

Toward a Cycling Island Challenges and Visions of Taiwan's Greenway Network



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Introduction

The Bicycle Manufacture Industries/ Taiwan

- 1945 – Import into Taiwan
- 1974 – Export to Europe/Globe
- 2015 Export to Europe : 64.75%
- 1980 – NO.1 Export Country
- 1985 – Kingdom of Bicycle Industry

排名	國別	三月	結構比	去年同期比	一~三月累計	結構比	去年同期比
1	英國	72,483	19.27%	31.18%	188,661	15.46%	37.35%
2	美國	53,425	14.20%	-19.56%	168,432	13.80%	7.46%
3	德國	42,034	11.17%	45.46%	107,534	8.81%	19.79%
4	瑞典	25,548	6.79%	42.93%	96,495	7.91%	27.22%
5	荷蘭	30,055	7.99%	25.26%	92,662	7.59%	18.48%
6	日本	32,476	8.63%	17.39%	79,781	6.54%	20.88%
7	義大利	3,690	0.98%	106.15%	53,128	4.35%	504.21%
8	比利時	7,869	2.09%	-18.62%	40,599	3.33%	44.73%
9	波蘭	4,319	1.15%	-43.43%	35,845	2.94%	52.73%
10	挪威	11,708	3.11%	46.57%	34,565	2.83%	-4.38%
11	加拿大	9,065	2.41%	12.11%	31,872	2.61%	9.80%
12	丹麥	9,416	2.50%	44.04%	31,699	2.60%	62.18%
13	大韓民國	12,952	3.44%	95.06%	26,469	2.17%	54.41%
14	泰國	4,907	1.30%	44.79%	20,754	1.70%	119.34%
15	俄羅斯	4,168	1.11%	0.80%	18,256	1.50%	-7.94%
16	芬蘭	1,318	0.35%	-45.98%	16,745	1.37%	-43.04%
17	中國大陸	8,387	2.23%	-62.63%	15,712	1.29%	-65.13%
18	拉脫維亞	1,936	0.51%	-61.99%	15,007	1.23%	-54.62%
19	西班牙	3,042	0.81%	-60.69%	14,219	1.17%	-14.44%
20	澳大利亞	3,934	1.05%	-34.54%	12,944	1.06%	-38.70%
	其他	33,441	8.89%	-19.92%	119,034	9.75%	-1.11%
	總計	376,173	100.00%	3.52%	1,220,413	100.00%	14.72%

2015 Export to Globe

The Road Map toward Bicycle Kingdom



1950



1974



1974
Giant



1985-1986
KTNP Coastal
Scenic Bikeway



1990-1991
Urban Center Bikeway
Pilot Project
Taipei/ Tainan

1980 ~ NPS (Tourism Bureau)



1994-1997
Kuanshan Bikeway



1997
Dongfong Bikeway



2002
National Bikeway Network Planning
Sports Affairs Council

2007
Regional
Bikeway
Network

2011
4 Years Action Plan
5 Billions NT

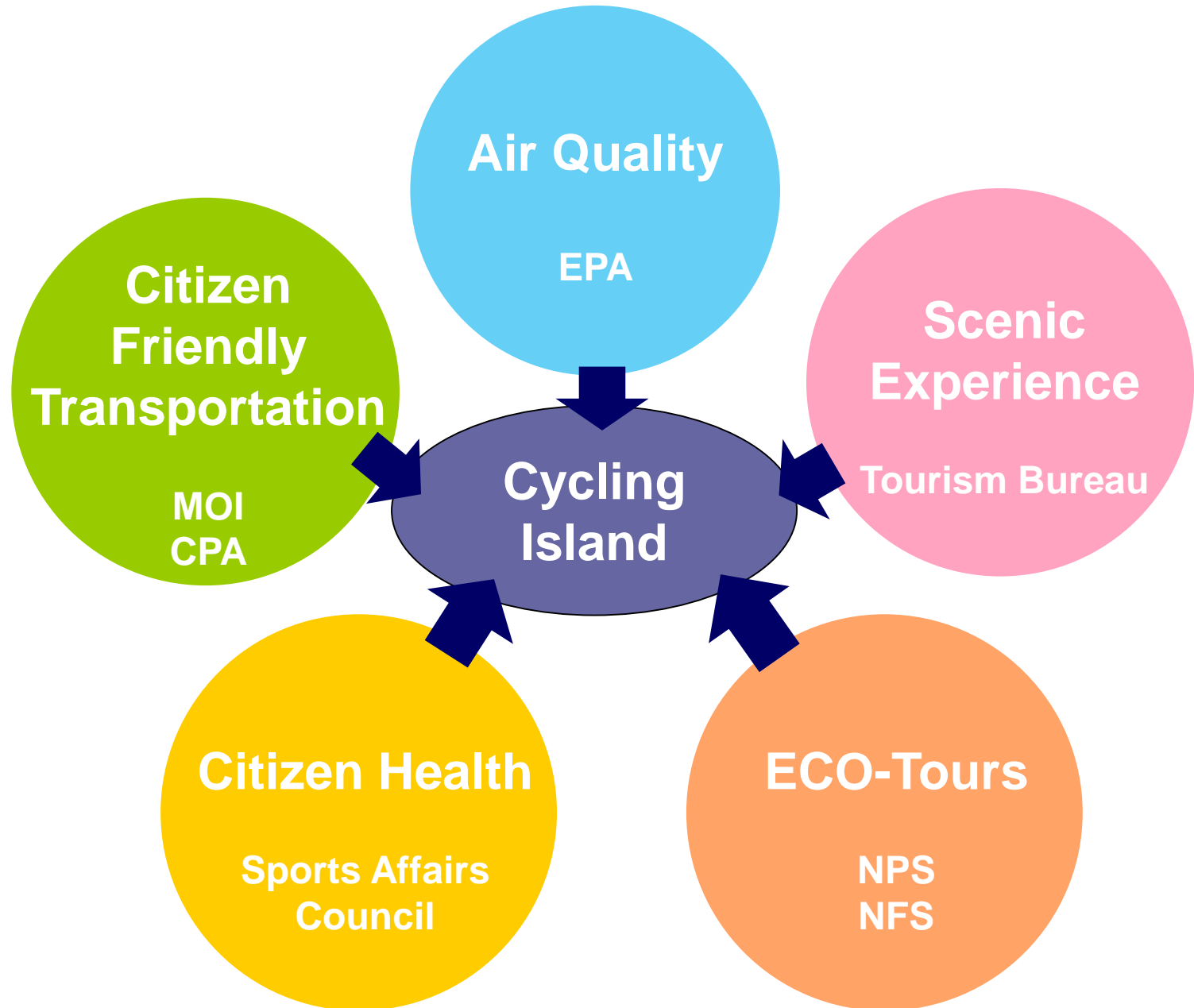
1994~ EPA (Air Pollution Prevention TAX)

2000~ Urban Bikeway

2000 ~ MOI、CPA(Town & Rural Landscape Reform)

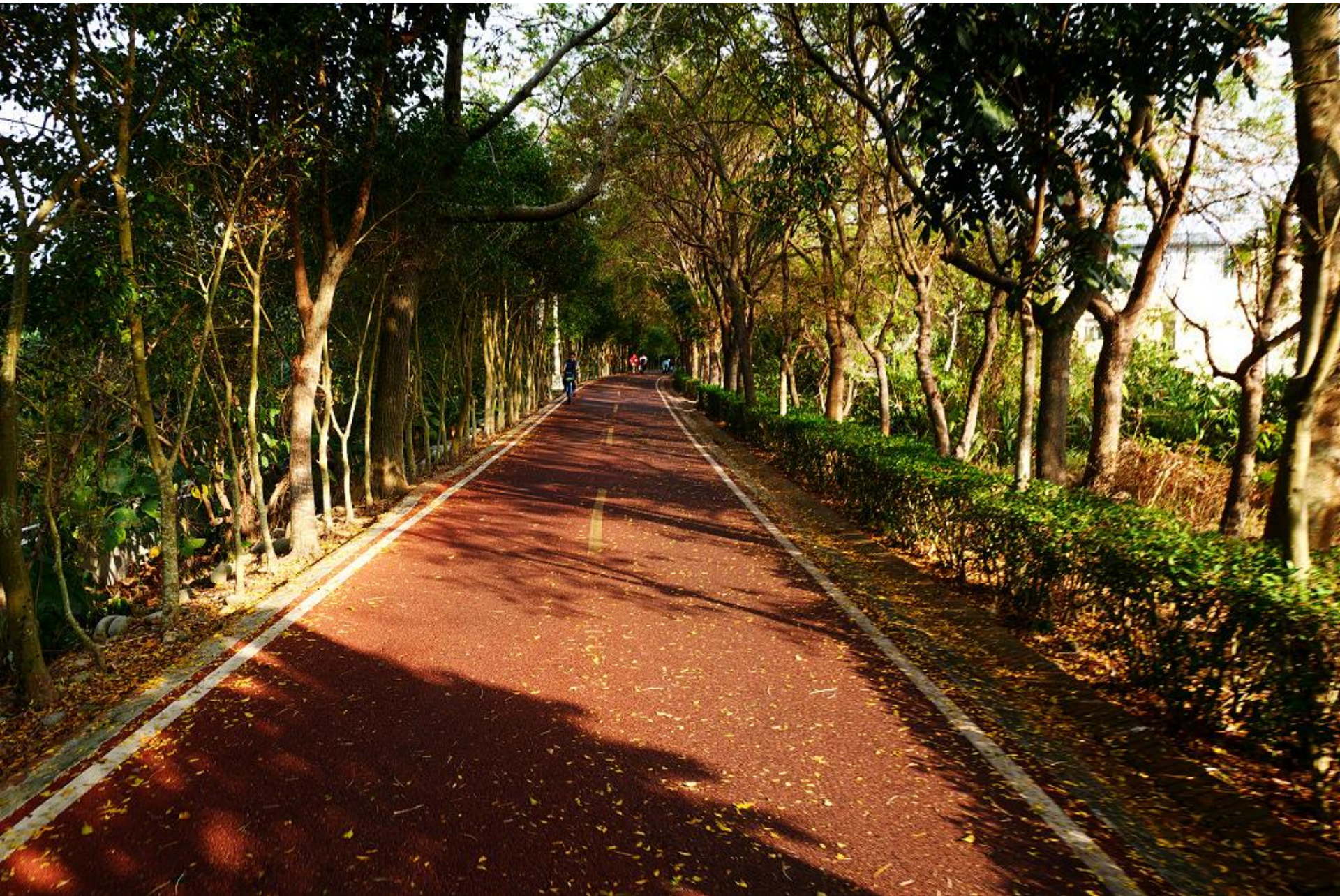
2002 ~ Sport Affairs Council

Greenway Spectrum



Bike Hotel — YOHOBIKEHOTEL





From Rail → Bikeway (Huwei Town 6KM)



