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# PROJECT 03

重歸自然 新空間物種  
[個人入圍] 遠東國際數位建築獎  
reTURN to the nature\_ autotrophily space  
FEIDAD 2004

重歸自然 新空間物種  
遠東國際數位建築獎



## new spacial species >>

重歸自然 新空間物種

討論的設計議題,著重於重新思考建築本身存在的需要性,以及時間性,在最細微的生命體裡,找到共通於生命,空間,與時間的自然法則,是為生命過渡空間之”

FEIDAD 2004

**re**TURN TO THE NATURE  
AUTOTROPHILY SPACE



## **preface**

This is not a newness.

From the ancient times, this is the natural law.  
When we use more and more digital tools to construct our fantastic dreams,  
do we really get a more comfortable and unrestrained life?  
Our humanity is seizing the earth by forcing it to satisfy our desire,  
Meanwhile, we are injuring the earth to be more contaminated and injured.

The natural world has its own law to get balanced.


We are trying to come out a new architectural thought,  
just like the green plant or organism,  
which could get the world more balanced in the future.





## introduction

Learning from the nature.  
Those concepts are based on natural law.



### ownership ?

necessitation / existence

We build a school to provide students for studying and build office architecture to perform official business. But when people depart from the building at night, the artificial construction still occupies the earth skin. We construct a grave when we disappeared.

The ownership of the earth skin, should open to public access or usage and give back to the natural world.



### physical circle

Artificial construction should be firm, solid, or ageless? We come out a kind of type that has a physical circle also its circulation is following the using life.



### autotrophy

transformation/reversal

Photosynthesis doesn't only mean to get the nutriment from the sunlight, but also mean to transfer one to the other. Reversing the natural elements to energy, form perniciousness to usefulness.



### cell division / composition

cell / tissue/ organ / system / individual

cell is the basic unit of organism. A minimal device is just like a huge whale. They do have the same law to circulate, but they have different scales, functions, and life-spans.



**prototype**  
floating cell

We are thinking a kind of prototype of the sea burial a floating cell.







## cell function

The cell is divisible and compositable when the function is working  
It will be decomposing and mobilizing when the function is working



## material

environmental material

The floating cell is constructed by natural elements and decomposable material. It is not only reducing the pollution, but also producing the energy by itself.

The decomposable material is the new BIO-tech.

It is firm and solid enough to construct a floating construction and could be decomposed in the dissolution cycle.

## natural elements

energy & recycle  
solar energy / water / wave



ИЗВОДИМ  
ОБИ  
У МАГЛУ  
ПЛОХОМ  
НЕ ДУМАЕМ

## decomposable

vegetable polyester  
/PHB-poly(beta-hydroxybutyrate)







**autotrophily space**  
new spacial species

Sea burial means not only recycle but also reborn.  
autotrophily space is not only a resting-place on the sea,  
but also a new spacial species.





