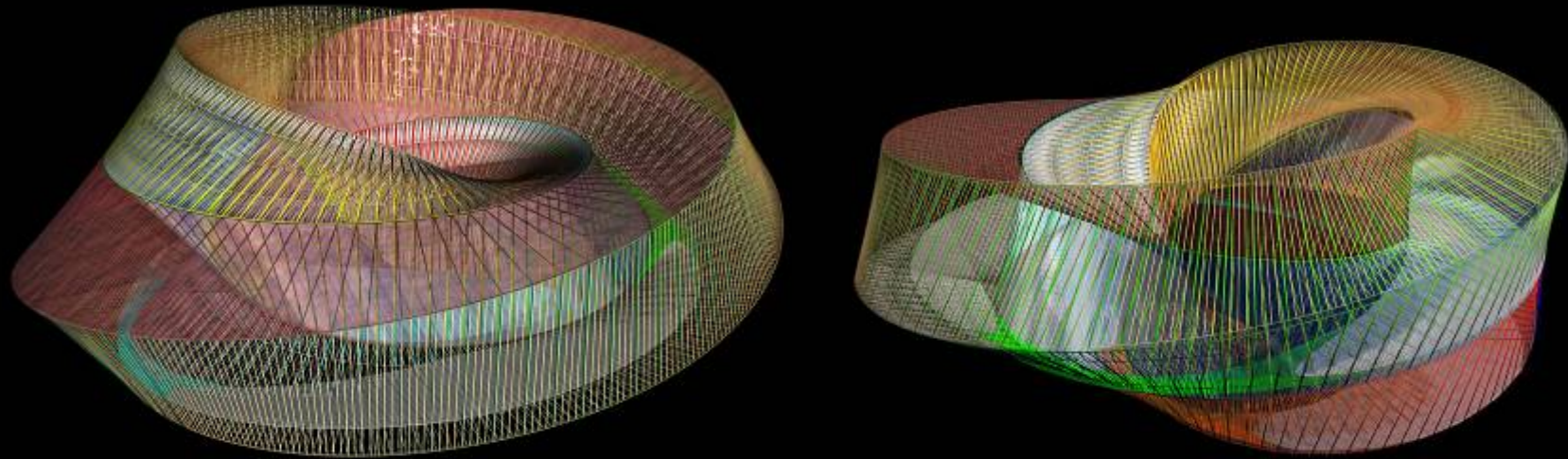


PERSPECTIVE

EVOLUTION

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House of Multiple Dimension



SECTION B

EVOLUTION

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House of Multiple Dimension

CLOSET ZONE

DINING ZONE

EVOLUTION

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URBAN PROBLEM



EVOLUTION

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LOCATION: ISLAND EASTERN CORRIDOR

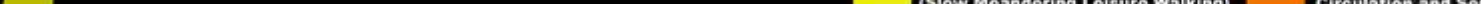




Re-Programme the Urban Desert as a Viewing Platform by Inserting *Event Ribbons*



THE PROGRAMME EQUATION

The Folding of Event Ribbons into an activity 'Knot'

- Ribbon 1 - Existing Flyover** (Fast Vehicular Traffic)
- Ribbon 2 - The Park Ribbon** (Slow Meandering Leisure Walking)
- Ribbon 3 - The Green Hypersurface** (Rooftop Garden allows free movement for dynamic perspectives of Victoria Harbour)
- Point Anchor - Immediate and Direct Circulation and Services**

- 
- | | |
|---|---|
|  Ribbon 1 - Existing Flyover
(Fast Vehicular Traffic) |  Ribbon 3 - The Green Hypersurface
(Rooftop Garden allows free movement for dynamic perspectives of Victoria Harbour) |
|  Ribbon 2 - The Park Ribbon
(Slow Meandering Leisure Walking) |  Point Anchor - Immediate and Direct
Circulation and Services |

PROGRAMME EQUATION



EXISTING
PROGRAMME
DISTRIBUTION
PATTERN

+

STAGE
street performance
spontaneous street performance
EXHIBITION / GALLERY
MOVIE
VIEWING
BAR RESTAURANT
CAFE OUTDOOR
WINE SEATING SNACK
ARTIST'S NIGHT MARKET
FISHING
TOURIST PIER
VIEWING DECK
VIEWING GARDEN
PROMENADE
PARK

NEW
PROGRAMME

=



NEW COMBINED
PROGRAMME
DISTRIBUTION
PATTERN

+



NEW
PROGRAMME
LAYER

-

SAND PIER
FEHD PIER
PARKING

OLD
PROGRAMME
TO BE
RELOCATED

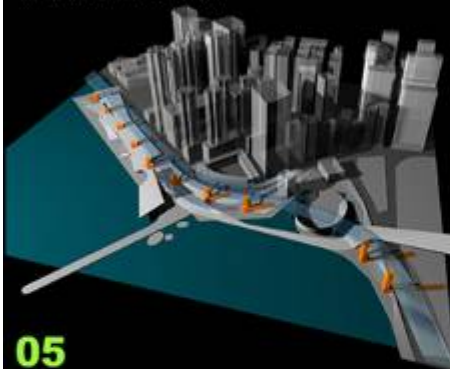
EVOLUTION

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PLANNING CONCEPT

01

the 'Urban Desert' by the sea?

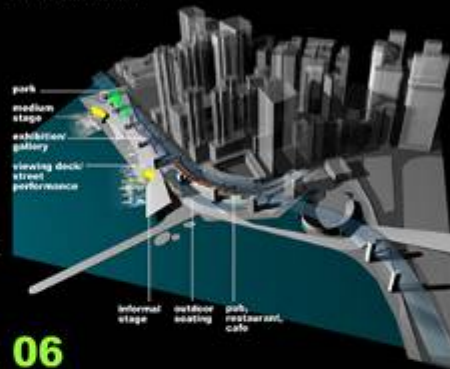


05

Quick Vertical Circulation Distributed along the Ribbon

02

Green Reclamation

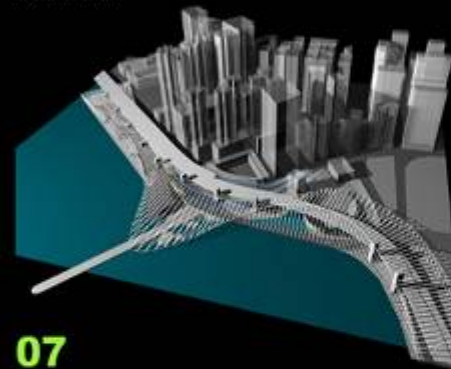


06

further injection of life

03

Injection of life

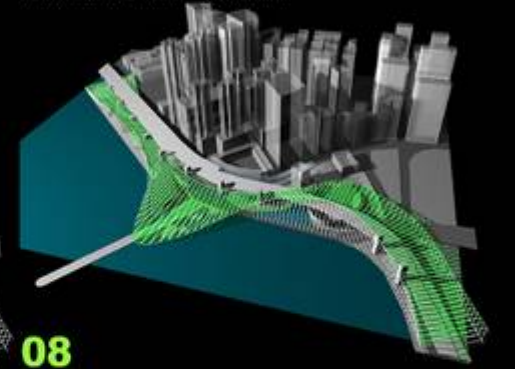


07

structure encloses activities

04

Park Ribbon - the leisure 'hypersurface'



08

Green Hypersurface - A Rooftop Viewing Park connecting to 'Park Ribbon'

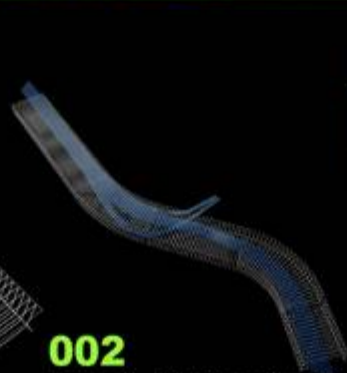
BY TWISTING,



STRUCTURAL CONCEPT

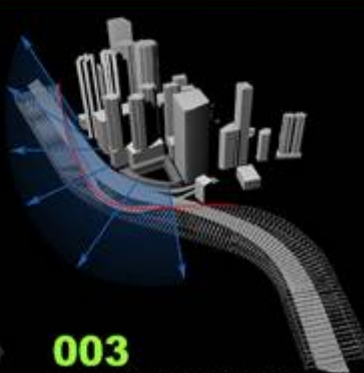
001

A basic tube



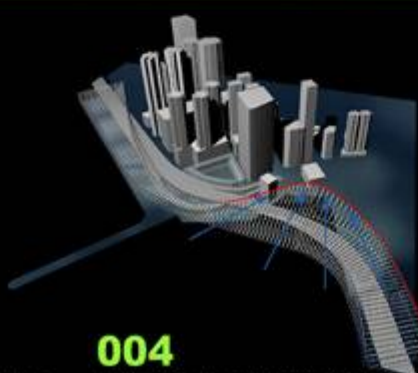
002

Force 1 - bridge geometry



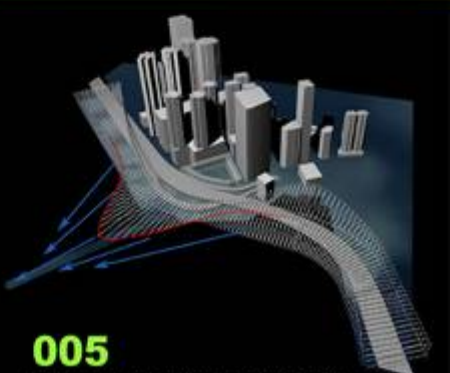
003

Force 2 - Prescribed Window Angle



004

Force 3 - To enclose the 'bay'



