



**2.0**  
—  
2022



TAOYUAN CITY GOVERNMENT



**2.0**  
2022

## | Summary

The United Nations Sustainable Development Goals (SDGs) consist of 17 goals that encompass three major aspects, which are: environmental protection, social progression and economic growth; it is the common language spoken amongst policy makers from various international cities. As the Municipality of National Gateway of Taiwan as well as the hub connecting the world, Taoyuan at a time when SDGs are receiving global attention adopts SDGs in its municipal framework to comprehensively review its policies with the Taoyuan City Voluntary Local Review(VLR) 1.0 in 2020. In 2021, Taoyuan City Government Sustainable Development Committee was established for reviewing and revising policies and evaluation indicators in a rolling manner through the meetings of various working groups, with Taoyuan City VLR 2.0 published in 2022 as the comprehensive metric for proceeded promotion of sustainable development as well as the goals and expectations of future development vision.

Taoyuan City VLR 2.0 features a policy review divided into 3 parts. The first part contains qualitative interviews and disclosures (People of Taoyuan X Records of Happiness) to 13 stakeholders under the

ten highlight topics to review the governance achievements of the sustainable development policy; Part 2 is an inventory of plans (Matters of Taoyuan X Sustainability Practices) performed through the Taoyuan City Government Sustainable Development Committee to examine the degree of compliance of 292 policy plans with sustainable development; the last part is the presentation of quantitative indicators (Appendix 01 Evaluation Indicators), with 59 evaluation indicators to confirm the progress of governance. In addition, to enhance the citizen's understanding of SDGs, VLR 2.0 bridges the gap with the public through plain text and presents various evaluation index data in infographics with the view to allow the concept of SDGs deeply rooted in the hearts of Taoyuan residents.

In the future, this report will be the benchmark for Taoyuan City to continuously review the effectiveness of the policy implementation and consistently adjust the strategy to keep pace with times as well as to ensure the rationality of resource allocation, thereby implementing SDGs across Taoyuan.

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Dadong Mountain, Guishan Dist.

## A Letter to Sustainable Utopia of Taoyuan

In the past eight years, we have witnessed the growth and transformation of Taoyuan on the path of building in joint effort with the citizens the utopia called Taoyuan.

With the 17 goals of the United Nations 2030 Agenda for Sustainable Development as the governance benchmark, Taoyuan intends to build a sustainable city in all aspects. Since 2019, the SDGs have been integrated into Taoyuan's municipal structure to strengthen the connection with the policy guidelines;

In addition, the municipal team has been engaged in the comprehensive review of all municipal affairs, with the first publication of SDGs Voluntary Local Review (VLR) in 2020 and the establishment of the Sustainable Development Committee in the following year as the milestone of continued excellence in sustainability.

Under the dual challenges of global pandemic and climate change in the recent two years, Taoyuan, as the Municipality of National Gateway, is entrusted the great responsibilities of pandemic prevention at border. Through the instant strategies such as integration of medicine momentum, technology-assisted pandemic surveys, disinfection groups, backup schemes for confirmed COVID-19 cases, a disaster mitigation is made possible. In addition, the friendly service of vaccination allows Taoyuan to become the



Taoyuan is under the steady progression  
into the City of happiness.

For every citizen, child, youth, the elderly,  
and fellow labors, the City has comprehensive plans  
concerning various policies and constructions for its own  
development toward a hub best to live and work.

As the subsequent measures,  
Taoyuan will continue to incorporate SDGs  
in its goal of urban governance.

May the rosiness remain in  
the utopia of Taoyuan at all times.

Mayor of Taoyuan City

鄭文燦  
Wen-Tsang Cheng

top amongst Six Special Municipalities in the vaccination rate of the elderly and children. These are the outcome of cooperation by citizens and partners of public and private sectors.

An industrially advanced city as perceived by the mass, Taoyuan has engaged in the low-carbon and green city development for more than seven years, among which includes efforts of carbon reduction with a substantive strategy of legalization to demonstrate the resilience as a sustainable city under the threats of extreme climate.

It was a pleasure for us to participate in the 26th United Nations Climate Change Conference (COP 26) held in form of physical plenary in 2021 as the sole city

delegation from Taiwan, which demonstrates Taoyuan's positive attitude towards the 2050 net-zero carbon emission target and international exchanges. Taoyuan will proceed to fulfill its obligations as a global citizen by adopting sustainable development as its policy guideline and by continued promotion of its sustainability experiences. In addition presenting Taoyuan's efforts on the track of sustainability to the world, with environmental protection, social equity and economic growth under equal considerations; at this moment of rapid progress in population growth and infrastructure constructions, Taoyuan will firmly implement the vision and goals of the SDGs joining hands with citizens and partners in Taoyuan, and make Taoyuan a sustainable city of friendliness and common good.

# What Is Sustainable Development ?

## About Sustainable Development Agenda

The 2030 Agenda for Sustainable Development (Agenda 2030) signed in the September 2015 "United Nations Conference on Sustainable Development" (Rio+20) and effective from January 1, 2016 encompasses 169 specific targets under 17 Sustainable Development Goals (SDGs) as the guiding principles for sustainable development globally until 2030.



### No Poverty

End poverty in all its forms everywhere.



### Zero Hunger

End hunger, achieve food security and improved nutrition and promote sustainable agriculture.



### Good Health and Well-Being

Ensure healthy lives and promote well-being for all at all ages.



### Quality Education

Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all.



### Gender Equality

Achieve gender equality and empower all women and girls.



### Clean Water and Sanitation

Ensure availability and sustainable management of water and sanitation for all.



### Affordable and Clean Energy

Ensure access to affordable, reliable, sustainable and modern energy for all.



### Decent Work and Economic Growth

Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all.



### Industry, Innovation, and Infrastructure

Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation.

## Brief Introduction of Sustainable Development Goals (SDGs)

The 17 Sustainable Development Goals is the common language spoken amongst policy makers from various international cities, which covers the three major aspects of environmental protection, social progression, and economic growth, as well as the collection of goals as follows:



### Reducing Inequality

Reduce inequality within and among countries.



### Sustainable Cities and Communities

Make cities and human settlements inclusive, safe, resilient and sustainable.



### Responsible Consumption and Production

Ensure sustainable consumption and production patterns.



### Climate Action

Take urgent action to combat climate change and its impacts.



### Life Below Water

Conserve and sustainably use the oceans, seas and marine resources for sustainable development.



### Life On Land

Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss.



### Peace, Justice and Strong Institutions

Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels.



### Partnerships for the Goals

Strengthen the means of implementation and revitalize the Global Partnership for Sustainable Development.



Read-Around:  
More About SDGs

Taoyuan City adopts "Friendly and Sharing, Sustainable and LOHAS" as its overall development vision, uses SDGs as an integrated municipal management plan, and a comprehensive inventory of the relevance of governance plans and SDGs. There are corresponding plans for 17 goals. You can read it in our voluntary local review.

# About Taoyuan

## Building the Sustainable Utopia Taoyuan

Located in northwestern Taiwan, Taoyuan City is one of Taiwan's Six Special Municipalities, Municipality of National Gateway, and the hub connecting the world. Taoyuan is known for its pleasant weather around the year, mutual prosperity made possible by its diverse demographics, and balanced development of various industries. Taoyuan City has developed rapidly since its promotion to special municipality and is the leading city in Taiwan in terms of population increase and fertility rate. Under the circumstances which sustainability has become the global emphasis, ways of taking into account environmental protection, social equity and economic growth in the midst of Taoyuan's rapid population growth and economic development becomes our orientation in the continued efforts. SDGs formulated by the United Nations are adopted as our standards to strengthen the link between the administrative plans and the SDGs. In addition, all the agencies and departments of the City government are mobilized to re-examine the municipal affairs and reflect on the sustainable value of the administrative plans.

## Major City of Industries

Taoyuan has great potential in economic development, with the top-of-the-country industrial output totaling at NT\$ 2 Trillion and 917.3 Billion. The City government launched the strategy of "Taoyuan Three Arrows" inclusive of MRT "Three Hubs and Six Lines", the Aerotropolis project and the Asia Silicon Valley project to drive the transformation of urban infrastructure and the development as a smart city.

## Gender Balance

The total population is about 2.27 million, of which 49.51% are male and 50.49% are female, attaining a balanced gender ratio.



## Youngest City

Taoyuan is the youngest amongst Special Municipalities in Taiwan, as per statistics at the end of December, 2021 of the Department of Household Registration, M.o.I.

	0-14 yo		15-64 yo	65 yo+		Average Age	
Taoyuan City	14.35%	Highest	72.05%	13.60%	Lowest	40.43 yo	Youngest
New Taipei City	11.79%		71.99%	16.22%		42.92 yo	
Taipei City	12.93%		67.10%	19.97%		44.28 yo	
Taichung City	13.74%		71.87%	14.39%		41.06 yo	
Tainan City	11.72%		70.98%	17.30%		43.51 yo	
Kaohsiung City	11.52%		70.94%	17.54%		43.47 yo	

## The City with the Fastest Population Growth

Taoyuan has the advantages of land, sea and air transportation, and actively provides employment, school and housing incentives to attract the overflowing population of Taipei City and New Taipei City.

Total Population Increase Rates Among Six Special Municipalities in 2021 (%)



Taoyuan City, as per 2021 statistics:

Population Increase Rate / **1.58 %** Ranked 6<sup>th</sup> in Taiwan

Natural Increase Rate / **2.67 %** Ranked 2<sup>nd</sup> in Taiwan

Social Growth Rate / **-1.09 %** Ranked 6<sup>th</sup> in Taiwan

# Promotion Timeline

Taoyuan City VLR  
Promotion Timeline

Domestic and Oversea  
VLR Exchanges by Taoyuan City

2019.03

Mayor Cheng visited New York City, during which Taoyuan City received New York City invitation to subsequent participation in SDGs

2019.04

Taoyuan City announced its official start of Taoyuan City Government VLR, with SDGs as goals in its municipal affairs planning.

2021.03

Industrial Development & Investment Promotion Committee of Taoyuan City (IDIPC) invited Taoyuan City to share the efforts made in its advancement to sustainable city and potential collaboration with the industry.

2020.12

Sustainable Development Office of Environmental Protection Administration, Executive Yuan invited Taoyuan City to share VLR promotion experiences and conduct exchanges with delegations from various Taiwan counties and cities.

2020.09

1st Publication of VLR released in Asia Pacific Social Innovation Summit.

2021.04

Taichung City Government Low Carbon City Promotion Office visited Taoyuan City Government for exchanges of implementation and conducts of SDGs and sustainability policies.

2021.05

Taoyuan City Government Sustainable Development Committee was established.

2021.05

Yunlin County Government invited the Research and Evaluation Commission, Taoyuan to share with its staff the experience in promotion of sustainable development.

2021.09

Northern Taiwan Development Commission VLR and Local Revitalization Workshop

Featuring sharing and exchanges amongst city representatives from Taipei, Taoyuan, and Yilan plus Taoyuan Local Revitalization partners

2021.06

IGES VLR Webinar

Encompassing interactions with city representatives from Bonn (Germany), Buenos Aires (Argentina), Sao Paulo (Brazil), and Los Angeles (the United States).

2021.11

1st Publication of VLR awarded 2021 Taiwan Corporate Sustainability Awards (TCSA)—Local and Regional Governments Sustainability Report Award

2022.03

2022 SCSE Sustainable City Forum Research and Evaluation Commission, Taoyuan was invited to share with participants the progression of refinement of sustainable city and Taoyuan VLR.

