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| Country / City | China, Guangzhou |
| University / School | South China University of Technology |
| Academic year | 2019-2020 |
| Title of the project | Disappearing Garden |
| Authors | Luo Yuchen, Huang Ziqian, Zhu Xin, Zhao Yinan, He Chenghong, Zhong Heli |

TECHNICAL DOSSIER

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| Title of the course | Guangzhou Garden Expo |
| Academic year | 2019-2020 |
| Teaching Staff | Lin Guangsi, Xiao Lei |
| Department/Section/Program of belonging | School of Architecture |
| University/School | South China University of Technology |



Written statement, short description of the project in English, no more than 250 words

Most people think that buildings and gardens should last longer, even eternal, but this is contrary to the natural process that all things will eventually disappear. We believe that a garden which finally disappears in accordance with the laws of nature is also a beautiful existence, showing the beauty of disappearance to the world. Thus, the concept of "disappearing garden" is used in this design. The garden is one of the exhibition sites of the 28th Guangzhou Garden Expo. The site area is about 200 square meters and is located on Haixinsha, which is on the new urban axis of Guangzhou.

First, annual flowers are planted on the ground to create a flowering border. Then balloons filled with cut flowers and seeds float above the garden. At the end of the garden festival, all the visitors and citizens are welcome to fly balloons together. When the balloons rise high enough to explode, those flowers and seeds in the balloons fall back to the ground, and then turn into fertilizer or start new life courses. The whole process embodies our concept and shows the meaning of the disappearing garden.

Therefore, this design regards balloons as a symbolic device, using balloons with plants to metaphorize the close yet fragile relationship between human and nature, and symbolize the process of nature and life. The design incorporates imaginative stories into the garden, combines features of fairy tales and science fiction, and creates a garden full of artistic atmosphere, philosophical reflection and interactive experience.

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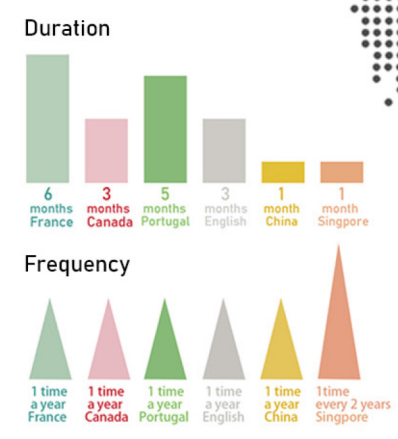
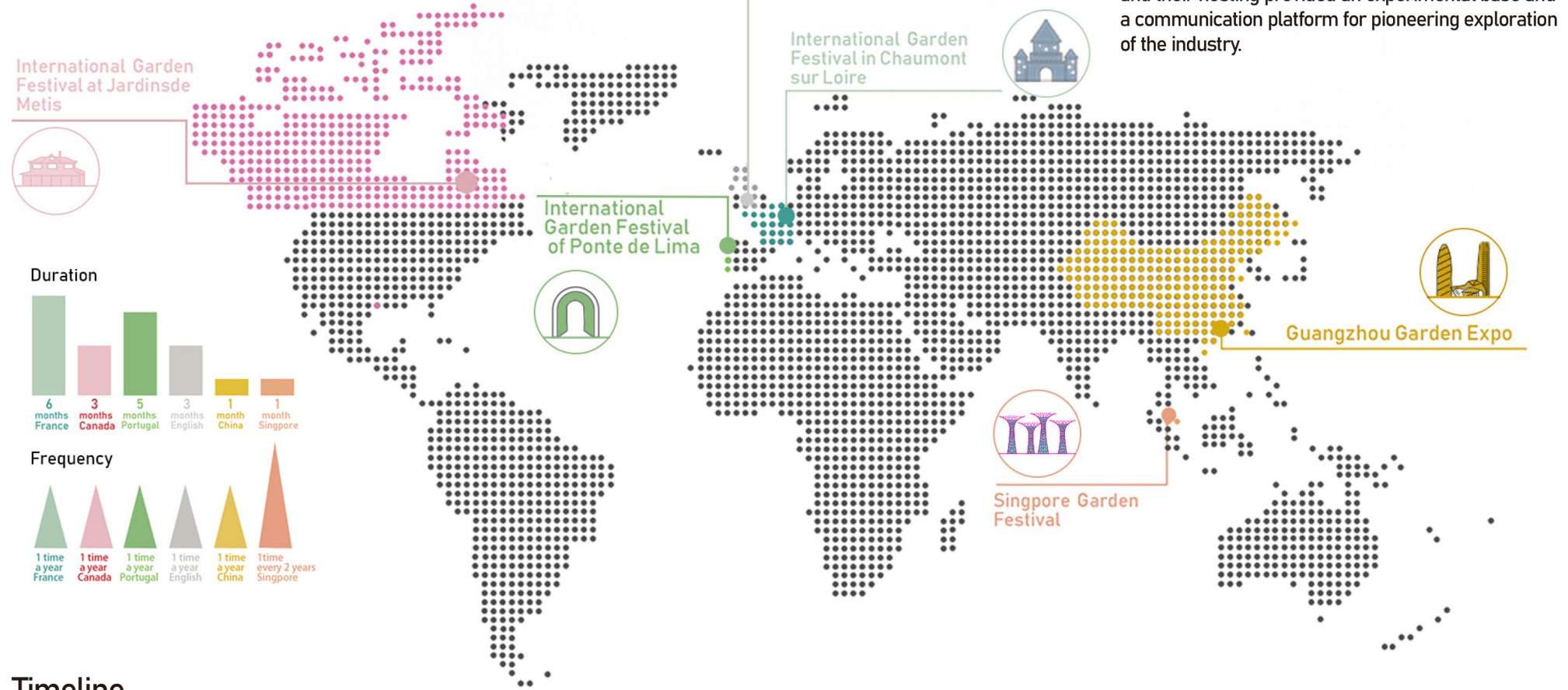
CLIMATE CHANGE AGAIN

