

# LUNCH BREAK / 午餐时间



URBAN  
SH/FT

# Post-lunch energizer / 午餐后提神饮品



**URBAN  
SH/FT**

**IISD'S SLIDES**

**URBAN  
SH/FT**

**AIPH'S SLIDES**

# TEA BREAK / 茶歇



URBAN  
SH/FT

**Interactive Exercise:  
Conduct Your Own  
Cost-benefit  
Assessment**

**互动练习：自行  
开展成本效益分  
析**

- **Split into equally-sized groups / 将人群分成大小相等的组**
- **Choose one of the NBI examples provided (or create your own) / 选择提供的NBI示例之一（或自行创建）**
- **Which indicators are most important to quantify and include in the cost-benefit assessment? / 在成本效益分析中，哪些指标是最重要的，需要进行量化并纳入评估范围？**
- **Use the template to write your notes / 使用模板撰写您的笔记。**
- **Report back in plenary - 5 mins each / 在全体会议上汇报 - 每人5分钟**



#### **Tree planting / 植树**

The trees are planted in a densely populated urban area that faces increasing climate impacts / 这些树木种植在人口稠密的城市地区，该地区正面临日益加剧的气候变化影响。



#### **Wetland / 湿地**

The wetland is located close to an urban area. Nearby communities depend on agriculture and fisheries for their livelihoods. / 该湿地靠近城市区域。周边社区的生计主要依赖农业和渔业。

# Which indicators are most important to quantify and include in the Cost Benefit Analysis? /

在成本效益分析中，哪些指标是最重要的，需要进行量化并纳入分析？

Choose one of the NBI projects / 选择一个NBI项目

Try to think of economic, social and environmental indicators / 请尝试考虑经济、社会和环境指标。

	Indicator for CBA / CBA指标	Social, environmental, or economic indicator? / 社会指标、环境指标还是经济指标？
Costs / 费用		
Avoided costs / 避免的成本		
Added benefits / 额外优势		

**End of Day 2**

**Day 3 and site visit  
reminder**

**Thank You**

**第一天结束**

**感谢您**



# AIPH

## International Association of Horticultural Producers

Dr Audrey Timm.

Technical Initiatives Manager  
and Lead, Green Cities, AIPH



# AIPH – Our Vision

We are the world's champion for the power of plants



Living Green for Biodiversity & Urban Ecosystem Restoration



Living Green for Climate Change



Living Green for Health & Wellbeing



Living Green for Water



Living Green for Social Cohesion & Inclusive Communities



Living Green for Urban Agriculture & Food Systems



Living Green for Urban Infrastructure & Livability

# AIPH – this is what we do:

we put flower, plant and landscaping products and services on a global agenda



Stimulate increased worldwide demand for ornamental horticulture trees, plants, and flowers



Lead best practice in ornamentals production, design, & usage



Be a global hub for industry information and knowledge exchange



Protect and promote the interests of the industry



Strengthen national grower associations



Nurture partnerships to extend our influence and impact



The world's champion for the power of plants

# AIPH – the facts

- Established in 1948
- Non-profit organisation
- Registered in Brussels
- Organisational structure of:  
board,  
members,  
affiliate members, and  
secretariat
- Secretariat is based in the UK



- Members
  - Are organisations representing horticulture growers, wholesalers and retailers in one or more regions or countries
  - 70+ members
  - Global coverage

# AIPH –

- Members - organisations representing horticulture growers, wholesalers and retailers in one or more regions or countries



中国花卉协会  
CHINA FLOWER ASSOCIATION

P.R. CHINA  
China Flower Association



CHINESE JAPAN  
1983, Osaka, Japan



JFHW  
Japan Floriculture Horticulture Association



REP. KOREA  
Korean Association for the Advancement of the Flora Culture, KAFPC



REP. KOREA  
Korea Flower Cultivate Association (KFCFA)



INDONESIA  
Asosiasi Bunga Indonesia (ASBINDO (The Indonesian Flower Association))



INDONESIA  
YB/I  
Taman Nuzara – Liris : OF-0219



THAILAND  
The Royal Thai Government  
Department of Agriculture



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# Nurture partnerships to extend our influence and impact



AIPH Advocacy framework - influencing key global processes that drive systemic change through the recognition that plants are critical; to global biodiversity, climate adaptation, and disaster risk efforts; in securing our collective future, which is increasingly more urban



The world's champion for the power of plants



WORLD  
GREEN CITY  
AWARDS  
2022



AIPH  
The world's champion  
for the power of plants

WORLD  
GREEN CITY  
AWARDS  
2024



AIPH  
The world's champion  
for the power of plants

WORLD  
GREEN CITY  
AWARDS  
2026

The AIPH World Green City Awards is the first and only global awards for cities where plants and nature are the core focus. As an ongoing competition with entries **open every 2 years**, the Awards recognise the role of city authorities in promoting and supporting greater inclusion of plants and nature in urban environments.