2022.08

VLR2.0 released in Asian Pacific Forum & Exposition for Sustainability (APFES)

# Sustainable Development Committee

## Climate Change and Sustainable Environment Section

Under authority by the Department of Environmental Protection of Taoyuan City Government, the Climate Change and Sustainable Environment Section is responsible for the City's affairs in relation to climate change mitigation and adaptive development.

## Urban and Rural Resilience Section

Under authority by the Department of Urban Development of the Taoyuan City Government, the Urban and Rural Resilience Section is responsible for the City's fields of land use as well as affairs in relation to urban resilience infrastructures.

## Circular Economy Section

Under authority by the Department of Economic Development of Taoyuan City Government, the Circular Economy Section is responsible for the City's sustainable economic development as well as affairs in relation to energy supply and industrial fields.

## Green Transportation Section

Under authority by the Department of Transportation of Taoyuan City Government, the Green Transportation Section is responsible for affairs in relation to green transportation in Taoyuan City.

## Public Security Section

Under authority by the Department of Public Works of Taoyuan City Government, the Public Security Section is responsible for the City's public security and affairs in relation to disaster prevention and emergency operations.

## Healthy City Section

Under authority by the Department of Public Health of Taoyuan City Government, the Healthy City Section is responsible for the City's affairs in relation to health and welfare and the field of health.

## Sustainable Society Section

Under authority by the Department of Social Welfare of Taoyuan City Government, the Sustainable Society Section is responsible for the City's affairs in relation to social welfare and friendliness and equity.

## Sustainable Education Section

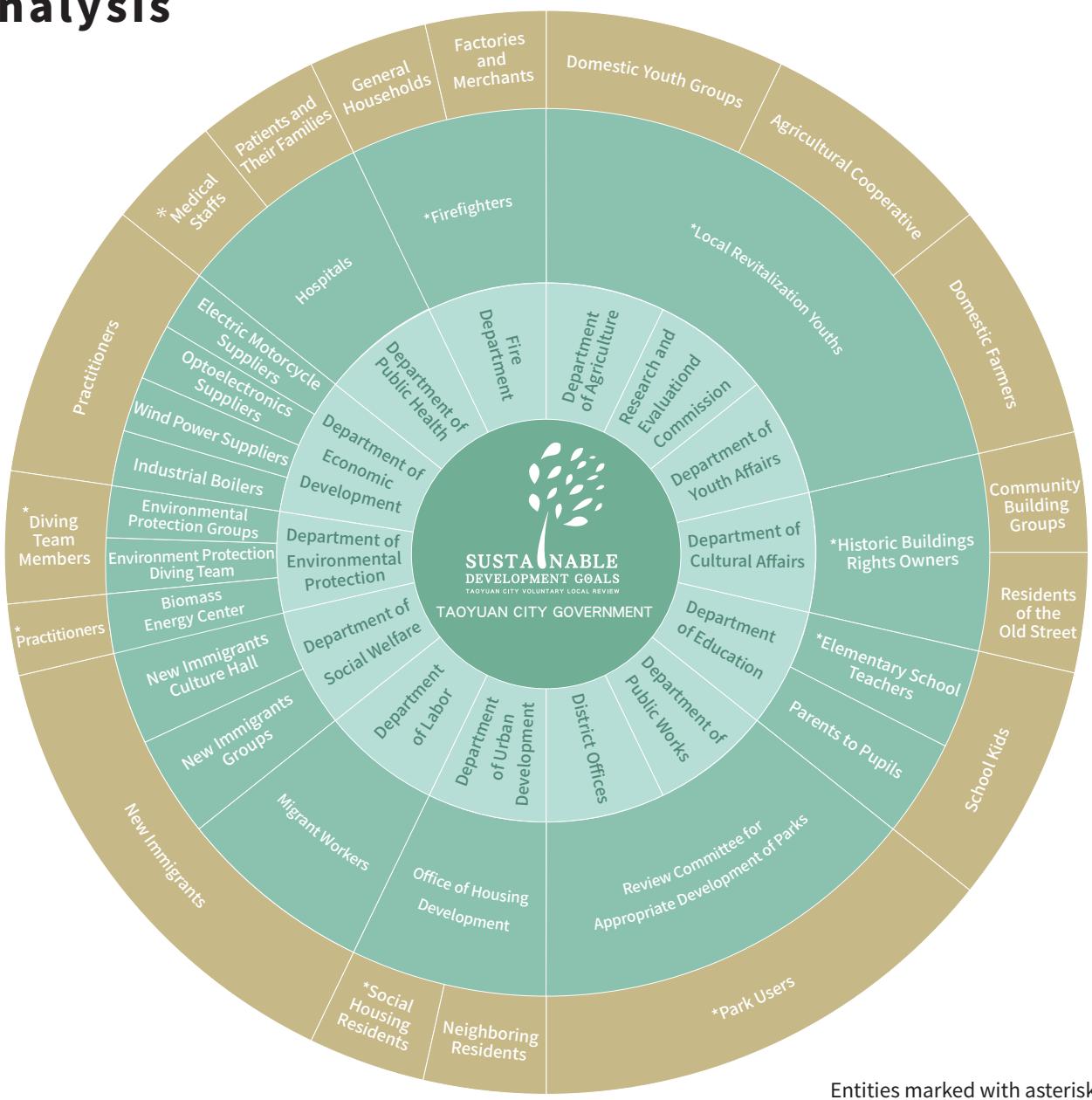
Under authority by the Department of Education of Taoyuan City Government, the Sustainable Education Section is responsible for the City's affairs in relation to education.

## Inspection Methods and Process

Sections under Sustainable Development Committee perform inspection and modification of administrative plans and evaluation indicators under VLR, with Highlight Stories added.

<b>Administrative Plans</b>	Originally 288 items	→	<b>292</b> items	54 items retained, 219 items modified, 19 items added, and 15 items deleted
<b>Evaluation Indicators</b>	Originally 59 items	→	<b>59</b> items	22 items retained, 32 items modified, 5 items added, and 5 items deleted
<b>Highlight Stories</b>				<b>10</b> topics, with interviews of <b>13</b> individuals

# Stakeholder Analysis



Highlight Stories Stakeholders Analysis Chart

"People of Taoyuan X Records of Happiness" incorporates 10 topics-epidemic prevention, net zero, ocean, park, social housing, livability, education, culture, revitalization and fire protection, among which 13 "stakeholders" have been invited to an interview on these topics. Aiming to cohere with certain basic principles for SDGs goals including "universality of the entire society" and "inclusiveness", it is expected that the implementation of sustainability policies may "leave no one behind" and enables all stakeholders to express their opinions.

In the creation of Taoyuan VLR, in addition to the inventories on policies of various bureaus and departments within Taoyuan City Government, opinions from the public have also been collected to better "identify stakeholders". In addition, "stakeholders engagement" may be effected in the process of communications. We are convinced that all citizens, groups and organizations are important partners in the Taoyuan sustainability policies, whilst VLR creation process itself is the implementation of SDGs partnership. **It is expected that Taoyuan will walk hand in hand with all important partners on the path of sustainability to create a better future.**

# *People of Taoyuan χ Records of Happiness*



Hutoushan Innovation Hub, Taoyuan City

## **Highlight Stories**

Let's stride with hands joined and create the future on the path of sustainability.

# 01

# Epidemic Prevention

## Thank you for withstanding the epidemic with us

Exploration on Impacts and Countering Strategies  
under the Epidemic



Large Vax Site Furnished at Taoyuan Arena for Civilian Vaccination

With your company in the darkest hours,  
the most dimmed candle will illuminate with brilliance.

Core Targets :  Good Health and Well-Being

Countermeasures : 3.2 | Infectious Disease Prevention Plan P.60 、 3.6 | Vaccine Delivery Plan P.61 、  
3.8 | Suicide Prevention and Mental Health Promotion P.61



Head Nurse at TYGH Emergency Room / Huang Xin-Ping

"If I myself am scared, what should the registered nurses under my command and the civilians do? Hence, no, I shall not be afraid," said Huang Xin-Ping, Head Nurse at TYGH Emergency Room, with a leisured attitude in the face of the centennial pandemic of COVID-19.

## As Municipality of National Gateway, Impact by First Epidemic Wave is Inevitable

The term "Taoyuan General Hospital, Ministry of Health and Welfare (TYGH)" has been appearing in various epidemic news in the recent two years since the first COVID-19 case in Taiwan was admitted in 2020. From "Taiwan-Palau Travel Bubble", "TYGH Incident" to the "China Airlines Novotel Incident", TYGH withstands the epidemic and successfully defended Taiwan's barrier without signs of decline.

What's behind Huang Xin-Ping's calmness is not the valor without strategies, but are the countless epidemic prevention drills, strict infection control operations, and self-confidence in the nursing profession.

"In clinical practice, we perform self-protection properly, such as washing our hands properly. For example, when I go to the emergency room, I'd wash my hands after I touch something. There was one time the Vice Superintendent of TYGH standing next to me wondering why I kept washing my hands. It is because I have hardwired it in my head without finding it cumbersome." When mentioning infection control, Huang Xin-Ping explained that TYGH strictly implements handwashing audits, surgical mask fit tests, and even "the doffing of protective clothing following completion of each test will be under supervision, as most people are infected when they doff off their hazmat."





# Be Together

River Bank View along Nankan River Bicycle Path



## Providing Strongest Support to Medical Care Personnel

TYGH's infection control has been implemented before the COVID-19 epidemic. Huang Xin-Ping said, "the City Government staff pay regular visits to review our entire epidemic prevention flow and process. That's something they've been doing since before the epidemic. A while ago, the City Government also came to check out our equipment, and to confirm the emergency epidemic prevention circulations and how the equipment was used in TYGH."

Taoyuan City Government established the "COVID-19 Joint Prevention and Medical Network" as early as February 2020, in which 11 hospitals responsible for emergency within its jurisdiction signed the

cooperation statement, allowing inter-hospital supports including epidemic prevention materials, beds, medical manpower, equipment, and inter-hospital referrals under the coordination of the City's Department of Public Health. Huang Xin-Ping has personal experience in this regard. "From the beginning of the epidemic, the most common contact is the City Government's assistance in transferring patients for physician visits, and at the beginning, epidemic prevention taxis were also under deployment by the City Government. Later, many supplies such as cooling fans, air purifiers, etc., were also provided by the City Government to the hospital for epidemic prevention use."

## Memories Flooding in Mind

Epidemic prevention is a stressful and intense work. For Huang Xin-Ping, the longest streak of staying in TYGH premise without going home is the 21 days in a row during the TYGH Incident. However, at the same time, as a medical staff, she In addition had to face the discriminatory treatment by others who don't understand. Huang Xin-Ping said that at that time, many bento eateries would skip delivery to TYGH, and the convenience store in the hospital had nothing but plundered shelves without even a package of instant noodles; In addition, a breakfast place was dissuaded from visiting just because it is owned by the family of Huang's colleague; in addition, Huang Xin-Ping's own son was also labeled by his classmates. Nevertheless, Huang Xin-Ping proudly said, "my son always tells others that he very proud of his mother for the role, and there is nothing to be afraid of. My family understands my hard work. When my son knows that I am going to work, the first thing he does is hugging and kissing me, and telling me how much he loves me.

This is something we do every day. My family has always given me great support."

The darker the moment is, the more evident the positivity of human nature will be.