11th International Biennial Landscape Barcelona

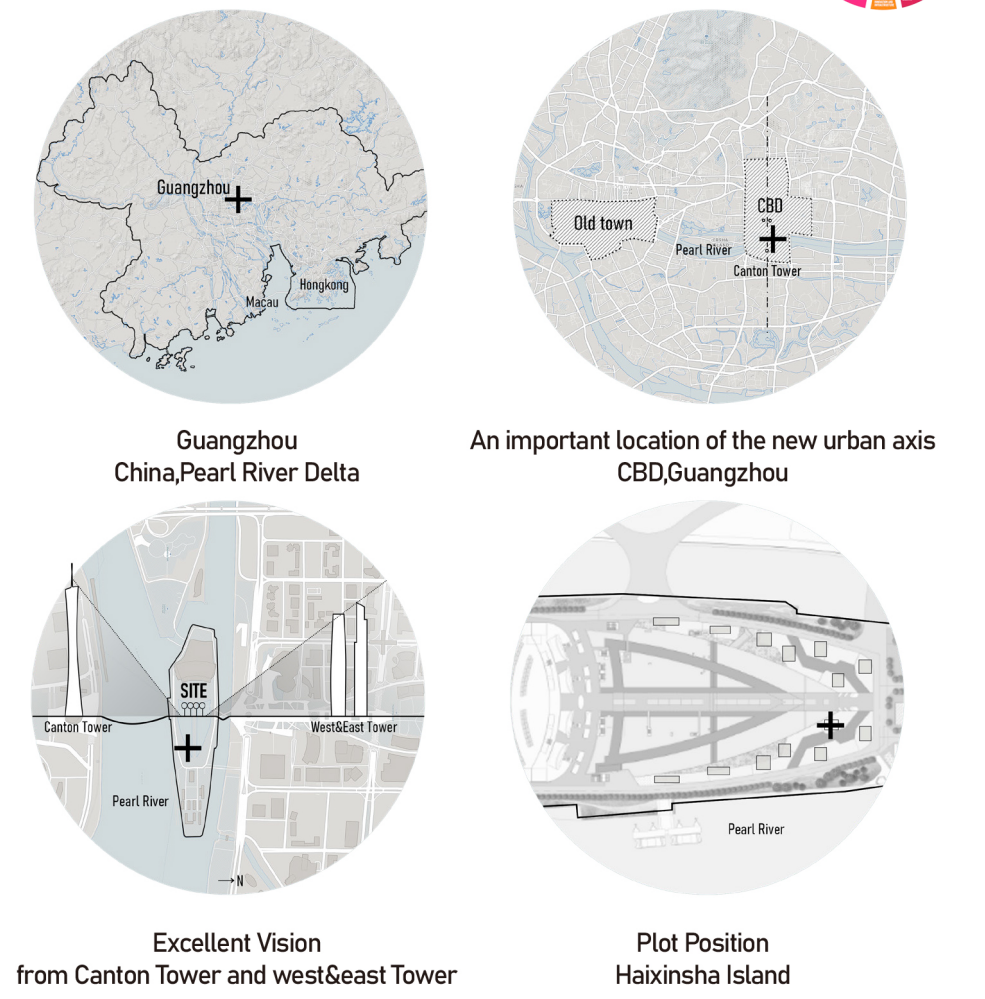
Barcelona September 2020
SCHOOL PRIZE



Disappearing Garden

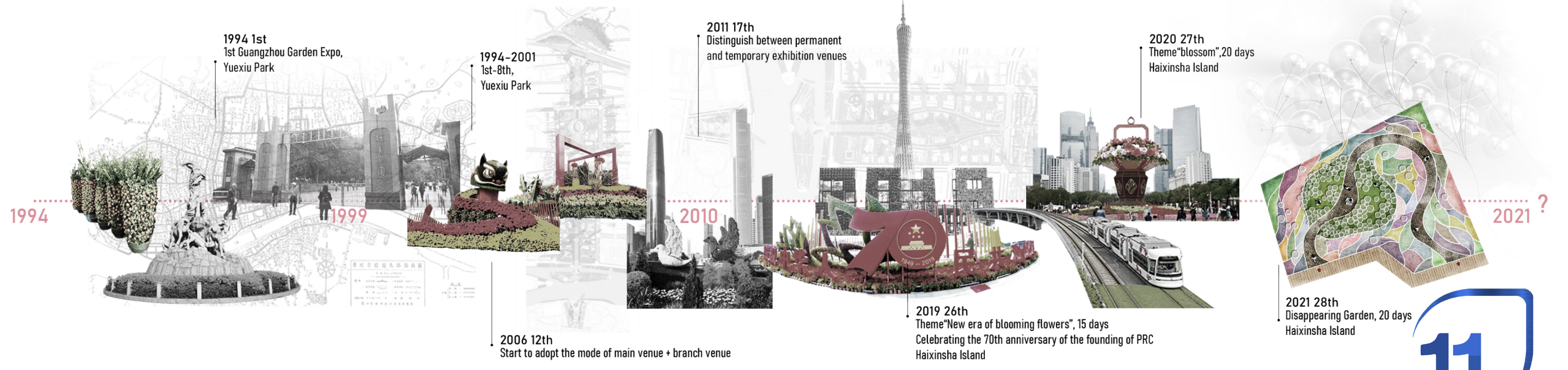


Location



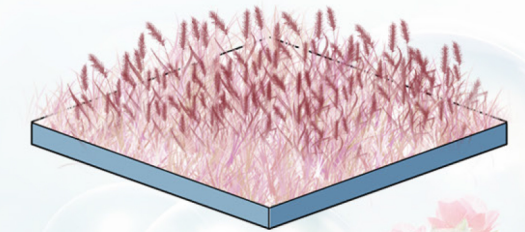
Timeline

History of Guangzhou Garden Expo
 In the past, its role of promoting art development was not prominent.
 We hope our work can bring forward new design ideas.