The Awards are designed to champion ambitious nature-orientated approaches to city design and operation. Specifically, they seek to recognise public initiatives relying on a greater use of plants and nature to create better city environments – helping to fulfil local aspirations for improved economic, social and environmental resilience.



**EVERYONE WINS  
CITIES. PEOPLE. PLANET.**

# Awards offered in 7 categories



Living Green for Biodiversity & Urban Ecosystem Restoration



Living Green for Climate Change



Living Green for Health & Wellbeing



Living Green for Social Cohesion & Inclusive Communities



Living Green for Urban Agriculture & Food Systems



Living Green for Urban Infrastructure & Livability



Living Green for Water

**EVERYONE WINS  
CITIES. PEOPLE. PLANET.**

# AIPH World Green City Awards

AIPH World Green City Awards 2022

# FINALISTS



Biodiversity



Health & Wellbeing



Climate Change



Social Cohesion



Water



Economic Recovery & Inclusive Growth

🍌 Bogotá D.C, Colombia

❤️ Brimbank, Australia

🌿 İzmir, Türkiye

👥 Paris, France

💧 Montréal, Canada

💰 Hyderabad, India

🍌 Paris, France

❤️ Utrecht, The Netherlands

🌿 Mexico City, Mexico

👥 Buenos Aires, Argentina

💧 Logan, Australia

💰 Mashhad, Iran

🍌 Victoria Park, Australia

❤️ Fortaleza, Brazil

🌿 Melbourne, Australia

👥 Suncheon, Republic of Korea

💧 uMhlathuze, South Africa

💰 Montréal, Canada



# AIPH World Green City Awards 2024 Finalists

 Chengdu, China

 Durban, South Africa

 Tshwane, South Africa

 Liverpool, UK

 Mandera, Kenya

 Melbourne, Australia

 Denver, USA

 New York, USA

 São Paulo, Brazil

 Joondalup, Australia

 Riyadh City, Saudi Arabia

 Unaizah, Saudi Arabia

 Belo Horizonte, Brazil

 Mexico City, Mexico

 Niterói, Brazil

 Cascais, Portugal

 Curitiba, Brazil

 Munich, Germany

 Baia Mare, Romania

 Rio de Janeiro, Brazil

 São Paulo, Brazil

# Living Green for Biodiversity and Urban Ecosystem Restoration

Addresses the loss of species, habitats, ecosystem health, and genetic diversity.

Living Green in a city provides habitats to support ecological communities for a diverse range of living organisms. Plants provide the backbone for all nature to thrive. City Biodiversity has an increasingly important role to play in global conservation efforts.

