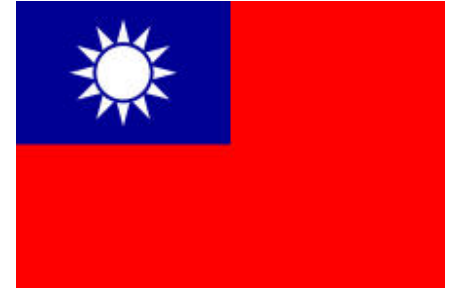


The impressive green roof projects of Taiwan



Yi-Jiung (Eugenia) Lin

Executive Director/Academic Committee

台灣綠屋頂暨立體綠化協會

Taiwan Green Roof & Green Wall Association

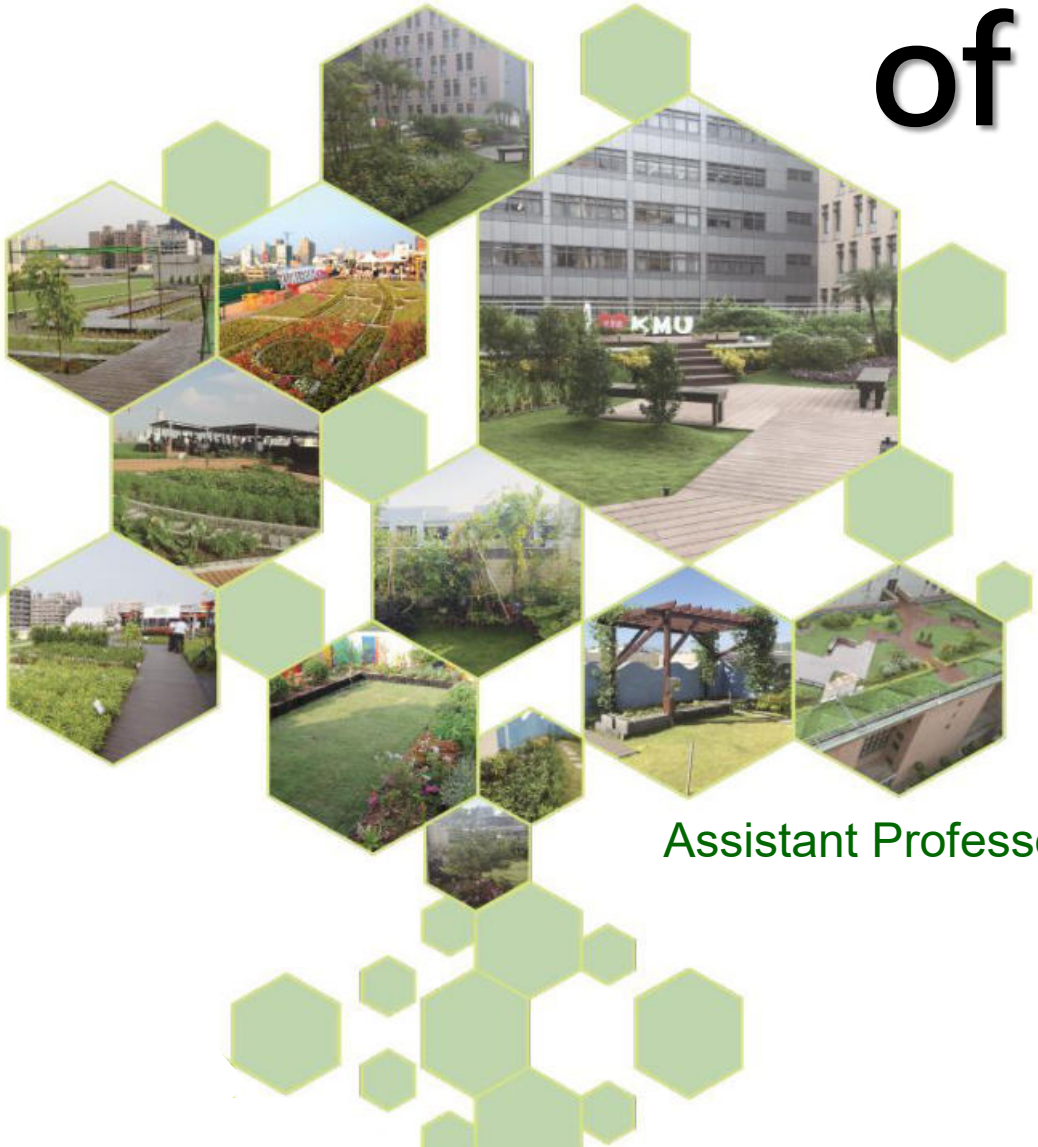


Assistant Professor, Environmental Engineering and Science, Foo-Yin University

PhD. of Architecture, National Cheng-Kung University

Master of Landscape Architecture, ESF, SUNY, USA

Bachelor of Horticulture, National Taiwan University



Germany

Population: 83.2 million (2021)

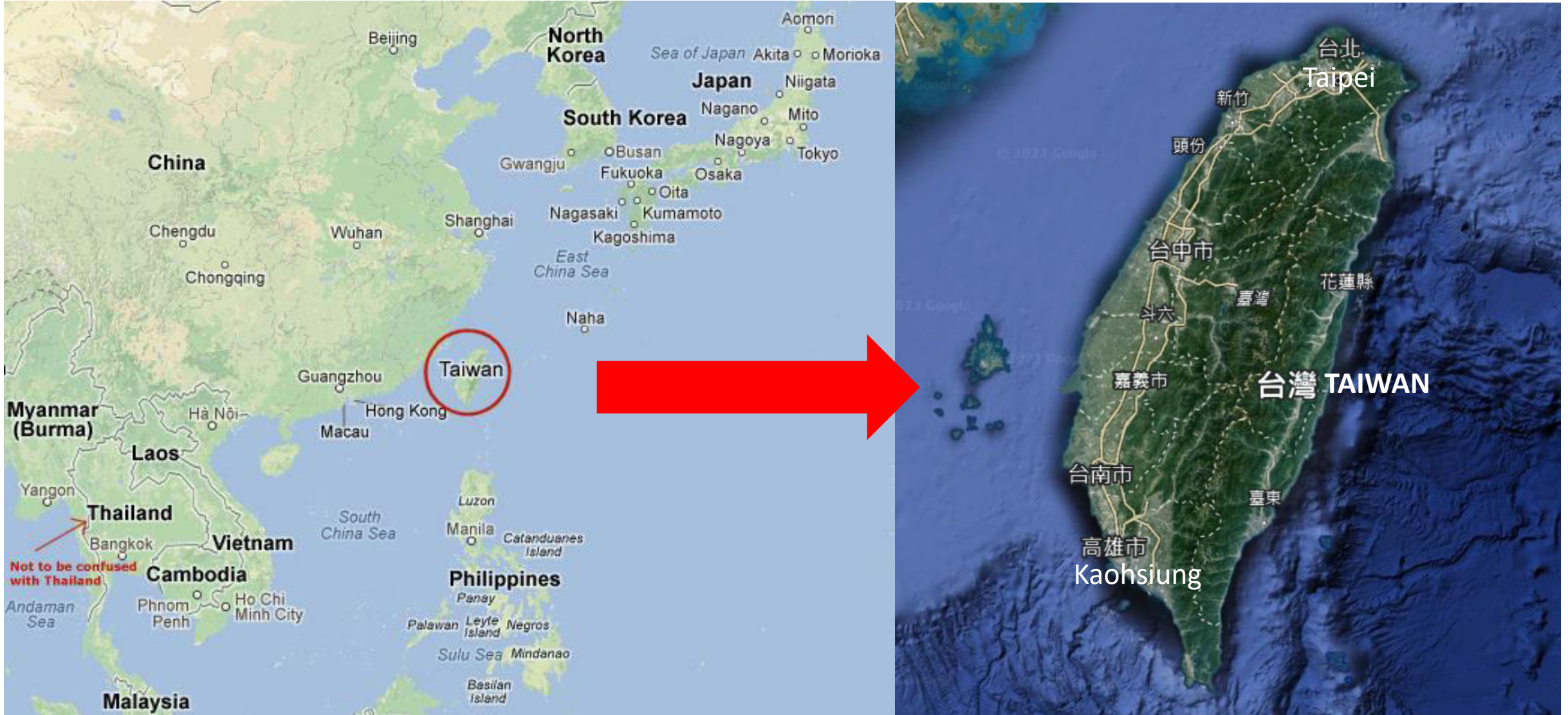
Area: 357,000 square kilometers

Where is Taiwan?

Taiwan

Population: 23.57 million (2020)

Area: 36,197 square kilometers



Taiwan & Greening

- Land is precious: 36,197 square kilometers with 23.57 million population



<https://opinion.udn.com/opinion/story/7885/3745034>

Taiwan & Greening

- Climate change: summer flood / winter drought & air pollution



Advantages of Green Roofs

1. Stormwater management
2. Water retention
3. Filtering of air pollution
4. Mitigation of the urban heat island effect
5. Acoustical and heat insulation
6. Reduction in CO₂
7. Increase in the efficiency of photovoltaic cells (up to 16% more)
8. Biodiversity
9. Habitat restoration
10. Economic benefits
11. Aesthetics
12. Public education

We want them all

Green Building Rating System of Taiwan

EEWH :