solar energy



water recycle

wave energy

natural energy



## details

surfsce(photosynthesis)  
>>absorbed energy

brace(waterweed)  
>>waterweeds'motor joint  
/ transmission line

base(root)  
>>fixity / energy storeroom

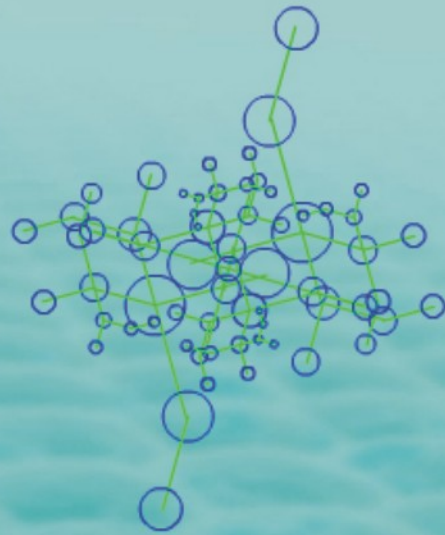


## ritually processing

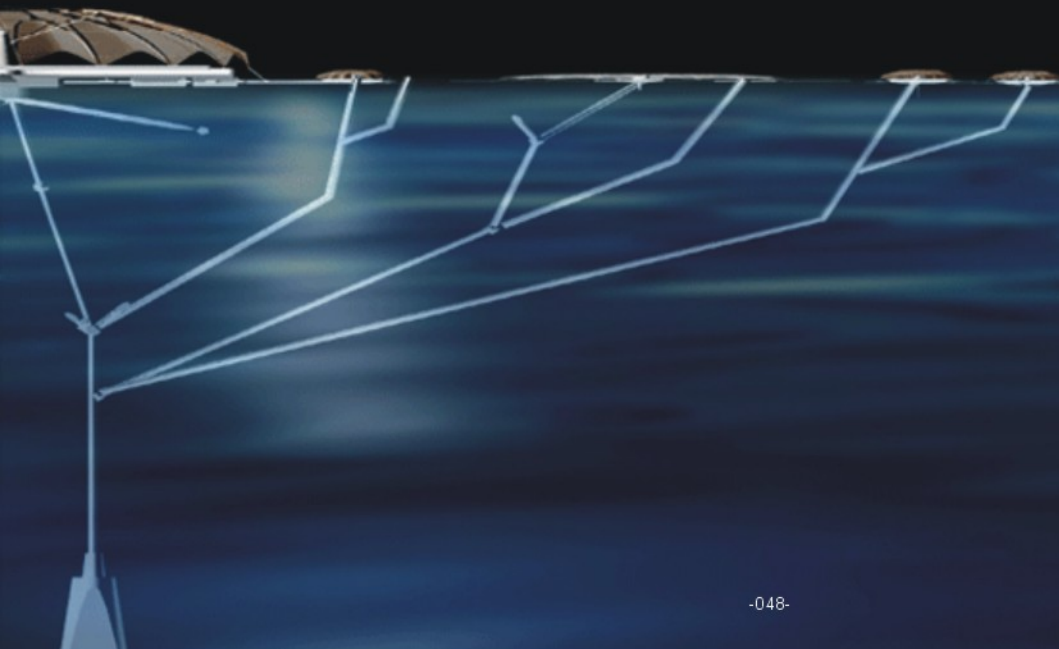