From Rail → Bikeway (Taitung City 21KM) 1994 →



Promoting Urban Riverside Greenways 1994 →



Kuanshan

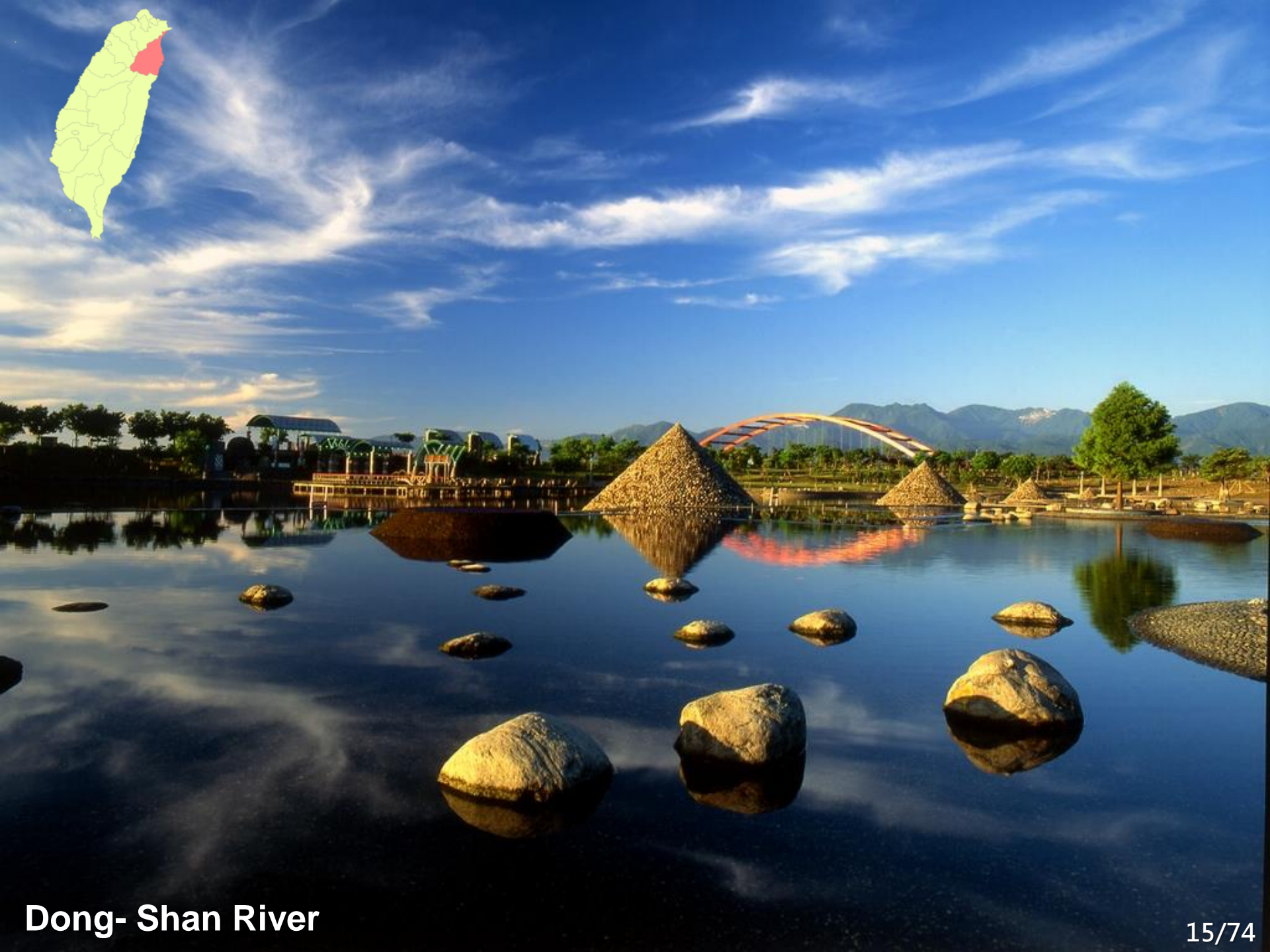
關山 環鎮自行車道導覽圖



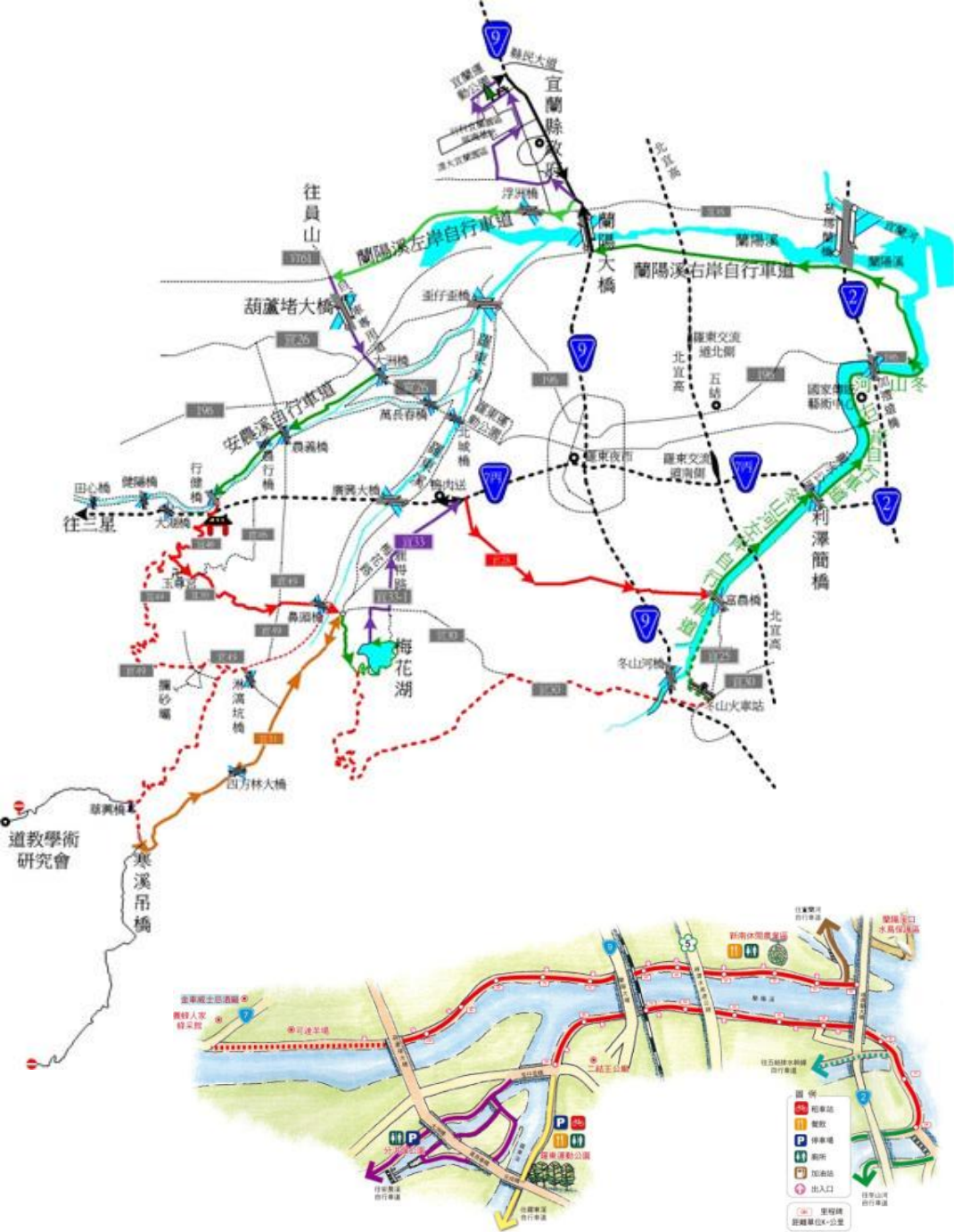
-  觀景亭
Pavilion
-  公廁
Restroom
-  鐵道
Railroad
-  自行車道路
Bicycle Path
-  河流
River
-  停車場
Parking Lot
-  加油站
Gas station
-  省道
Provincial Road
-  其他道路
County Road







