

# 臺北市公園綠地系統 策略規劃 Strategic Planning of Taipei City Park System

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## Green Infrastructure of Taipei

Area of Taipei City: 271.8 km<sup>2</sup>

Area of Slopeland: 150 km<sup>2</sup> (account for 55% of Taipei City)

#### Mountain .

- The basin is surrounded by mountains.
   Datun Mountain Range and Cising Mountain Range are pyrogenic rocks.
- Wujhih Mountain Range, Nangang Mountain Range and Erge Mountain Range are sedimentary rocks.

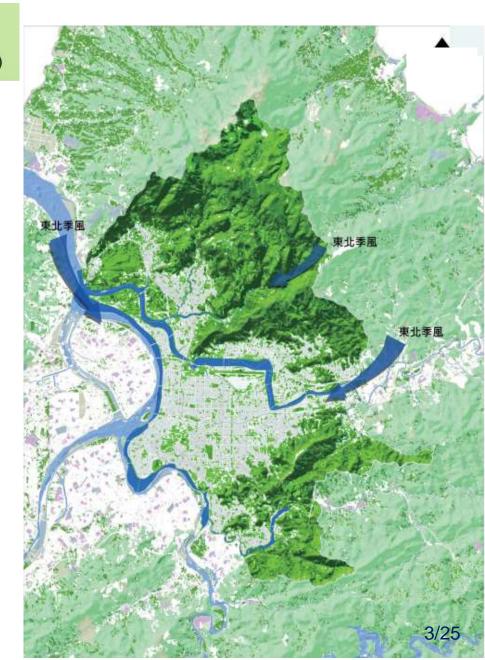
#### **Waterway**

- The stream system was completed from 30 to 60,000 years ago
- Xindianxi and Keelung Rivers gather to form Tamsui River, which is the source of the development of Taipei's settlements.

#### Wind

- Summer is mostly east wind and winter is northeast monsoon. Mainly from the Keelung River Valley into Taipei.
- Some of the suburban areas are guided by the terrain, and it turns northeast wind.

**Greenery** • The Taipei Basin has a heterogeneous, diverse and rich ecology and vegetation.



—. Green Infrastructure of Taipei

1. Multiple Green Resources

- National Parks
- **►** Slopeland
- **▶** Parks and Green Spaces
  - Parks
- Greenland
- Playground
- Plaza
- Riverside Park

► Reserve

► Scenic area

**▶** Boulevard



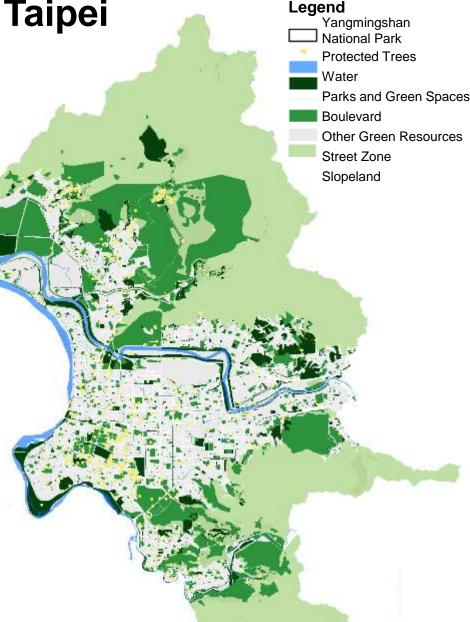


 $52.37 m^2$ 

(~2017.12)







— Green Infrastructure of Taipei

### 2. Urban Planning Division

Parks

Parks and Green Spaces per capita  $5.36 \ m^2$ 

Greenland

Plaza

Playground

Riverside Park

#### 3. Built Condition of Parks

| Built<br>Condition | Quantity | Area       |
|--------------------|----------|------------|
| Built              | 828      | 14,370,904 |
| Partially Built    | 44       |            |
| Unbuilt            | 203      | 6,909,750  |
| Total              | 1075     | 21,280,654 |