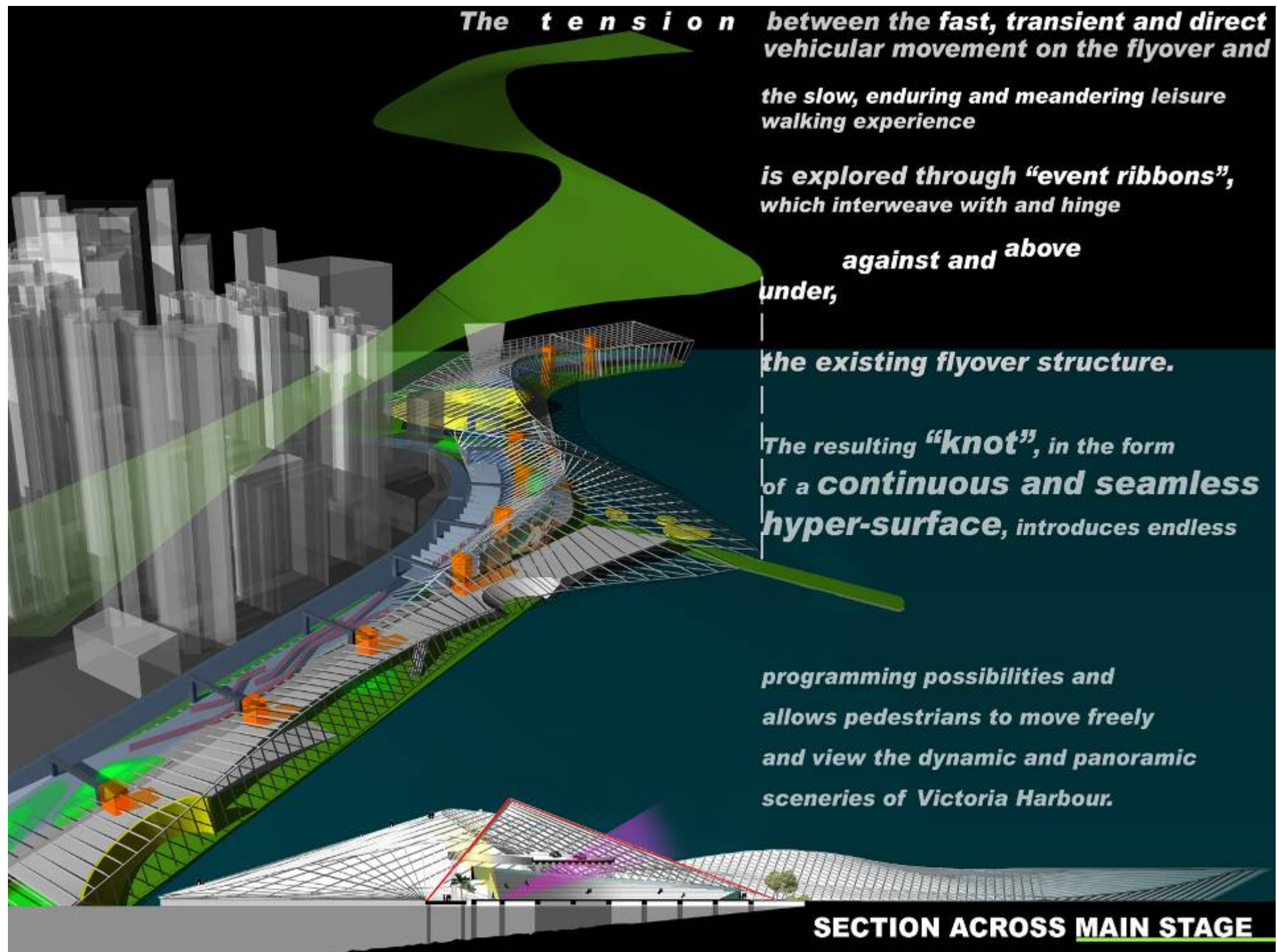
005

Force 4 - To reach out for the pier



Through the **Addition, Redistribution and Reconfiguration**
of programme, a Montage of
Active and Passive
events is created and Layered together

SECTION ACROSS F&B ZONE



The **t e n s i o n** between the fast, transient and direct vehicular movement on the flyover and the slow, enduring and meandering leisure walking experience

is explored through “event ribbons”, which interweave with and hinge

against and above under,

the existing flyover structure.

The resulting “knot”, in the form of a **continuous and seamless hyper-surface**, introduces endless

programming possibilities and allows pedestrians to move freely and view the dynamic and panoramic sceneries of Victoria Harbour.

SECTION ACROSS MAIN STAGE



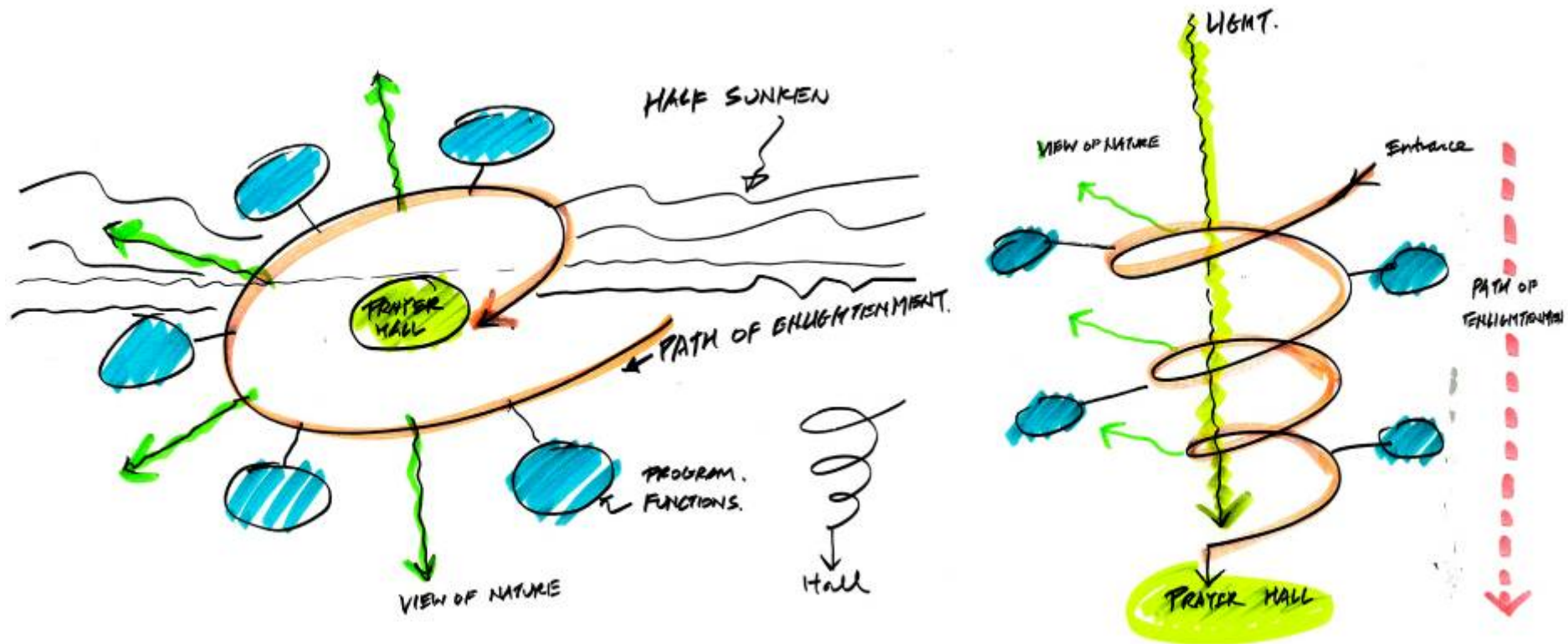
LIGHT



EVOLUTION

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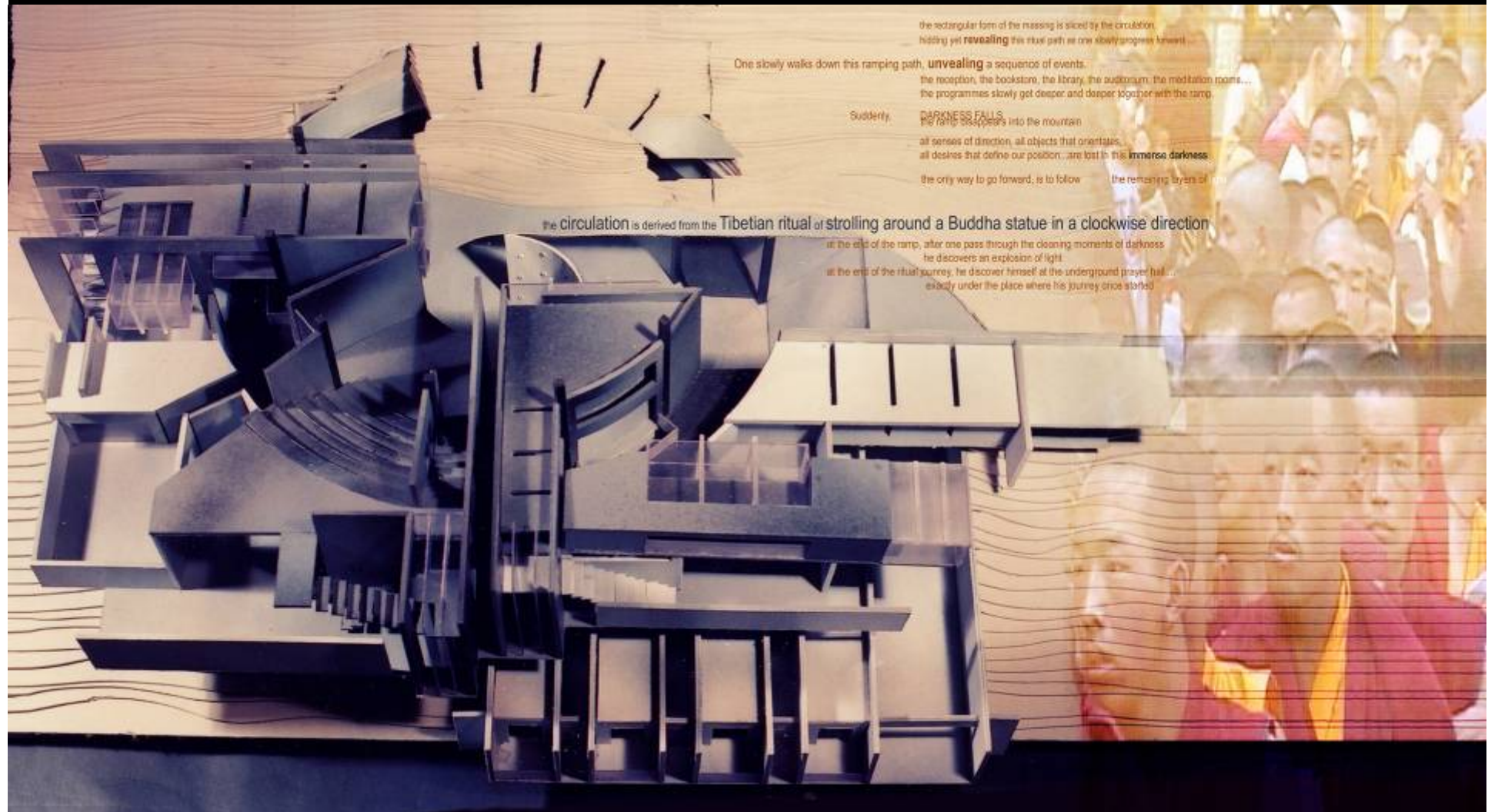
Monastery of Layered Light



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Monastery of Layered Light



the rectangular form of the massing is sliced by the circulation, hiding yet **revealing** this true path as one slowly progress forward...