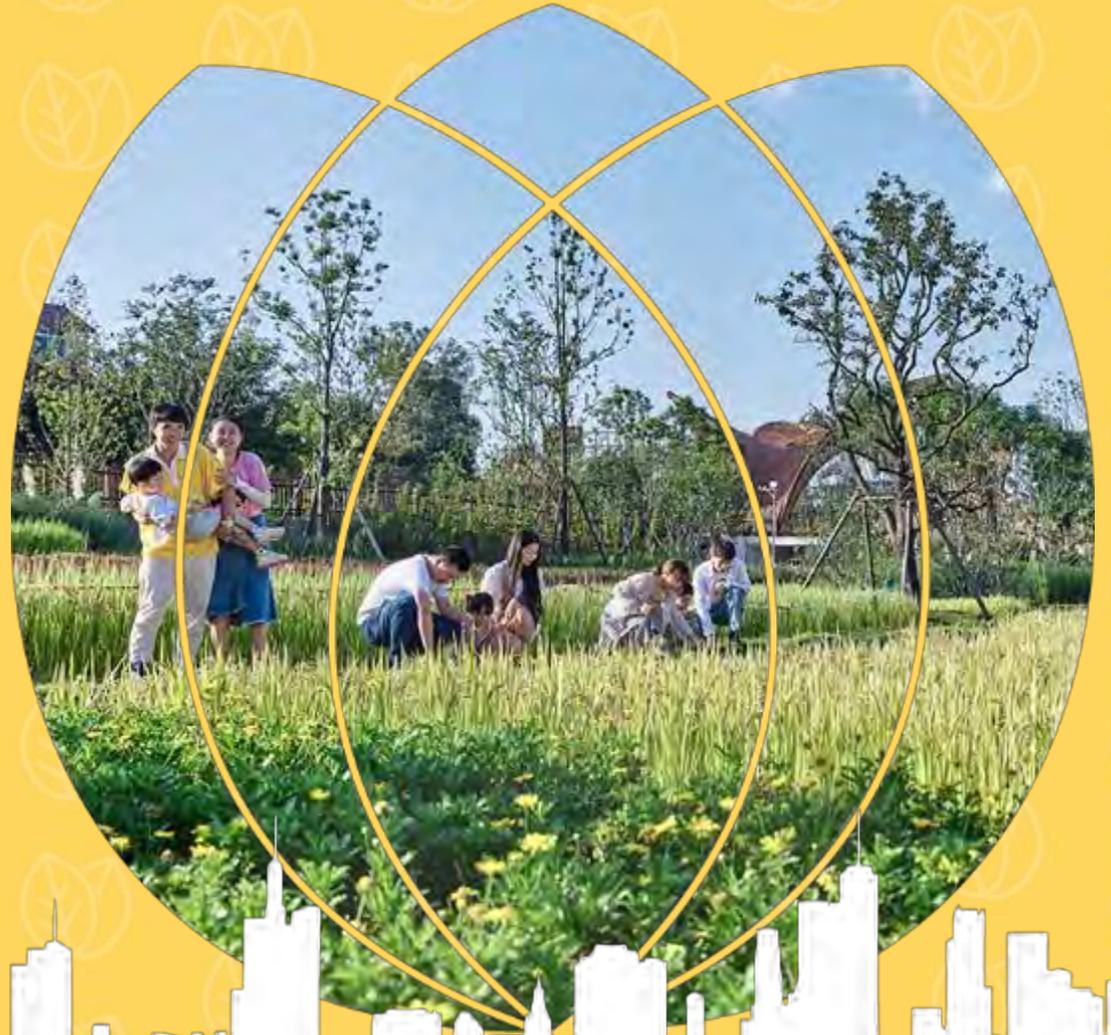


Living Green for Biodiversity and Urban Ecosystem Restoration

FINALIST

Urban Green  
Heart  
Program

*Chengdu, China*



WORLD  
GREEN CITY  
AWARDS  
2021

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# Living Green for Biodiversity and Urban Ecosystem Restoration

Chengdu, known as one of China's happiest cities, has been attracting over 600,000 people moving in as new residents each year for the past decade. In 2022, the number of permanent residents in Chengdu exceeded 21 million.

Against this backdrop, there is a strong desire among the residents **to incorporate nature into the city** and create a diverse and inclusive green space out of the concrete jungle **to enhance the city's vibrancy** and fulfil people's aspirations for a better life.

**Longquan Mountain as a Green Heart:** Chengdu's 2018 **Park City Action** transformed **Longquan Mountain** into a world-class "Urban Green Heart." This initiative is a core part of China's national development strategy, including the Chengdu-Chongqing Economic Circle.

**Prioritising Ecology and Biodiversity:** The project focuses on "Ecology Priority and Green Development," involving extensive **ecological restoration** and **biodiversity protection**. This has led to a significant increase in plant and animal species and the safeguarding of wildlife habitats.

**Community-Driven Greening & Environmental Gains:** The program has seen massive **community involvement**, with thousands of residents relocating and hundreds of thousands participating in **afforestation efforts**. These combined actions have successfully controlled urban development intensity and significantly boosted the region's overall environmental quality.



# Living Green for Biodiversity and Urban Ecosystem Restoration

Key innovations in Chengdu's urban biodiversity and ecological restoration efforts

## **Holistic Ecological Philosophy:**

The program shifts from isolated forest protection to an integrated approach, covering the comprehensive conservation of mountains, waters, forests, farmlands, lakes, and grasslands, with a strong focus on ecosystem and biodiversity preservation.

## **Advanced Ecological**

**Technologies:** Afforestation utilises local Sichuan-native plants with diverse genetic origins, sourced from multiple sites to enhance resilience against climate change and pests. Reforestation efforts strategically expand from core areas, aiming to transform the mountain into an "urban sponge" for optimal water management.