Dong- Shan River





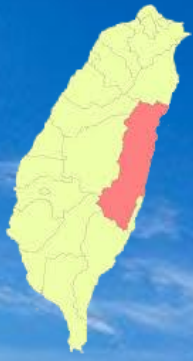


Taoyuan

18/74











Promoting Urban Riverside Greenways 1994



Houlong River



Houlong River



Xindian River



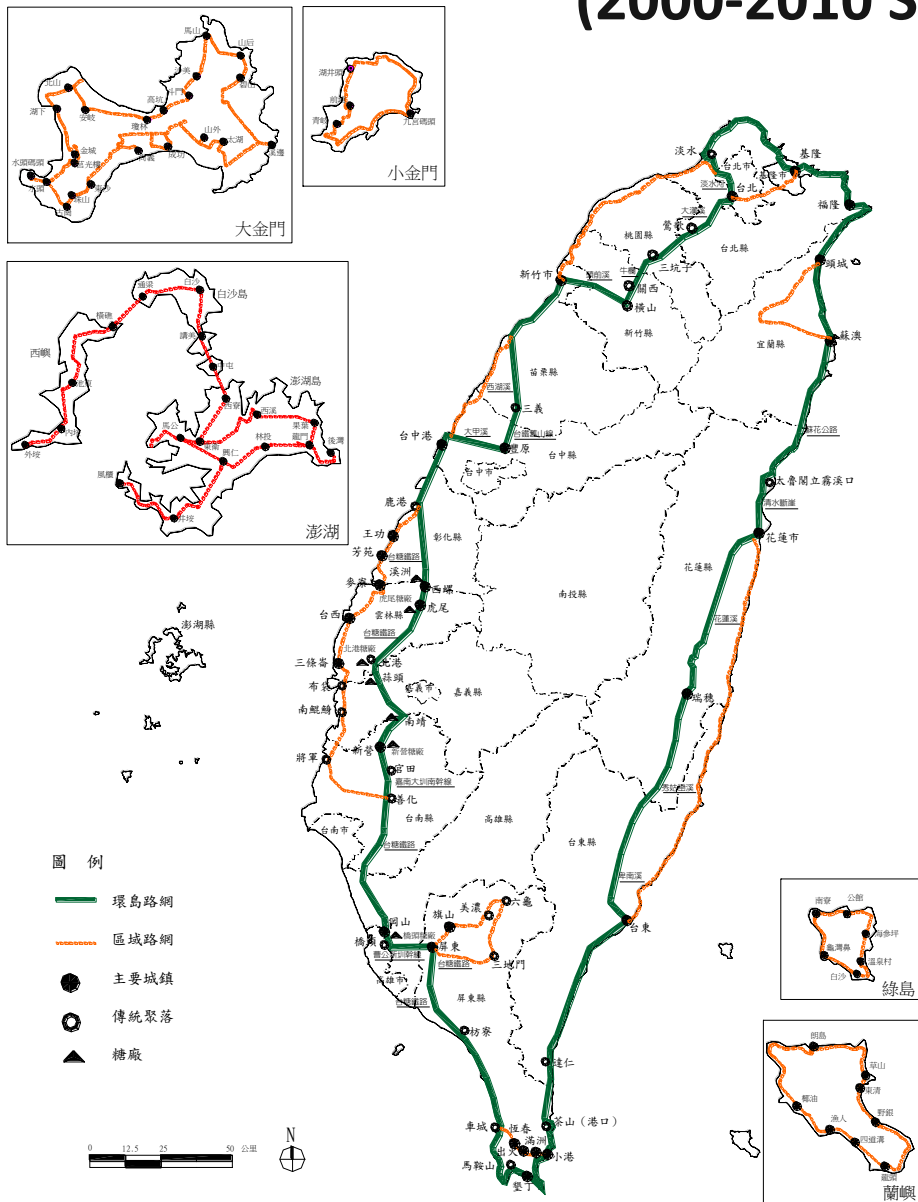
Jingmei River



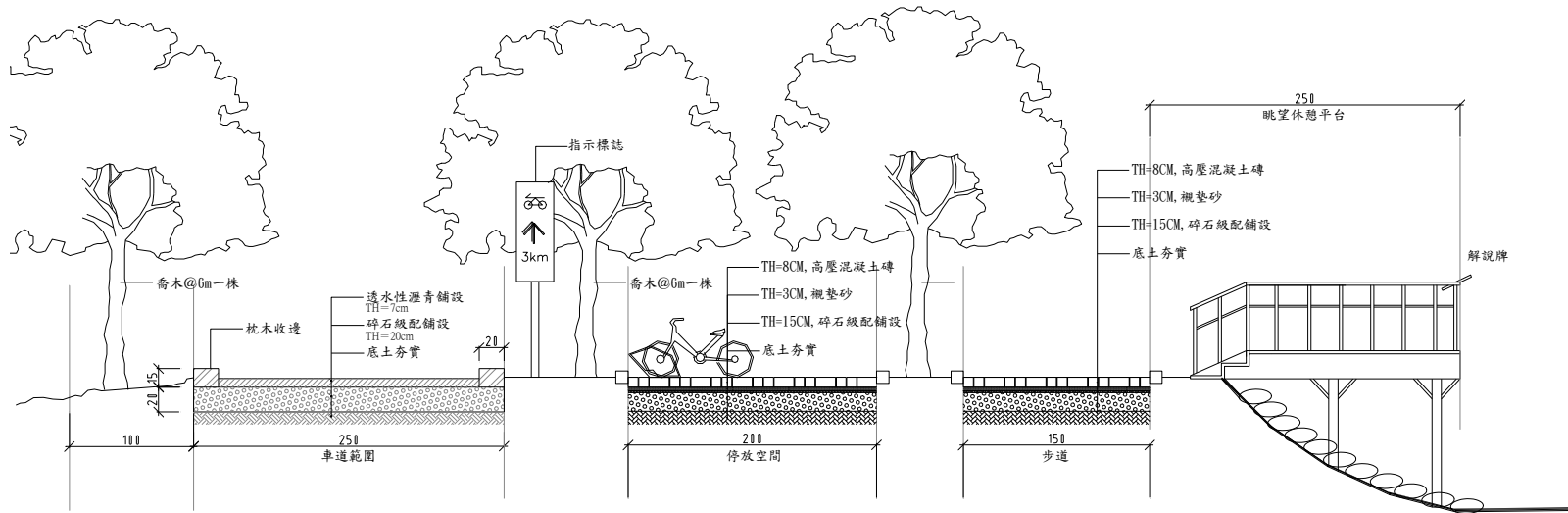
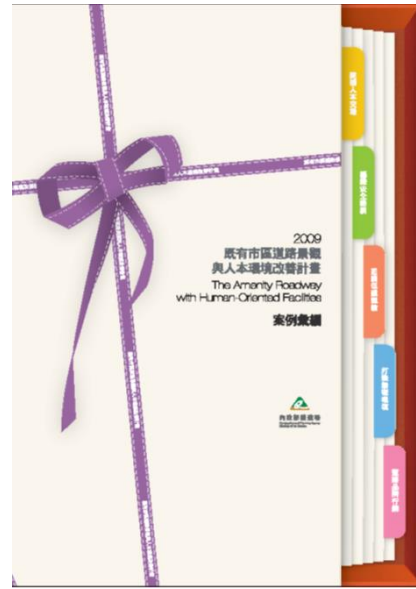
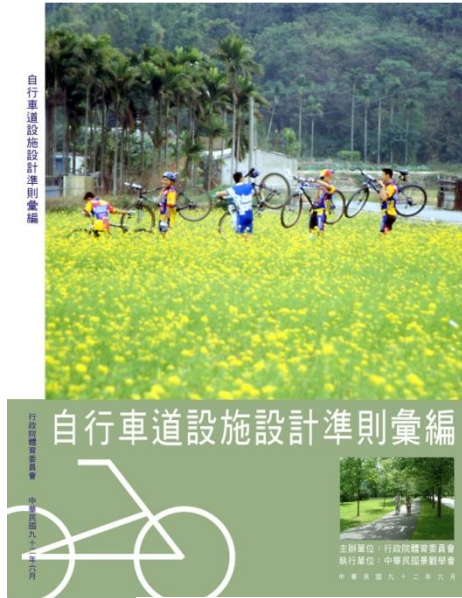
Yilan River

National Bikeway Master Plan

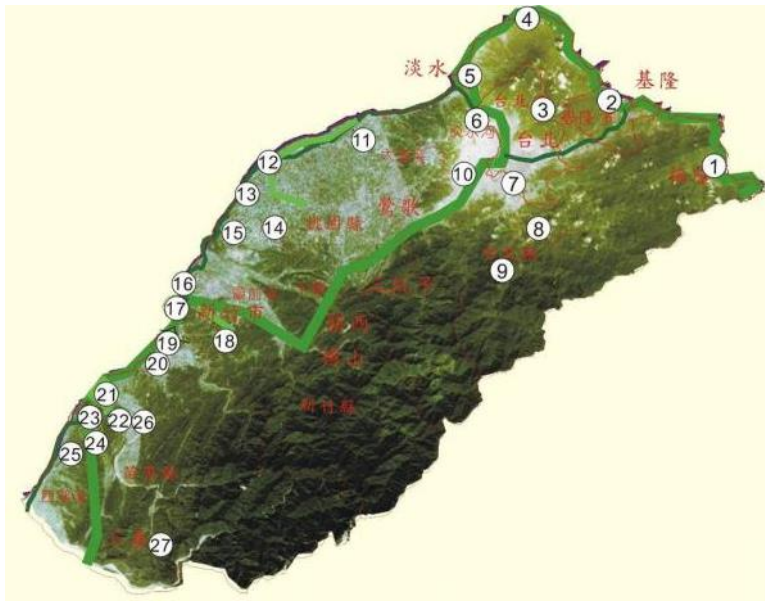
(2000-2010 Sports Council)



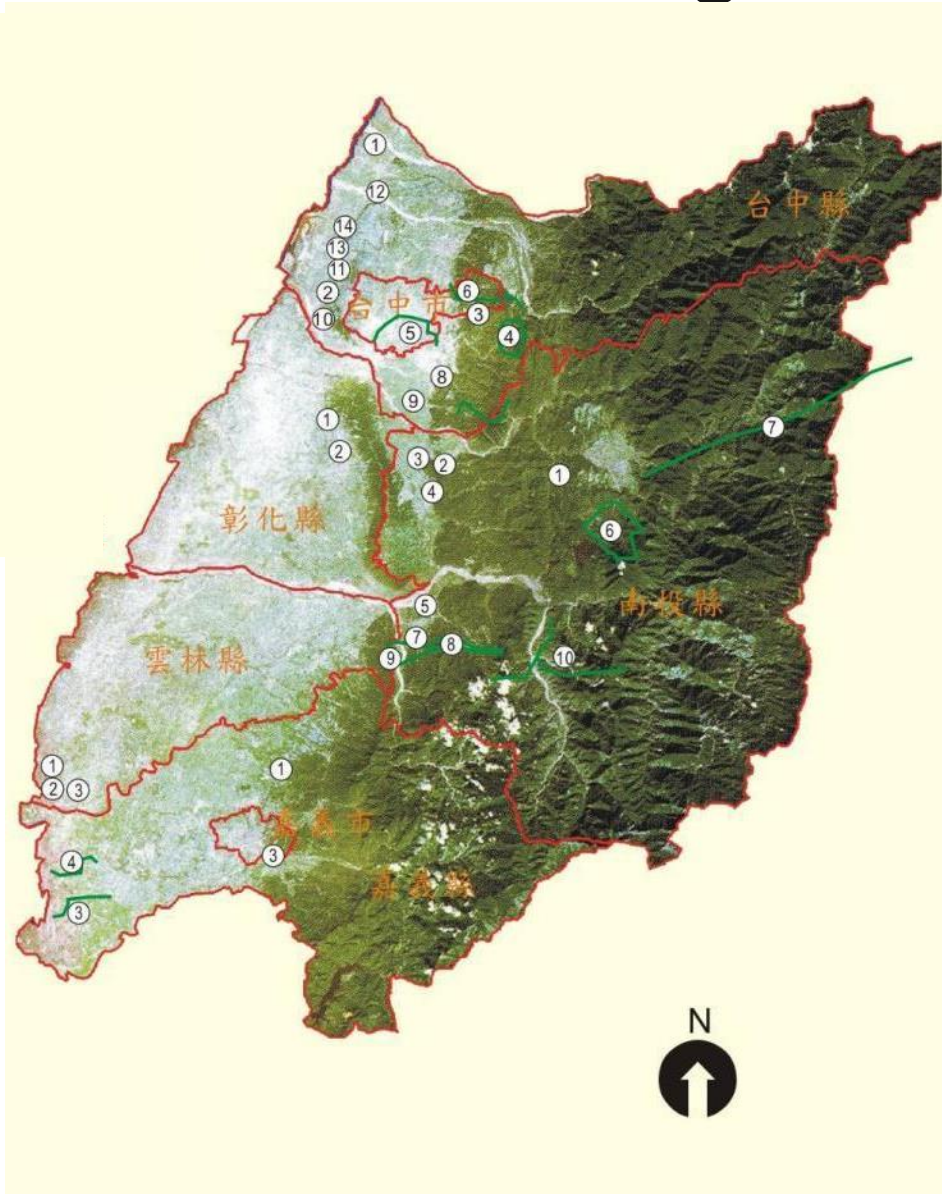
Drafting Bikeway Design Guideline (2002)