One slowly walks down this ramping path, **unveiling** a sequence of events: the reception, the bookstore, the library, the auditorium, the meditation rooms... the programmes slowly get deeper and deeper together with the ramp.

Suddenly, **DARKNESS FALLS** the ramp disappears into the mountain
all senses of direction, all objects that orientates, all desires that define our position... are lost in this **immense darkness**.
the only way to go forward, is to follow the remaining layers of light

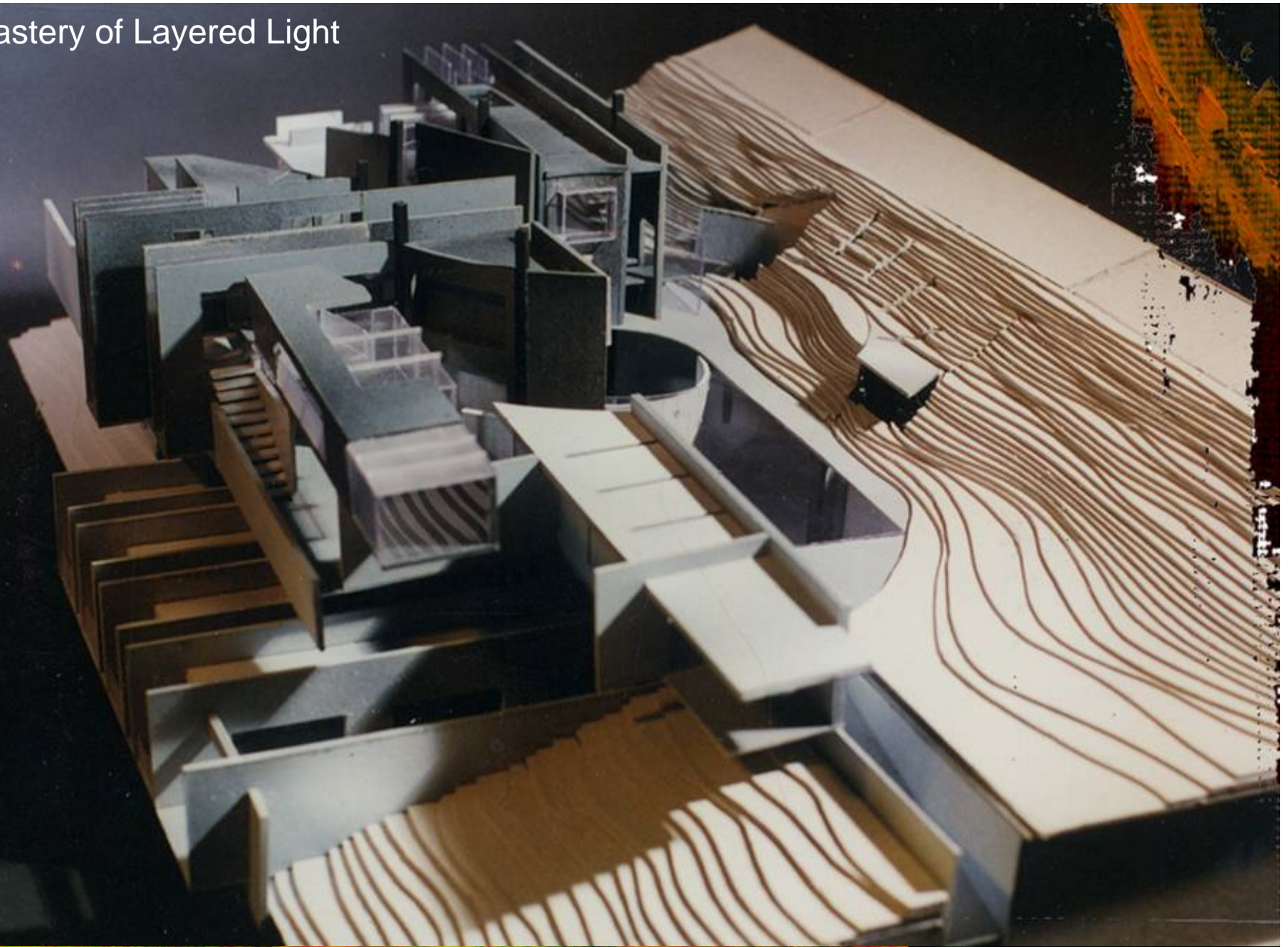
the circulation is derived from the Tibetan ritual of strolling around a Buddha statue in a clockwise direction

at the end of the ramp, after one pass through the cleansing moments of darkness he discovers an explosion of light
at the end of the ritual journey, he discover himself at the underground prayer hall... exactly under the place where his journey once started

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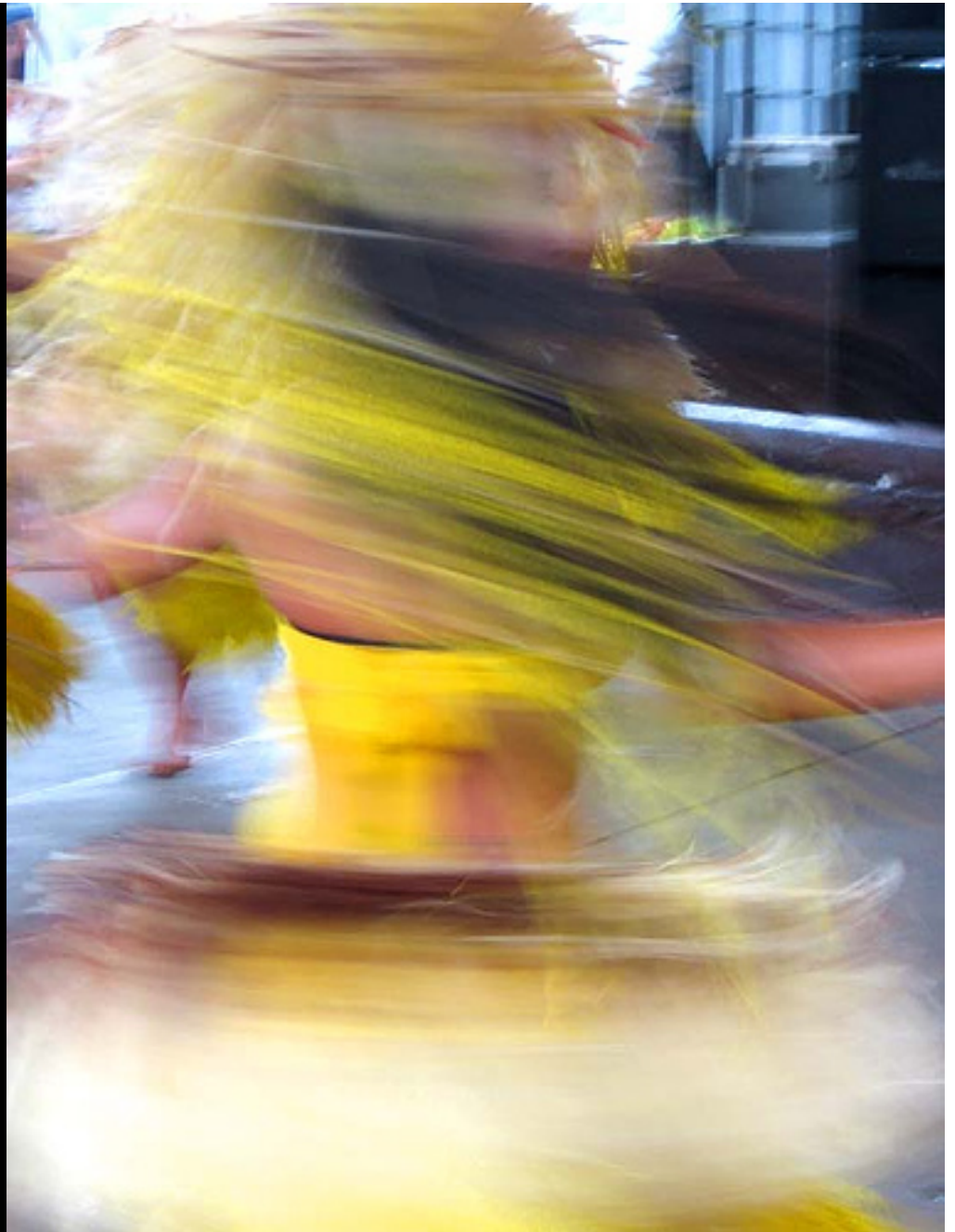
Monastery of Layered Light