Huang Xin-Ping said that at that time, many people knowing about the hardship and busy working of medical staff would still send food and other things to TYGH, saying, "Thank you for your hard work." One restaurant impressed her particularly. "At the initial outbreak of COVID-19, there was one yakiniku restaurant sending Japanese yakiniku to our emergency room. Also, on the first day of the TYGH Incident, the same restaurant became the first to deliver bento to us. They even asked its employee to write a small note of encouragement for us. That restaurant has always been the first to act, and I am very grateful to them. They moved us with the willingness to do such things."

## The Resilience of Persistence Derives from Every Individual of Taoyuan

Huang Xin-Ping has engaged in nursing for 20 years, and she humbly claimed how she is still a newbie head nurse. Regarding her work, she responded, "I have been a registered nurse for 20 years, and I have never felt tired along the way. At that time, I had just been transferred from head nurse of outpatient to the same role at ER, which coincided with COVID-19 outbreak. Everyone thought that, wow, this is unfortunate! Yet I took it differently, since this is not something every single person would encounter, and I am doing a series of things during the entire epidemic prevention which cannot be done by everyone. These are what I've been telling myself."

The COVID-19 pandemic has shaken the world. For more than two years, Taiwan has gradually moved

towards the "post-epidemic" era with the help of the public, medical care and the government, with low social impact and retained medical capacity.

Taoyuan, as the front line of the national border and epidemic prevention, has successfully demonstrated the resilience of epidemic prevention and has successfully survived at all stages of the epidemic. Each and every medical staff, front-line epidemic prevention personnel, and all citizens shall take credit for the joint efforts behind the success of epidemic prevention.

"We show the same attitude in the encounters of all viruses, and we need not be frightened. Protect yourself to protect your family and every single person."

# 02

# Net Zero

## Wishing for a Clean Homeland

Building a Low-Carbon Green City of Sustainability



Houhu River Ecology District, Xinwu Dist., Taoyuan City

Net zero is not necessarily zero carbon emission, but the efforts to minimize the emission of GHGs generated in activities of human beings, plus offset of such with negative carbon technology, forest or factory carbon sinks and other methods to achieve the purpose of net zero emissions.

Core Targets :  07 Affordable and Clean Energy  12 Responsible Consumption and Production  13 Climate Action

Countermeasures : 7.1 | Taoyuan Green Power City Plan P.89 、 7.2 | Plan for Waste-to-Energy from Waste Treatment Facilities P.90 、 7.3 | LED Smart Street Light Replacement Plan P.90 、

12.1 | Plan for Promoting Industrial Waste Energy Conservation and Waste Reduction and to-Energy Conversion P.128 、

12.4 | Circular Economy Introduced with Regenerated and Reused Pallets P.128 、 13.1 | Low-Carbon Green City Plan P.131

Corresponding Indicators :

21 | Cumulative Power Generation of Renewable Energy 、 22 | LED Smart Street Light Replacement Plan - Cumulative Carbon Reduction 、

23 | Power Generation from Treatment of General Waste via Treatment Facilities or Solar Optoelectronics Systems 、

44 | Ratio of Industry Waste to-Energy Conversion

## Circular Economy, and Development of Sustainability.

"Taoyuan City Government has already started planning the Biomass Energy Center ever since the City's promotion," said Chen Yao-Cai, Associate Manager of Factory Affairs of Sonnarkraft Corp and one of the core figures in the BOT project of Guanyin Biomass Energy Center. "Taoyuan is very special. The City Government has set aside a 4.38-hectare land in Guanyin District and invited potential manufacturers to participate in tender. After we were awarded the contract, we also assisted with the central competent authority in the administrative procedures of environmental, special construction and planning permission to accelerate the promotion of this massive project."

The practice of circular economy is the value of urban development of sustainability. Taoyuan took initiative nationwide in promoting the three-in-one Biomass Energy Center, which incorporates thermal treatment unit, anaerobic digestion unit, and solidification and landfill unit. The thermal treatment unit for treating solid wastes may incinerate 600 tons of wastes daily; the anaerobic digestion unit for treating kitchen wastes has the capacity of incinerating 135 tons of such waste per day, with electricity generated by the heat throughout incineration available to be combined into the power grid for use; In addition, the fly ash generated in the process can be solidified and buried on site to save the high transportation costs at backend. The power generation efficiency of Biomass Energy Center is estimated to reach 28%, which is much higher than the certification standard of existing incinerator plants and renewable energy waste equipment in Taiwan. Its estimated annual power generation is projected to 220 Million kilowatt-hour, and high efficiency of such power generation is already at the green power level.

"The architectural design of the Center also has a story. Due to the Center's location by the sea, the roof of the Center itself contains seven layers inclusive of bottom plate, thermal insulation layer, waterproof layer, etc.; in the meantime, a lot of efforts were taken in the appearance design of the Center, with inspirations by the concepts of conduction of ocean waves and green power generation." According to Chen Yao-Cai, while a generic roof comes with only one or two layers, a multitude of considerations including architecture functionality and aesthetics were taken in the design of the Biomass Energy Center to express both the architectural safety and circular energy images.

The Guanyin Biomass Energy Center BOT case has a concession period of 25 years, with actual period for operation at 22 years after deducting the construction period. During this period, the operation team will dispose of Taoyuan's annual 120,000 tons of waste and kitchen wastes free of charge, and burdens local rebates, change royalty, land rent, etc., which not only saves a huge expenditure of NT\$ 8 Billion for the City treasury, but also avails a stable waste disposal channel for both maintaining the quality of life of citizens or industrial investors. The joint effort by public and private sectors have created for the next generation a possibility worth NT\$ 8 Billion and the priceless sustainable environment. "This is a triple win for the citizens, the City Government and the industry," said Chen Yao-Cai with certainty.



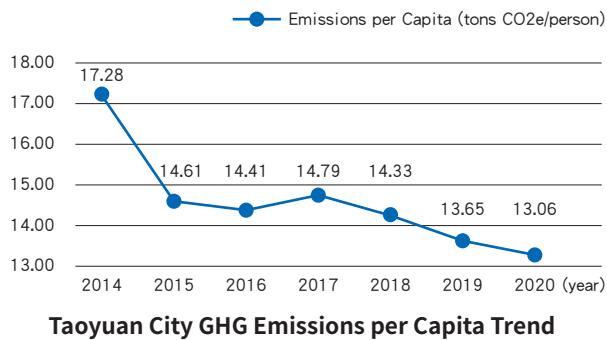
Sonnarkraft Associate Manager of Factory Affairs/ Chen Yao-Cai

## Complete Enforcement Strategies and Effects

Following promotion to Special Municipality, Taoyuan City Government is well aware that population and industrial and commercial activities are bound to become more active, and the consequent pollution and environmental burdens require more forward-looking and more complete governance, infrastructure, and supporting policies to deal with.

Taoyuan has a complete blueprint for the development of a low-carbon green city, with implementation for more than 7 years. The City Government promoted the formulation of "Autonomous Regulations of Low-Carbon Green City Development in Taoyuan City" and the implementation of the "GHG Control and Implementation Plans", In

addition conducting GHG inventory operations respectively in the sectors of industry, housing and commerce, transportation, agriculture and waste (environment) for the energy, fuel, wastewater and other detailed data. According to the data, Taoyuan City's per capita GHG emissions in 2020 was 13.06 tons of CO<sub>2</sub>e, decreased by 4.22% compared with that before the City's promotion (2014), showing the gradual implementation and certain effects of carbon reduction policies.



How does Taoyuan prescribe the right solutions to achieve substantial carbon reduction? Looking back to 2014, the City Government took legalization as the main principle and conducted cross-department consultations, with a consensus ultimately reached following numerous setbacks and difficulties. In 2017, the City effected "Autonomous Regulations of Low-Carbon Green City Development in Taoyuan City" aiming to encourage agencies, industries, and NGOs to implement energy conservation through the four orientations encompassing environmental education and life, city and architecture, industries, and transportsations in order to achieve low carbon emission. Since the implementation of the Autonomous Regulations, the City government has initiated several amendments to the Regulations by incorporating the specification concerning use of recycled pellets, enhancement in the friendly environment featuring low-pollution vehicle, new penal provisions for major electricity users failure to install green energy equipment, and advocating reusable containers. In the meantime, the management of waste and transportation methods thereof are strengthened for continued excellence in the underlying nature to gradually prevail the environmental awareness.

With the legalization specifically promoting the mitigation of GHG emissions, and the promulgation of the "Greenhouse Reduction and Management Act" in 2015, the management system of GHGs received a substantial improvement, allowing effective grasping of carbon emissions and complementing of inventory system. Taoyuan City's GHG historical inventory results over the years indicate that the largest emission comes from the industrial energy sector, accounting for about 70% of all emissions, followed by the residential and commercial

energy and transportation energy sectors, each accounting for about 10%~13%. With clear GHG emissions plus 2018~2020 cooperation with the GHG Reduction Policy of the Executive Yuan, greater focus on policies were made, which enable the successful transformation from the "Taoyuan City Low-Carbon Green City Flagship Project" to the "GHG Control and Implementation Plan" as the foundation of GHG reduction policies and action plans in different phases.



Biomass Energy Center, the National Example for Environmentally Friendly BOT

## The Major Four Fields Covering Various Aspects

In terms of energy, Taoyuan took the nationwide initiative in promoting the three-in-one Biomass Energy Center, which can incinerate 600 tons of waste and 135 tons of kitchen wastes daily, along with power generation at the projected 220 Million kilowatt-hour and a power generation efficiency at the green electricity level to 28%. Under the circumstances which insolation duration in Northern Taiwan is fewer than those in Central and Southern Taiwan, the City Government overcame the difficulties and reached an agreement with local manufacturers in the installation of rooftop solar optoelectronics, with current development inclusive of diversified green energy, energy storage equipment, virtual power plants, etc., to maximize green energy constructions. The renewable energy installations reach a capacity of 691MW, of which the solar optoelectronics tops amongst Northern Taiwan cities and counties.