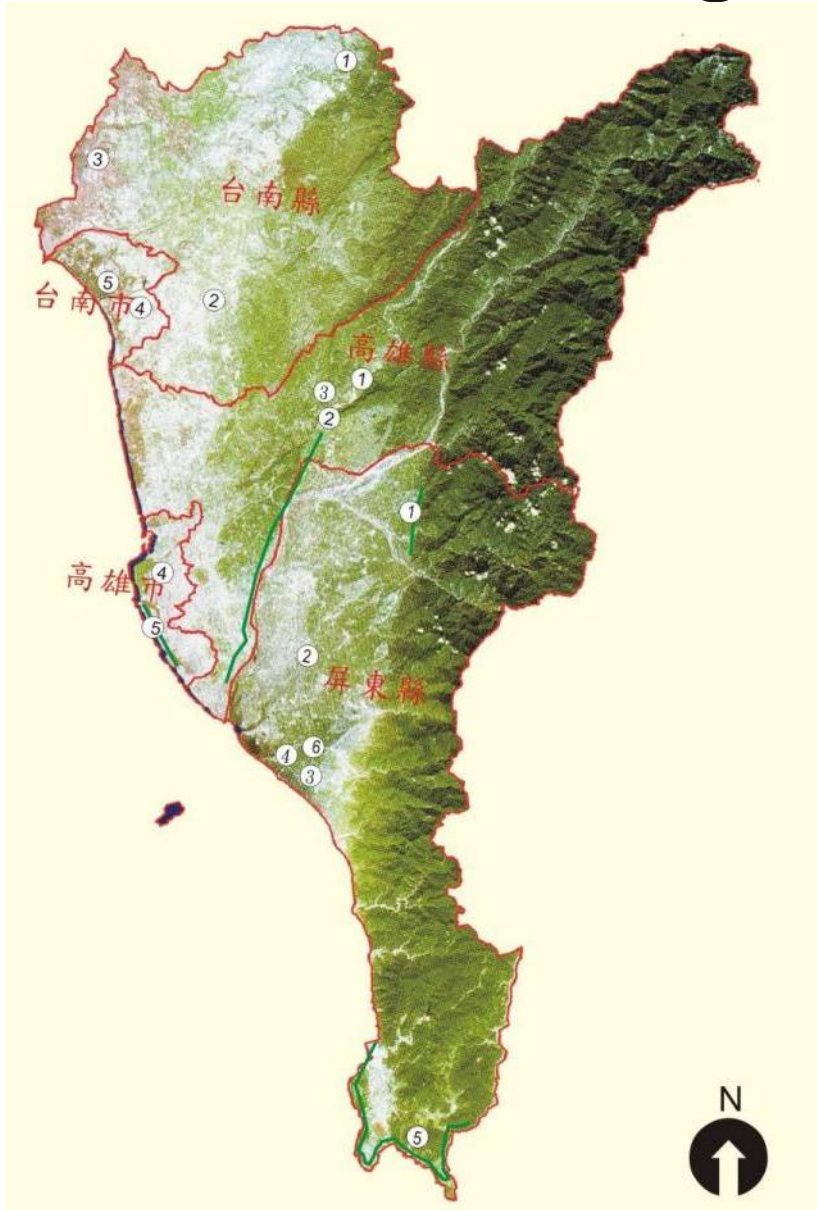
Northern Region (2000-2010 Sports Council)



Central Region (2000-2010 Sports Council)



Southern Region (2000-2010 Sports Council)

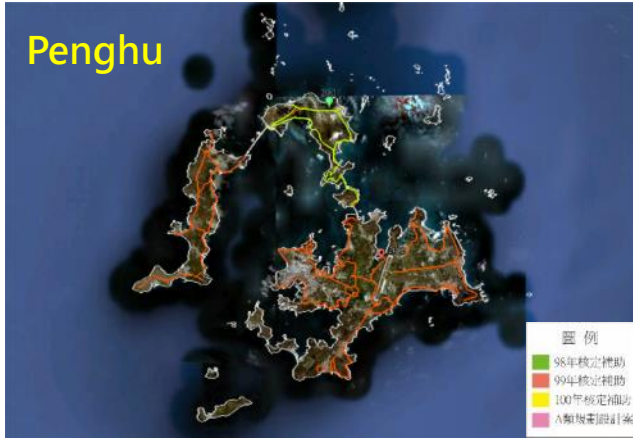


Eastern Taiwan (2000-2010 Sports Council)



Offshore Islands (2000-2010 Sports Council)

Penghu



Kinmen

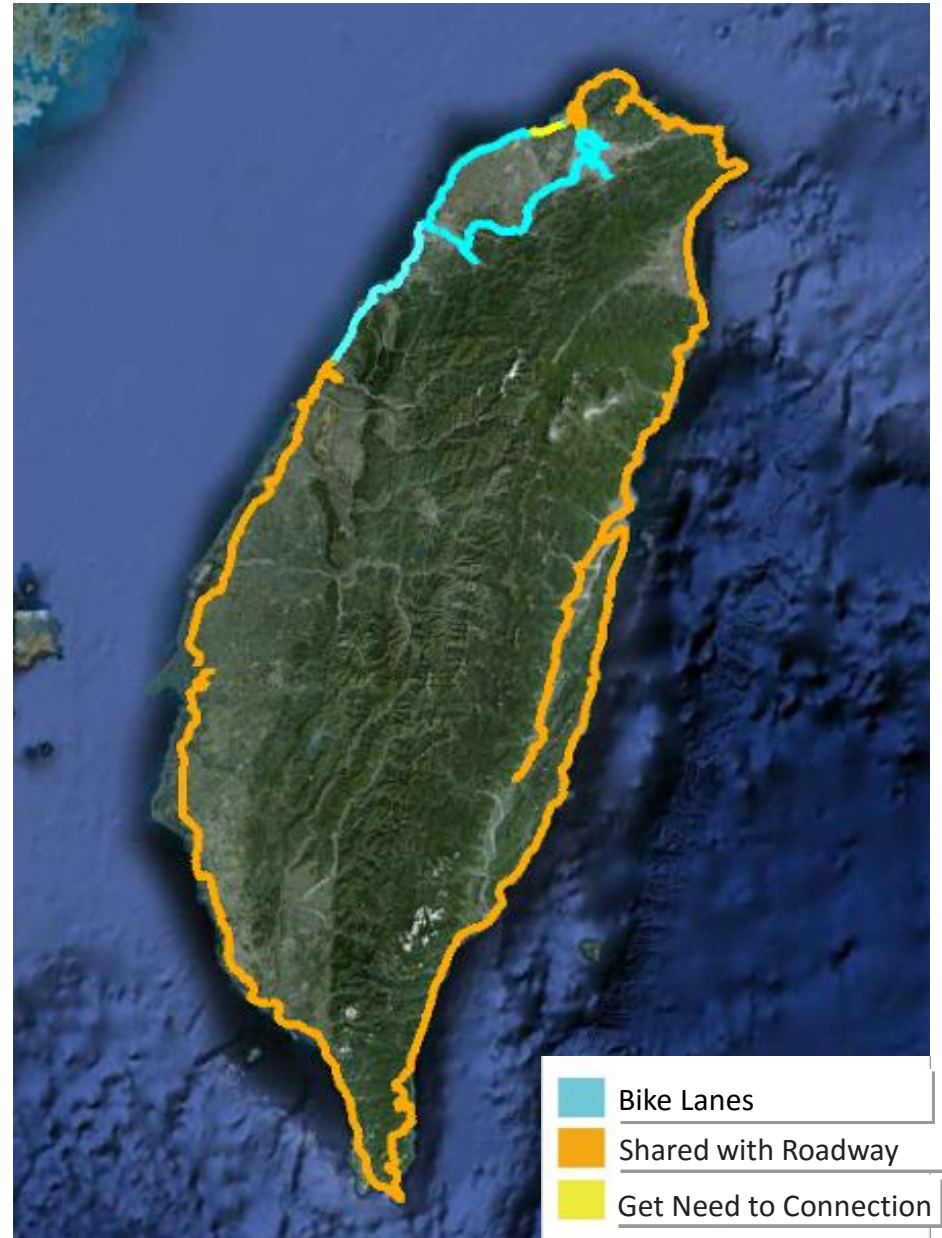
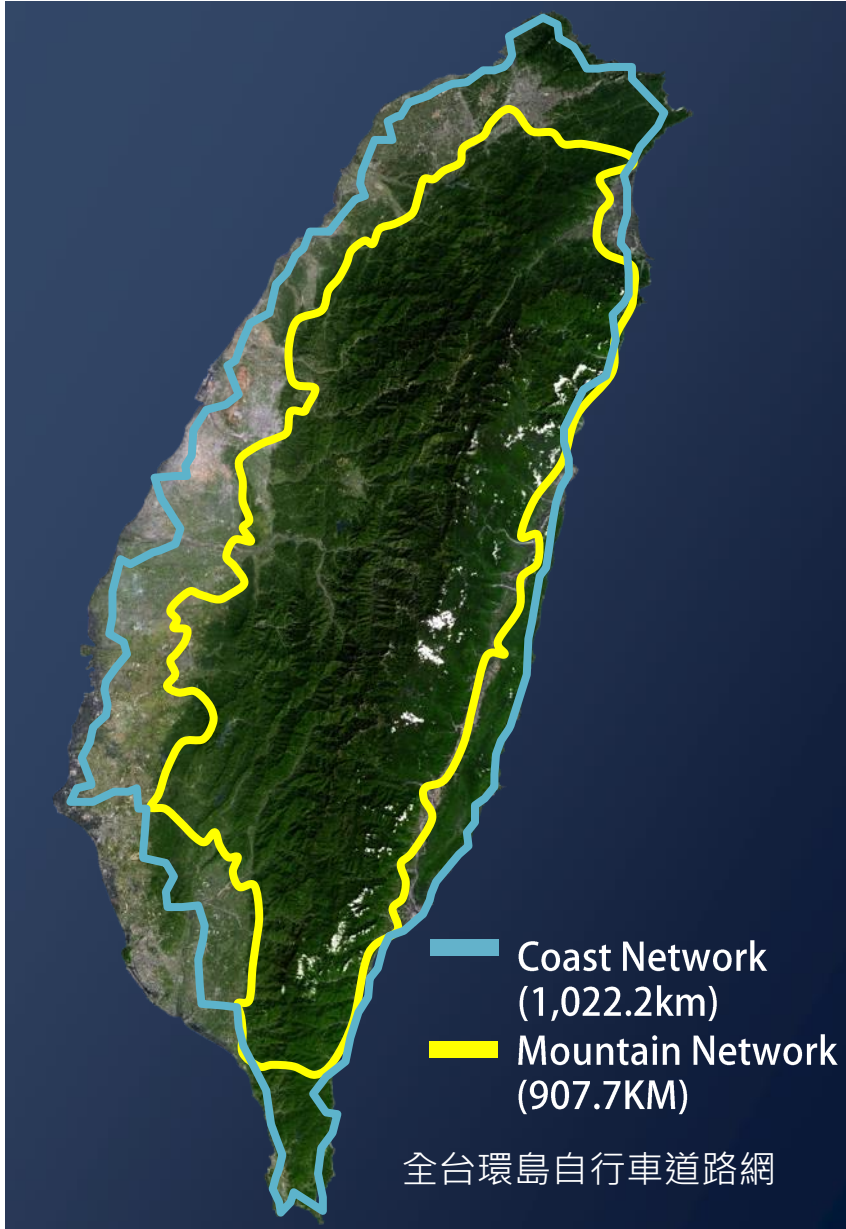