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MOVEMENT



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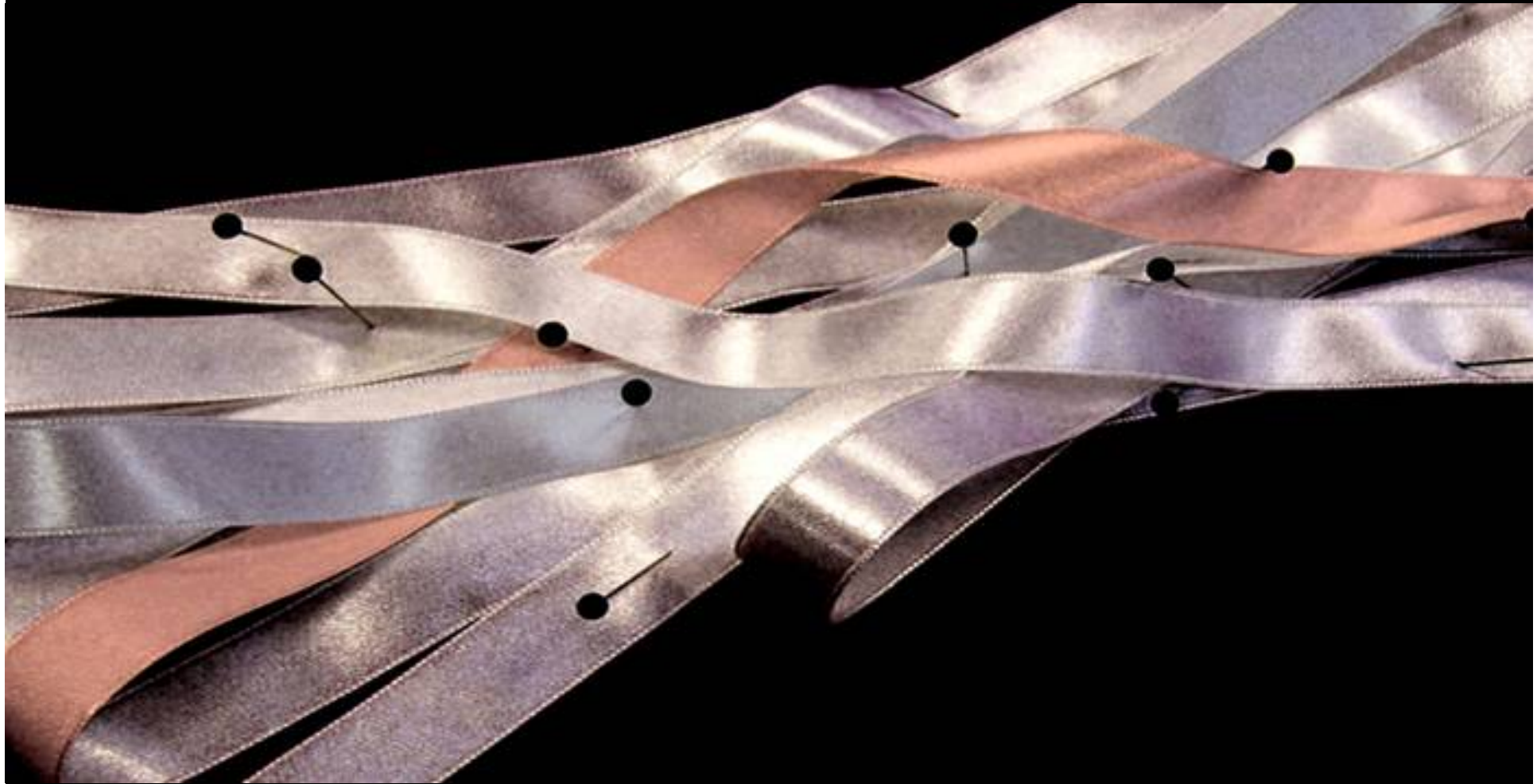
The Cruise Terminal as Interweaving Ribbons



EVOLUTION

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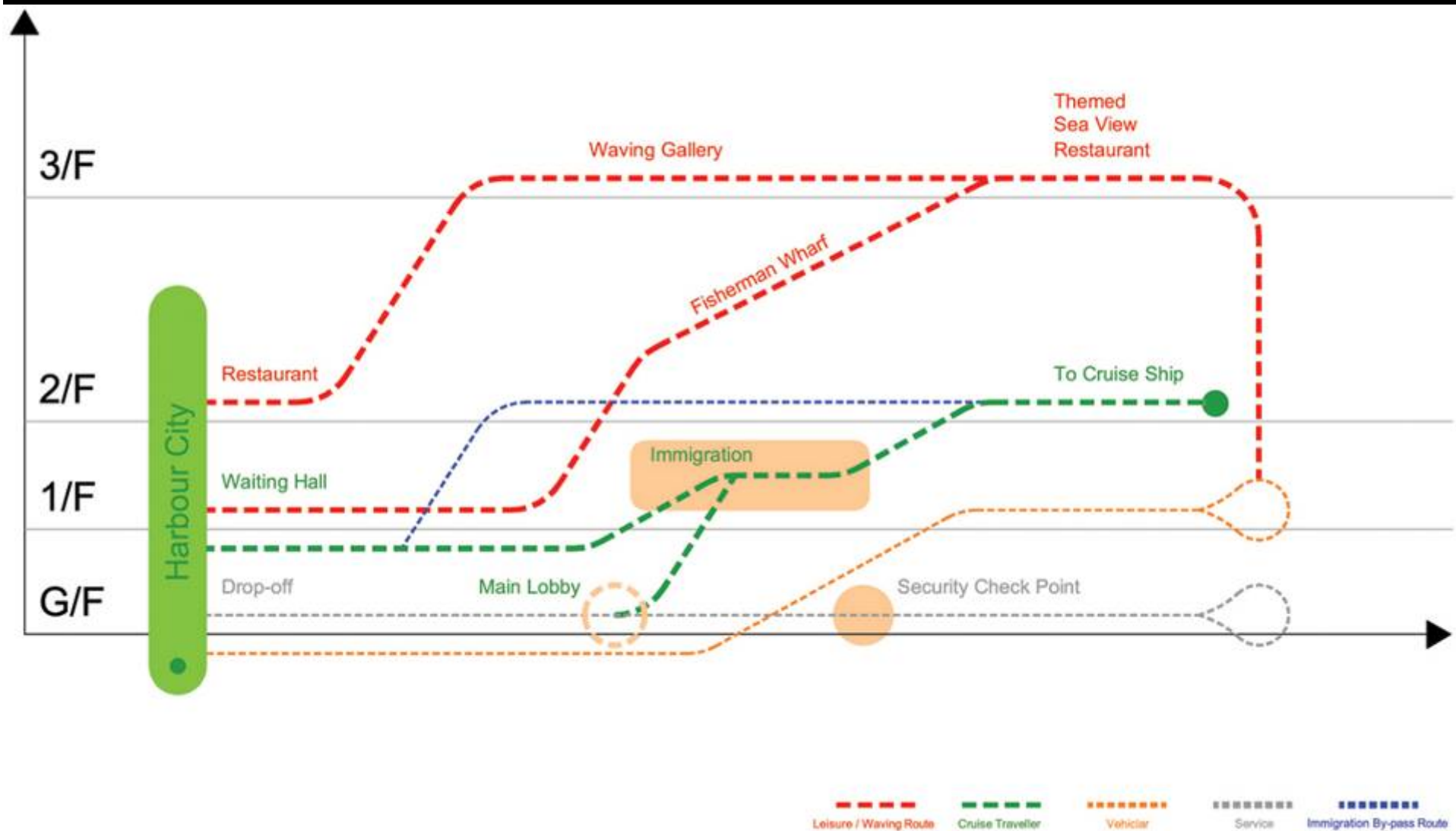
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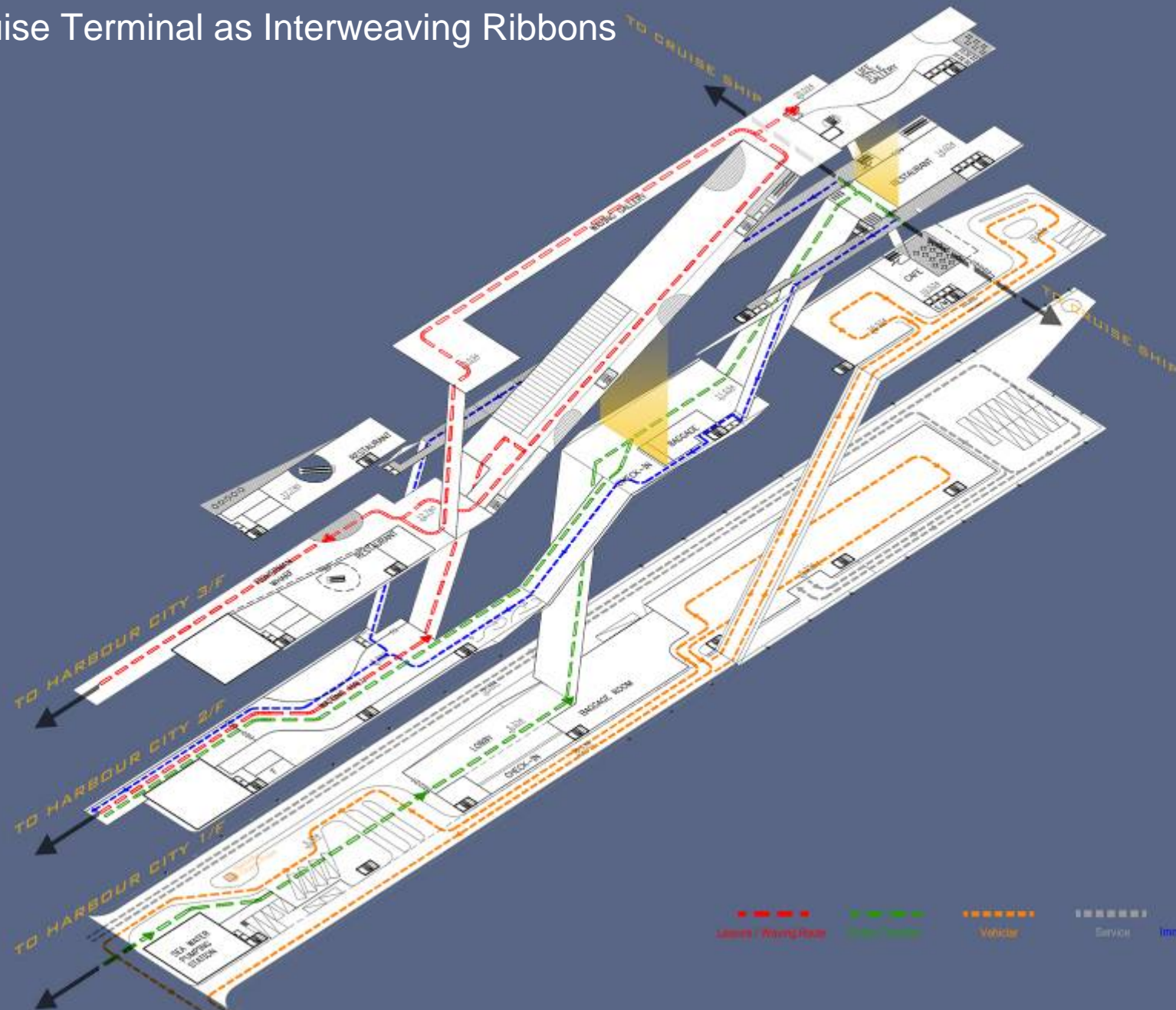
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ENVIRONMENT