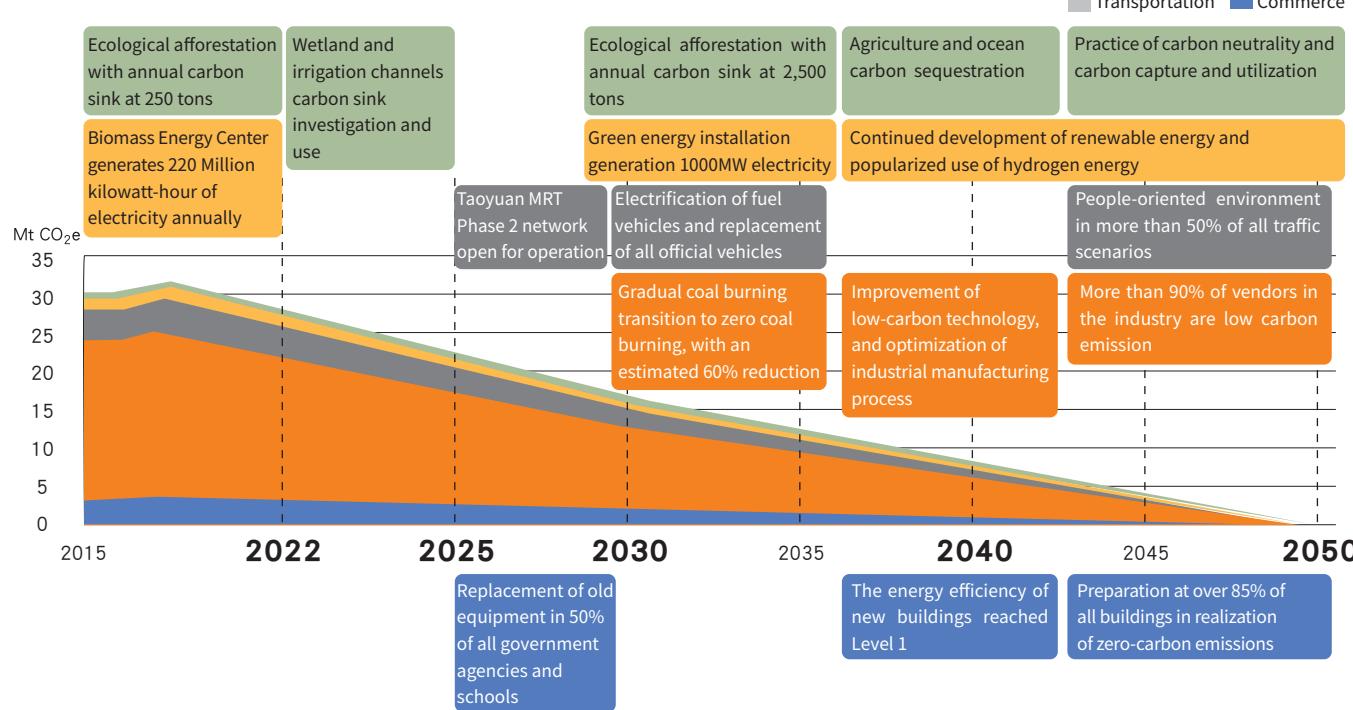
In terms of industry, the replacement subsidy for industrial and commercial boilers involving fuel boilers with high carbon emission are changed to models consuming clean fuels such as biomass fuel, solid renewable fuel (SRF), liquefied natural gas (LNG), and 1,572 boilers have been replaced under subsidy within 7 years, as negotiations

with large manufacturers have been conducted simultaneously. Taking the Datun Power Plant as an example, its reduction in nitrogen oxide emission through units improvement is far lower than that under total EIA; In addition, the introduction of low-carbon technology industrial processes facilitates the industrial reform into a green energy industry and improved energy efficiency.

In terms of transportation, the City Government has constructed a three-hub and six-line MRT network connecting the three major metropolitan areas and six MRT lines across Taoyuan; in the meantime, through the electric motorcycle subsidy for accelerating elimination

of two-stroke motorcycles has contributed the current registration of electric motorcycles exceeding 80,000, a 10-fold growth compared to figures prior to promotion. On top of such is the addition of battery charging (swap) stations and friendly services for facilitating electric motorcycle prevalence. In terms of lighting, the City has completely replaced traditional mercury vapor lights with smart street lighting systems. The 162,000 intelligent LED street lights can effectively reduce energy consumption by about 70%, and the electricity bill for street lights is reduced from NT\$ 219 Million to NT\$ 66 Million a year, which not only greatly reduces expenses but also improves road safety.

### By 2030, with 40% annual carbon reduction as target, Taoyuan City aims for a practical realization of net zero carbon emission by 2050.



### Advancing Hand in Hand in the Net Zero Path

In the COP 26 in 2021 with 2050 net zero goal set as topic, various cities across the world were invited for participation in the initiatives, and Taoyuan City with the pleasure to participate is the only Taiwanese delegation in its physical conference. Taoyuan shared the City's low-carbon strategy with the world, and also showed a positive attitude towards international exchanges. In 2022, Taoyuan officially announced the net zero path and incorporated the 2050 net zero goal into its Autonomous Regulations of Low-Carbon Green City Development, with practices in cohesion to the Climate Change Adaptation Act.

Taoyuan City Government has planned the net zero path in its net zero goal, with expected realizations by 2025

including replacement of half of the old power-consuming equipment in government agencies and schools, Taoyuan MRT open for operation, development of biomass energy, and ecological afforestation; by 2030, the coal-burning in the industry will gradually transform to zero, which is estimated to reduce carbon emissions by 60%, and the City is expected to promote the full electrification of official vehicles and passenger transport; in 2050, more than 50% of the people-oriented transportation environment, 85% of buildings have zero carbon emissions, and more than 90% of industry vendors have low-carbon emissions, whilst carbon neutrality and capture technologies and utilizations are conducted to transform Taoyuan from a low-carbon city into a zero-carbon city.

# 03

# Ocean

## Protect She who Nurtures Us

Save for Our Offspring a Clean World Under the Sea



Guanyin Beach and Guanyin Caota Sand Dunes

Taiwan is an island surrounded by ocean, and we who reside on the island is the children nurtured by the ocean; maintaining a azure and clean ocean without pollutions is the pride of every single island resident.

Core Targets : 07 Affordable and Clean Energy 12 Responsible Consumption and Production 14 Life Below Water

Countermeasures :

- 7.2 | Plan for Waste-to-Energy from Waste Treatment Facilities P.90, 12.3 | Ocean Waste and Plastic Bottles Value-and-Output-Adding Plan P.128,
- 12.4 | Circular Economy Introduced with Regenerated and Reused Pallets P.128,
- 14.1 | Shore Environment Monitoring Technology Center and Automatic and Continuous Water Quality Monitoring Plan P.136,
- 14.2 | Taoyuan City Coast Guard Plan P.136, 14.3 | Coastal Environmental Education Plan P.136

Corresponding Indicators :

- 23 | Power Generation from Treatment of General Waste via Treatment Facilities or Solar Optoelectronics Systems,
- 52 | The total service hours of Taoyuan City Coast Patrol (Environmental Fleet, Environment Protection Diving Team) Volunteers in the Current Year



Chairman of Graduate Institute of Hydrological and Oceanic Sciences,  
National Central University / Huang Zhi-Cheng

The ocean is the cradle to countless creatures in the world, and the clear azure ocean surrounds Taiwan. However, as we dive into the ocean, we find the garbage deposited on the seabed increasing by millions of tons annually, causing sea turtles and fish to swallow by mistake straws, plastic bags, etc., and great harm to ocean organisms. These wastes are biological killers in the ocean, and will feed back to human beings through fishery resources.

## Leading Students in the Joint Ocean Protection with Zeal

"I want to dive because I love ocean!" Huang Zhi-Cheng, Chairman of Graduate Institute of Hydrological and Oceanic Sciences, National Central University, is an experienced diver and a passionate "ocean scavenger" after having engaged in diving activities owing to coral reef research. Following appointment as professor at National Central University, he established the "NCU Blue Ocean Diving Team" with the students and joined the "Taoyuan City Environment Protection Diving Team" established by the Office of Coastal Administration Construction of Taoyuan, in addition conducting ocean cleaning activities with NCU students every year.

"At present, most of the ocean garbage is plastic bottles or lunch boxes. In our dives we clean up the garbage and put them together in mesh bags, but because the garbage are in great amount and heavy, we need to use buoyancy bags to make the garbage float before salvage with boat." Hard work as it might sound, one could feel Huang's enthusiasm through his words. "Some sea areas have a large amount of garbage, and sometimes the amount of garbage we salvage in one sea cleaning reaches 1 ton (1,000 kilograms)."



Important National Wetland – Dayuan Xucuogang Wetlands

## Making Our Homeland Better through Actions

After the ocean garbage is salvaged, it is handed over to the Department of Environmental Protection for sorting and recycling. The plastic bottles collected in the beach and sea cleaning are then made by the City Government in collaboration with manufacturers into "Xun Bao Yi (Plastic Bottle Hunt Shirts)" composed of up to 96% of marine wastes as a gift worn as team uniform to ocean cleaning volunteers, which not only increased the sense of honor of the team members, but also made the cleaning more valuable.

The non-recyclable waste will be incinerated or buried. Taoyuan's incineration plants can convert the "bottom slag" remains after the waste is burned into "recycled pellets" in compliance with engineering standards to be used in public works building premium public facilities. The Fuyuan Park in Taoyuan District and the parking lot of Xingnan Station of the Airport MRT are the examples of direct use of incineration pellets. In this way, recyclable plastic waste or general waste entering the incinerator are treated via Taoyuan's implementation and spirit of circular economy in its dedicated building of an environmentally friendly city centering "Zero Waste" and "Reuse".

Speaking of the Taoyuan waters, Huang Zhi-Cheng said, "in reality, there are few locations in the western waters where one can dive into the water and clean as the water is too turbid and the current is strong. At present, only the waters near Guanxin Algae Reefs in the Taoyuan allows us to dive and clean."

Huang Zhi-Cheng, who is personally engaged in ocean-related research, believes that through the ocean cleaning, he can understand the ecology and characteristics of the local ocean, and he may also communicate with local volunteers, which is very helpful for his research. This is the reason why coastal with ecology he intends to know is included in the locations for ocean cleaning. In addition, Huang Zhi-Cheng judges the tidal fluctuation, current direction, current speed, diffusion area or climate response based on his own research and experience in ocean cleaning, which allows him to offer advice for immediate countermeasures in his participation in the ocean oil spill emergency and relevant drills organized by the City Government.

"If you understand the characteristics of your hometown and love your hometown, you will cherish it." The environment, local culture and economic development have always been closely linked. According to Huang, in addition to ocean waste cleaning, he expects to share with the mass the beauty of his hometown in combination with domestic features. "We previously held the Stone Weirs International Seminar, whose intention is to broaden the local vision through international exchanges and to influence the international participants through local experiences. At that time, many locals participated! In fact, as long as we find the right people and make them willing to engage, there will be positive benefits. By letting the elderlies feel involved, they can help us pass on the land and culture, and we may see opportunities for community recovery."



Ocean Cleaning Divers Carrying Mesh Bags in Dives to Seabed for Picking Up Trash

## Passing Down the Beautiful Things

The 46-kilometer-long coastline of Taoyuan contains natural and cultural resources, including Xucuogang Wetland-a Taiwan Important Wetland, Guanyin Caota Sand Dunes Geological Park, Guanxin Algal Reefs Ecosystem Wildlife Refuge, Xinwu Kejian Stone Weirs Cultural Scenery, Beach Seine Culture and more. Taoyuan City Government pioneered the establishment of the Taiwan's first "Office of Coast Administration Construction" and released the "Coastal Ecology Protection White Paper" for local government tiers in its committed promotions of various ocean conservation plans. The City Government has proactively drafted policies in relation to precautions incidents, emergency handling, and aftermath processing of ocean pollution.

The Office of Coast Administration Construction has also effected the "Plans for Construction of Environmental Education Corridors in Coastal Areas", with implementations such as ecological restoration, regular inspections, setup of garbage interception nets and automatic water quality monitoring stations. In addition, the old coastal buildings are also revitalized and incorporated into part of pavilions containing

local characteristics and educational significance, which will enable the public to understand the preciousness of the coastal environment through environmental education, In addition allowing the agencies to develop eco-tourism with local characteristics.

"Human life will definitely generate wastes, which is not a bad thing. However, we need plans for utilizing things to prevent generating excessive wastes." The creation of sustainable environment relies on efforts you and I and all the efforts in reducing the volume of wastes generated in our daily lives.

Concerning future plans, Huang Zhi-Cheng hopes that both individuals and organizations may continue to clean the ocean every year. In the meantime, with the joint strength of the government, enterprises and the people, ocean cleaning activities can be proceeded at a larger scale and in an organized matter. Furthermore, Huang expects more youths with plans to join and discover local culture, narrate the anecdotes, and work together for a beautiful ocean. "Good things are worth passing on with our efforts."