Lianjiang





Cross Island Network



Cycling Islands

Route No.1(939.5 KM)
(Complete in 2015)



Scenic Bikeways (Tourism Bureau)



The North Coast



Dong Shan River



Dapeng Bay

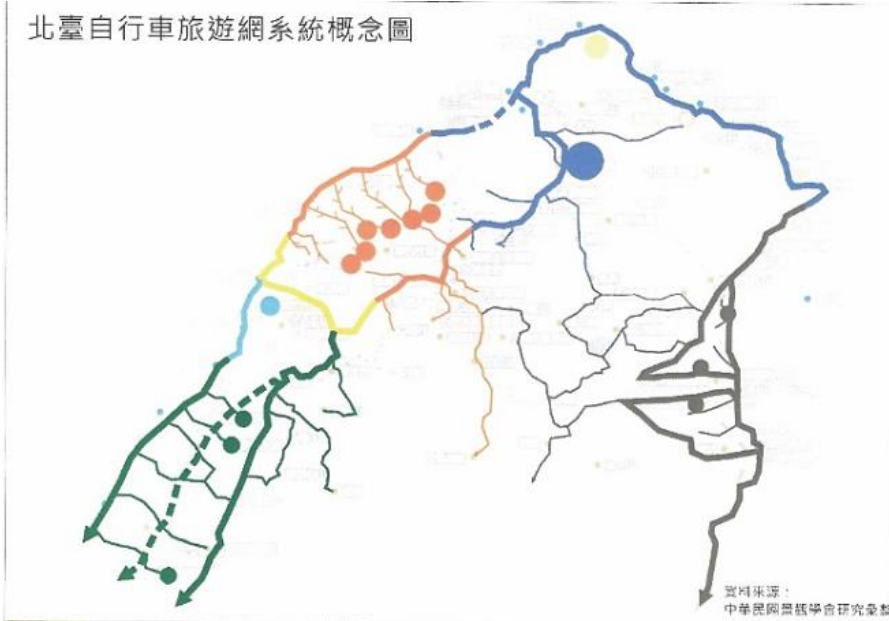


Bail

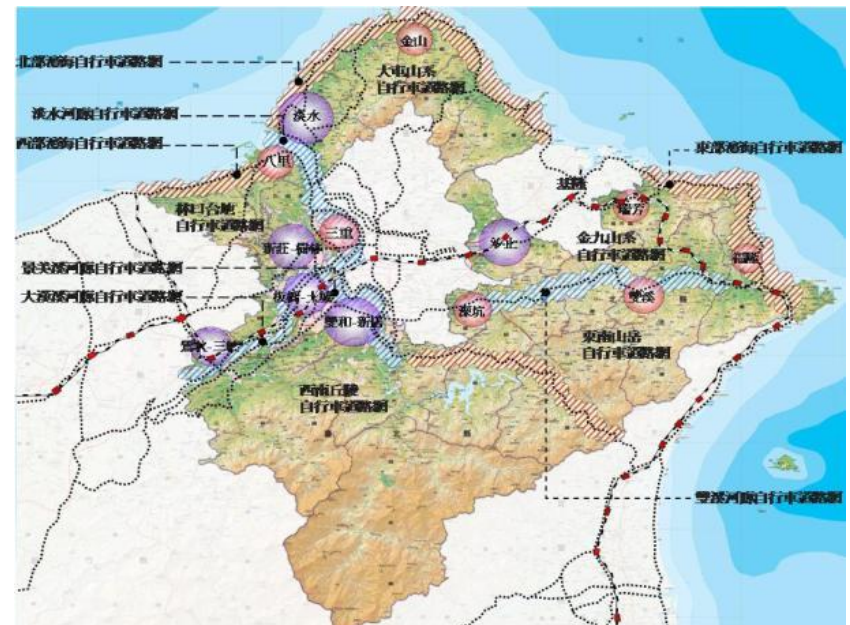
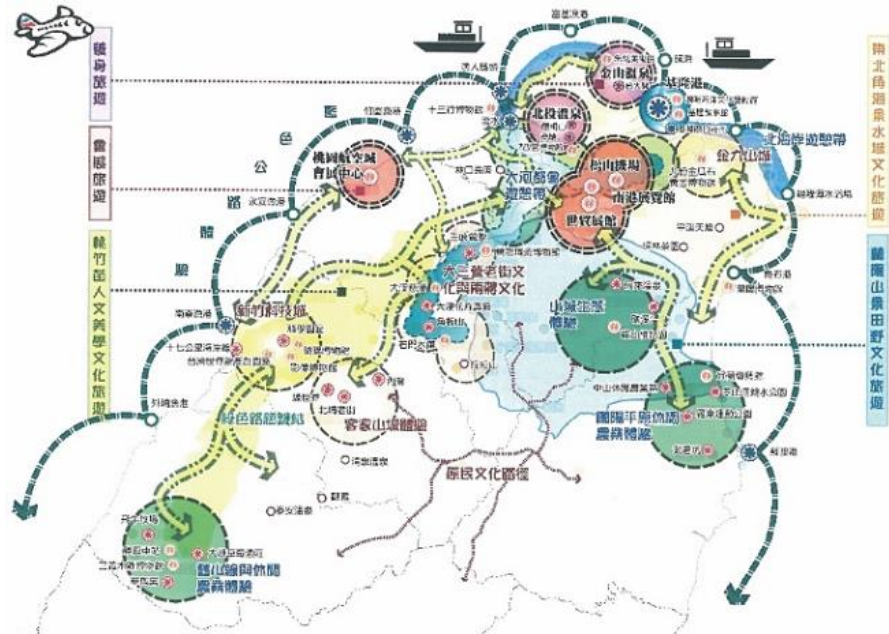


Sun Moon Lake

The Regional Bikeway Network of North Taiwan



The metropolitan bikeway network of Taipei City



The metropolitan bikeway network of New Taipei City

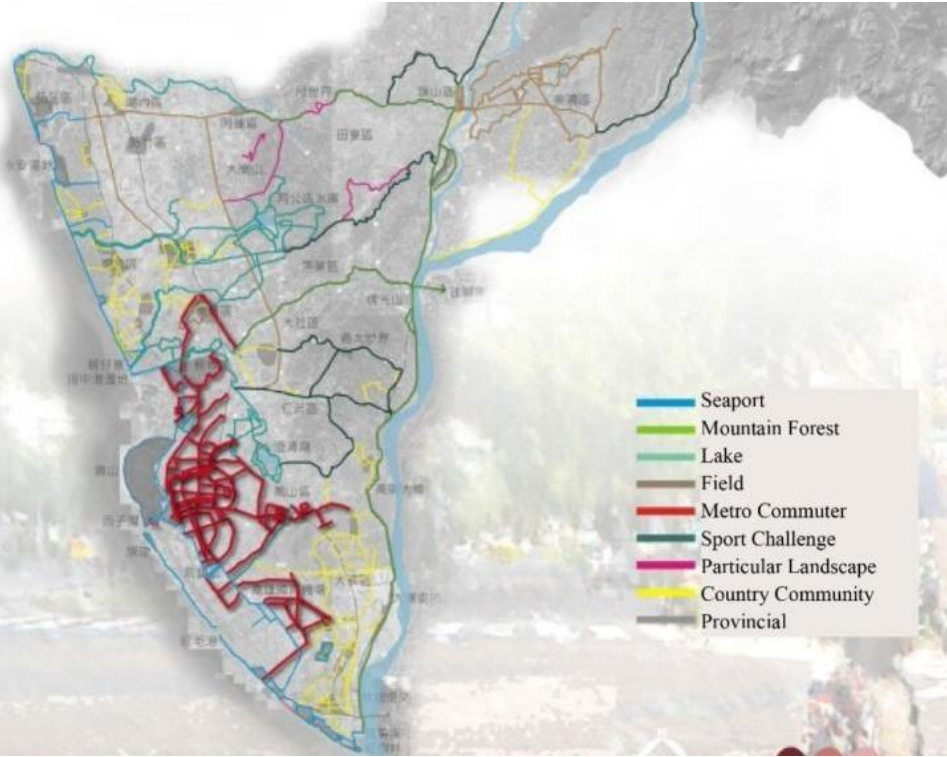
Cross City Network (Taipei City/ New Taipei City)