floating structure

---> form follow the ritual

---> form follow the wave

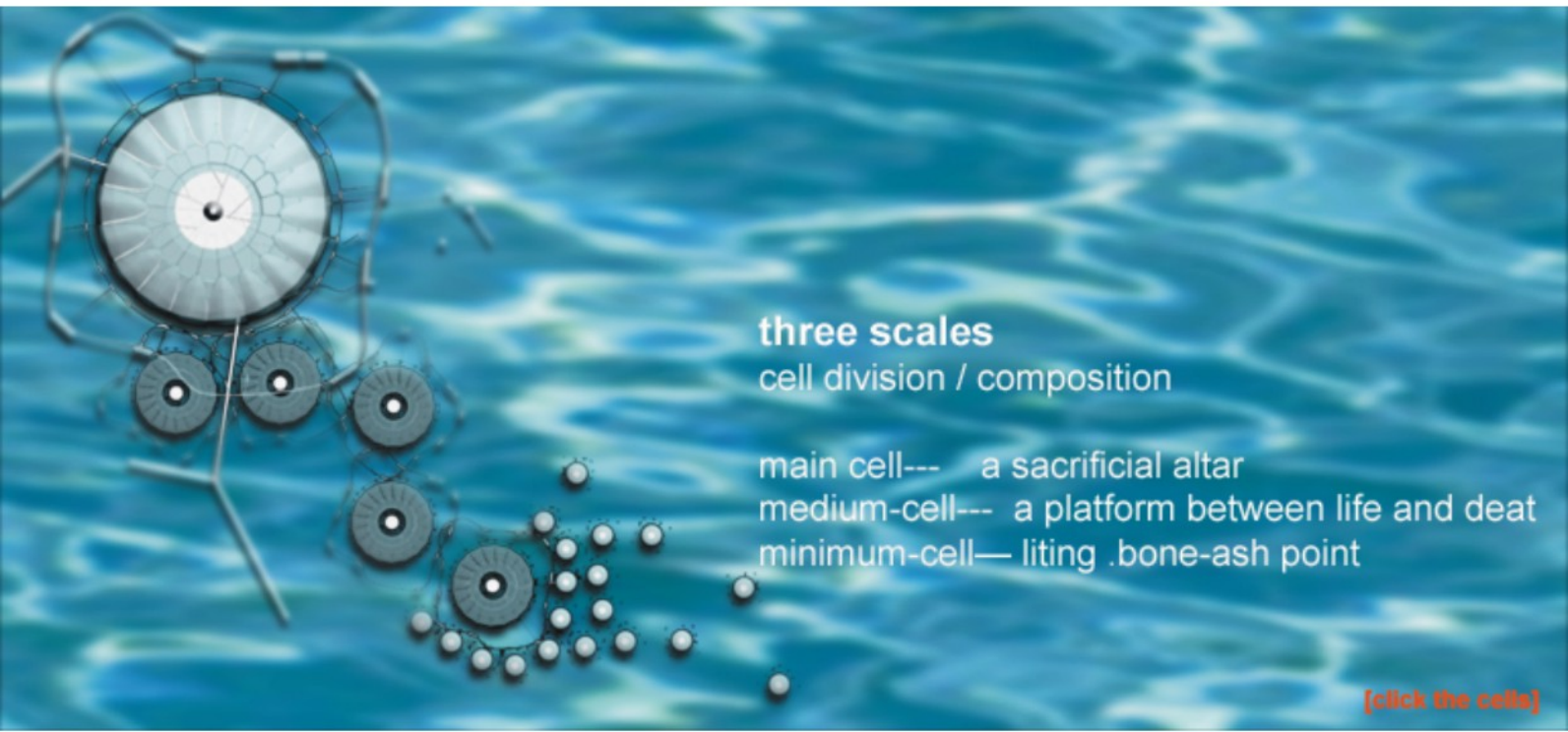


bird's eye view



**unstable ground**  
mobility

ritually processing  
>>floating structure



### three scales

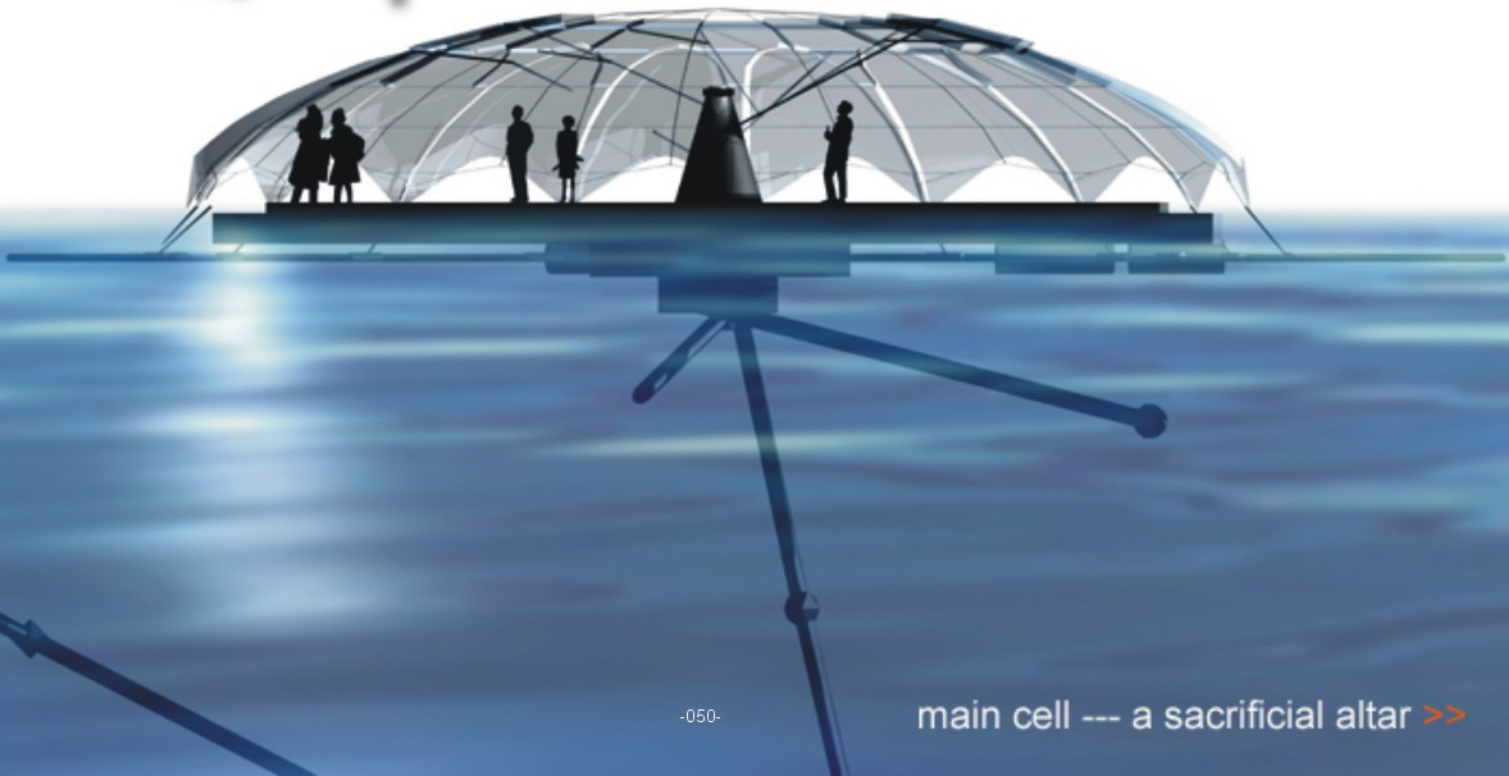
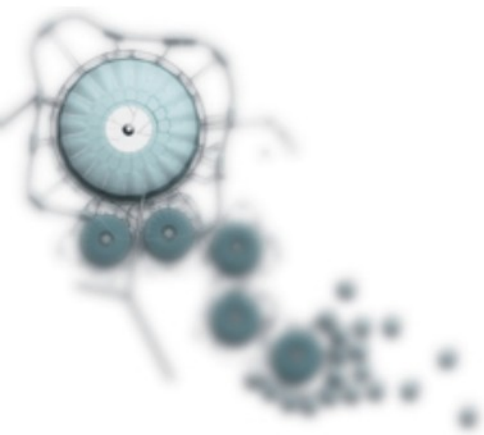
cell division / composition