Ecology

Energy Saving

Waste Reduction

Health



合格級



銅級



銀級



黃金級



鑽石級



台灣綠屋頂暨立體綠化協會

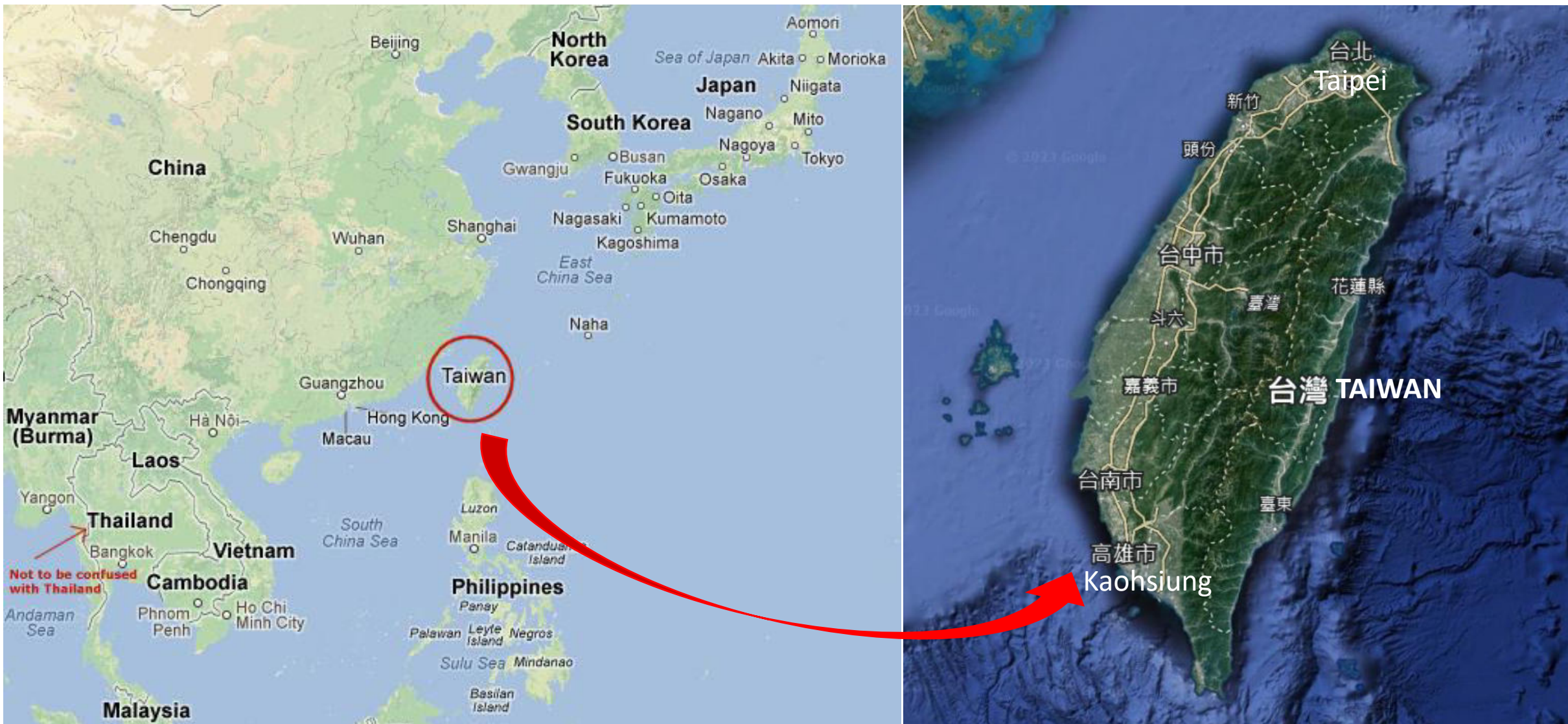
Taiwan Green Roof & Green Wall Association

- **Taiwan Green Roof & Green Wall Association (TGRWA)** is established 12 years ago. We had completed many Events, Projects and Publications from 2011 to 2020.
- TGRWA do our best to make the advantages complete, such as mitigating the impacts of climate change and improving urban fabric for urban livability, biophilic design, stormwater management, rooftop agriculture, horticultural therapy, education and public participation etc.
- Every city has their Autonomous Ordinance on green building and green roofs here in Taiwan. These years the projects we dealt and assisted with Tainan and Kaohsiung government, the budget were around 100 thousand Euro per year. Sometimes the projects came from different bureau of a city.

**Create A Healthy Five-Sense City
with Butterflies, Bees and Earthworms' Green Roofs**

Kaohsiung City, Taiwan

Where is Kaohsiung City?



Kaohsiung City





Kaohsiung City



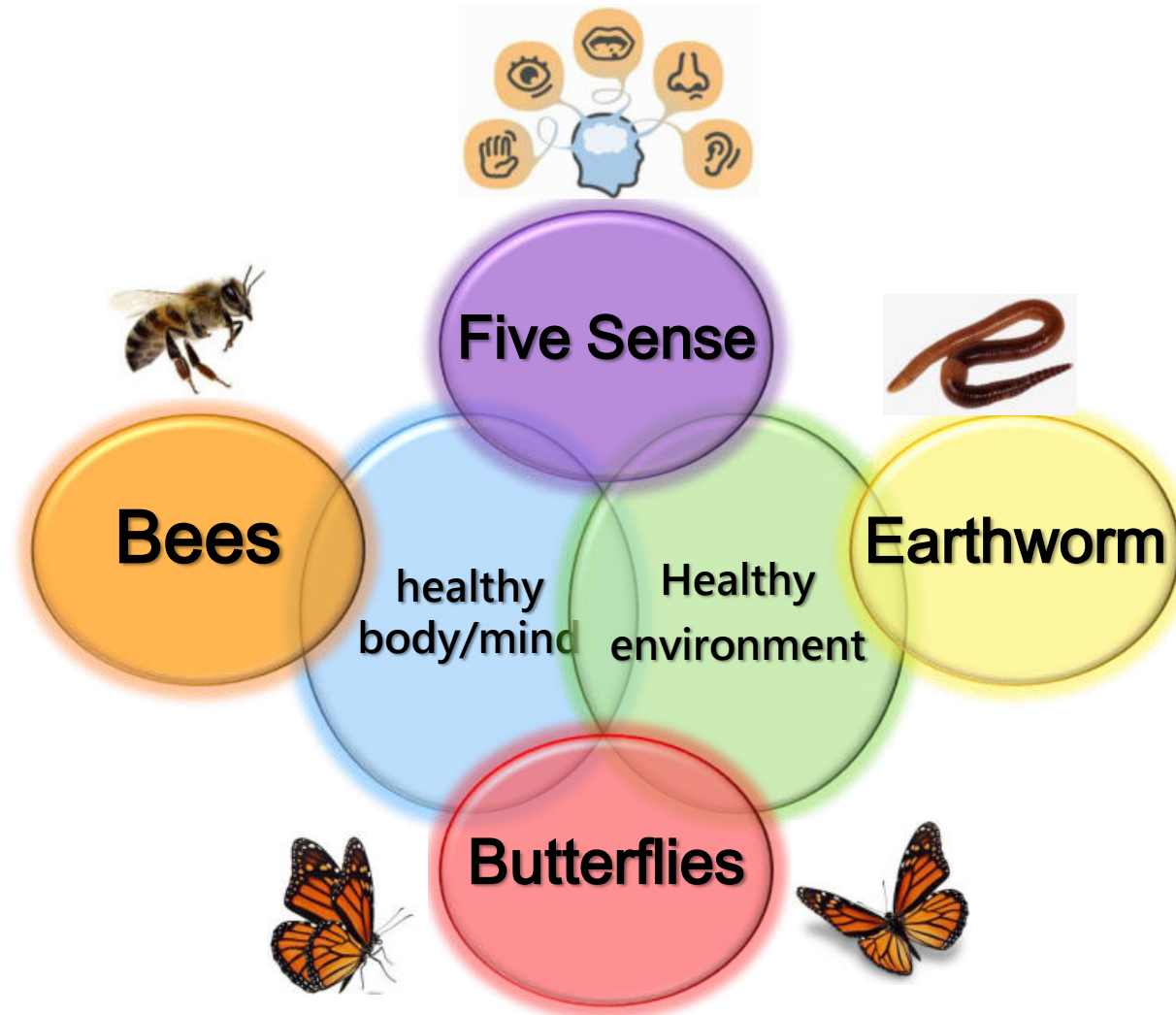


Kao hsiung

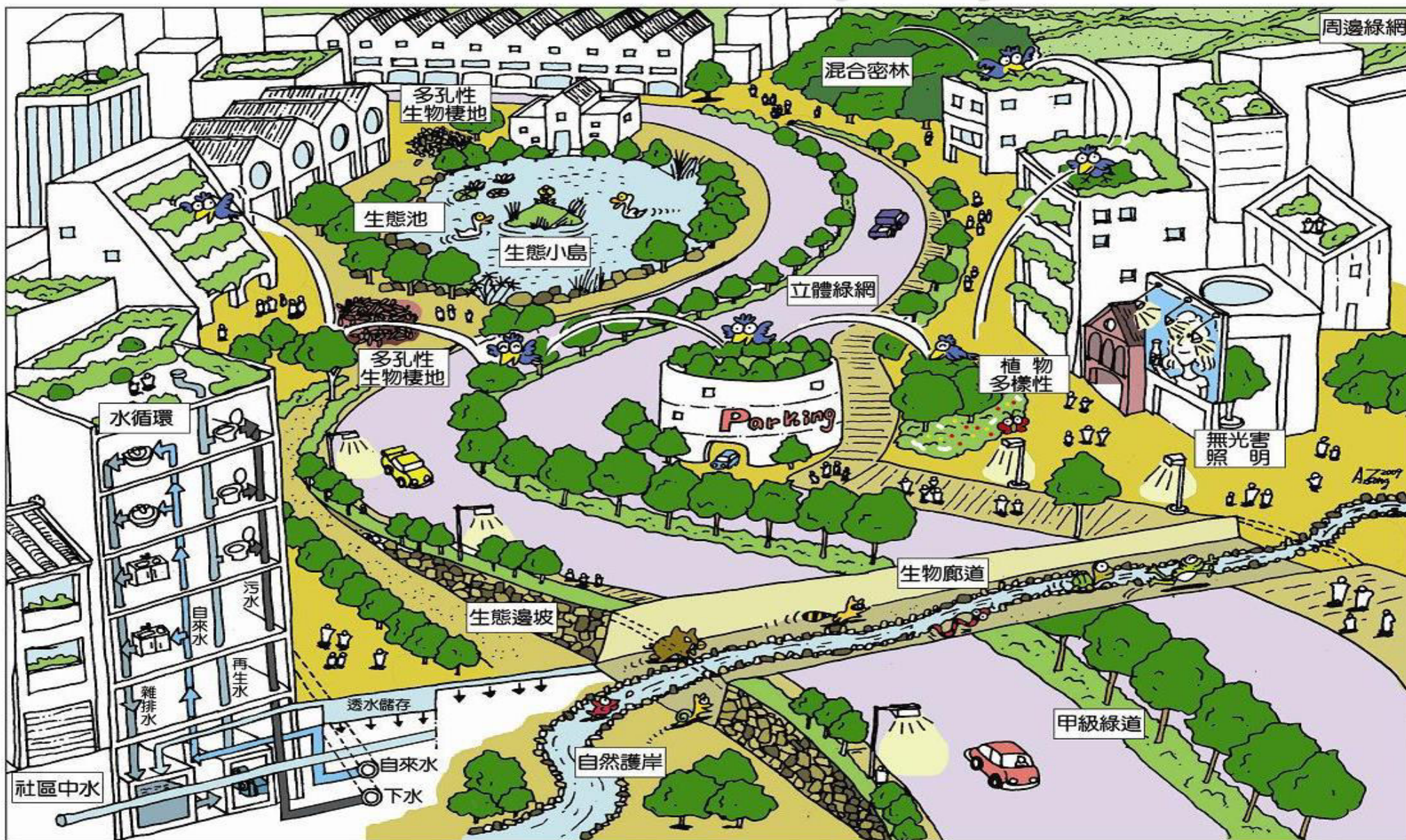


Green Roofs of Kaohsiung City

Mitigating the urban heat island effect, energy saving and carbon reduction, and living health".