# —. Green Infrastructure of Taipei



# \_\_Strategic Planning of Taipei City Park System

### 1. Issue and Strategy

Green Resources Lack of overall planning Urban Planning Division leads the division of parks

Urban Disaster Prevention **Maintain sensitive areas** 

Facing a "complex" disaster

Resilient Hydrological Environment **Urban heavy rainfall** 

Water retention and storm management

Green Living Parks don't reflect the cultural connotation of the natives

Planning and design for different needs

Urban Heat Island

Urban Heat Island Effect

Administrative Management Integration of data and adaption

Strengthen the park management system

# Strategic Planning of Taipei City Park System

### 2. Planning Structure



- 1) Under the climate change, the challenge of ecological environment is the big issue
- 2) Responding to the needs of the public and professional sectors
- 3) Parks are the connecting living spaces



# Strategic Planning of Taipei City Park System

- 3. Formative Steps of Park Sytem Vision
- Step1\_
  The Nature of Northern Taiwan

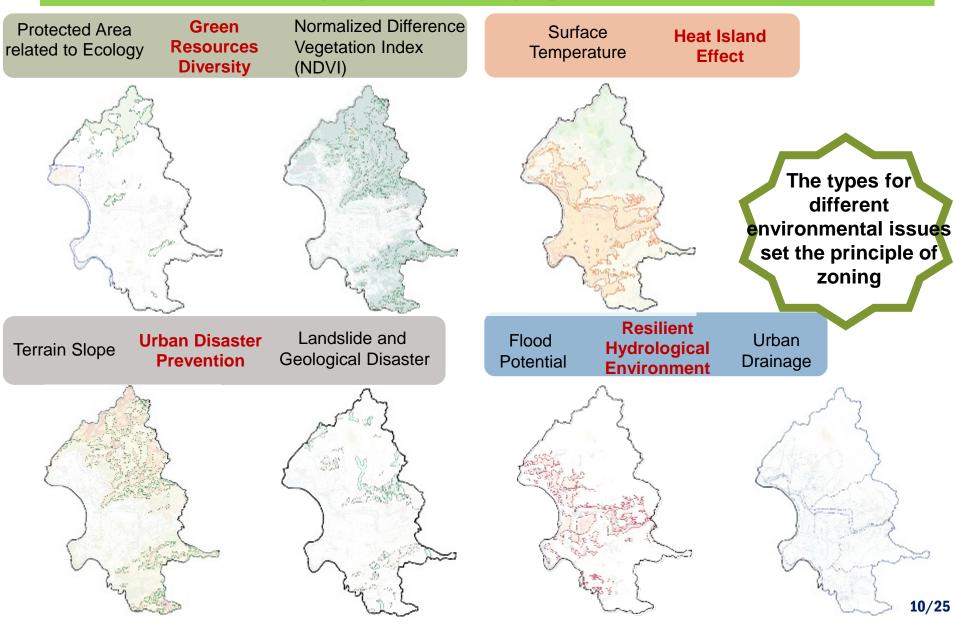


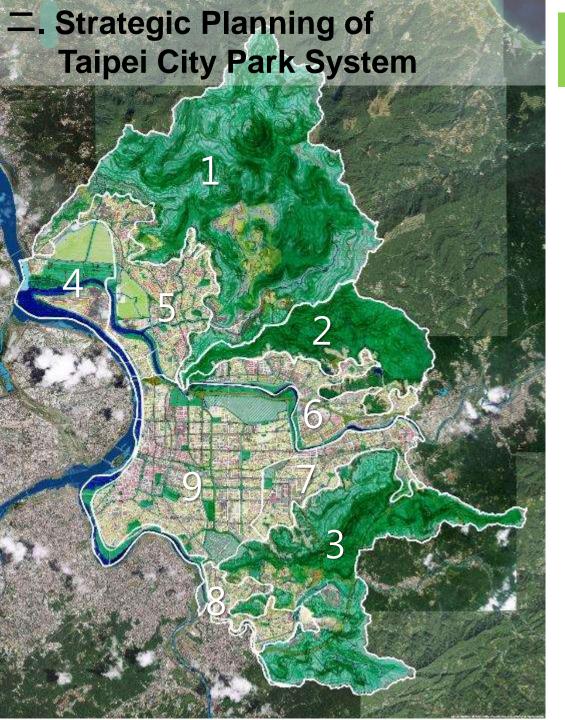
Step2\_

**Environmental Position of Taipei City** 

# 二. Strategic Planning of Taipei City Park System

4. Environmental Zoning Operation-Geographic Information System(GIS)