main cell--- a sacrificial altar

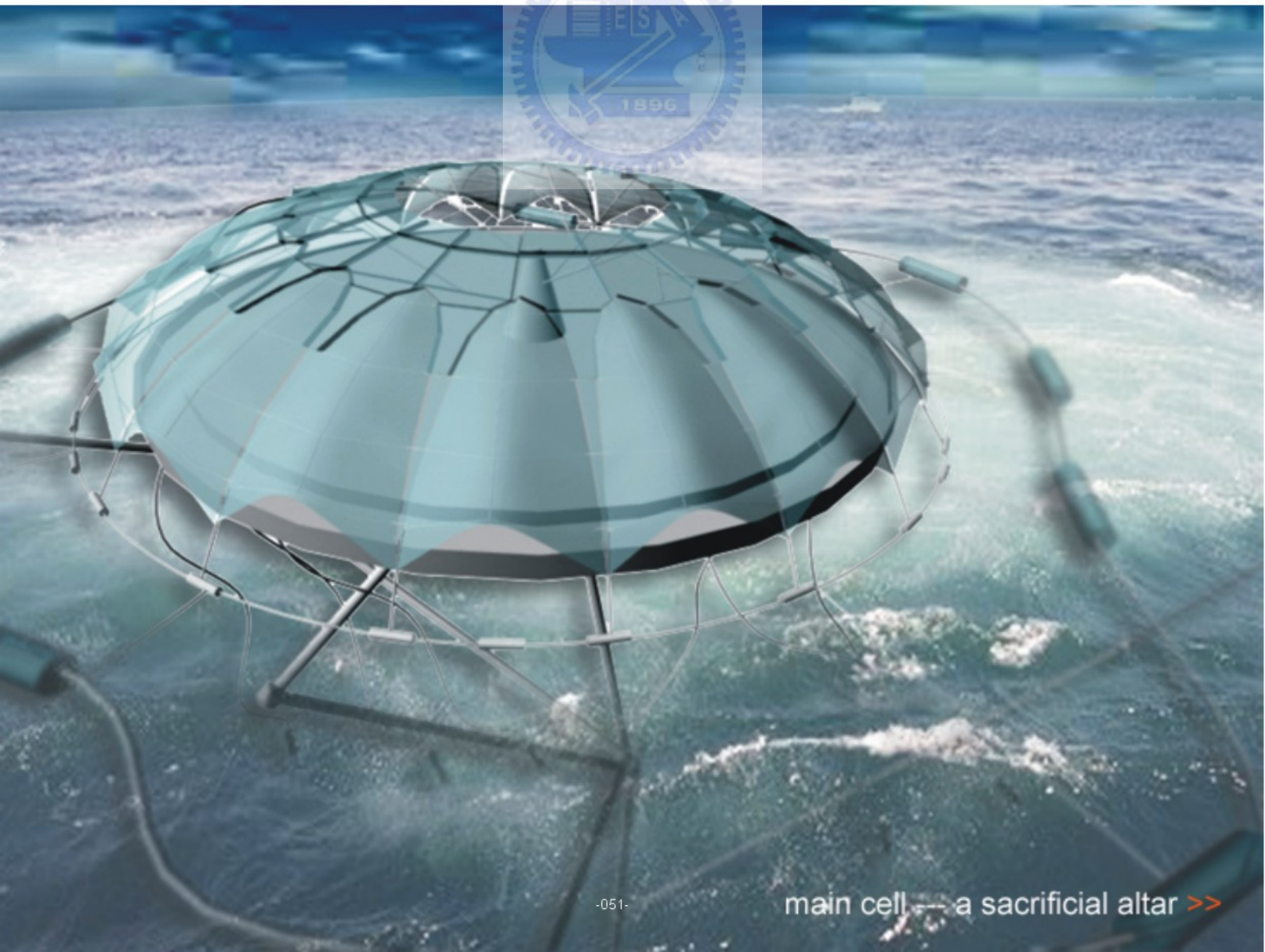
medium-cell--- a platform between life and death