A Biodiversity City

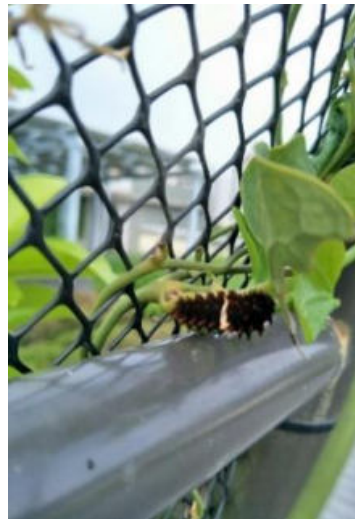


Create a city that people lives in harmony with all creatures.

Butterfly Restoration

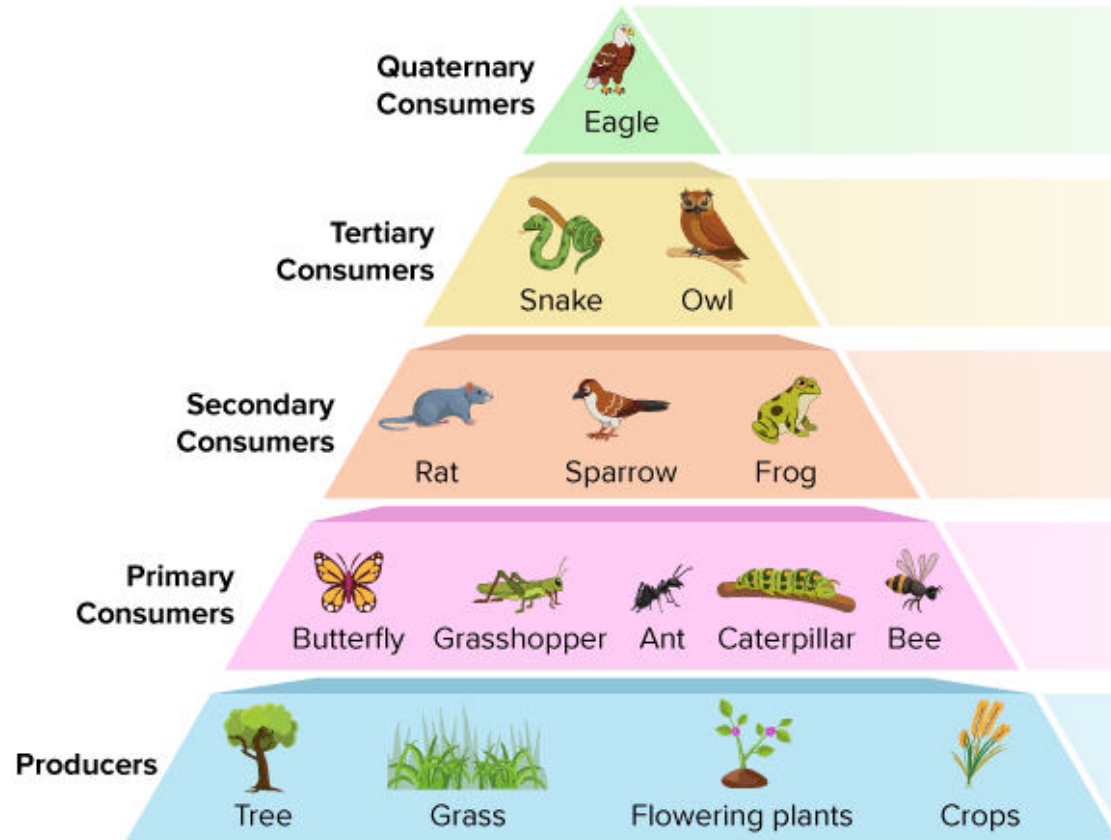
Restoring butterflies in the city, in addition to appreciating their beautiful appearance and posture, we can also observe the complete metamorphosis process of butterflies, which is a very ideal nature and ecological education, so as to promote the restoration of a healthy environment. The butterfly restoration we promote is to use the rooftop space of the city to plant butterfly plants, which include host plants and nectar plants, to **create an environment suitable for butterfly laying and growth.**

In order to provide a healthy environment for native butterflies, we specifically emphasis on growing native host plants and nectar plants to attract them.



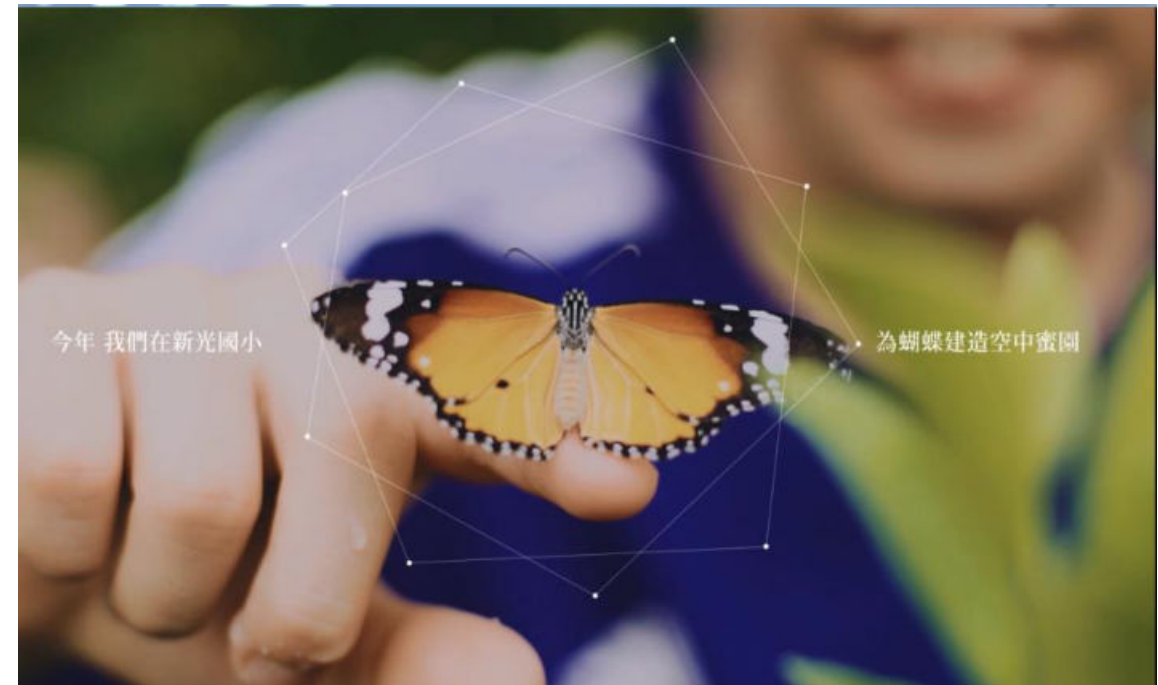
Butterfly Restoration

Biodiversity



Ecological Pyramid

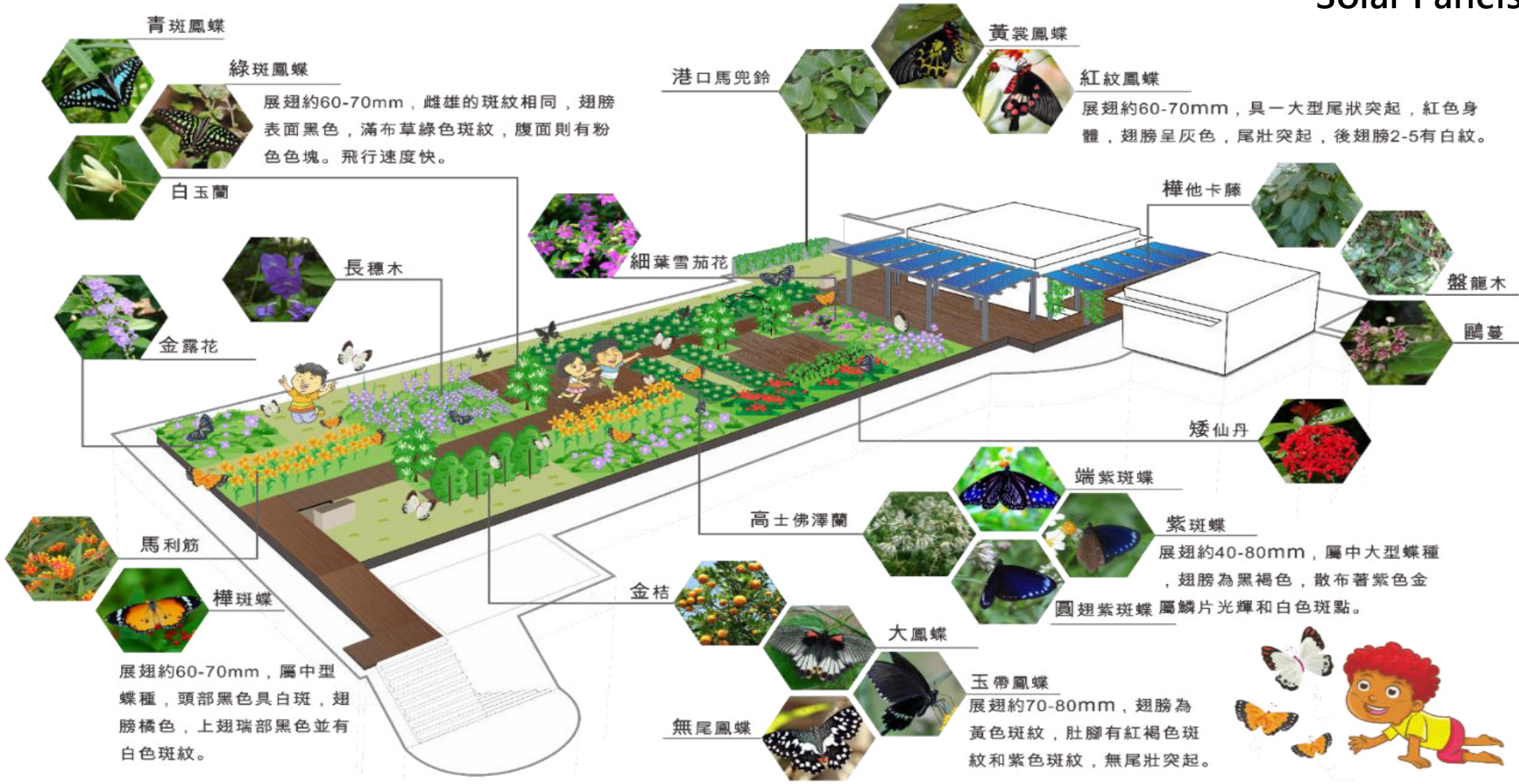
When the flowers bloom, the butterflies will gather.