# 5. Build 9 Environmental Districts

#### **Preservations and Rehabilitation**

- 1. Mt. Datun and Mt. Qixing
- 2. Mt. Wuzhi
- 3. Mt. Nangang and Mt. Erge
- 4. Guandu, Shezi and Tamsui River

#### **Extensions and Linkage**

- 5. Shilin and Beitou District
- 6. Zhongshan and Neihu District
- 7. Nangang and Xinyi District
- 8. Wenshan District

#### **Multiple Boundaries**

#### **Network**

9. Built environment

## 二. Strategic Planning of Taipei City Park System

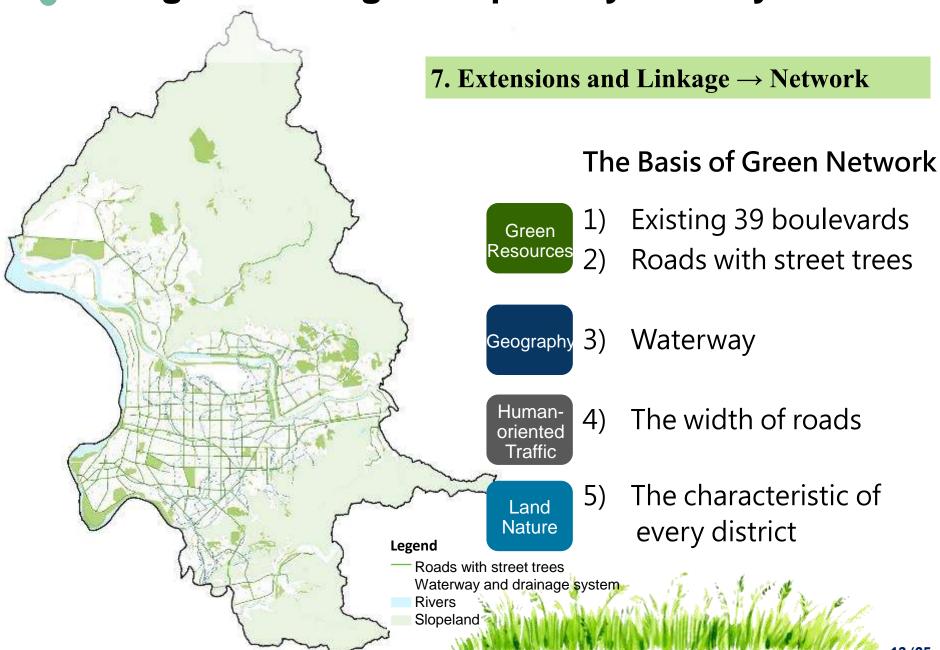


6. The Concept of Preservations and Rehabilitation

Parks above 20 hectares are the primary matrix of preservations and rehabilitation

Parks above 10 hectares are the secondary matrix of preservations and rehabilitation

# Strategic Planning of Taipei City Park System



# Strategic Planning of Taipei City Park System

8. 6 Planning Strategy

**Urban Disaster Prevention** 

**Green Living** 

Green Resources Diversity

**Taipei Parks** 

Resilient Hydrological Environment

Public Policy Urban Heat Island Effect

#### 1. Rainwater Tank Project







#### **Achievements**

- ► 19 parks
- Total area of rainwater tank: 1.75 ha
- Storage Capacity: 1209.83 ton