## **Diversified Financing**

**Models:** Breaking from government-exclusive funding, the program now attracts private and financial capital through supportive policies. This includes integrating private investment across all stages—from design to maintenance—and linking ecological conservation with activities such as cultural tourism and sports

During the implementation of the "Urban Green Heart" Programme, many accessible, participatory, and perceptible green ecological open spaces were provided for urban residents, including various cultural and sports events and popular science education activities.



# Living Green for Biodiversity and Urban Ecosystem Restoration

Monitoring, measuring and reporting impact

**Eco-value:** The Longquan Mountain Urban Forest Park's **eco-services were valued at 64.137 billion yuan in 2020** (Gross Ecosystem Product). This is tracked by a **smart monitoring system** that uses advanced tech such as satellite remote sensing, drones, and the Internet of Things.

**Monitoring strategy:** This strategy, with its 28 weather stations, 4 soil erosion points, and 34 fixed plots for **biodiversity monitoring**, specifically tracks typical **plant communities**, ecological types, and environmental elements. The monitoring covers 273 items across 61 categories.

**Demonstrating impact:** Data confirms that the park significantly **improves liveability** by providing a cooler environment in August (4°C lower than downtown) and higher levels of negative oxygen ions (23% higher) and air oxygen content (5.6% higher) within its **natural green spaces**. These findings highlight the positive impact of the park's **plants and nature** on the city.

A comparison before and after the tree planting activity shows impressive habitat creation from 2019-2022.

Recording 1,574 animal and plant species in the existing habitat, the programme put in place protection strategies for mature trees.



2019



2020



2021



2022



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# Living Green for Biodiversity and Urban Ecosystem Restoration

Monitoring, measuring and reporting impact

## Impact of interventions:

**Comprehensive databases and maps** provided details of **plant communities and biodiversity**.

In-depth analysis of vegetation types, biodiversity structure, and **plant succession** provided **valuable insights into ecosystem health and changes over time**,

## Ongoing impact:

The **distribution maps for flora and fauna** (including key protected, rare, endangered, and invasive species) are crucial. They are instrumental in systematically planning **species protection areas, ecological corridors** for migration and genetic exchange, and production nurseries.

## Extensive media outreach:

As well as formal reporting this includes regular nature watch festivals, citizen experience officer programs, and science activities. **Diverse media platforms**—broadcasting, television, newspapers, and websites— widely publicise the program to encourage broad public participation.

# The City of Chengdu, China, was named the Grand Winner of the AIPH World Green City Awards 2024

and was presented the highest accolade of the competition for their inspiring initiative, titled the “Urban Green Heart Programme.”



**EVERYONE WINS  
CITIES. PEOPLE. PLANET.**

# SUCCESS FACTORS

## ADVANCED PLANNING



➤ This plan had been included in the strategic planning of governments at municipal, provincial and state level.

➤ Exclusive agencies were set up and local regulations were made to ensure the implementation of plans

## TECHNOLOGICAL SUPPORT



40<sup>+</sup> Surveys  
more than 40 surveys were conducted

14<sup>+</sup> Plans  
14 plans and technical guidelines were compiled

## SHARED ACTIVITIES



400<sup>+</sup> Managers  
400+ management personnel of all levels were Assigned

500<sup>+</sup> Activities  
500+ activities such as tree planting and nature education for residents were carried out

# Main achievements

**70,600,000** m<sup>2</sup>

70.6 million square meters of forest increased

**800<sup>+</sup>** Species

more than 800 species of animals and plants increased

**24,040,000** m<sup>2</sup>

24.04 million square meters space were generated for afforestation



We donated **40000** tons of forestry carbon credits to support the green and low-carbon organization of the 31st Summer Universiade

01

Strengthening international exchanges and cooperation

02

Adopting the holistic approach to conserving mountains, rivers, forests, farmland, lakes, grasslands and sand

03

Consolidating the ecological foundation for Chengdu City

04

Promoting the diversity, stability, and sustainability of urban ecosystems

# *Win The Future With Ecology*

Chengdu Longquan Mountain Urban Forest Park Administrative Commission

Living Green for Biodiversity and Urban Ecosystem Restoration

WINNER

Urban Green  
Heart  
Program

*Chengdu, China*



<https://aiph.org/green-city-case-studies/collection/>



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# WORLD GREEN CITY AWARDS 2026

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AIPH

International Association of  
Horticultural Producers

Thank you

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