The diversity planting for different butterflies

Singuang Elementary School "Rooftop Butterfly Garden"

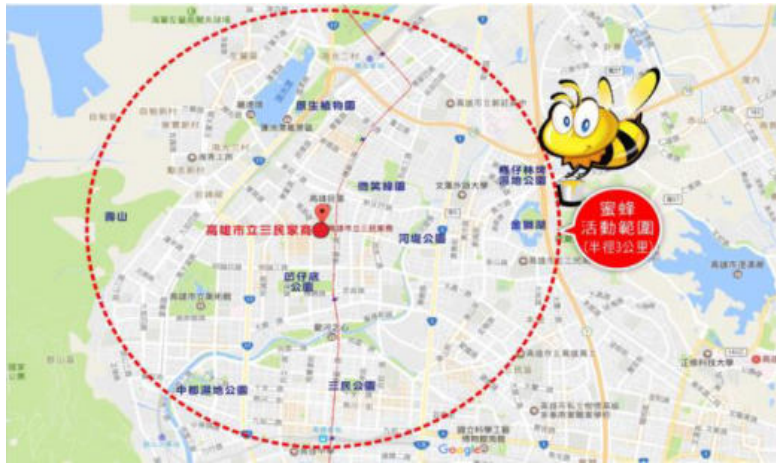
- Roof Area: 1000 m²
- Green Roof Area: 801 m²
- Budget : 255,647USD
- Solar Panels : 144 m²





Urban Beekeeping

The Kaohsiung City Government built the city's first urban rooftop bee farm on the roof of Sanmin High school. Apart from assisting in the restoration of bees, it also led students and citizens from practically operating bee breeding, conservation of bee-related ecological knowledge, to caring for food and agriculture. Education and food safety issues, to enhance students and the public's attention to environmental ecology and land value, and then work together **to create habitats suitable for bees** and other creatures to live and reproduce in the city, so that humans, bees and even other creatures can live harmony together. This is the spirit of our promotion of urban beekeeping.





西洋蜂箱養殖外觀



西洋蜂箱檢視



西洋蜂



小型搖蜜機





Earthworms Placing

Earthworms are natural "fertilizers" and can increase the air permeability of the soil. They were called by the biologist Darwin "**the most valuable animals on earth**". Earthworms can also reduce the carbon dioxide content in the atmosphere and slow down the greenhouse effect, which is an indispensable role in a healthy city. In order to promote non-toxic and organic rooftop farms, the earthworms were raised in the soil medium of the green roof, and food waste was fed to the earthworms through a tube feeder. In this way, vermicomposting has become the most natural fertilizer for green roof plants and vegetables and fruits at the same time, the food waste has been transformed into high-nutrition fertilizer, thoroughly implementing the concept of circular economy, and achieving the sustainable cycle concept of earthworms and vegetation symbiosis in a healthy city.





1. 將土壤放進盆中。

Substrate placing



2. 將紅蚯蚓放入土壤內。

Earthworms placing



3. 移植蔬菜、花卉幼苗，或播撒種子。

Planting



4. 將六個種好幼苗盆子組裝，或垂吊

或垂吊。



5. 將生廚餘放進中間空管餵食蚯蚓，

並適當澆灌與日照。



6. 採收。

Harvesting



Chinese's medicine & Herbs Garden

Kaohsiung Medical University



Five-Sense Experiencing

Horticultural therapy, defined in a broad way, is "the process of using plants and horticultural activities to promote people's social, educational, psychological and physical adjustments and improve people's body and soul." In short, it is the use of plants and horticultural activities to help people heal, recover and promote their health and well-being.

When we promote the roof greening for Kaohsiung City, we brought the **Five Senses Experience Activity** to the public by using herbs and vegetables. Through the various DIY activities, people got to experience the feelings of **sight, hearing, smell, touch and taste**. So as to awaken and stimulate people's forgotten beauty in the unchanging life feeling. In addition to the benefit of preventing Alzheimer's disease, this kind of experience can also increase the neuronal connections of brain synapses, which can effectively prevent the brain hysteresis caused by 3C products, stimulate the body's five senses, and not only help the body health but also improve mental health.



Five-Sense Experiencing



Public Participation

6月14日(五)系列講座一(三民家商)-高雄市綠屋頂補助計畫說明會暨案例分享
補助辦法進行說明，帶領本市市民共投入



6月25日(二)系列講座二(新光國民小學)-城市環境改善之道
從住家單元的屋頂綠化談起，說明小至自家屋頂花園大至城市規劃尺度，全球環境的改善與生活的關係密不可分。



Public Participation

7月4日(四)系列講座三(高雄醫學大學)-咫尺綠生活

介紹高雄醫學大學屋頂綠化談起，以分享方式說明案例的源起與規畫過程，以了解綠屋頂對環境與生活產生之效益，第二場則是說明綠化與生活，運用人體五感來感受植栽綠化所帶來的療癒效果，了解綠色生活離你我並不遠也不困難。



7月16日(四)系列講座四(三民區公所)-隱田於市

分享在高度發展的城市之中，也能有機會完成農居的休閒生活方式。



The impressive green roof projects of Taiwan



180million NTD
5.6million EUD

<https://tw.news.yahoo.com/>

Tao Zhu Yin Yuan



Vincent Callebaut Architectures, France
SED-IA Architects, Taiwan

Flickr by 準建築人手札網站 Forgemind ArchiMedia

There are many extraordinary buildings with green roofs and vertical greenery in Taiwan.

There is a private residential building that is mysterious since it was built, until 6 months ago they open a door for Discovery.



Guinness World Records: The largest vertical garden measures 2,593.77 m² (27,919 ft²) and was achieved by Cleanaway Company Limited and Shine Green Energy Enterprise Co., Ltd. in Kaohsiung, Taiwan on 29 June 2015.

Green Roof Projects from Members



台灣綠屋頂暨立體綠化協會

Taiwan Green Roof & Green Wall Association



H. H. Tower
Vertical Garden Kaohsiung



P. Blanc
4th October 2016



Project Title: H&H Tower

Completion: 2018

Project Location: Kaohsiung, Taiwan

Project Type: New Green Wall Vegetated Area: Total 50M²

Designer: Patrick Blanc

Landscape construction: HSIN LIN TING BOTANY GARDEN

Address: No. 142, Wencheng 3rd Rd., North Dist., Tainan City 704029 , Taiwan

E-mail: hsinlinting@gmail.com



Project Title: H&H Tower
Project Location:
Kaohsiung, Taiwan
Project Type: New Green Wall
Vegetated Area: Total 50M²
Designer: Patrick Blanc
Landscape construction:
HSIN LIN TING BOTANY GARDEN
Address: No. 142, Wencheng 3rd Rd., North Dist., Tainan City 704029 , Taiwan
E-mail:
hsinlinting@gmail.com

Completion:
2018





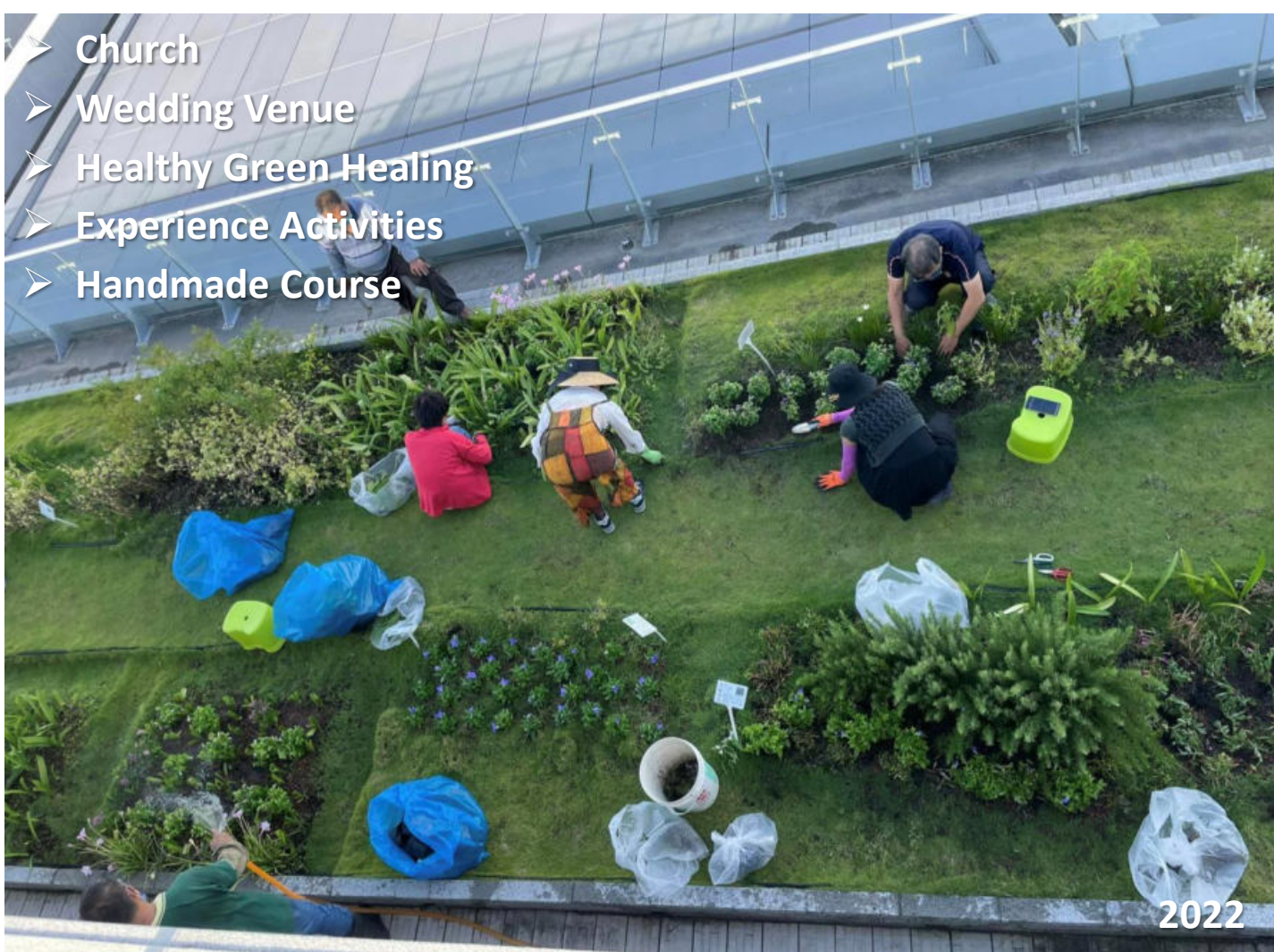
Completion: 2020

Green roof helps solar panels cool down (61.8°C reduced to 36.4°C), Solar panel output power may be increased via green roof (increase 23.3% power generation).