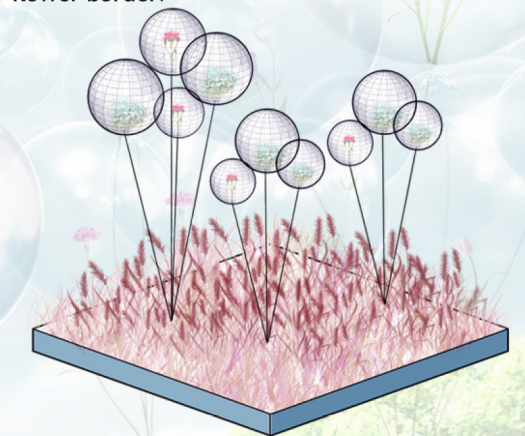




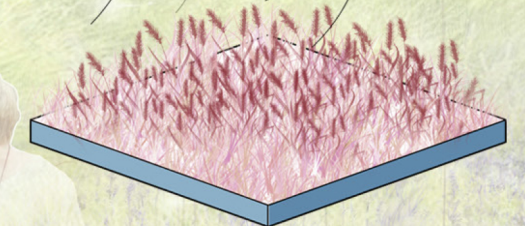
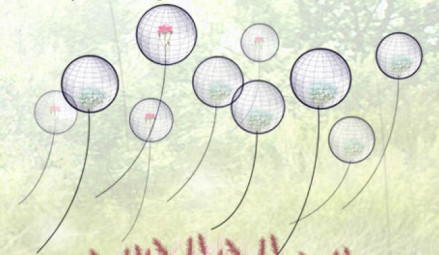
Design Strategy



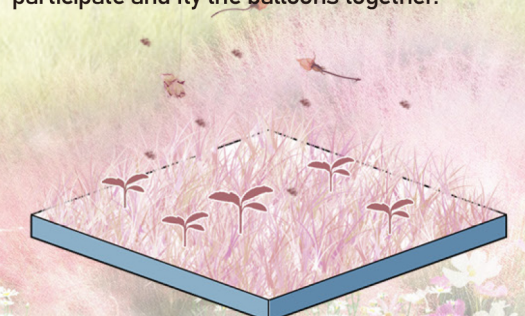
1. Plant annual or bulbous flowers to create flower border.



2. Create a disappearing landscape with balloons filled with cut flowers and seeds and increase the interactivity of the garden.



3. At the end of the exhibition, the citizens will participate and fly the balloons together.



4. When the balloons rise high enough to explode, the cut flowers and seeds fall back to the ground, return to nature.



1

Hanging various flowers



Fill in flowers



Aeration of helium



Fixed balloons



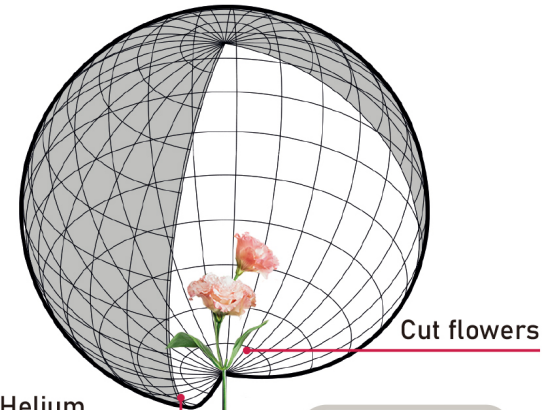
Released balloons

2

Experiment Process

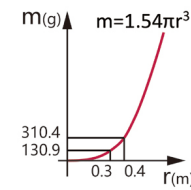
In the experiment, we try to figure out the relationship among balloon size, net lifting force and weight of flowers by hanging various flowers.