# 04

# Park

## Making Parks More than Parks

Diverse and Friendly Design of Inclusiveness



Taiwan's First Terrace Ecology Park - Dayou Terrace Ecological Park

Allowing citizens of Taoyuan to amuse themselves in Utopia Taoyuan at premises featuring diverse park designs and constructions of friendly spaces.

Core Targets :



Gender Equality



Sustainable Cities and Communities



Peace, Justice and Strong Institutions

Countermeasures :

5.12 | Friendly Public Spaces P.83, 11.13 | Accessible Transportation Environment P.116, 11.37 | Park Green Fields Development and Expansion P.124, 11.39 | Hiking Trails Renovation P.125, 16.21 | Review Committee for Appropriate Development of Parks P.149

Corresponding Indicators :

36 | Accessible Bus Ratio, 37 | Area of Park Green Field Sharable per 10,000 Population



1895 Yiwei Taiwan Protection Peace Memorial Park

A large circular footbridge built with Béton brut design of simplicity connects the green fields on both sides of the road in a fashion-forward manner. In the middle of the circle lies a semi-circular reflecting pool unrippled reflecting the azure sky, under which are the brand-new parking lot and historical exhibition hall.

This is the "1895 Yiwei Taiwan Protection Peace Memorial Park" in Pingzhen District, which used to be a large and disorderly cemetery. In November 2021, it was transformed into an inclusive park with both historical significance and fun for adults and children. Every holiday, this park is filled with vigor as the visiting children emit laughter of joy here.





Fenghe Park



## Dedicated in Building an Inclusive Playground to Truly Allow Happiness to be Shared with Every Single Person

"A good park really solves the headache for mothers-letting children wandering around. I think Taoyuan is great. There are various types of parks with all demographics taken into account." The couple Lin Xin-Yi and Chen Bin-Sheng residing in Yangmei District has a pair of children, among which the daughter suffers from a rare disease and depends on mobilized wheelchair to move around; nevertheless, they still like to visit various places with their children.

"My daughter likes to contact people, and we always takes her out. She visited parks big or small in Taoyuan when she was little, and when she got older, she would go to visit attractions like forest recreation areas, etc., where she could interact with fellow patients. One at her age would require company, and we can visit some relatively open place accessible by motorized wheelchairs for picnic so that she can spend time together with fellow patients."

Fenghe Park in Taoyuan District has a "sand table" with a height of about 70 cm that allows ones in wheelchairs or those who cannot enter the sand pit to play together.

This kind of park design is not a special case. Taoyuan promotes the "Inclusive Playground Project"-the first "city-wide" planning in the country focusing on "playgrounds". In addition to experts engagement for opinions, resident workshops with citizen groups as invitees are promoted in the creation of inclusive playground. Currently, 63 characteristic parks have been planned in complete in Taoyuan.

In the planning process, children's right to express their opinions is implemented through the participatory workshop, so that children's opinions may be valued. The competent planning and design unit intends to gradually allow children of all ages and different groups (including individuals of different disabilities) to participate in the workshop, and, convert and organize the re-interpreted children play behavior and needs following observation, listening, and reflection into needs for playgrounds and basis of park designs.





Hutoushan Park



Fenghe Park

## Public Spaces with Enriched Friendliness and Respects for All Ages.

Taoyuan's hiking trails also has been incorporated with the design concept of "for all ages". For example, in the Hutoushan Designated Scenic Area spanning across Taoyuan and Guishan Districts, three hiking "systems" are constructed according to different trail types and slopes, with a total of six trails built. The inside of the park contains stepless design, and the slope plank trail with great width and gentle slope allows easy access via wheelchairs and strollers. In addition, the elevated wooden plank trails built out of elevation method is adopted to protect the natural habitat of animals and plants from being damaged. The trails built under circular and gap concepts connect the surrounding recreational nodes, making it the best attraction for family hiking, absorption of phytoncide in the woods, and training of physical strengths.

Regarding the public space where the City Government implements "universal design", the Lin-Chen couple said that "citizen awareness of accessibility will rise if the City Government takes the lead. For example, when we take our daughter to the elevator, others will spontaneously hand us the priority to the elevator. I can feel that prevalence and culture of accessibility is slowly enhancing. People will feel it gradually if the Government pays its effort."

Through parks and trails designs, Taoyuan is committed to creating a diverse, friendly and respectful public space that allows people of all ages, genders and with or without disability to find their happy place.

# 05

## # Social Housing More than just a House

Taoyuan Social Housing with Warmth of Humanity



NO.2 Zhong-Lu Social Housing

| Having somewhere to settle allows one to strive for a rosier future with bravery.

Core Targets :  No Poverty  Sustainable Cities and Communities

Countermeasures :

1.8 | Living Allowances for Persons with disabilities P.53 、 1.10 | Disability Community Resources Center P.53 、  
11.1 | Promoting Diverse Social Housing P.112, 11.17 | Urban Renewal Promotion Plan P.119

Corresponding Indicators :

33 | Diversified Social Housing Supply



Sheltered Workshop affiliated with No. 1 Bade Social Housing serves coffee and light meals.

At 10 AM in a spring morning, voices of children recitals in English can be heard through the window.

Mr. Huang took a night shift last night yet is sitting in a chair enjoying the morning sun. "Classes and singing of English songs at the preschool downstairs can be heard every day, but it doesn't matter since they are students. Plus, this is a soundproof window which makes a difference when shut. You can barely hear anything from the outside." As he closes the French window while speaking, this apartment with 11-ping interior space turned silent instantly, and the only thing permeating through the window was the scattered sun rays gently illuminating the small yet warm living room.

## **Subverting Your Imagination for Social Housing. The Best Living Space is Here to Offer.**

This is the NO. 2 Zhong-Lu Social Housing located in the Zhong-Lu Redevelopment Area. It is the area surrounded by newly completed apartment buildings, wide sidewalks, complete park facilities, and various mansions. NO. 2 Zhong-Lu Social Housing is a 17-story building with black granite decoration on lower facades and simple and generous characters overall. "My friend coming to check out my apartment thought this building was a luxury house and even inquired the price per Ping and available apartments. To his surprise, it is a social housing!" said Wu Chun-Ting, Chairperson of the Research and Evaluation Commission, Taoyuan.

Taoyuan's social housing has long eliminated the stereotype of "messy" and "settlement of problematic individuals" and has reached the level of general new construction projects in terms of location and appearance. Furthermore, the social housing stresses the diversity and mutual assistance of households by implementing the policy of "60% ordinary households, and 40% policy-supported households".



**NO. 2 Zhong-Lu Social Housing**  
NO. 298 and NO. 296, Lixing Rd., Taoyuan District

## More Assistance Available in Addition to Applications at Ease.

Mr. Huang, a resident of NO. 2 Zhong-Lu, moved in in 2019. Back then, when he rented a house at other locations, "The landlord will not allow change of household registration to his/her location. I need rent subsidy for disabilities, and move-in registrations would require taxation receipts (of the landlord). I can't possibly get any of those from the landlord." Later, he visited the City Government to apply for social welfare grants, during which he learned about the social housing construction in progress. After a series of procedure, he finally got awarded the qualification as tenant at NO. 2 Zhonglu Road social housing—the first completed social housing in Taoyuan. "It was a lot of trouble to apply back then, but now, applications of social housing renting in Taoyuan can be applied directly on their website. The overall residential environment as well as amenities are much better than my previous rental. Plus, the night market and my workplace are near proximity to my place."

To tackle the rental housing problem, the City Government has proposed a rent subsidy and subleasing and management schemes. On the supply end, the City Government cooperates with the housing leasing suppliers to provide tax relief, preferential rental subsidies, insurance and housing repair subsidies and other incentives with a view to incorporate landlord leasing into government regulations. In addition, on the demand end, where a tenant is engaged in a de facto leasing and the house complies with the regulations, the tenant will receive rent subsidies on a

monthly basis. This is an act of providing citizens a more complete residence guarantee. In 2021, the number of households qualified for rent subsidies reached 19,000 households, and a total of 3,110 households have been engaged in subleasing and management through development and matching.

Regarding social housing management, Mr. Huang said, "I find nothing to be picky about. The management cost is included in my rent, and there's a security guard at the reception. I think this is good." "The Office of Housing Development has developed an APP for social housing that covers every aspect of social housing. We can even request a repair when there's something broken in the rental. Last time, a faucet at my place was broken, and I could request a repair service on the APP directly to handle such; or, if there is a registered mail for me, I'll get notifications from the APP."



01. Taoyuan City Social Housing Application and Management System



02. Social Housing Subleasing and Management Services Portal



03. Taoyuan City Housing Service Website

Resident of Taoyuan Social Housing/ Mr. Huang



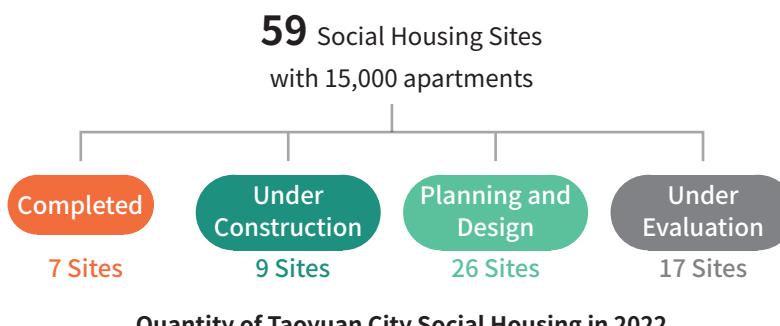


NO. 1 Zhong-Lu Social Housing Decor Display

## Persevered Efforts to Realize Rights to Affordable Housing

Taoyuan's social housing features 24-hour property management services and introduction of smart community concepts. The social housing APP comes with functions including resident online payment information, repair notices, letter and parcel notices, community information, and deeds query. The property management system may also integrate social housing information for data statistics and analysis which may serve as feedback to the maintenance of related facilities. In addition, Taoyuan is the first in country to sign a 6+6-year "rent to own" lease agreement with manufacturers in the introduction of air-conditioning, furniture, water heater and other equipment rental services in order to achieve circular economic benefit and to allow the public to conveniently "move in with one suitcase".

At present, Taoyuan has started the construction of 59 social housing sites, with an expected 15,000 households available for rent when completed. Among them, 7 sites including NO. 2 Zhong-Lu, NO. 1 Bade, NO. 2 Bade, NO. 1 Zhong-Lu, NO. 2 Luzhu, NO. 3 Zhong-Lu and NO. 1 Zhongli have been completed, while another 9 sites are under construction. More and more citizens will benefit from such housing in the future. It is expected that balanced urban-rural development and stabilized house prices can be achieved through social housing, thereby guaranteeing rights of living for every citizen and ultimately realize the rights to affordable housing.



### Taoyuan City Social Housing Service Center

Address / 5F, No. 300, Lixing Rd., Taoyuan Dist.

Tel / (03)333-1481

Service Hours / Mon-Fri

AM 8:00-12:00; PM 1:00-5:00

# Begin your Attraction to Taiwan from Taoyuan

Building a Diverse and Inclusive Culture



Taoyuan New Immigrants Culture Hall

Hope the diverse and inclusive homeland we built can be the source of friendliness and warmth to you whom spread wings and soar with courage; Taoyuan always welcomes you.