Project Title: Rende Wastewater Treatment Plant
Project Location: Tainan, Taiwan
Project Type: Retrofit Green Roof
Vegetated Area: 233.68M²
Designer: HSIN LIN TING BOTANY GARDEN
E-mail: hsinlinting@gmail.com
Address: No. 142, Wencheng 3rd Rd., North Dist., Tainan City 704029 , Taiwan



- Church
- Wedding Venue
- Healthy Green Healing
- Experience Activities
- Handmade Course



Project Title: Rainbow Sky Garden
Project Location: Rainbow Hymn Culture & Creativity, Tainan, Taiwan
Project Type: Retrofit Green Roof Vegetated Area: Total 405.8M²
Designer: HSIN LIN TING BOTANY GARDEN
Address: No. 142, Wencheng 3rd Rd., North Dist., Tainan City 704029 , Taiwan
E-mail: hsinlinting@gmail.com

- Church
- Wedding Venue
- Healthy Green Healing
- Experience Activities
- Handmade Course



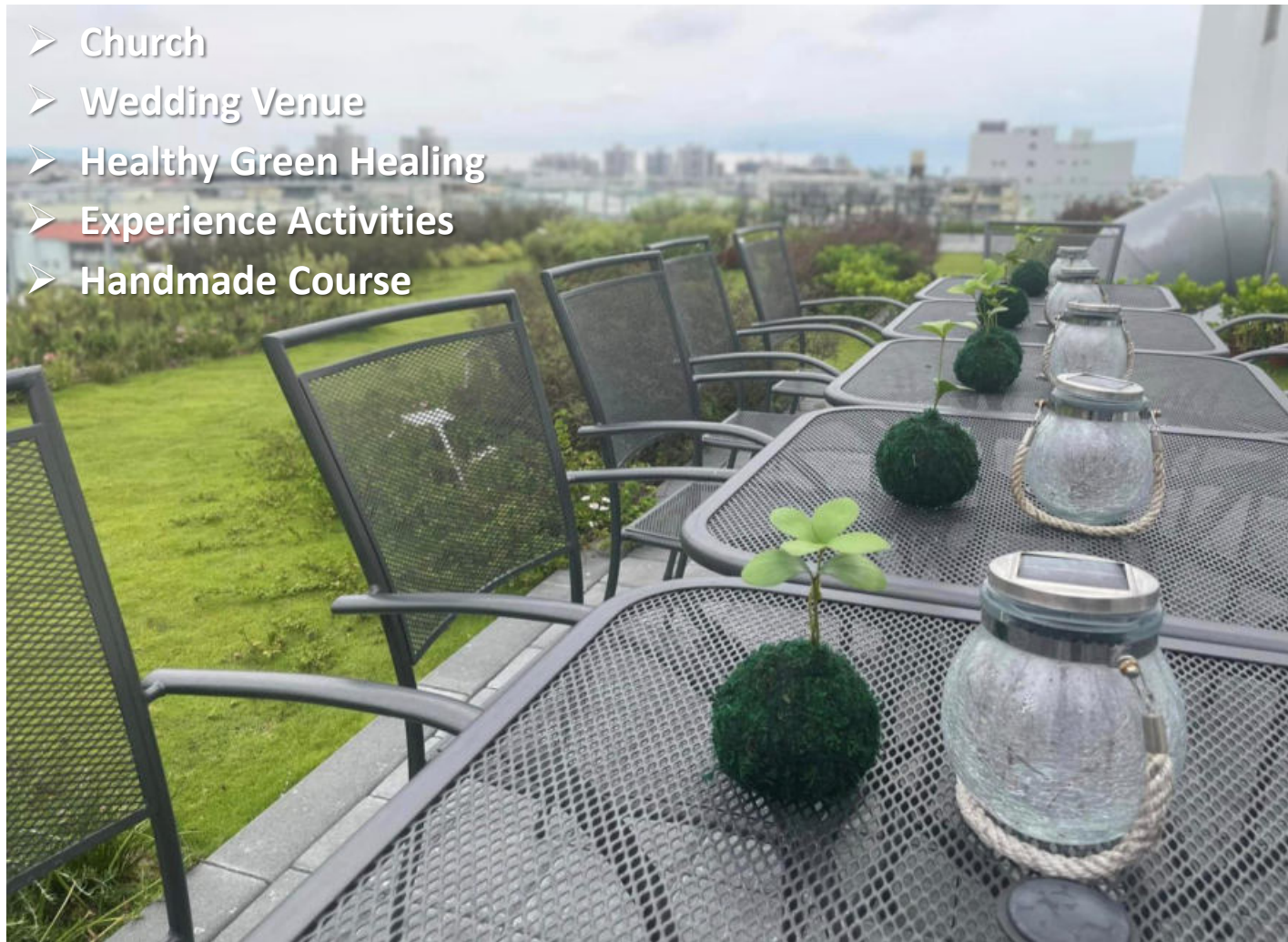
Project Title: Rainbow Sky Garden
Project Location: Rainbow Hymn Culture & Creativity, Tainan, Taiwan
Project Type: Retrofit Green Roof Vegetated Area: Total 405.8M²
Designer: HSIN LIN TING BOTANY GARDEN
Address: No. 142, Wencheng 3rd Rd., North Dist., Tainan City 704029 , Taiwan
E-mail: hsinlinting@gmail.com

- Church
- Wedding Venue
- Healthy Green Healing
- Experience Activities
- Handmade Course



Project Title: Rainbow Sky Garden
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Address: No. 142, Wencheng 3rd Rd., North Dist., Tainan City 704029 , Taiwan
E-mail: hsinlinting@gmail.com

- Church
- Wedding Venue
- Healthy Green Healing
- Experience Activities
- Handmade Course



Project Title: Rainbow Sky Garden
Project Location: Rainbow Hymn Culture & Creativity, Tainan, Taiwan
Project Type: Retrofit Green Roof Vegetated Area: Total 405.8M²
Designer: HSIN LIN TING BOTANY GARDEN
Address: No. 142, Wencheng 3rd Rd., North Dist., Tainan City 704029 , Taiwan
E-mail: hsinlinting@gmail.com



Project Title: Shuijiaoshe Park **Project Location:** Tainan, Taiwan **Project Type:** Park (2.2hectare)
Designer: Motif Planning & Design Consultants
Landscape construction: HSIN LIN TING BOTANY GARDEN
Address: No. 142, Wencheng 3rd Rd., North Dist., Tainan City 704029 , Taiwan
E-mail: hsinlinting@gmail.com **Completion:** 2020

Jhong-Jheng Elementary School Green Roof Green Wonderland



Project Title : Jhong-Jheng Elementary School

Project Location : Kaohsiung, Taiwan

Project Type : Green Roof\Three-dimensional Greening

Vegetated Area : 615.7m²

Designer : TOP DESIGN ENGINEERING CONSULTATION CO.,LTD.

Landscape Construction : GREEN EMPIRE INDUSTRIAL CO.,LTD.

Address : 6F-2, No.172-7, Sih Wei 4th Rd., Linya Dist., Kaohsiung City 80247, Taiwan

E-mail : top.bng@msa.hinet.net

Jhong-Jheng Elementary School Green Roof Green Wonderland



Project Title : Jhong-Jheng Elementary School

Project Location : Kaohsiung, Taiwan

Project Type : Green Roof\Three-dimensional Greening

Vegetated Area : 615.7m²

Designer : TOP DESIGN ENGINEERING CONSULTATION CO.,LTD.

Landscape Construction : GREEN EMPIRE INDUSTRIAL CO.,LTD.

Address : 6F-2,No.172-7,Sih Wei 4th Rd.,Linya Dist.,Kaohsiung City 80247,Taiwan

E-mail : top.bng@msa.hinet.net

Singuang Elementary School Butterfly Garden Green Roof



Singuang Elementary School Butterfly Garden Green Roof



Project Title : Singuang Elementary School

Project Location : Kaohsiung, Taiwan

Project Type : Green Roof\Solar Photoelectric

Vegetated Area : 390.4m²

Designer : TOP DESIGN ENGINEERING CONSULTATION CO.,LTD.

Landscape Construction : GREEN EMPIRE INDUSTRIAL CO.,LTD.

Address : 6F-2, No.172-7, Sih Wei 4th Rd., Linya Dist., Kaohsiung City 80247, Taiwan

E-mail : top.bng@msa.hinet.net

Singuang Elementary School Butterfly Garden Green Roof



Project Title : Singuang Elementary School

Project Location : Kaohsiung, Taiwan

Project Type : Green Roof\Solar Photoelectric

Vegetated Area : 390.4m²

Designer : TOP DESIGN ENGINEERING CONSULTATION CO.,LTD.

Landscape Construction : GREEN EMPIRE INDUSTRIAL CO.,LTD.