Urban Network - Taichung City



Urban Network - Kaohsiung City



Urban Network - Hualien City



U-Bike System Service Network (3,823 KM) 2009



Taipei City (U Bike)



Tainan City (T Bike)



New Taipei City (New Bike)



Kaohsiung City (City Bike)



Taichung City (i-Bike)



Pingtung city (P Bike)

Public Bicycle System Stations of Taiwan

- Taipei City : 221
- New Taipei City : 253
- Taoyuan City : 10
- Hsinchu City : 10
- Taichung City : 69
- Changhua City : 74
- Chiayi City : 12
- Kaohsiung City : 215
- Pingtung City : 12



Value Added Service Development



Cycling Taiwan (since 2003)

■ About 27,000 people











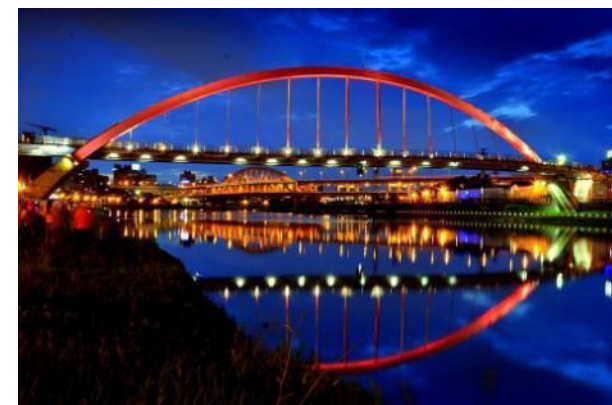
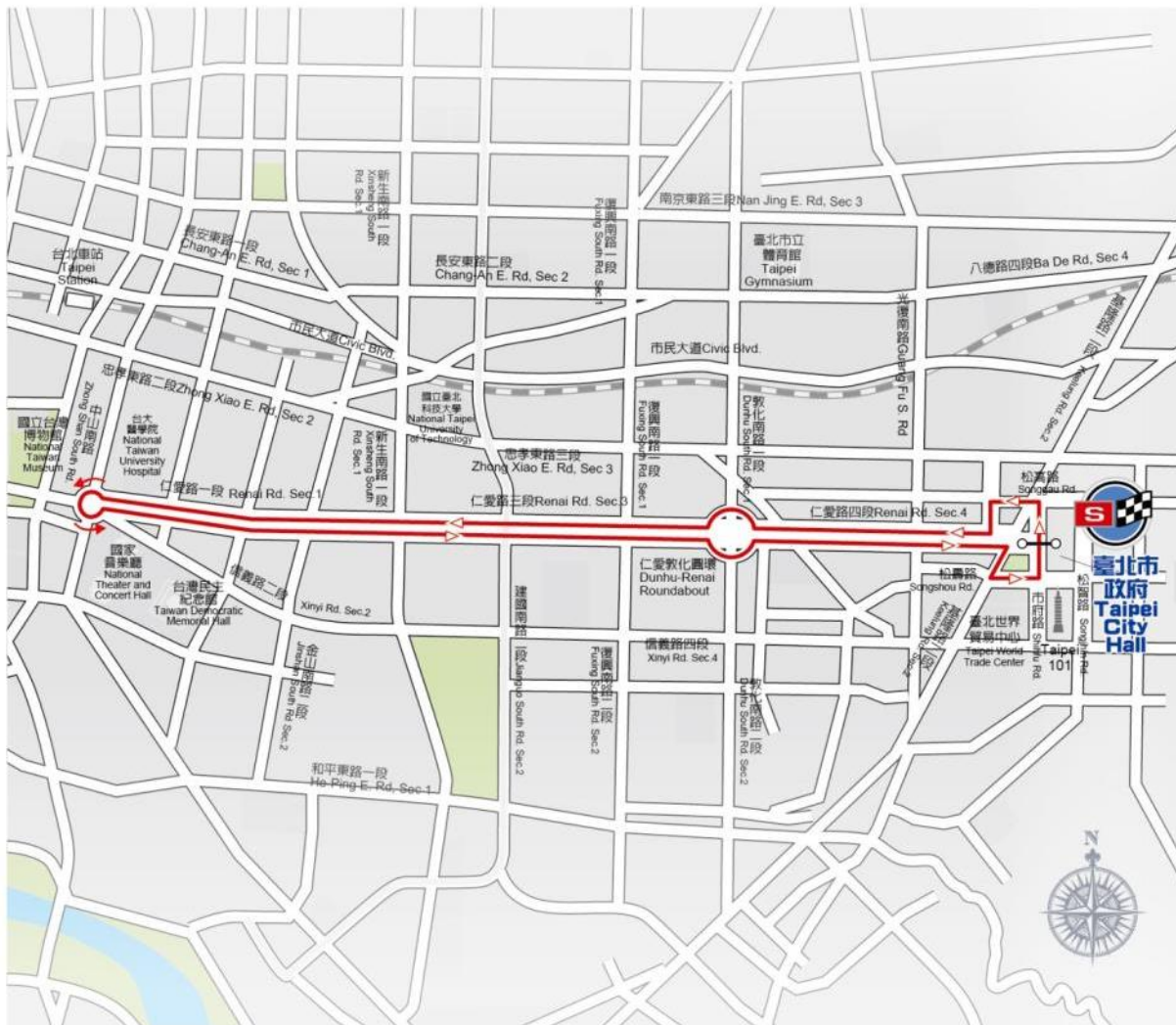
Tour de Taiwan (Since 2011)



2016 competitor :300 people

2016 Tour de Taiwan – No.1 Route

ROUTE MAP | 競賽路線圖



2016 Tour de Taiwan – No.2 Route

ROUTE MAP | 競賽路線圖



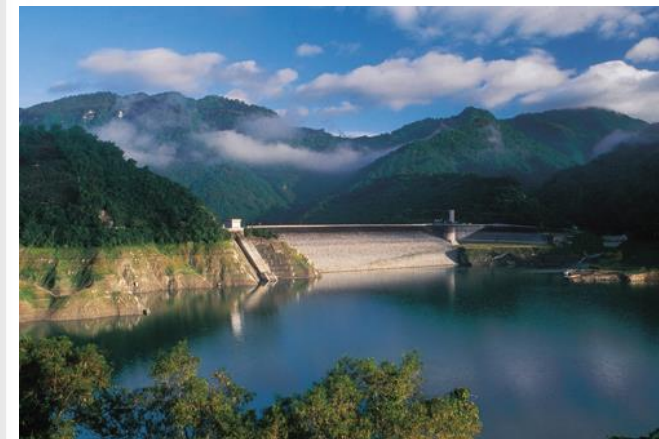
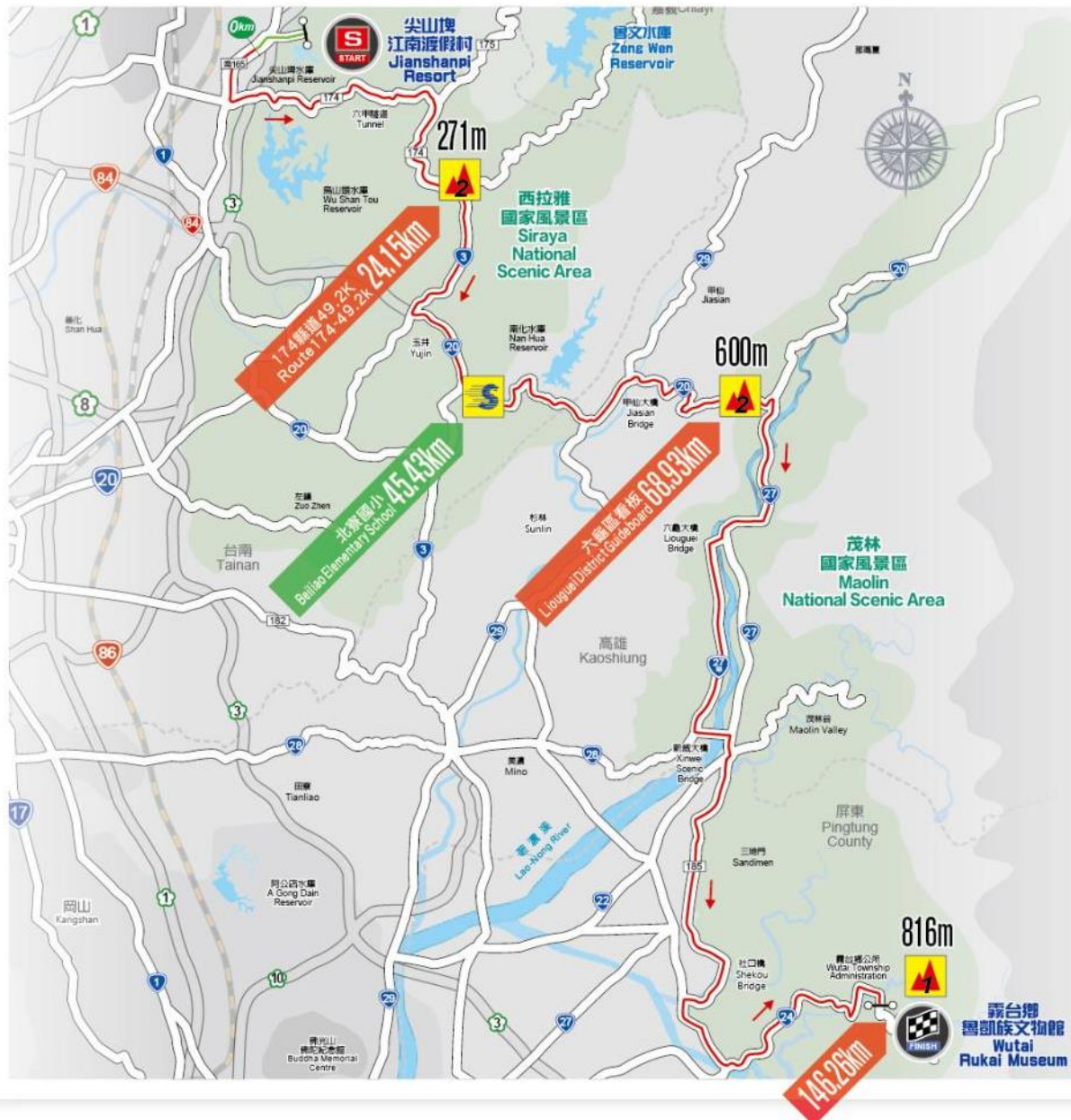
2016 Tour de Taiwan – No.3 Route