Core Targets : 04 Quality Education 05 Gender Equality 08 Decent Work and Economic Growth 10 Reducing Inequality

#### Countermeasures :

- 4.13 | New Immigrants Children Education Assistance P.73、5.7 | Employment Facilitation and Empowerment P.82、
- 8.8 | Providing Employment Assistance to the Underprivileged Groups P.94、10.1 | New Immigrants Joint Service Center P.108、
- 10.9 | Promoting Diverse Culture Development P.109、10.10 | New Immigrants Culture Hall-HOUSE 135 Diverse Culture Exhibitions and Promotion Events P.109



Bahasa Indonesia Teacher and Interpreter/Chen Yu-Qin



"Taiwan is great. That's why I fell in love with Taiwan and don't want to return to my hometown!" Chen Yu-Qin is the mother of two daughters, a professional Indonesian interpreter, and a native language teacher for new immigrants in five elementary schools. Coming from Java, Indonesia, she has worked for 6 years and has been married for 12 years in Taiwan. Chen, who has been living in Taoyuan, laughed and spoke out loud about her love for this "new home".

## Language Assistance as the Prime Objective

Chen Yu-Qin had a rocky start as she arrived in Taiwan. "The most difficult thing as I first came to Taiwan was the language barrier. At that time, I couldn't understand Chinese at all, so I needed translation." After receiving government-subsidized Chinese courses at night schools and her dedication, Chen Yu-Qin now has dual licenses of Taiwan judicial interpreter and general interpreter, and works as a shift interpreter at Taoyuan City New Immigrants Culture Hall and Bade District Public Health Center every week.

Language is the biggest difficulty to overcome for new immigrants or migrant when they come to Taiwan. Taoyuan New Immigrants Culture Hall has more than 90 interpreters providing translation services including Vietnamese, Bahasa Indonesia, Filipino, Thai, Burmese and Cambodian available for new immigrants and migrant workers recently arrived in Taiwan as well as individuals under special circumstances as they live in Taiwan. Chen Yu-Qin explained that when she serves in the New Immigrants Culture Hall Migrant Workers Service Center, she would meet migrant workers who get pregnant in Taiwan, who will then receive assistance from the Department of Labor of the City Government including arrangement of settlements and work.



Reading and Recreation Spaces available in New Immigrants Culture Hall

## Making Mother Tongues Education in Taoyuan More Diverse

At present, the Department of Labor's "Implementation Plan for Foreign Residents' Fertility Consultation and Settlement Service Platform" provides two major services-consultation and settlement. In terms of consultation, a multilingual consultation service hotline has been furnished to provide consultation on legal issues related to maternity and work, and other consultation on medicine, maternity, child-rearing, etc. In addition, prevention advocacy activities containing various advocacy lectures covering eugenic health care, pregnancy care, child-rearing consultation, etc. are held on a regular basis; in terms of settlement, pregnant migrant workers are provided short-term settlement places along with assistance in relation to living, work rights and medicine for children, rearing, return to place of origin. At present, friendly spaces are set aside in the settlement center to accommodate 25 mothers and their babies.

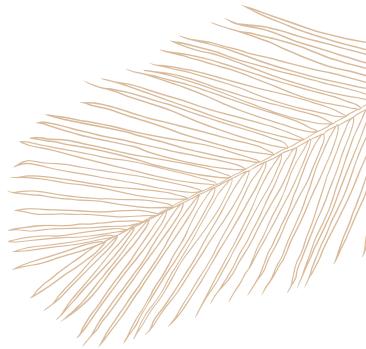
When it comes to parenting, Chen Yu-Qin believes that she should have her two daughters grasp Bahasa Indonesia so that they can converse with their grandmother as then visit. As a teacher of Bahasa Indonesia in various elementary schools, Chen believes that children learn quickly, furthermore, many of them as second generation to Indonesian parent(s) may review it as homework when they get home.



A Corner in the New Immigrants Culture Hall



Chairman of Taoyuan City New Immigrants Association / Lin Gui-Jin



## Promoting Southeast Asian Culture and Building a Friendly Utopia Taoyuan

Lin Gui-Jin, an advocate of new immigrants' rights and Chairman of the "Taoyuan City New Immigrants Association", also serves as a native language teacher for new immigrants. As a Vietnamese language teacher in Taoyuan High School, Shoushan High School and many elementary schools, she also believes that students' have great learning capability. Amongst all her courses, more than 90% of the students taking high school courses are not children of new immigrants, but they also show great enthusiasm for Vietnamese. "We start Vietnamese courses in communities, which are attended by some 50 to 60 students at ages ranging from 5 to 6 years old to 62 years old, which indicates Taiwanese' interest in Vietnam. I expect people to understand Vietnamese culture, and I especially want to share Vietnamese culture with the next generation." said Lin Gui-Jin.

To promote Southeast Asian culture, the Department of Social Welfare of the City Government and "Taoyuan City New Immigrants Association" frequently hold new immigrants related activities and courses, such as new immigrants law class, computer science class, etc. Lin Gui-Jin especially takes pride in one previous activity, during which she led more than 100 new immigrants sisters to Taipei to visit the Presidential Office Building and took photos and shook hands with President Tsai Ing-Wen. "Many of the sisters set their photos with the President as their profile picture, and we feel very honored. We think that Taiwan attaches great importance to us new immigrants."

The population of new immigrants in Taoyuan reaches 64,000, ranking fourth in the country and behind that of Taipei City, Kaohsiung City, and New Taipei City.

Since promotion of Taoyuan, the City Government has successively established the New Immigrants Joint Service Center, the New Immigrants Culture Hall, and the New Immigrants Learning Center in the North District, New Immigrants Affairs Section, Department of Social Welfare, New Immigrants Empowerment Center, etc., actively assist new immigrants in show their own characteristics and appearance in the society, thereby achieving the goals of friendliness and respect, empowerment and development and furthermore building Taoyuan into the City friendly to new immigrants.

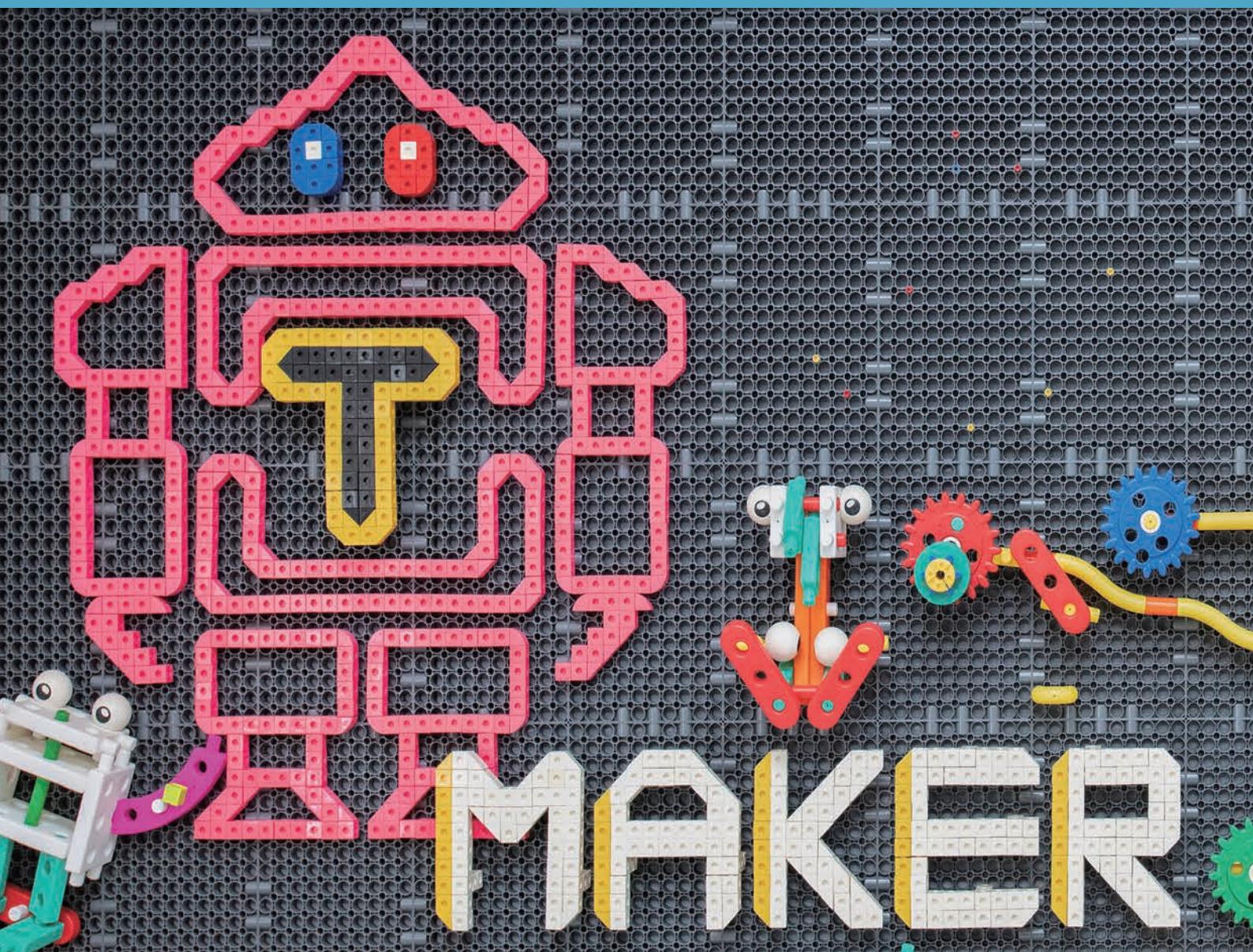
Talking about Taoyuan's new immigrants policy, Lin Gui-Jin said, "Taoyuan's new immigrants organizations are very active, and our counterparts in many other counties and cities would envy us. For new immigrants, the City Government has also established a New Immigrants Culture Hall where I usually go for classes and business. That building is really worthwhile. Also, Zhang Yu-Ting, Deputy President of the New Immigrants Joint Service Center, and Zheng Gui-Hua, Director of Department of Social Welfare, also encouraged us to found various groups and hold events, which is quite decent."

Summarizing Taiwan's life experience, "if my fellow countryman asks me, I will definitely recommend them to work and settle in Taiwan," said Chen Yu-Qin and Lin Gui-Jin unanimously.

New immigrants makes Taiwan and Taoyuan visible in the international stage, and broadens the view of Taiwan to the World.

## Education and Future Competitiveness Upgraded

Exploring Taoyuan at Aspects of Digital Technology and Bilingual Education.



Smart Maker Classroom at Taoyuan Elementary School

Taoyuan as the Municipality of National Gateway has the top fertility rate amongst the Six Special Municipalities. Education is the way to enhance competitiveness of children and their capability to link up with the world in the future.

Core Targets :  04 Quality Education  16 Peace, Justice and Strong Institutions

Countermeasures : 4.7 | Learning Support for Elementary and Junior High School Students P.71 ▶ 4.25 | Smart Learning Classroom Plan P.77 ▶

16.16 | Budget Support for Sustainable Development P.147

Countermeasures : 12 | Number of Digital Talent Cultivation Courses Participants



Teacher of Wen Huah Elementary School in Taoyuan / Fan Ting-Yu

The teacher operates the large touch screen occupying more than half of the center of the blackboard as she leads the students sitting at desks reciting English out loud. "This (interactive screen) is used in every classroom on a daily basis. Perhaps we're the first public elementary school in Taoyuan with such installation in each and every classroom." Fan Ting-Yu, a Wen Huah Elementary School teacher in Pingzhen District, explains the technological devices of the classroom while skillfully operating the interactive screen.