Address : 6F-2, No.172-7, Sih Wei 4th Rd., Linya Dist., Kaohsiung City 80247, Taiwan

E-mail : top.bng@msa.hinet.net

Singuang Elementary School Butterfly Garden Green Roof



**“When the flowers bloom,
the butterflies will gather.”**



Project Title : Roof Garden of Singuang Elementary School.
Project Location : Kaohsiung, Taiwan
Project Type : Green Roof\Solar Photoelectric
Vegetated Area : 390.4m²
Designer : TOP DESIGN ENGINEERING CONSULTATION CO.,LTD.
Landscape Construction : GREEN EMPIRE INDUSTRIAL CO.,LTD.
Address : 6F-2, No.172-7, Sih Wei 4th Rd., Linya Dist., Kaohsiung City 80247, Taiwan
E-mail : top.bng@msa.hinet.net

Kaohsiung Medical University "Garden of Luxury"



Garden
of
Luxury



Project Title : Kaohsiung Medical University

Project Location : Kaohsiung, Taiwan

Project Type : Green Roof

Vegetated Area : 634m²

Designer : TOP DESIGN ENGINEERING CONSULTATION CO.,LTD.

Landscape Construction : GREEN EMPIRE INDUSTRIAL CO.,LTD.

Address : 6F-2, No.172-7, Sih Wei 4th Rd., Linyu Dist., Kaohsiung City 80247, Taiwan

E-mail : top.bng@msa.hinet.net



1. Project name: Yuanpei University of Medical Technology, Rooftop farm
2. Location: Hsinchu City, Taiwan
3. Landscape design unit/designer: Lansan Landscape Ltd.
4. Special facilities/construction methods: Polygreen Tray
5. Design unit Email: Lan,LiangWen (lansan8888@gmail.com)





1. Project name: Green roof of Industrial Technology Research Institute
2. Location: Hsinchu City, Taiwan
3. Landscape design unit/designer: Lansan Landscape Ltd.
4. Special facilities/construction methods: Polygreen Tray 、 Application of Lightweight Soil
5. Design unit Email: Lan,LiangWen (lansan8888@gmail.com)



1. Project name: Low Carbon Exhibition Hall, Green Roof
2. Location: Kinmen County, Taiwan
3. Landscape design unit/designer:Lansan Landscape Ltd.
4. Special facilities/construction methods: Polygreen Tray 、 Application of Lightweight Soil
5. Design unit Email: Lan,LiangWen (lansan8888@gmail.com)



1. Project name: Residential roof greening
2. Location: Hsinchu City, Taiwan
3. Landscape design unit/designer:Lansan Landscape Ltd.
4. Special facilities/construction methods: 隔熱蓄排水板、Application of Lightweight Soil
5. Design unit Email: Lan,LiangWen (lansan8888@gmail.com)



National museum of marine- Administration Building Green Roof



1. Project name: National museum of marine- green roof project of administrative building
2. Location: Keelung City, Taiwan
3. Design Unit/Designer: Zhongyan Engineering Technology Consulting Co., Ltd. / Greenpros. Co., Ltd
4. Special facilities/construction methods: Extensive green roof system and lightweight soil
5. Design unit Email: Zhong Yan (zyeccmail@gmail.com), Greenpros (greenpros.tw@gmail.com)

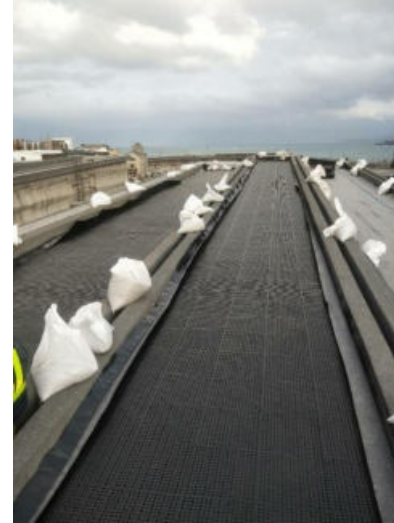
Construction process



ZinCo Root Barrier Membrane



Protection Mat



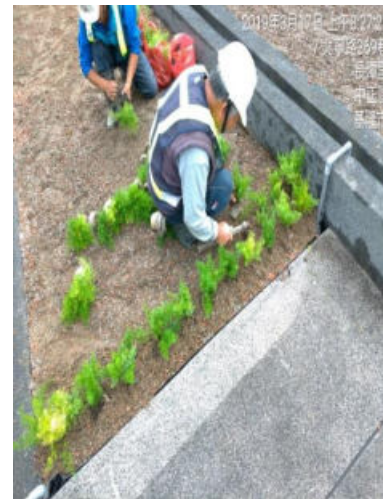
Drain board



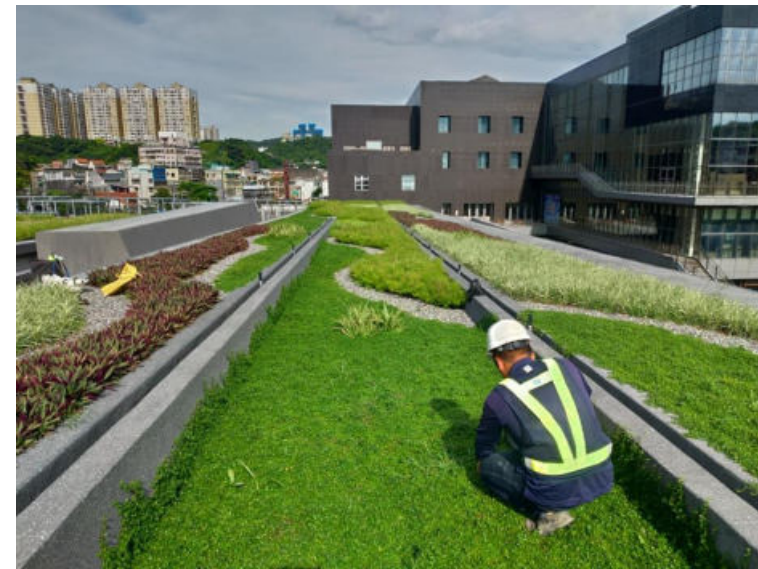
Filter blanket



Lightweight soil



49 plants/m²



Maintenance

Choosing Ground Cover Plants for Coastal Climates



Choosing Ground Cover Plants for Coastal Climates



Photo via Greenpros

Chwangjan construction company - Moon Park Building



1. Project name: Chwangjin Moon Park Residential Building
2. Location: Taichung City, Taiwan
3. Architectural Planning: WAA Architects
4. Landscape design unit/designer: Motif Planning & Design Consultants/ Wu Shu-Yuan
5. Special facilities/construction methods: Tree Root Ball Fixing Method & Application of Lightweight Soil
6. Design unit Email: Motif (motiflandscape@gmail.com)

Biodiversity planting design, creating a natural and casual style



Photo via Greenpros

Used lightweight soil and a fixed root ball for root growth



Photo via Greenpros

MOXA Factory



1. Project name: MOXA Factory
2. Location: Taoyuan, Taiwan
3. Architectural planning and landscape design: Bio-architecture Formosana (BaF)
4. Special Facilities/Construction Method : Intensive green roof design
5. E-mail of design unit: BaF (arch@bioarch.com.tw)

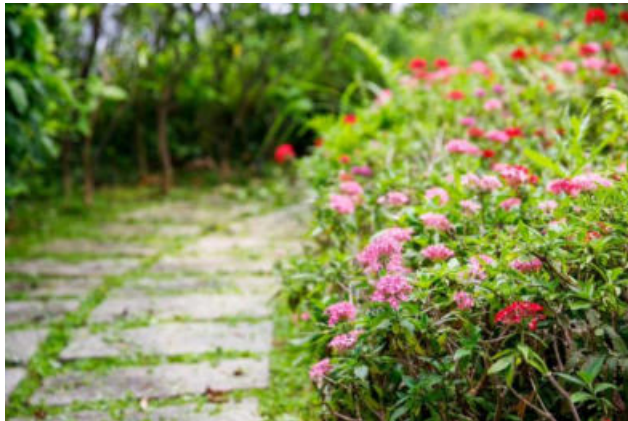
Photo via BaF

6F green roof - Many Taiwan native species are planted



Photo via BaF

Plant many nectar plants for butterflies and bees



5F Green Roof



The fifth floor is designed as a rest garden, providing a place for employees to rest.