EVOLUTION

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EVOLUTION

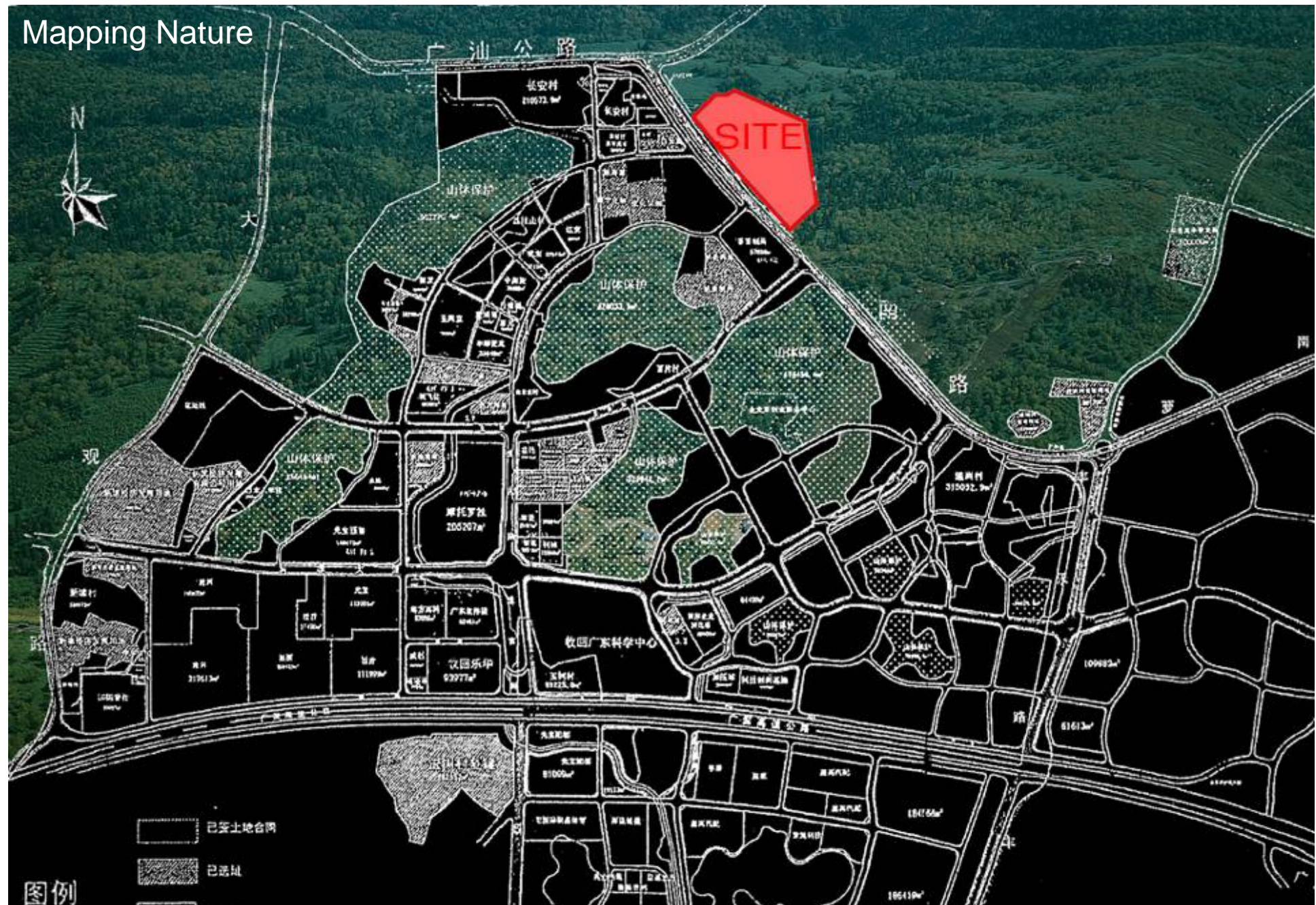
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Mapping Nature



图例

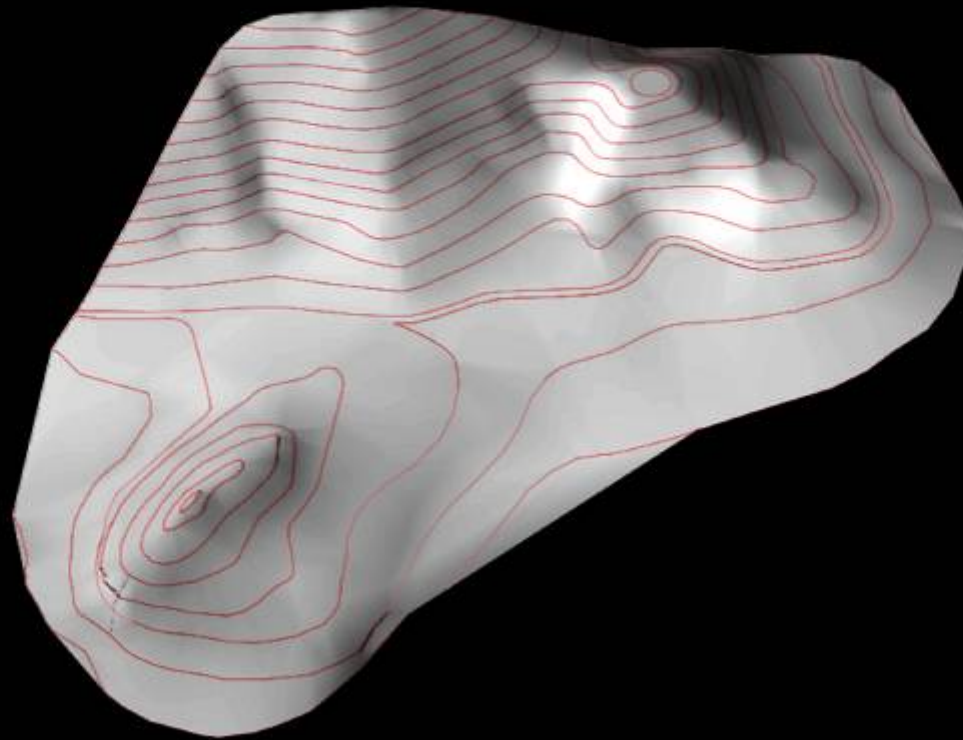
已交土地合同

已选址

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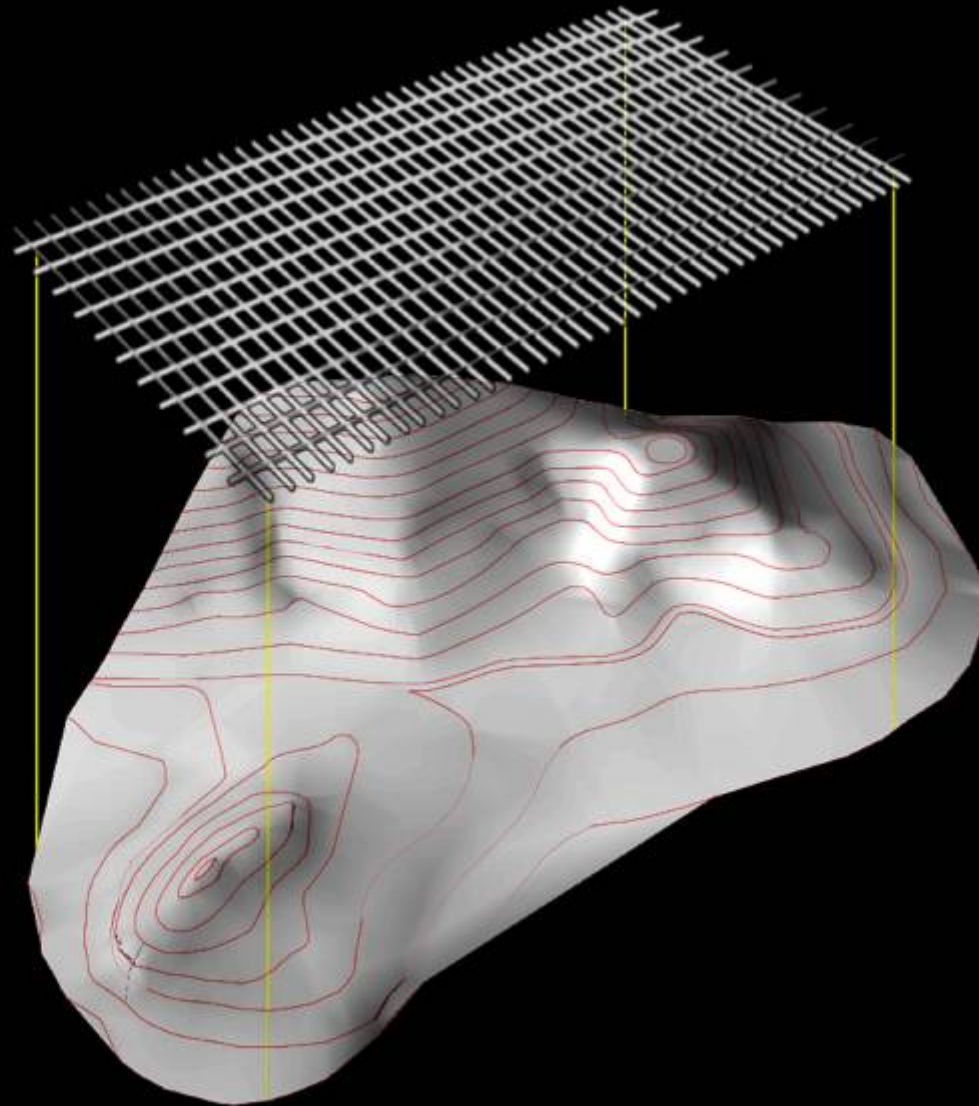
Mapping Nature