Future Goal(2022)

Storage Capacity: 2202.43 ton







### 2. Permeable Pavement Project

#### **Achievements**

- ► 54 parks
- Total area of permeable pavement: 4.98 ha

#### **Future Goal(2022)**

Total area of permeable pavement: 11.78 ha





Jraan Disaster

Resilient Hydrolog

**Стине Гольшатия** 





### 4. Park Ecologicalization-One Ecological Park in One District

- Important contribution
- 1) Let park users turn into park ecological guardians.
- Combine NGO groups and local community residents to promote ecological recovery and conservation concepts.
- 3) Create a diverse habitat environment.
- Continue to promote ecological conservation work
- 1) Local volunteer training and the adoption of parks.
- 2) Establish an ecological database and a park ecological census.







Urban Disaster

Green Resources

Green Living

4. Park Ecologicalization-One Ecological Park in One District

### **Achievement 1: Firefly Recovery**

#### **Progress**

- Since 2014, it has started to work with non-governmental organizations to plan park ecological pools.
- In 2017, it gained the right to host the International Firefly Annual Conference.
- In 2018, the Firefly Season was held to promote the importance of its habitat.







Sara Lewis, known as the firefly godmother, said in her Facebook "Taiwan has taken a leading position in the world for firefly conservation work. Through the efforts of Taiwanese researchers, the participation of government agencies and non-governmental organizations, it has achieved amazing results.





#### 4. Park Ecologicalization-One Ecological Park in One District

#### Achievement 2: 大灣草圳

Combining the resilience of urban, natural ecology, environmental education, five senses of healing, and healthy living, the innovative design case reshapes the humanistic ecological landscape of Daan Forest Park and the long-term goal of sustainable ecology.

#### ■ Progress

- 1) The first phase of 「臺北健森房」活水飛輪 completed in June 2018.
- 2) The second phase of 「水幫浦音樂療癒花園」 expected to started in August 2018, finished at the end of 2018.





Construction Area: 3,185m<sup>2</sup>
Rainwater Tank Storage: 100 ton



大灣草圳規劃圖



### 5. Wetland Parks in Taipei

- Nangang 202 Arsenal and Periphery Wetland (Local level)
- Guandu Nature Park (Danshuei River Drainage Wetlands)
- Zhoumei Xianzaigang Park
- SIN SIN Wetland Park
- Yong Chun Pi Wetland Park
- Shezi Daotou Park