## Attaching the Purpose of Teaching by Student Aptitudes in a More Effective Manner through the Assistance of Technology

As one opens the door of the trolley next to the front door of the classroom, his eyes would be met by a cabinet full of charging tablet computers. According to Fan Ting-Yu, every student who comes to this classroom to take class will go to the "tablet trolley" to claim a tablet for use during class. "The tablet is something necessary since it allows differentiated teaching for students at different levels. For example, students are assigned different main tasks, and then are assigned bonus tasks. Students at higher level tend to accept bonus tasks. This means the teacher must know very well the level of each student, so the students receive appropriate guides in accordance

Wen Huah Elementary School is an urban elementary school, and Fan Ting-Yu, as part of Wen Huah's faculty, stated that location of her school in an urban area is exactly why the disadvantaged students tend to become overlooked when students come in different levels. "You would see some first graders having an English conversation with you, while some other fifth graders are still struggling with the ABCs." Fan Ting-Yu spent a lot of time to not only stimulate the children's learning motivation but also try to understand the situation of each student, thereby achieving the purpose of education according to aptitude of students.

## 多功能創意積木組

1. 表面擁有多元觸感，設計大小符合幼兒手部方便幼兒抓握。
2. 可搭配立體情境繪本進行操作，增加趣味性，培養幼兒空間邏輯能力。
3. 親子共讀可以增近親子間的互動。



Maker Classroom for Diverse Learning and Creative Conceptions

### Exalting Education Divides through Technology

Following promotion to Special Municipality, Taoyuan has promoted the "Smart School and Digital Classroom Plan", with a total of 5,698 smart learning classrooms built currently, allowing teachers to conduct personalized and differentiated teaching via the power of technology. In addition, to prevent the digital divide from affecting teaching equality, the Department of Education allocates an annual subsidy at NT\$ 30 Million for procurement of hardware and equipment to children in need and for reserved computer additions for student use. During the Covid-19 pandemic, a total of 5,800 devices and equipment have been lent out, while rental of SIM cards and routers under subsidy have been conducted.

Tu Shu-Jing, the parent to a pair of twin brother who are third graders of Yi Hsing Elementary School in Pingzhen District, has personal experience of digital teaching, "during the epidemic, because of distance instructions, I can see how my kids perform in class.

On top of lectures by foreign teachers, domestic teachers utilize multimedia as supporting material to the lecture, such as playing videos, or direct demonstrations. It's because sometimes body language and practical operations allow children to learn faster."

Yi Hsing Elementary School is one of Taoyuan's "Bilingual Innovative Teaching Schools". Currently, 7 elementary schools and 3 middle schools under this program have one-third of their courses taught in full English lecture by more than 100 foreign teachers. Tu Shu-Jing said, "Children are more sensitive to language learning when they are young. One day he suddenly said to me, 'Our teacher is from South Africa!', and they said "South Africa" instead of Nan Fei (South Africa in Chinese). I was startled, as it was like they have already hardwired English vocabulary inside their head." This immersive language teaching with English integrated into children's memory naturally without memorizing is the best way of learning.



Parents of Yi Hsing Elementary School in Taoyuan／Tu Shu-Jing

## Linking Up with Local Features to Make Education More Interesting

Fan Ting-Yu is also a bilingual course teacher, "I am currently in charge of the Life Curriculum for the 1st and 2nd graders, as well as the English courses for 5th and 6th graders. The Life Curriculum for 1st and 2nd graders are taught in bilingual, and English teachers like me will prepare bilingual courses and corresponding teaching materials centering topics such as "local cuisine", which consume us a lot of time to study local fruits and foods in Taoyuan. Life and Integrative Curriculums with topics adhering to children's daily lives allow them more opportunities to express themselves, and they would appreciate this type of course without any objection. Sometimes I'd spend a lot of time preparing a class and a lot of games, and if the children show positive responses, it will be worth it."

Regarding Taoyuan's education, Tu Shu-Jing, a parent, said, "I don't think the school has anything to be picky about. It's the moment of epidemic as we speak. In fact, the school and the teachers work really hard, and so far they have done a good job."

As the saying goes, "It takes ten years to nurture a tree, but a hundred years to train a man". Taoyuan is the City with the fastest population growth. In order to provide a better education environment for the next generation, the City Government's annual budget for education, science and culture tops the proportion of the total budget with a view to create sustainable and innovative education environment for children.

## Most Precious Treasure

The Preservation of Cultural Assets Begins from Old Houses



Yuan Gu Ben Pu

The mottled walls meeting our eyes are like an unfolded dusty scroll displaying the ancient stories and memories.



Owner of Yuan Gu Ben Pu/Gu Zheng-Jun

## What Left Behind by the Ancestors are the Perfect Beginning for Telling Taoyuan's Stories.

As one opens the door, he will be greeted by the floor embedded with roof tiles, the mottled walls that have been weathered by time, and the furniture made of old wooden beams and columns. With the name after its origin from the Gu family, "Yuan Gu Ben Pu" (Gu's Original Pastry Bakery) erects solely in tranquility on the bustling Daxi Old Street emitting the tender yet firm foundation, just like how it has been in the past 180 years.

"The houses here are rarely sold, and the neighbors are of the same families for the last four to five generations. During the Japanese occupation period, our family opened the business called Gu Yu-Fa Pastry, from which people get their pastries to celebrate birthdays and festivals. Therefore, from a long time ago, this place has been a highly prosperous gathering place with many stories." said Gu Zheng-Jun, the owner of Yuan Gu Ben Pu and the fifth-generation descendant of the Gu family. More than a decade ago, Gu Zheng-Jun worked in an immigration consulting firm and could not understand the charm of her family's old residence. It wasn't until she saw her hometown for the second time abroad that she thought of returning to her hometown of Daxi.

The renovation of a century-old house is a huge deal, which not only consumes labor and money, but also requires time and patience for dedicated maintenance. In the early days, Gu Zheng-Jun had no funds and her proposed renovation was understood by none of her neighbors, hence she decided to register the house as a Historic Building. Gu with advertising working experience has many novel ideas in her head. She invited the elders of the neighbors to lecture in the "Unaged Professionals" lectures to tell the history and stories of Daxi, and organize events together, which has made historical old house and the daily lives of the locale the focus, has made the old houses revitalized, and has allowed the elders to express themselves on a dedicated stage, and thus improved the visibility of the century-old house which helped them obtain the funds for house renovation. Unexpectedly, these "frictions" made fire, prompting Gu Zheng-Jun and local residents to conceive more brilliant events, such as fashion shows, modern dance, wine tasting, art galleries and photography exhibitions, etc.; In addition, they also participated in the light spot restoration project of the Lovely Taiwan Foundation to rejuvenate old houses and turn the premises of daily lives the stage to showcase radiance. "Don't define the old house as showroom of relics. The old house is not a burden, and it leaves great room for imagination." Gu Zheng-Jun said.





Dexin Hall, Luzhu Dist.

## Building Restoration and Revitalization for Reuse

Taoyuan has a profound cultural heritage and preserves many historic sites with architectural features or historical and spatial significance, historic buildings, etc. With a view to pass down cultural assets and preserve the historical memory of the City, Department of Cultural Affairs of the Taoyuan City Government handles cultural assets investigation, research, restoration and reuse work in accordance with the "Cultural Heritage Preservation Act" to preserve the distinctive historic buildings while the new public buildings are under rapid development, so that these buildings that have witnessed different historical periods in Taoyuan can be revitalized and reused. For example, Zhongli Matsu New Village, Daxi Taiwu New Village and Guishan Xianguang 2nd Village belong to the post-war settlements for military dependents; Zhongping Road Story House, Forest Story House and Li Jing Ding in Zhongli District, and Chung Chao-cheng Literary Park in Longtan are the Japanese style architecture built during the Japanese occupation period; In addition, Lin Family Meihe Villa and Luzhu Dexin Hall in Daxi are the traditional residential architecture of Taiwan.

Yuan Gu Ben Pu, located at No. 48 and 48-1, Heping Road, Daxi District, is also one of them. Through the preservation of cultural assets, Yuan Gu Ben Pu is an excellent example of the preservation and restoration of the historic district with its combination with the leisure attractions around Daxi Old Street as the drive of local cultural tourism as well as the spot available for visit during the restoration period by students majoring in related studies.

Gu Zheng-Jun has her own philosophy in the restoration of old houses. She insists on leaving the broken roof tiles and embedding them in the floor tiles, so that they remain in the house in an alternative manner; instead of applying putty, she chooses to keep traces of dents on walls to maintain the historical charm of the house; furthermore, she does not throw away the wooden beams, columns and furniture gnawed by termites and decide to reuse them by trim them into materials for chairs and cabinets. "My dad wants to preserve the layout of the house. I hope that things that are interesting, historical and warm are here to stay." Gu Zheng-Jun explained with a smile that her persistence stemmed from her father's love for the house.



Taiwu New Village, Daxi Dist.

## Preservation is the Pinnacle for History Showcasing

In addition to tangible cultural assets, Daxi also has precious intangible cultural heritage such as wood craft, festivals and folk culture. Daxi Wood Art Ecomuseum promotes the "Education Promotion and Cultural Education Network Project", with actions such as establishment of Corner Pavilion, integration of mutual learning action partners and corresponding resources as well as restoration of the dormitory complex into operating base, the houses of you and I can be a museum, and the ideal of "Daxi is a museum" can be realized.

In addition, the "Puji Temple Holy Emperor Guan Birthday Festival" also known as "Welcoming of June 24th (Of Luna Calendar)", a crucial festival for residents in Daxi and regarded as the second Chinese New Year in Daxi, is also promoted. Through the Daxi Wood Art Ecomuseum project, the Government connects the various neighborhoods of Daxi with an expectation to allow locales and visitors to appreciate the profound beauty of Daxi by experiencing and appreciating the aesthetics of craftsmanship.



Daxi Wood Art Ecomuseum Craft Base

For Gu Zheng-Jun, to sum up what she did in one sentence, it will be "living life". Yes, these are the daily life of Taoyuan, which enriches Taoyuan and makes the local people proud. The Taoyuan City Government is also committed to preserving and promoting these cultural heritages with an expectation to preserve the spaces through positive interactions and to develop more possibilities in the future.

# 09

# Revitalization

## Learning to Achieve Common Good with Lands

The Organic Cultivation without Pesticides



Daxi Zhongzhuang Adjustment Pool and Peripheral Trails / Credit: Northern Region Water Resources Office, Water Resources Agency, Ministry of Economic Affairs

We're convinced that the cultivation taking common good with the land into consideration will enable the harvest of premium crops in correspondence and a more wonderful operation with sustainability.

Core Targets :  02 Zero Hunger  04 Quality Education  08 Decent Work and Economic Growth  12 Responsible Consumption and Production

Countermeasures :

2.9 | Young Farmer Incubation Plan P.57 ▶ 4.23 | Daxi Wood Art Ecomuseum Education Promotion and Cultural Education Network Project P.76 ▶  
8.25 | Daxi Mutual Learning and Revitalization Partner Management Plan P.98 ▶ 12.11 | Encouraging Youths in Engagement of Local Revitalization P.129

Corresponding Indicators :

28 | Encouraging Youth Innovation and Startup- Number of Social Enterprise Teams Guided



Chinese Leek Field in Zhongzhuang Area, Daxi Dist.