minimum-cell— litig .bone-ash point

[click the cells]

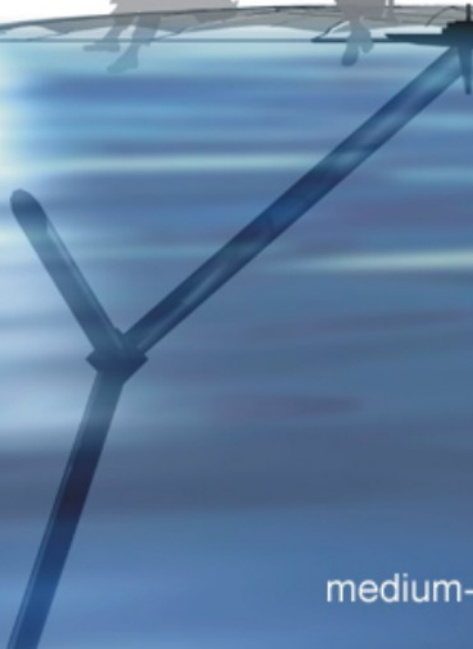








main cell --- a sacrificial altar >>

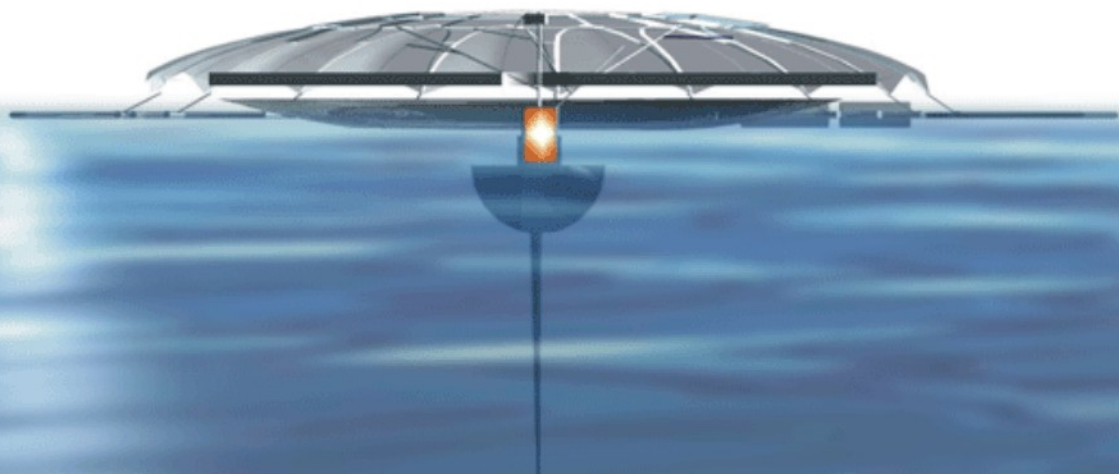
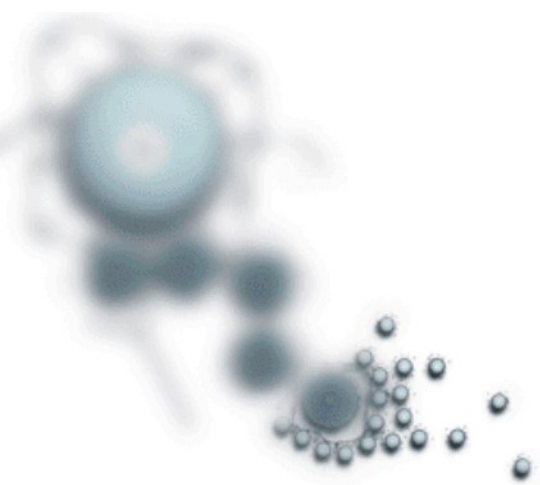