Neihu Flower Market DIY Green Roof Demonstration

Application of polygreen box



DIY of GreenRoog process



Lay the drainage board



Install the side panels



installation of carbonized bamboo boards/ Plants

Photo via Greenpros

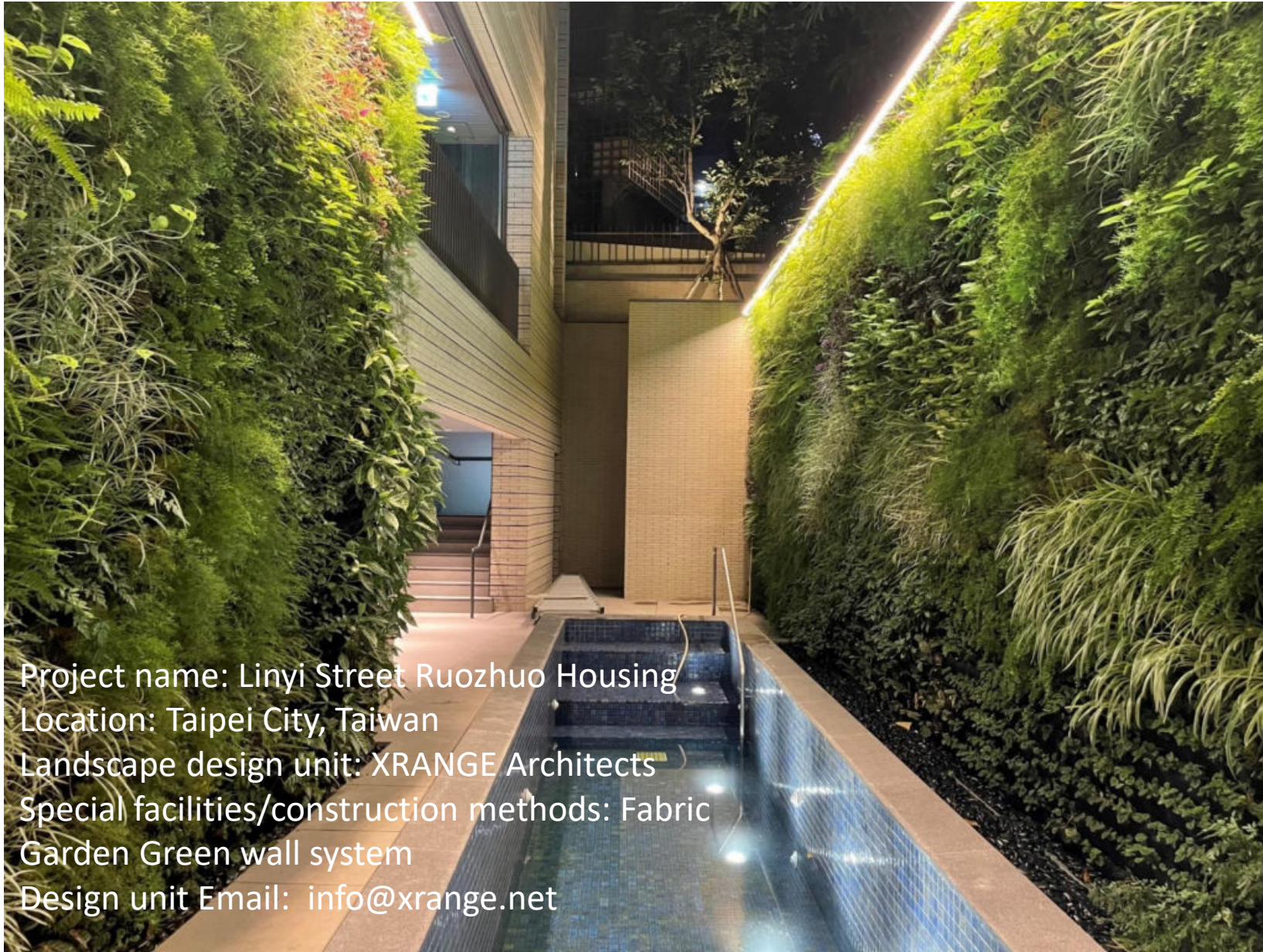


Lay filter blanket and lightweight soil

Yuanshan Exhibition Hall Green Roof DIY Demonstration



Linyi Street Ruozhuo Housing



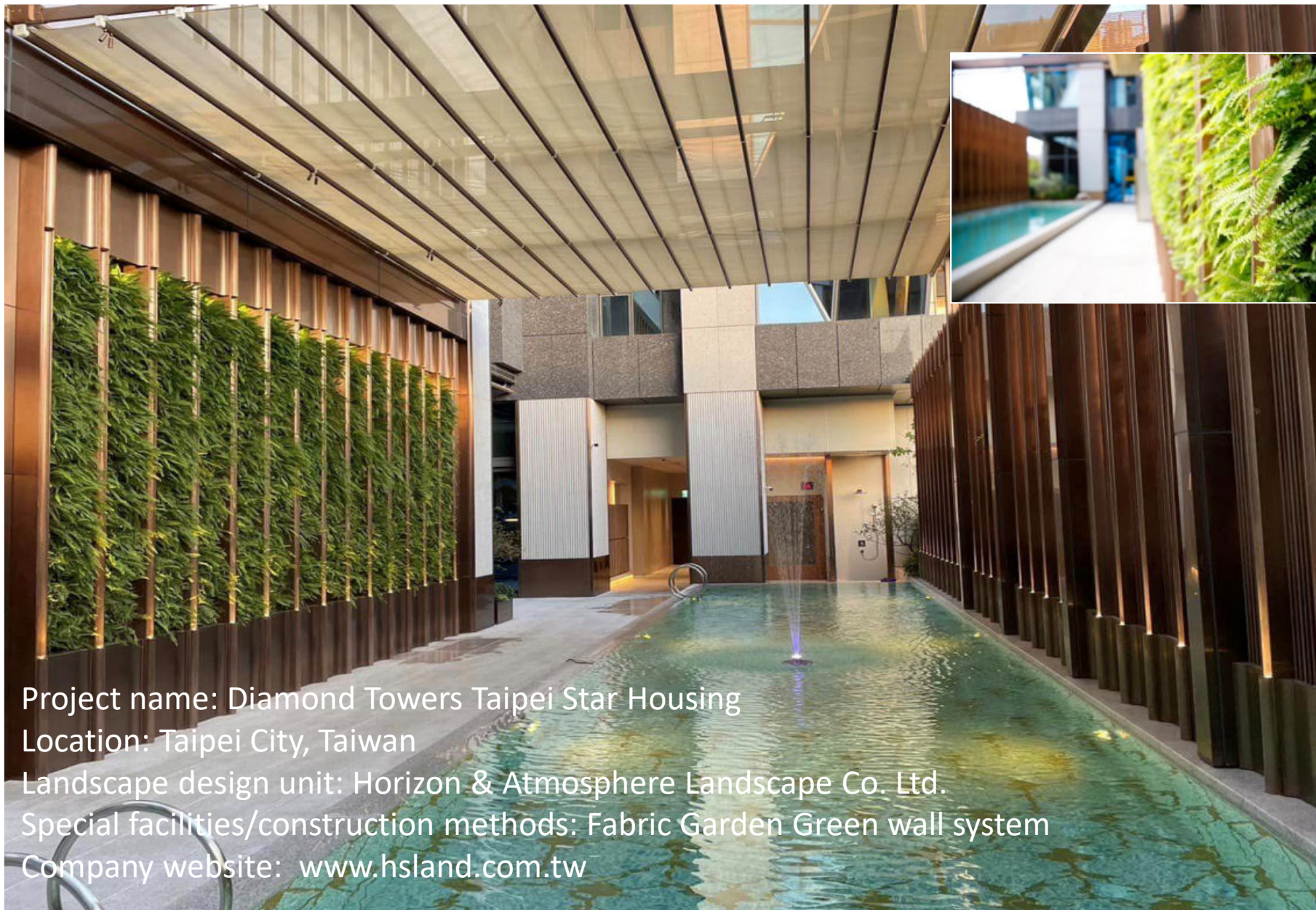
Project name: Linyi Street Ruozhuo Housing
Location: Taipei City, Taiwan
Landscape design unit: XRANGE Architects
Special facilities/construction methods: Fabric
Garden Green wall system
Design unit Email: info@xrange.net

Linyi Street Ruozhuo Housing



Photo via Greenpros

Diamond Towers Taipei Star Housing



Project name: Diamond Towers Taipei Star Housing

Location: Taipei City, Taiwan

Landscape design unit: Horizon & Atmosphere Landscape Co. Ltd.

Special facilities/construction methods: Fabric Garden Green wall system

Company website: www.hsland.com.tw

Photo via Greenpros

Diamond Towers Taipei Star Housing



Photo via Greenpros

Zhonghe tax office roof farmer garden



Each can store
32L of water



Project name: Zhonghe tax office roof farmer garden

Location: New Taipei City, Taiwan

Landscape design unit: Greenpros. Co., Ltd

Special facilities/construction methods: DIY Planter Box

Design unit Email: greenpros.tw@gmail.com

Photo via Greenpros

Project name: Farmer garden

Location: Taipei City, Taiwan

Planter: YIU TSAY Co., Ltd

Special facilities/construction methods: DIY Planter Box

Vegetable planter



水耕杯、育苗海綿、發泡煉石
hydroponic cup, nursery foam, expanded clay

接水三通、過濾硝化石
3-head connector x2 (one in and one out),
filter stone

沉水馬達、水管
Submersible motor, hose

6-12孔菜箱含接桿
Planting box with 6-12 openings, posts

沉澱池水箱含接桿
sedimentation tank, posts

養魚箱含接桿
fish tank, posts

底盤
base plate

魚菜共生
水耕箱
Hydroponic
system

魚菜共生水耕箱簡單組裝，可有效利用水資源。當中層沉澱池的水滿了，可經由過濾網回流至下層過濾盒，有效潔淨水質，且只需重複清洗過濾海綿，就能持續使用，透過沉水馬達將水抽回中層循環再利用，具備了省水、節能的優點。
A simple hydroponics system is able to recycle precious water resources. The water overflows from the middle sedimentation tank, running through the bottom filtration box and return to the middle box in a pure and clean state via a submersible motor. With a simple rinse of the filter sponge, the water is recycled continuously presenting the benefits of water and energy conservation.

Rooftop Farm

Fruits farming

1. Is a sustainable system (Nimbolkar et al., 2016).
2. Is recognized for carbon storage because they can capture a large quantity of C in their vegetative organs for a longer period of time (Nardino et al., 2013)
3. Orchards soil is the primary terrestrial carbon sink globally (Hammad et al., 2020).
4. The carbon capture process can be done by different plant organs: trunks, branches, leaves, flowers, fruits, and roots (Henry et al., 2020).
5. The heavy bearing ability of fruit trees has a great tendency to increase carbon capturing from the atmosphere and store it in the form of cellulose (Patil and Kumar, 2017; Zade et al., 2020).
6. Fruit orchards can significantly contribute to sustainable fruit production under changing climate scenarios in tropical and sub-tropical areas (FAO, 2010; Nath et al., 2019).
7. Orchardists can derive their remuneration via carbon trading and gaining creditability (Page et al., 2011).

CO₂ absorbed by human?