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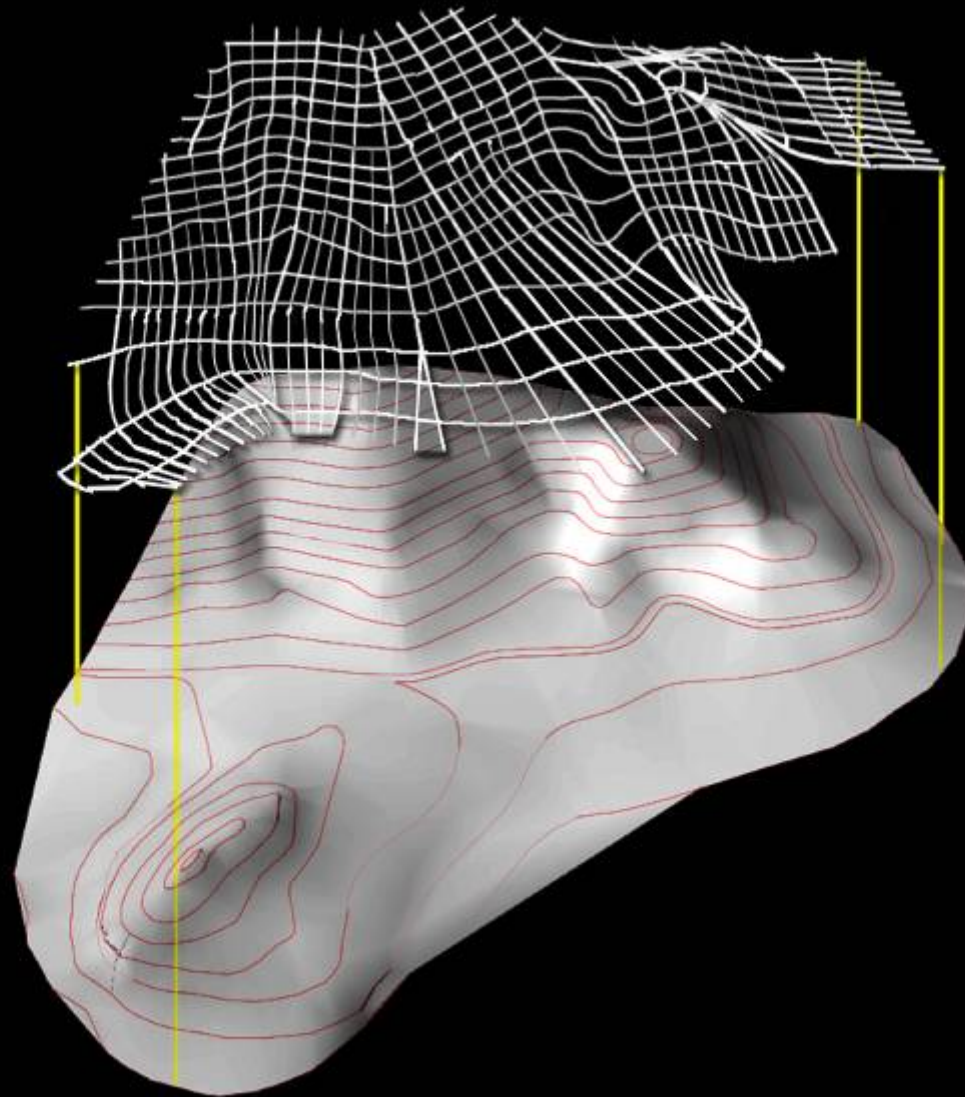
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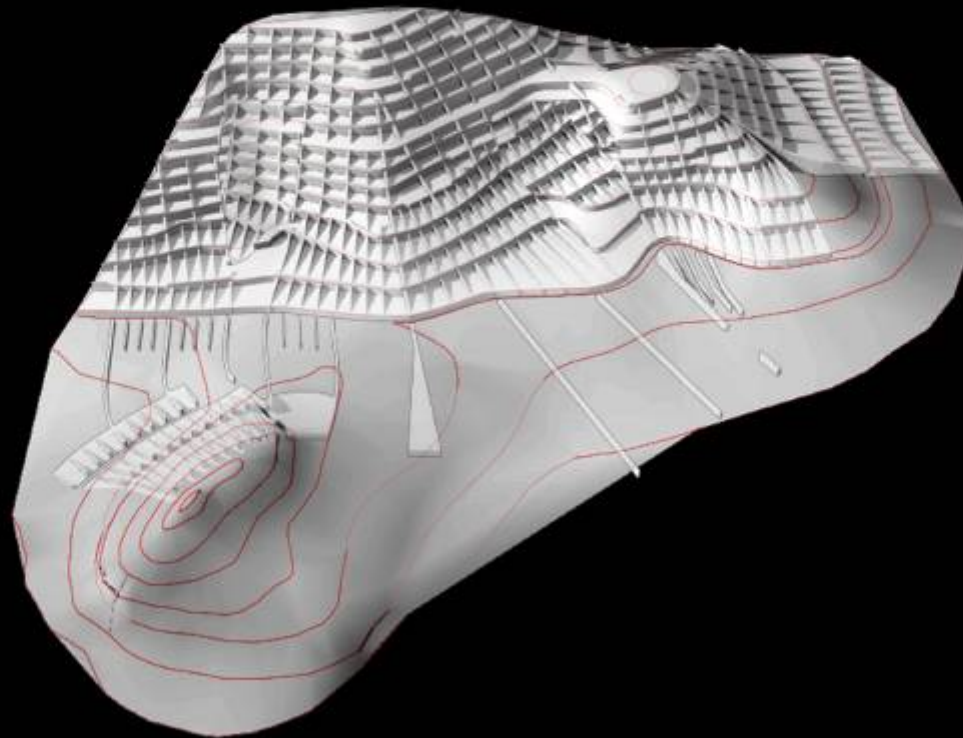
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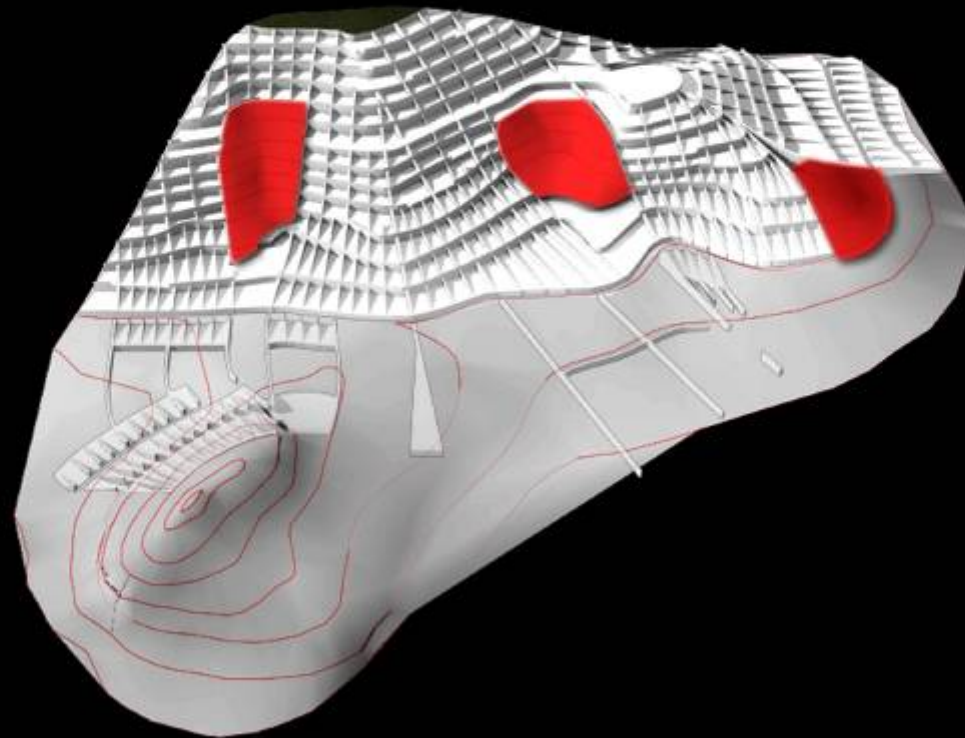
Mapping Nature