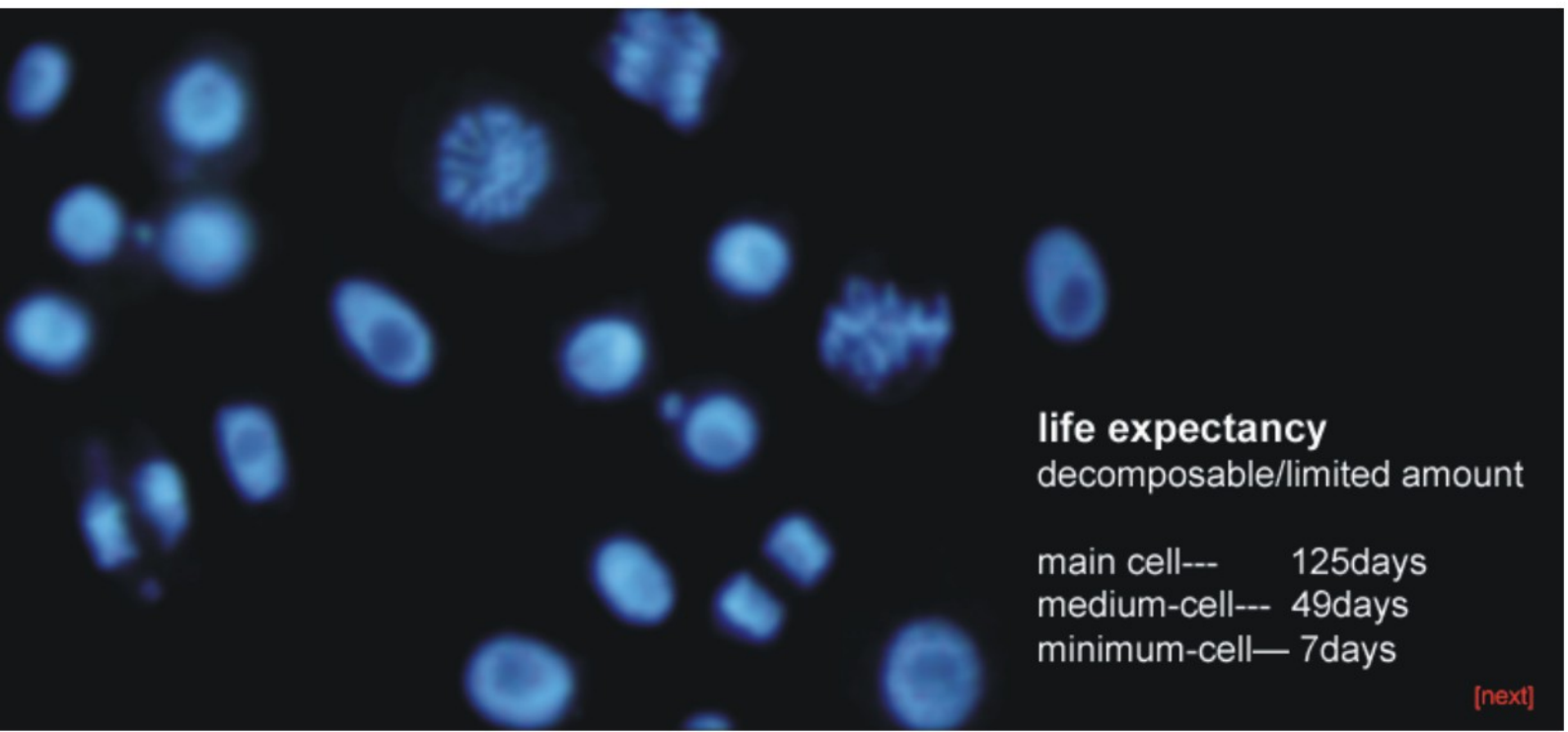
medium-cell--- a platform between life and death >>