Wetland Park

system

Park and green space

Green Living

Broom Resources

四. Prospect-Greening Taipei Leap Program

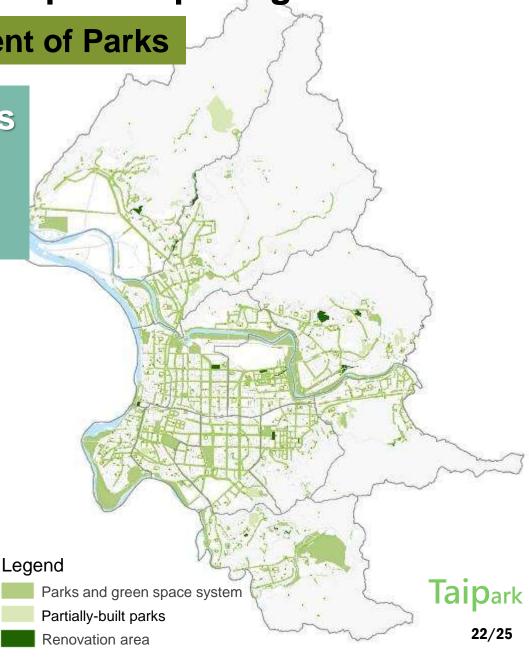
Goal 1- Quality Improvement of Parks

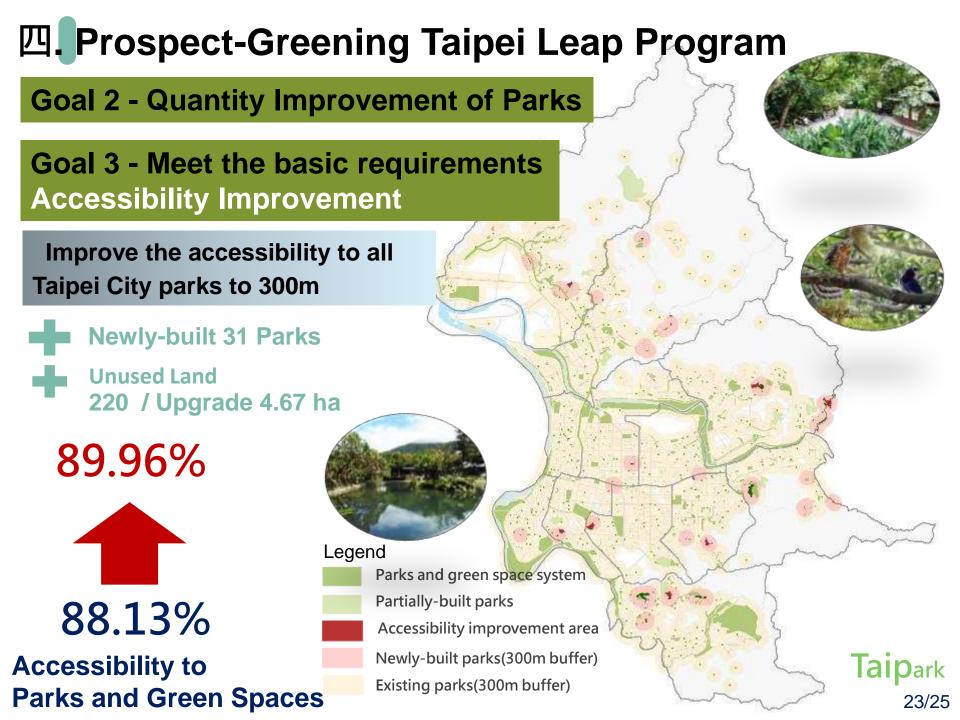
Renovation of Built Parks

Renovate 26 parks / Upgrade 67 ha

Upgrade 4.63%







四. Prospect-Greening Taipei Leap Program

**Goal 4 –Boulevard Improvement** 

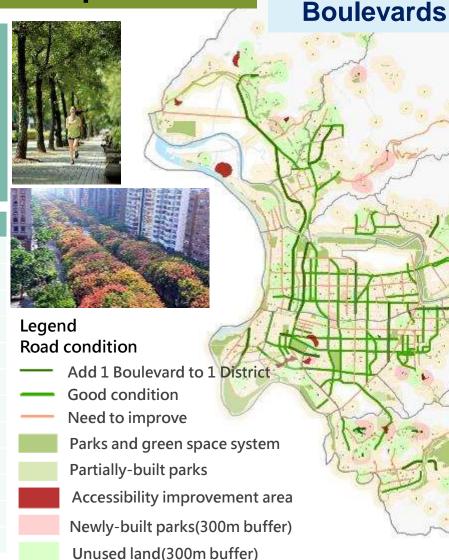
**Short-term Target:** 

Add 1 Boulevard to 1

**District** 

39+12=51

| 行政區 | 指認林蔭大道   |  |
|-----|----------|--|
| 松山區 | 復興北路     |  |
| 信義區 | 光復南路     |  |
| 中山區 | 中山北路一至六段 |  |
| 大安區 | 愛國東路     |  |
| 中正區 | 凱達格蘭大道   |  |
| 大同區 | 承德路      |  |
| 文山區 | 秀明路      |  |
| 萬華區 | 西園路二段    |  |
| 南港區 | 市民大道六至七段 |  |
| 內湖區 | 港墘路      |  |
| 士林區 | 忠誠路      |  |
| 北投區 | 大業路      |  |
|     |          |  |



Existing parks(300m buffer)

**Add 12** 