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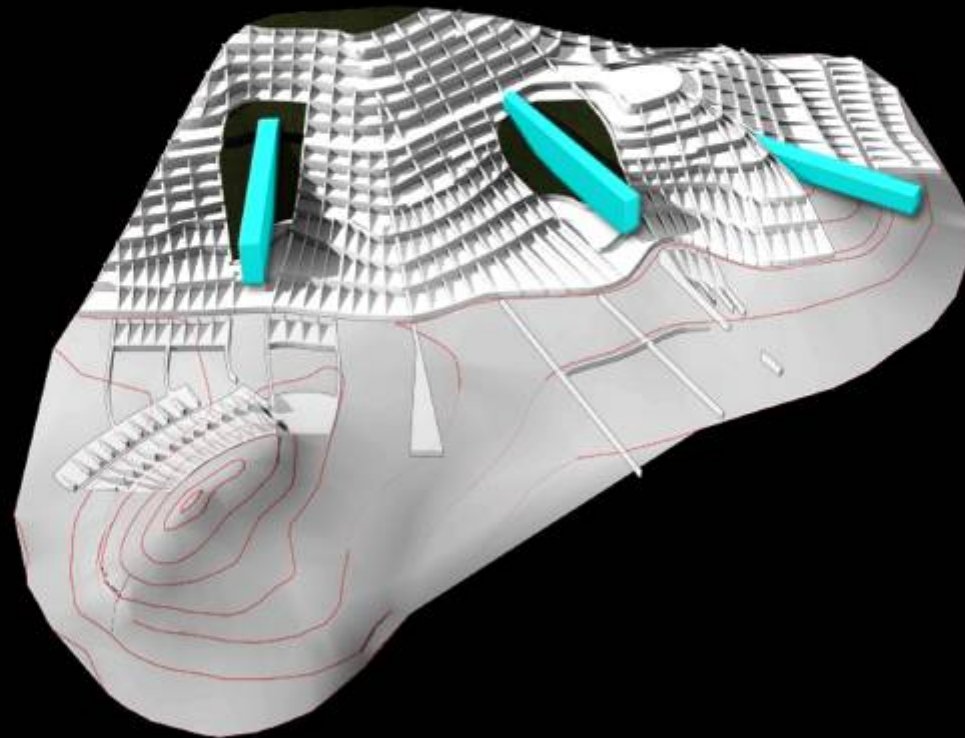
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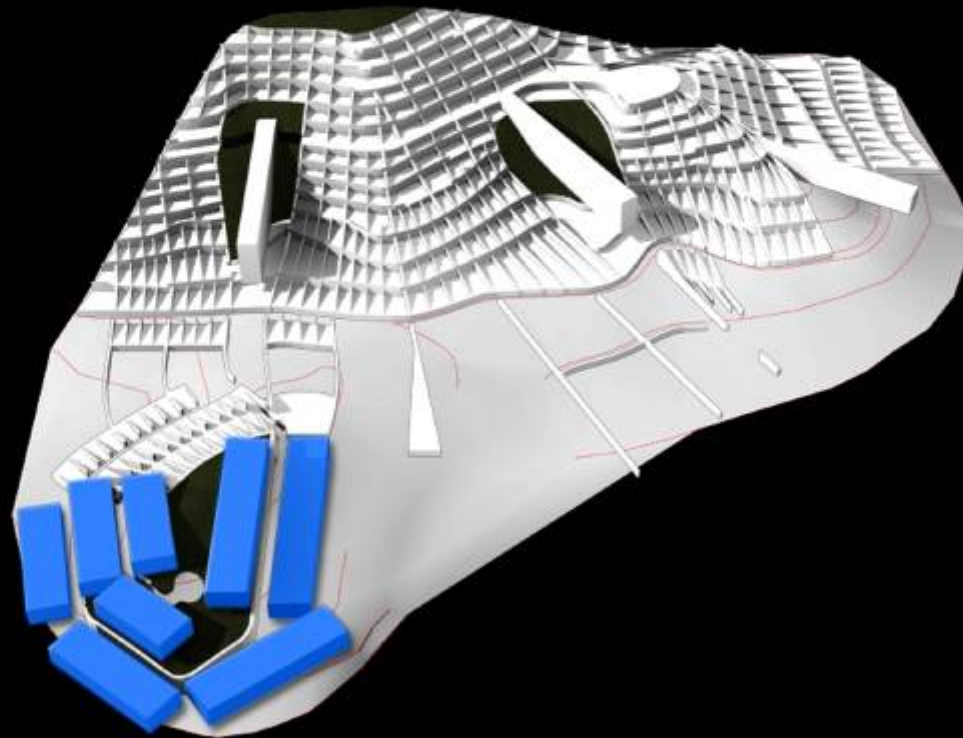
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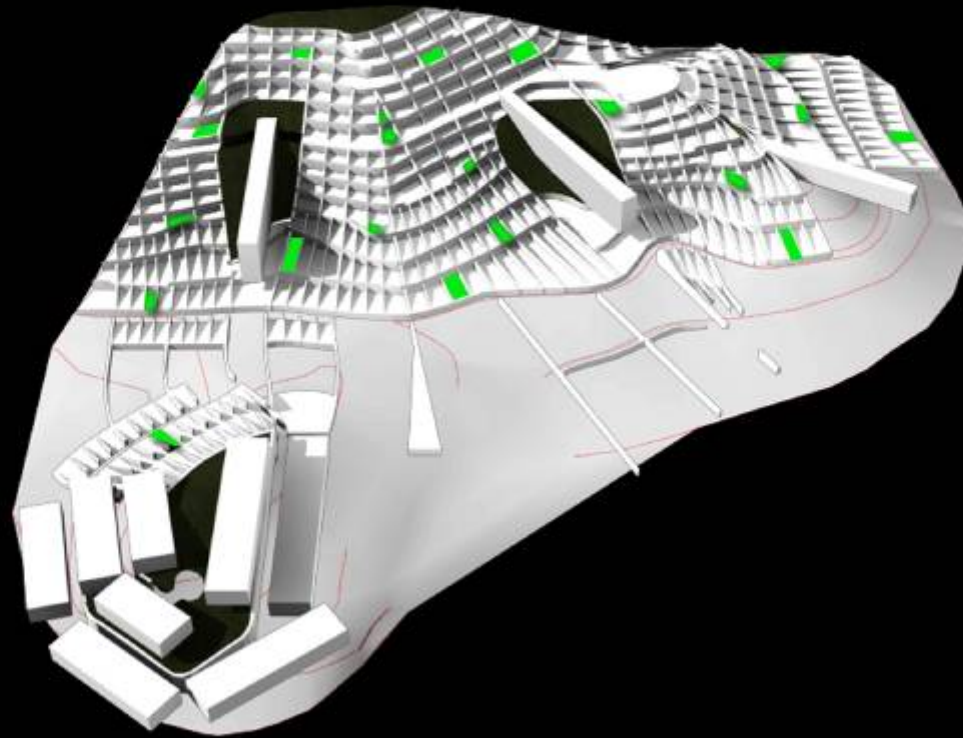
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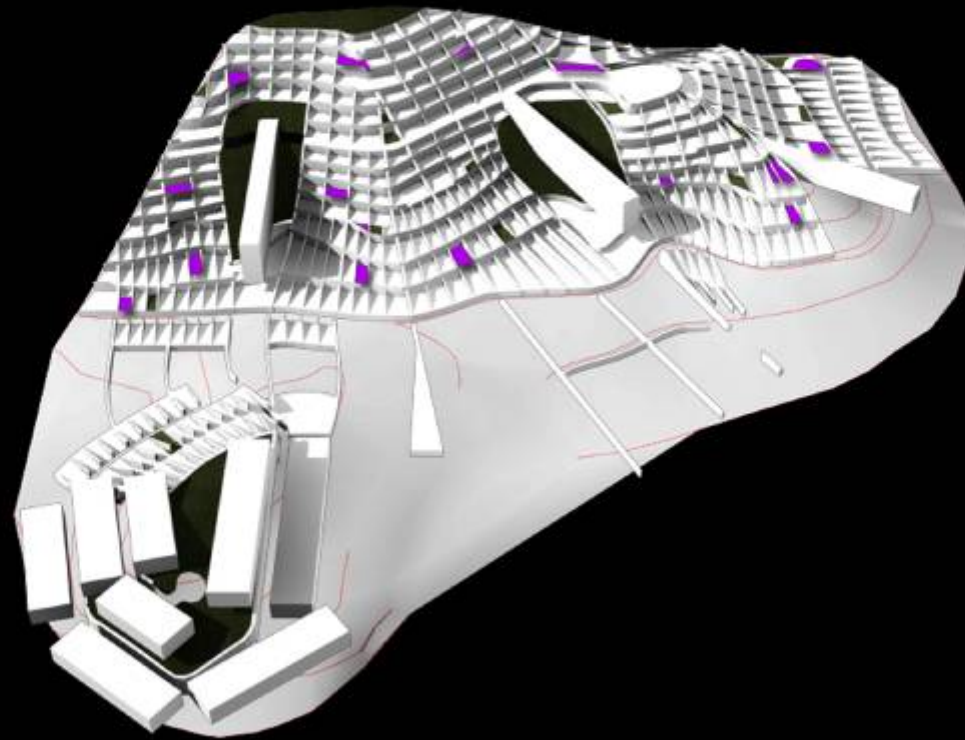
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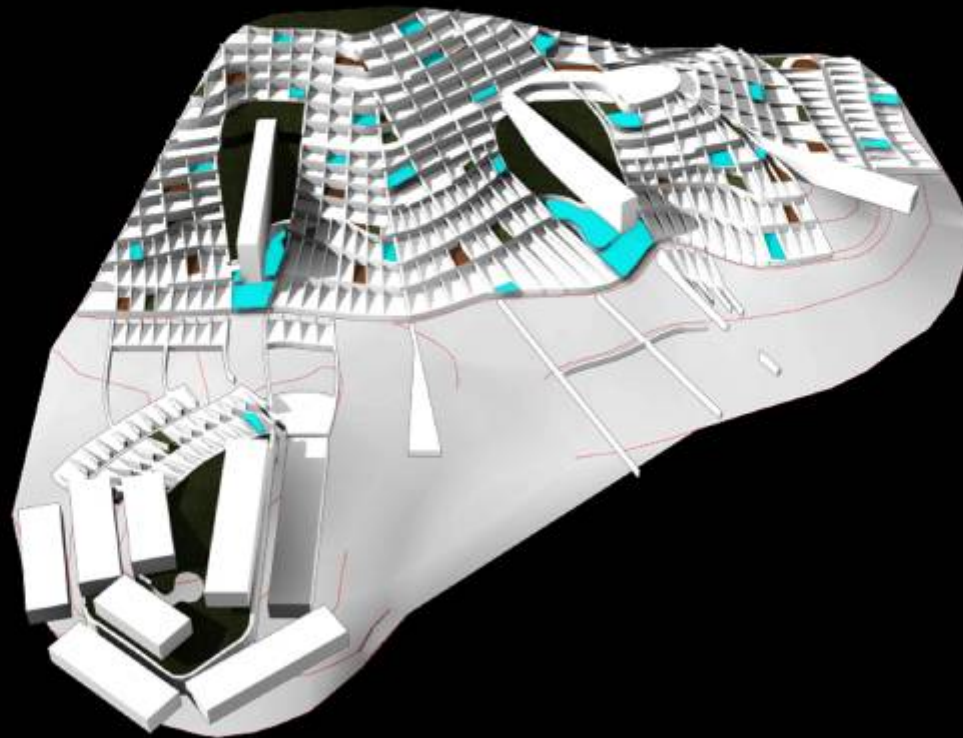