ROUTE MAP | 競賽路線圖



2016 Tour de Taiwan – No.5 Route

ROUTE MAP | 競賽路線圖

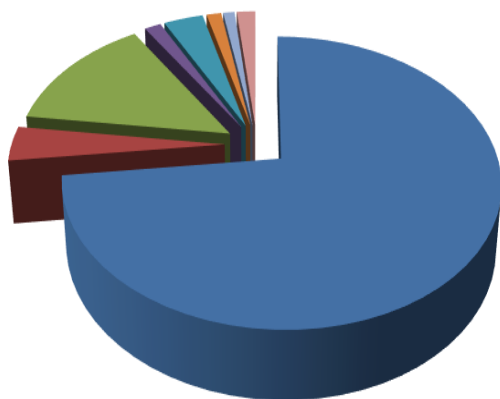


Taipei International Cycle Show

Year/Region	2015	2014
Asia	59.74%	58.45%
Europe	19.09%	20.06%
North America	11.39%	10.89%
Oceania	3.46%	3.53%
South America	2.87%	3.13%
Africa	1.07%	1.21%
Central America	0.83%	0.88%
Middle East	1.35%	1.54%



2015 Distribution of Overseas Visitors by Region



- Asia
- Europe
- North America
- Oceania
- South America
- Africa
- Central America
- Middle East

Taiwan Excellence



29er 雙避震越野車
拓荒者 | Flying V FS)



長程型彎把公路車
輪耀台灣遠航版 | VCT-Tour



耐力型碳纖碟剎公路車
FIT Disc R



Cycling Alliance

■ Cycling Alliance in Taiwan about 280

- Taiwan in Cycles blog
- Cycle Taiwan
- Formosan Fat Tire Association
- Taipei International Cycle Show
- David on Formosa >> cycling
- Taiwan Cycling Group at flickr
- Biking in Taiwan
- Mountain Bike Shops in Taipei
- Fixed Gear Taiwan
- Taiwan Racing



- Cycling Lifestyle Foundation (自行車新文化基金會)
- Taiwan Cyclist Federation (中華民國自行車騎士協會)
- Chinese Taipei Cycling Association (中華民國自由車協會)
- Alan's Mountain Bike
- Taipei County cycling map
- Cycling in Taiwan - the Road to Recreation and Health
- In the rough
- Yangmingshan Cycling Club
- Taiwan English Biking Club
- Formosan Serow Biking Club
- A view from the seat of a bicycle in Eastern Taiwan

Conclusion



Over the past 30 years

- Taiwan Cycling Population in 2014 : 2,450,000 people
- Taiwan bicycle parts export 4,000,000 in 2015
- Taiwan bicycle export value 1.9 billion USD in 2015
- 2002-2014— Taiwan Bikeway Network Completed 4,486KM

Government (area)	Ministry of Transportation and Communications (Highway)	CPA (Urban Road)	EPD (Air Quality)	Sports Administration (Non-urban roads)	Total (KM)
Building (KM)	628	385	290	3,183	4,486



- Taipei Bikeway : 492 KM (Riverside : 112KM)
- New Taipei City Bikeway : 374 KM (Riverside : 160KM)
- Taoyuan City Bikeway : 336KM (Marina : 274KM)
- Yilan Bikeway : 74KM



Velo-city Global 2016







Cycling Living Legend





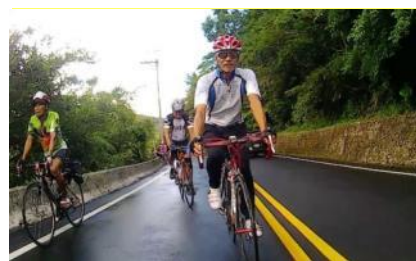
Aim for Next Step Daily Transportation



Road cycling



MTB XC racing



Cross-country cycling



Citizen Recreation

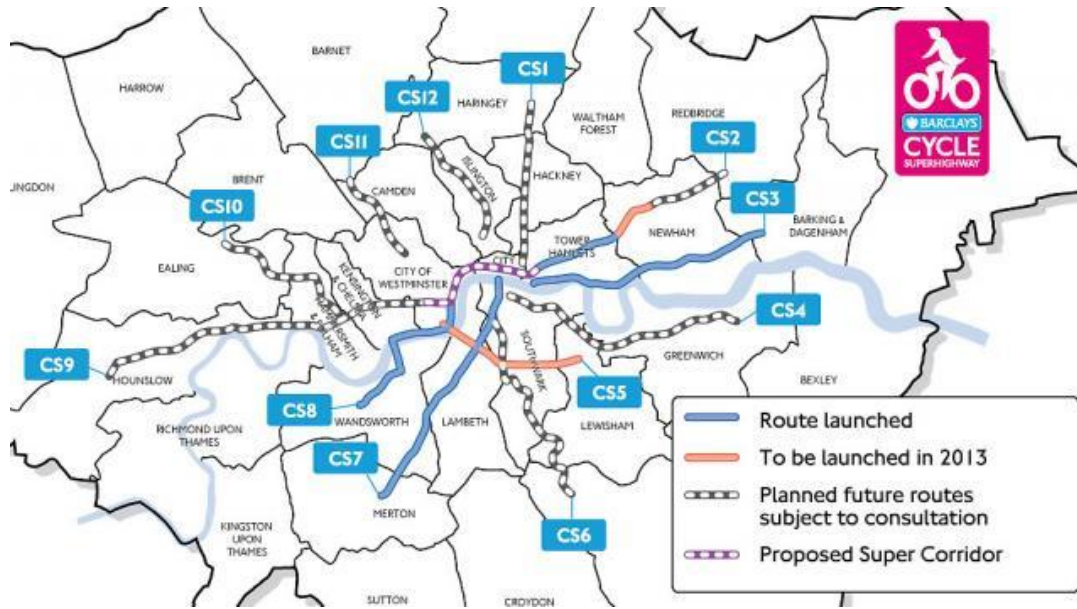


Commuting



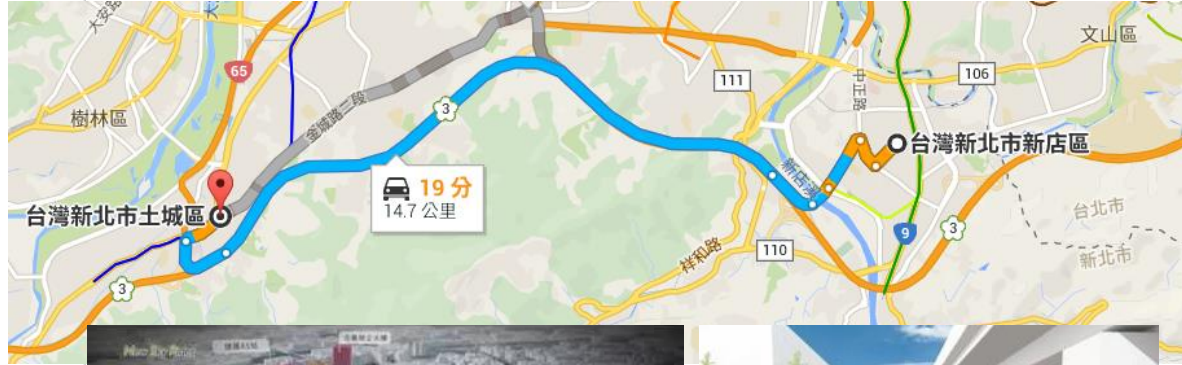
London– SkyCycle (220KM)

- Plan for 220km network of bike paths suspended above railway lines could see commuters gliding to work over rooftops.