medium-cell--- a platform between life and death >>>

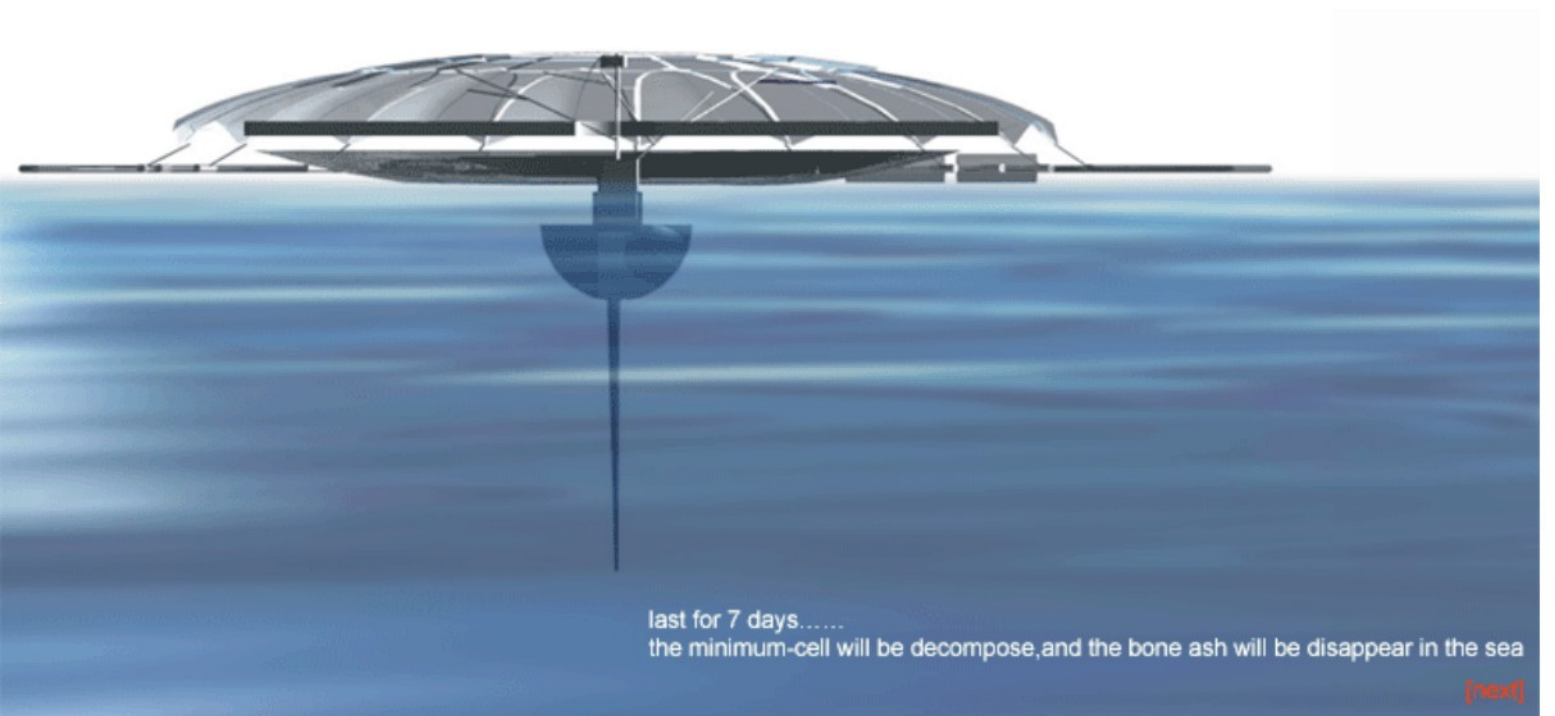




**life expectancy**  
decomposable/limited amount

main cell--- 125days  
medium-cell--- 49days  
minimum-cell— 7days





last for 7 days.....  
the minimum-cell will be decompose, and the bone ash will be disappear in the sea

[next]



takeing part in a funeral procession,the minimum-cell— liting bone-ash point, will carry bone-ash on to leave the main cell



return to the nature

corpse recycle  
Non-occupy the earth >>



Every story has an ending.  
But, in life, every ending is another new beginning