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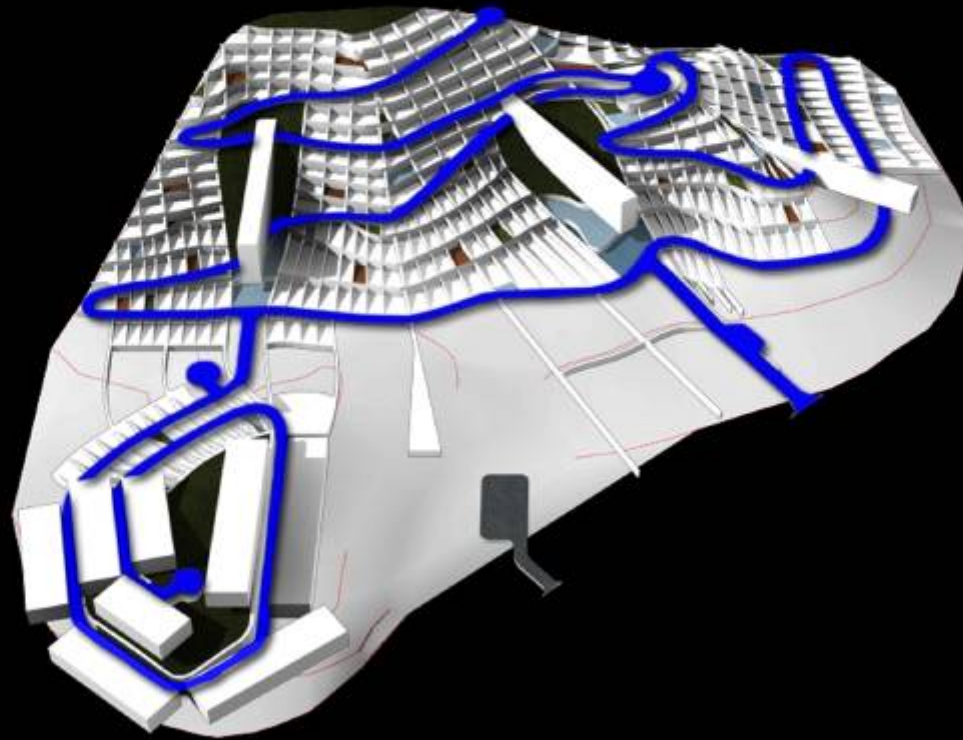
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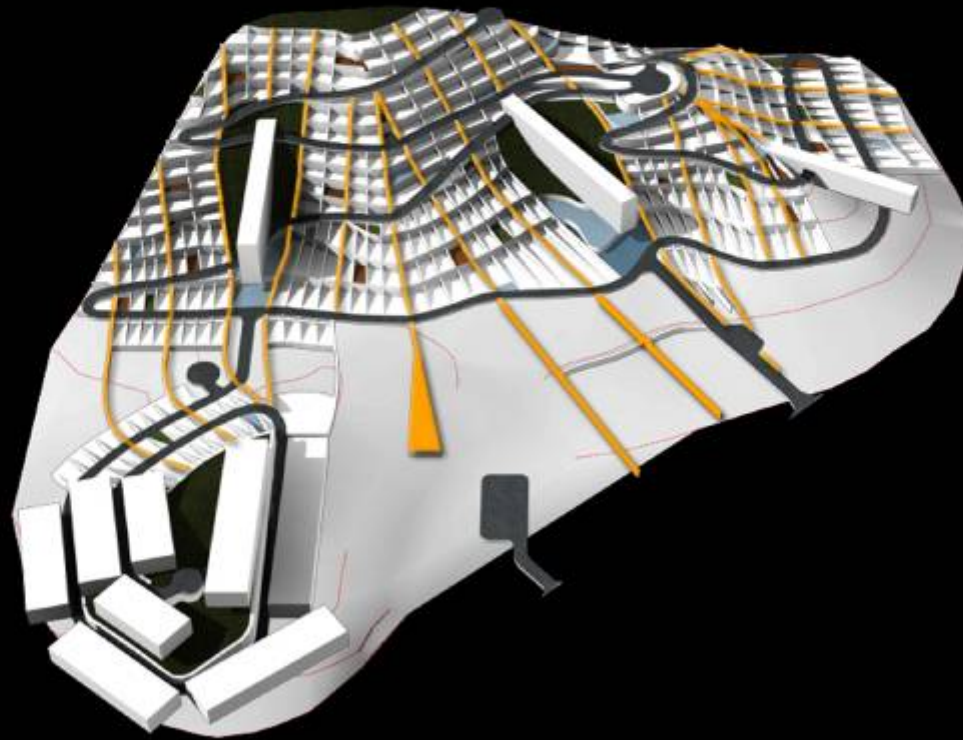
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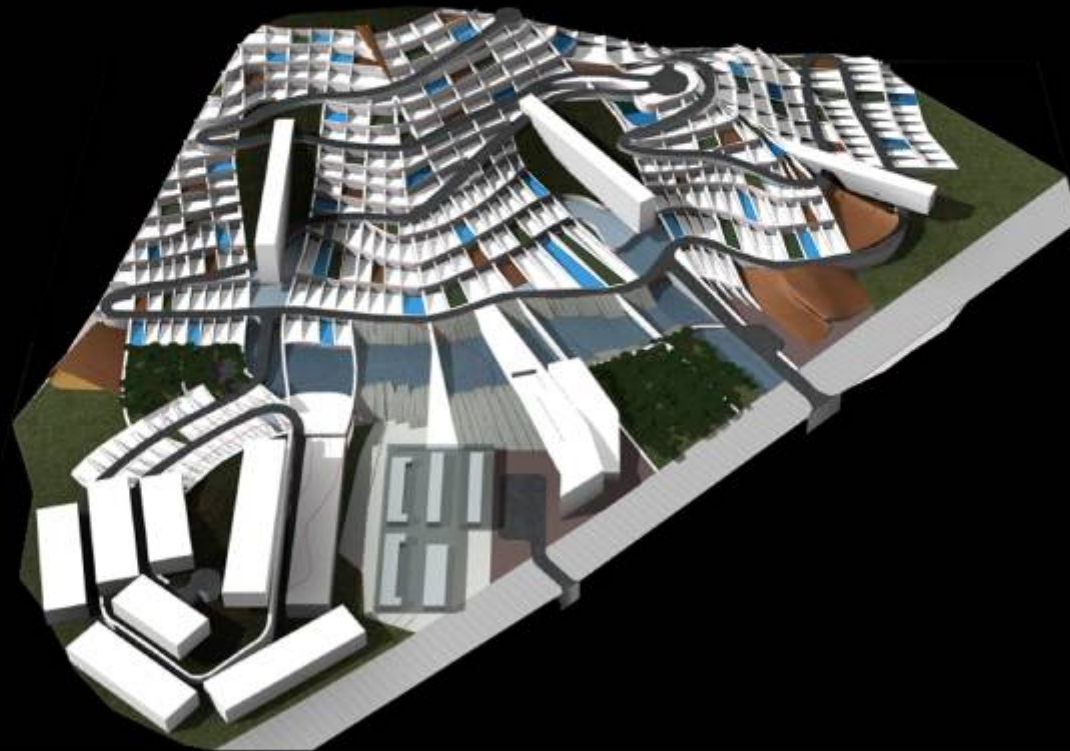
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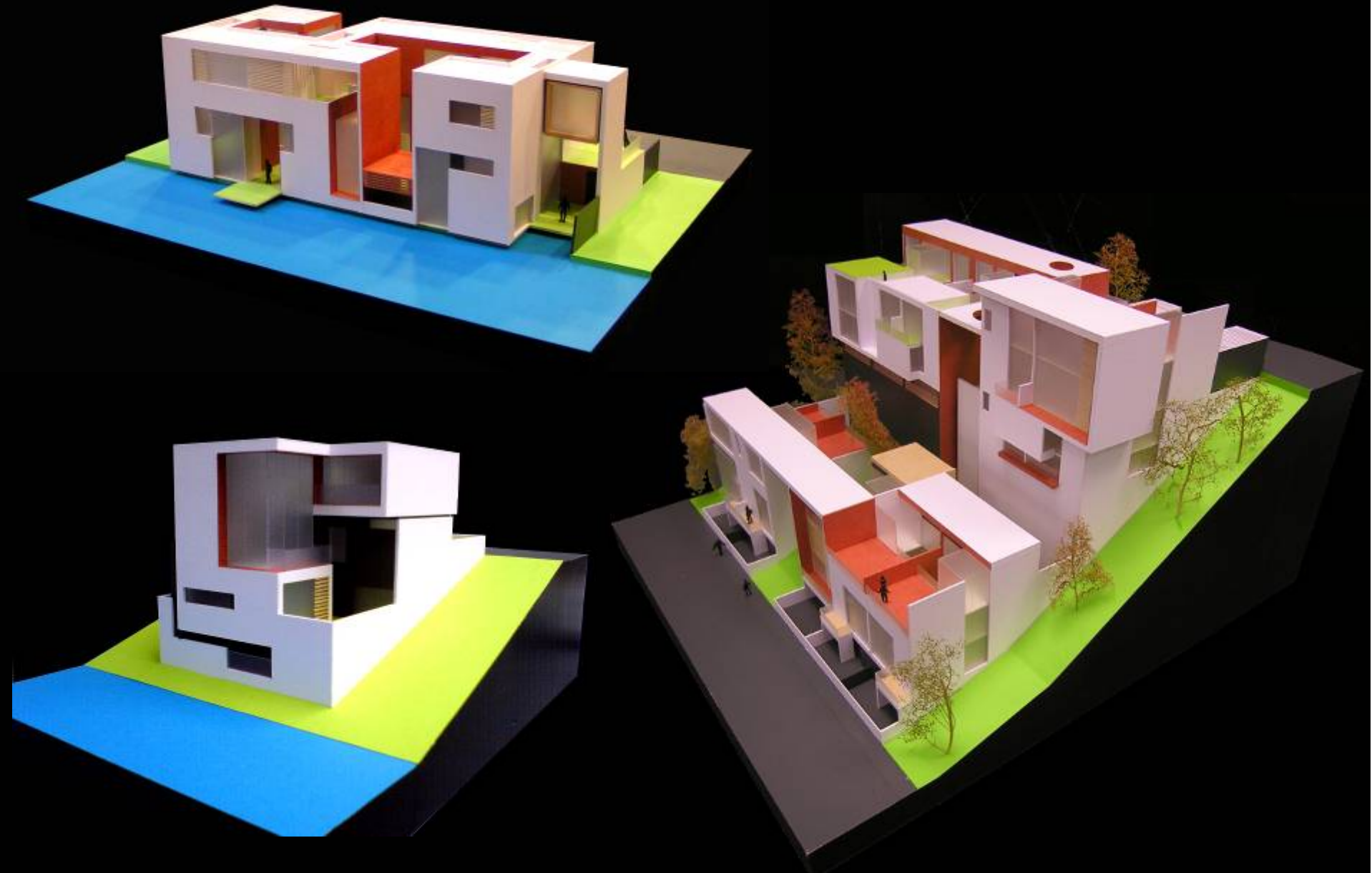
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