Project name: Vitality Village
Designer: Bjarke Ingels Group (BIG)
Areas: 27000m²
Height: 30m
Slope: 0 to 75 degree



Project name: Vitality Village

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Height: 30m

Slope: 0 to 75 degree



Project name: Vitality Village display Hall

Designer: Bjarke Ingels Group (BIG)

Areas: 775m²

Cost: 330USD/m²

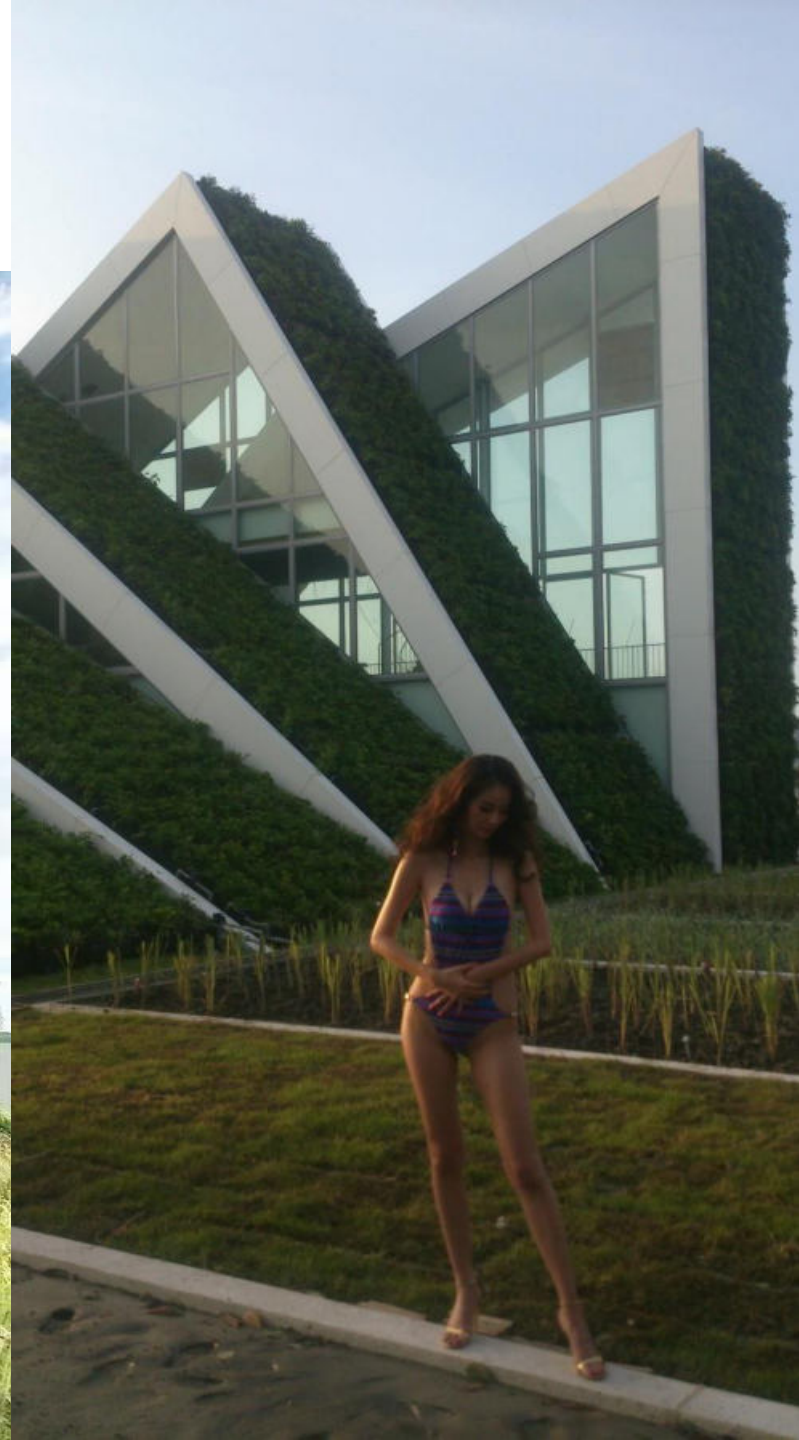


Project name: Vitality Village display Hall

Designer: Bjarke Ingels Group (BIG)

Areas: 775m²

Cost: 330USD/m²





Green Wall Systems and Products



Green Wall System

Koo Foundation Sun Yat-Sen Cancer
Center (TAIWAN)

Designer: Promising Material Co., Ltd.

Area : 130m²

Date of completion: March 7, 2017



Green Wall Systems and Products

Green Wall System - Maintenance records
Koo Foundation Sun Yat-Sen Cancer Center (TAIWAN)



○ March, 2017



○ August, 2017



○ February, 2018



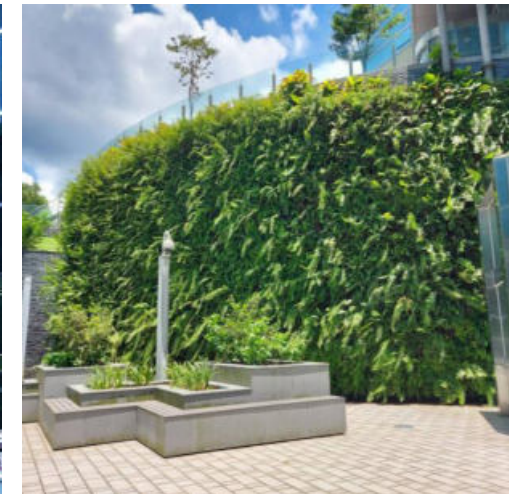
○ October, 2018



○ September, 2019



○ February, 2020



○ February, 2021



Vertical Greenery Project: Mountain I

2017 Banmu Tang 若山

Total Patio greening area: 4191m²
21 types of trees
144 types of shrubs and other plants
Highest tree is 7m
Green coverage rate is 150%
Carbon fixation rate is increased by
3.43 times.





2017 Banmu Tang





Vertical Greenery Project: Mountain II

2018 Banmu Tang 若合山

Second example of collaboration with Banmu Tang for vertical greening. Plants and vines were selected based on micro climate simulations to ensure continual growth.





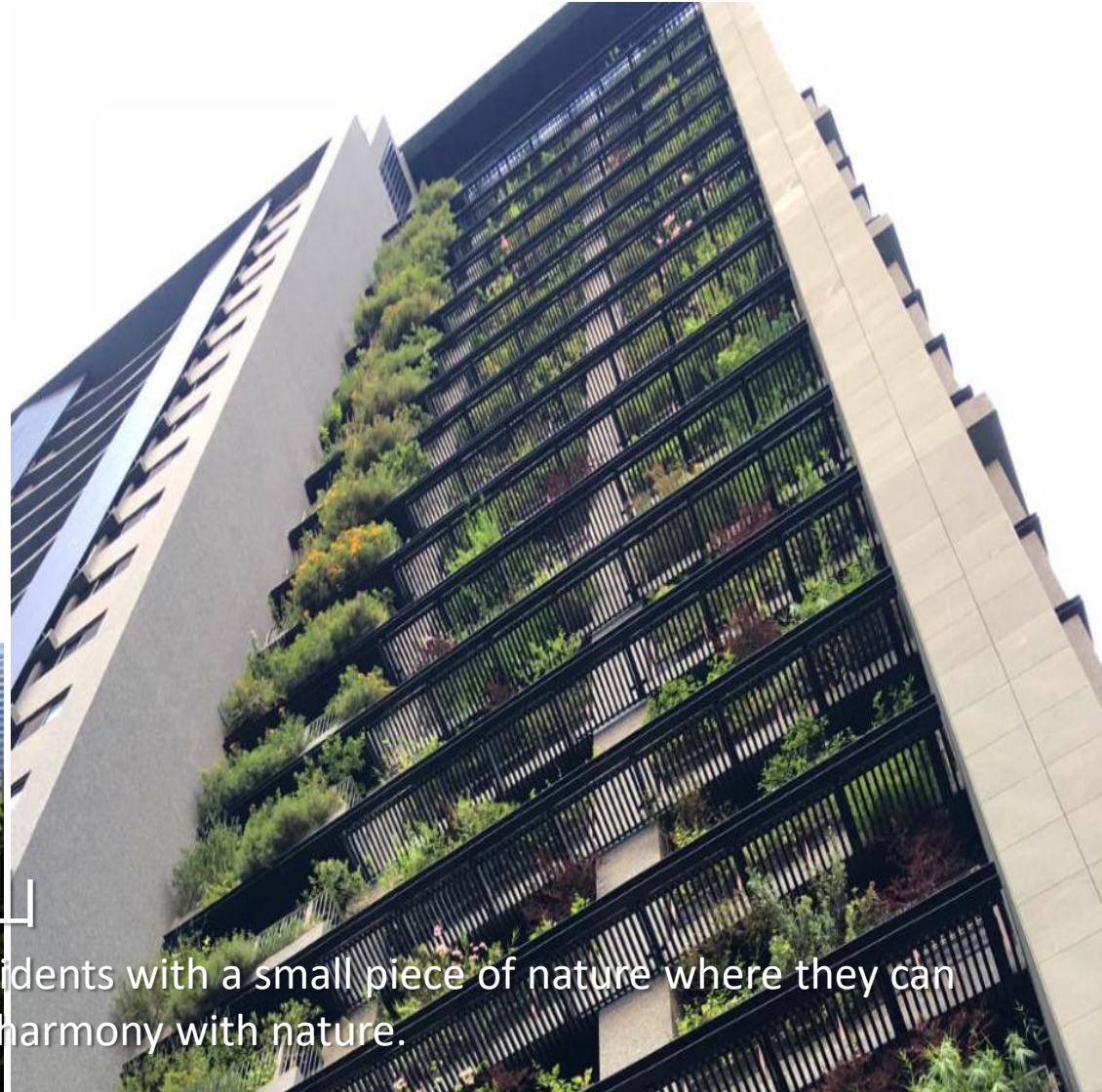
Vertical Greenery Project: Mountain II



2018 Banmu Tang 若合山



Vertical Greenery Project: Mountain II



2018 Banmu Tang 若合山

Seasonal maintenance provides the residents with a small piece of nature where they can observe and understand how to live in harmony with nature.



Vertical Greenery Project

2017 Pauian Archiland 富富話合

Planting trees on patios





Vertical Greenery Project

2017 Pauian Archiland 富富話合

The design utilizes the tree crowns on each layered patios to create the image of a cloud.





Vertical Greenery Project



Pottery works from local Landscape Architect/Artist

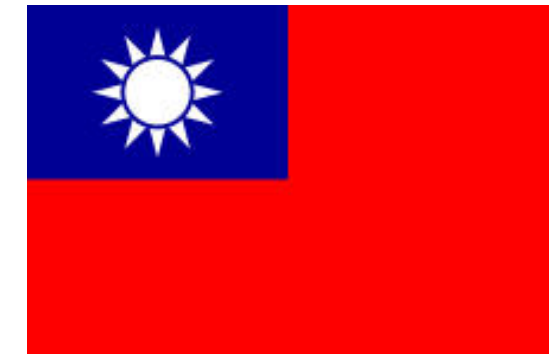


1. Project name: The comprehensive improvement project for the rural settlements including Rui Long in Lu Ye Township.
2. Designer: Jin Ying Yei Tao Pottery Ltd/Elegant lifestyle Co. Ltd.
3. Address: No. 21, Sec. 1, Ruijing Rd., Luye Township, Taitung County 955, Taiwan (R.O.C.)





Thank you



台灣綠屋頂暨立體綠化協會
Taiwan Green Roof & Green Wall Association