3



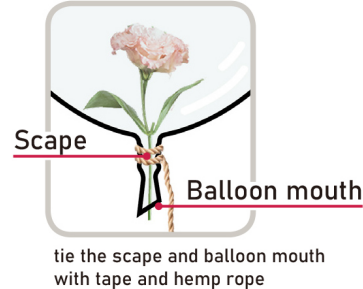
Helium balloon

Made of degradable material
D=600-800mm



m: total lifting weight
r: radius
When the diameter of the balloon is larger than 600mm, the total lifting force is sufficient.

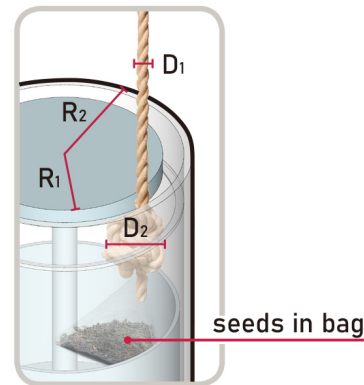
4



Scape

Balloon mouth

tie the scape and balloon mouth with tape and hemp rope



seeds in bag

D1: the diameter of the hemp rope
D2: the diameter of the knot
 $R_2 - R_1 = D_1$
 $D_2 \gg D_1$

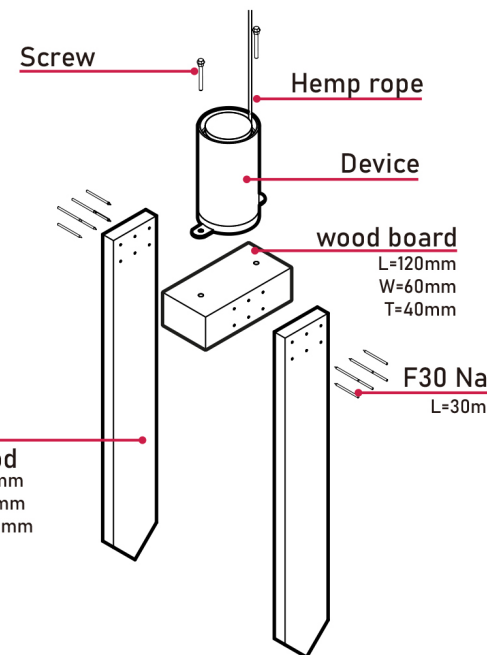
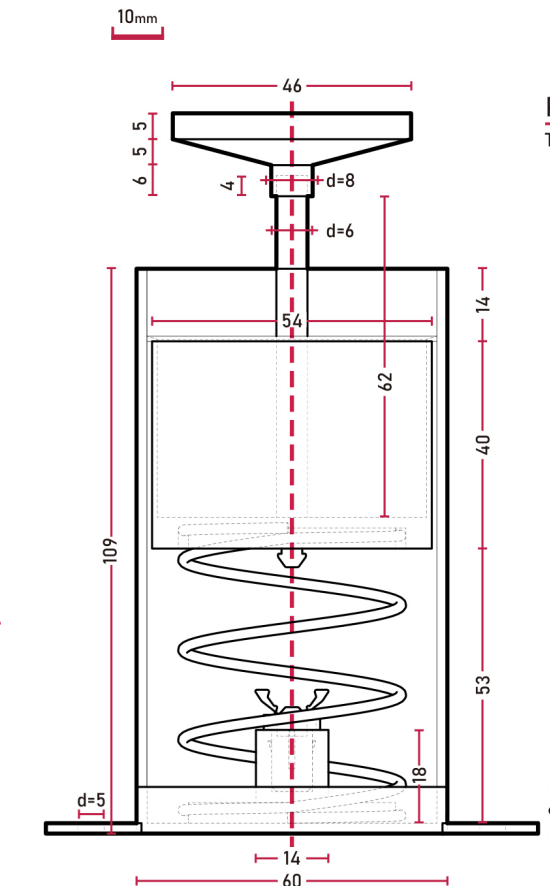
5

Hemp rope
D1=3mm
L=3-5m

Device

Wood base

Buried in the soil to ensure the stability of the whole mechanism



Structure of the Device