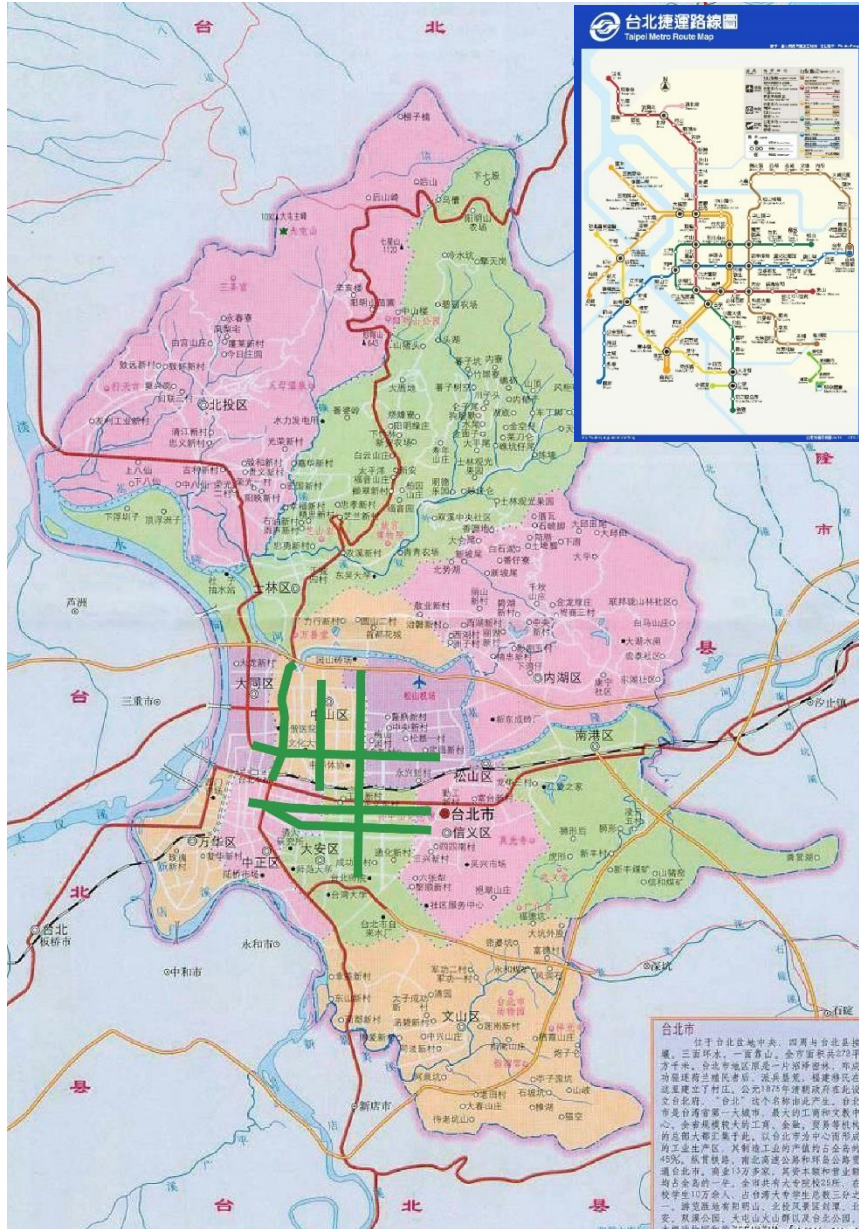


New Taipei City – New SkyRider(8KM)

- Upcoming 1.2Billion NT
- completing in 2018
- Xinzhuang → Xinzhuang :580,000 commuters



Urban Network (Town Center Bikeway, Taipei)



Three horizontal
Nanjing E. Rd. (complete)
Xinyi Rd. (complete)
Ren'ai Rd.

Three vertical
Fuxing S. N. Rd.
Songjiang Rd.
Zhongshan N. Rd.



Nanjing E. Rd.



Xinyi Rd.

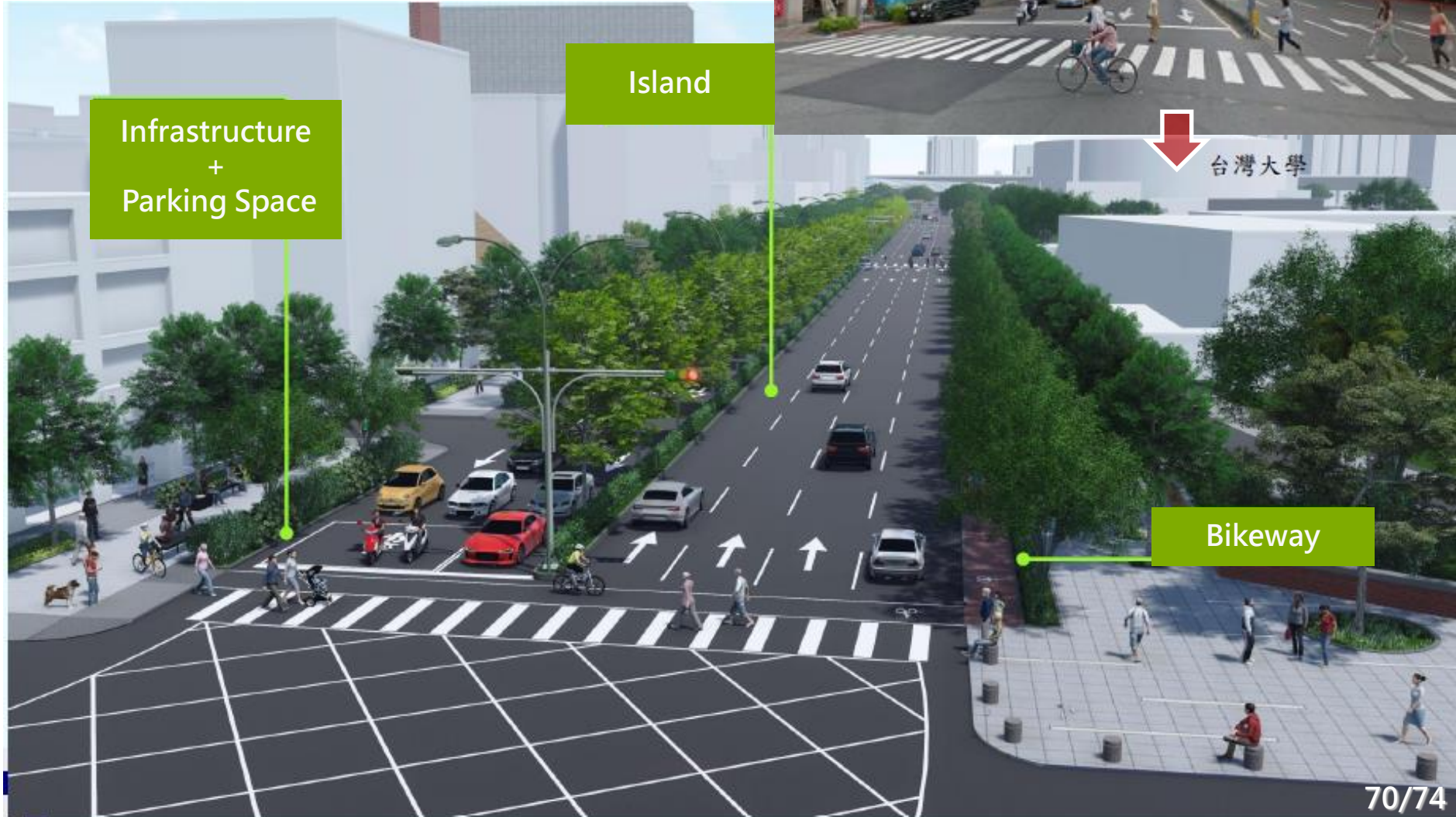
Xinsheng S. Rd.



Before



台灣大學



Infrastructure + Parking Space

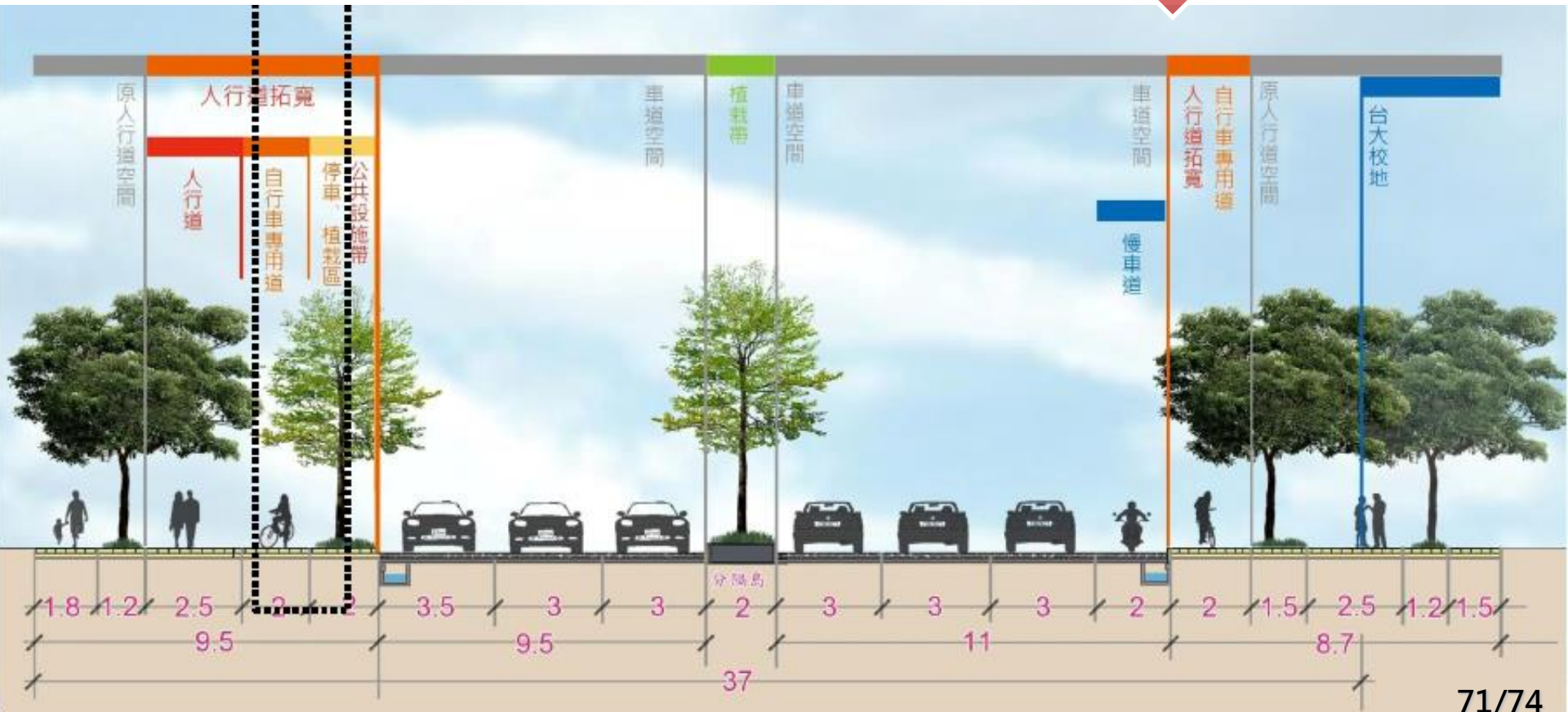
Island

Bikeway

Xinsheng S. Rd.



Bikeway





An aerial photograph of a modern, elevated cycling and pedestrian bridge. The bridge is a multi-lane structure with a light-colored surface and metal railings, curving along a wide river. In the background, a city skyline with various high-rise buildings is visible under a bright blue sky with scattered white clouds. The foreground shows a green grassy area and a road with some vehicles.

Envisioning an Holistic Green Transportation Oriented Cycling Island

Thank you for your Attention