## A Youth Returning to Hometown Seeking to Cultivate the Field with Great Ideals

Driving on the country road under the blue sky with white clouds and caressed by the breeze, we are now surrounded by a vast area of fields planted with various crops swaying gently with the wind, as if they're welcoming the arrival of guests. After a few turns, we have arrived at the Vanilla Ueno Park in Zhongzhuang Area, Daxi Dist.

"Would anyone dare to eat the crops sprayed with pesticides?" Young farmer Lin Zhan-Ting is now one of the directors of the Vanilla Ueno Park and is committed to promoting non-toxic organic agriculture. The three brothers of the Lin family originally started businesses abroad, but were invited by the elder brother and decided to return to hometown to run a business together. By utilizing what they have learned, they built an organic herb garden together to drive local revitalization.



Vanilla Ueno Park Young Farmer／Lin Zhan-Ting

## Improving Farmland Pollution to Create a Healthier Life

With the development of economy and technology, the rural population has gradually moved out, resulting in an aging agricultural population and a lack of employment opportunities in rural areas. Therefore, the Department of Agriculture of the Taoyuan City Government promotes the "Youth Agriculture Engagement Counseling Program" to help aspiring young people engage in agriculture for agricultural transformation, in which course training, farm practice and mentoring for entrepreneurship as well as opportunities for matching with enterprises are provided. At present, a total of 304 young farmers in 9 echelons have completed their training and have won many awards. Lin Zhan-Ting is one of the outstanding young farmers.

At that time, Lin Zhan-Ting intended to adopt organic farming, which requires the cooperation of surrounding farmland to achieve overall non-toxicity. Zhong-zhuang area is one of Taiwan's main production areas of Chinese leek, which are currently grown adopting conventional farming methods. In conventional farming, to reduce costs and increase harvest, chicken manure fertilizers, pesticides and herbicides that will be used in the farming process. This will not only make crops sick, but also breed diseases and pests and pollute the environment, creating a vicious circle. To tackle such issue, through the Youth Repatriation Program of the Soil and Water Conservation Bureau of the Council of Agriculture, Executive Yuan, Lin first communicated to other farmers the benefits of not

spraying pesticides in an experimental manner; at the same time, he also met the "The Lan Family Friendly Farm" who shared the same ideals. Through technical exchanges by the two parties, the organic pesticide-free Chinese Leek planting method without compromise in yield was finally achieved.

In fact, the issue of farmland pollution has always been a topic of concern to all walks of life, as crops will absorb pollutants in the soil, thereby affecting food safety. In addition to pesticides, other pollutants to farmland include those in air, wastewater and heavy metals generated during the industrial development. For the monitored polluted farmland, Department of Environmental Protection of the Taoyuan City Government has established standardized and transparent pollution amelioration procedures under the "Improvement Plan for Farmland Soil Pollution Control Site Appropriate Measures in Taoyuan City" featuring the excavation in conjunction with ploughing to remediate agricultural land pollution. In addition, soil characteristics and irrigation water quality assessment are also carried out through the "National Control and Investigation plans for Farmlands with High Heavy Metal Pollution Potentials". By the end of 2021, Taoyuan City has completed remediation to 2,824 monitored farmlands (area at approx. 337 hectares) and has actively achieved the comprehensive management and prevention of farmland following improvement.



Chinese Leek Flower Grown in Zhongzhuang Area, Daxi Dist.

## The Transformation of Agriculture is the Measure for Enhanced Competitiveness

Seedlings growing, fertilizing, and irrigating, all stages are closely linked. Although Lin Zhan-Ting adopted special European food ingredients as the main economic crops, he also spends a lot of energy to promote the transformation of local agriculture, while studying along with other farmers the methods of leek cultivation to help the transformation of leek cultivation. For example, the leek seedling raising engaging the plantation in the 128-cell straight plug trays used during sowing refrain the farmers from bending over to sow and is the solution to overgrown weeds. In addition, environmentally friendly dry granular fertilizers and natural strains are utilized to achieve the dual effects of organic farming and removal of plant disease. Furthermore, farmers are also encouraged to install systematic irrigation facilities, which can dodge the bullet of drought and allow the provisional effects of fertilizers without causing pollution to water source. Lin Zhan-Ting acts generously without concealing tricks with the sole purpose of common good between the farmers and the land.

Lin Zhan-Ting also makes proper use of various resources provided by the Government, such as applying for a multiple employment subsidy from the Ministry of Labor to ensure the rights to employment of women intending for a second career, who he employs as Chinese Leek pickers; in addition, he also cooperates with the City's Department of Environmental Protection in the realization of zero wastes



resulting from residual Chinese Leek leaves with poorer appearance by turning them into fertilizers, thereby creating a "zero-waste farm". In terms of education promotion, he cooperates with Daxi Wood Art Ecological Museum and surrounding universities in the planning of a series of exciting events, such as "Chinese Leek Island Adventure", whose activities allow the public understand the process of Chinese Leek planting and cooking as well as the history, hydrology, geography and industry of Daxi; a slang exhibition area with Taiwanese slangs related to Chinese Leeks has also been furnished to allows tourists to learn, connecting people, land and culture.

When it comes to expectations for the future, Lin Zhan-Ting said, "actually, I got this from many elders that the most famous specialty in Daxi in the early days was delicious Chinese Leeks, which is known to few nowadays. Therefore, we have been promoting the Chinese Leek industry to recover Daxi's first impression to the mass back to Chinese Leeks."

Taoyuan has many excellent agricultural teams with edges in plantations of rice, vegetables and fruits, grains, flowers, etc. It is anticipated that, by cultivating more excellent farmers, local agriculture can be revitalized, thereby improving farmers' income and facilitating the local features in the management orientation toward sustainability.

# 10

# Fire Protection

## Afraid not! I got you!

The Fire Protection Systems Reform and Safe Home



Our homeland will be made safer and more secure through the upgrading of equipment, sufficient staffing, familiarity with various disaster procedures, and the modification and reform of the government system.

Core Targets :



Quality Education



Sustainable Cities and Communities



Climate Action

Countermeasures :

4.15 | Environmental Education Promotion Plan P.74 · 11.31 | Enhancing Home Safety P.122 ·

13.8 | Mobile Dispatch 119-The New Era of Smart Rescue P.133 · 13.10 | Disaster Prevention Education P.134

Corresponding Indicators :

48 | Cumulative Number of Visitors to Training Center and Disaster Education Center, Taoyuan Fire Department



Squad Leader of 1st Search and Rescue Team, Taoyuan City Fire Department / Zhang Hong-Yi

In the chaotic scene filled with smoke and buzzing sound of alarm, several fire fighters in fire protection suits and masks entered the fire scene quickly and in an orderly manner. From evacuating civilians, deploying hoses, search and rescue to extinguishing the fire, they shoulder the duty of saving people's lives. Thrilling as it may sound, it is the daily life of firefighters.

There are many unpredictable events in life. When an accident occurs, it is often necessary to dispatch fire protection vehicles or ambulances for rescue. Zhang Hong-Yi, Squad Leader of 1st Search and Rescue Team, Taoyuan City Fire Department has 20 years of experience in fire suppression and rescue. Zhang currently serves as a training instructor instructing technology and information to colleagues. Huang Si-Jie, a member of the Sanmin Branch, First Corps, Taoyuan Fire Department known for highest rescue volume in Taoyuan, has also engaged in fire protection for more than 10 years, and is very good at rescue work. The two having dedicated to fire protection have felt the profound changes in Taoyuan in recent years in terms of fire suppression and rescue process, or the reform of equipment and systems.



Gym Furnished at Danan Branch for Fitness Training of Fire Protection Staff

## Various Upgrade Measures for Securing Firefighters

"Taoyuan is a major industrial city with industrial areas and factories in various sizes. There have been several major fires in the past, and the failure to fill up the staff comes frequently. However, after the Xinwu bowling alley fire, Taoyuan's fire protection received significant improvement, including fire rescue management system, training courses, attendance system, etc., I think Taoyuan is on the right track," said Zhang Hong-Yi.

To ensure the movement and safety of every firefighter, Taoyuan has introduced a solid control system to track the personnel status in real time, and has planned a sound brigade of staff to be dispatched to large-scale disaster sites to improve the efficiency of fire and rescue. On weekdays, special fire rescue training, fire site survival training, personal self-rescue and other courses are held to strengthen self-protection capabilities. In the meantime, the rotational shifts featuring one day off after a day of work is effected to ensure that FD personnel get a proper rest, and the adjustment of overtime pay for overwork and the subsidy for duties in the capital are adopted to ensure the welfare of firefighters.

"The good thing about Taoyuan City is that our equipment has a uniform style, brand and specification, so it's easy to tell the difference. This facilitates the inspection before entering the room. Also, it is convenient for me to help my fellow firefighters change equipment in the middle of a rescue." Captain Zhang believes that unified equipment can expedite fire suppression and rescue and ensure the safety of team members. The service vehicles of the Search and Rescue Team are also equipped with complete command equipment and radio waves extender, which can maintain good communication conditions on the rescue site.

"Each of our team members are allocated two complete sets of personal equipment. A new 'video laryngoscope' has also been equipped on the ambulance so that the senior ambulance technician can perform intubation through the monitoring screen. There are also pieces of equipment specialized for intraosseous infusion to allow us perform injection to patients." According to Huang Si-Jie, these devices have greatly improved the survival rate of patients with OHCA (Out-of-Hospital Cardiac Arrest).



Member at Sanmin Branch, First Corps, Taoyuan Fire Department / Huang Si-Jie

## Proper Staffing Allowing Sufficient Rest Time for Staff

"When people get admitted to firefighters, their first choice of service will be their hometown. However, because of the changes in the system and welfare, which provide greater guarantees. Recently, more people chose Taoyuan as the location of service, and most of them are from the neighboring New Taipei City. Every year, there are growths at about 100 people, which greatly complements our manpower and improve the quality of fire rescue." Zhang Hong-Yi expressed his views on the staffing establishment. "In the past, two ambulances were often be dispatched in succession. Although there were equipment, there sometimes are situations which the rescue could not be carried out due to insufficient manpower on site. To this date, after replenishing the manpower and grouping people and vehicles, the establishments come in 3 people in one ambulance, or 5 people in two ambulances, which smoothen the operations." Huang Si-Jie also explained that limited by factors such as environment, space and time, manpower is very important in the resuscitation performed on the ambulance or on the spot.

Every fire protection partner is very important for fire rescue operations. In order to allow every staff to have sufficient rest time, Taoyuan is making efforts to meet the needs of its personnel in recent years according to the conditions of each branch.



## Disaster Prevention Education Enabling Citizens to Keep Close Tabs on Own Safety

In addition to the improvement of fire rescue resources, in order to avoid regrets, Zhang Hong-Yi also attempts to convey correct escape knowledge. "We want to remind people not to rush to escape when a disaster occurs. If there is thick smoke outside, the first thing is to close the door and clearly tell the fire protection personnel where they are. This would rather guarantee a higher survival rate!"

"Disaster prevention" and "fire suppression and rescue" are equally important. Training Center and Disaster Education Center, Taoyuan Fire Department in Bade District, Taoyuan City is the City's first and national indicator of disaster prevention exhibition venue combining technology, entertainment and education. The five major exhibition areas allows the visitors to establish the concept of disaster prevention through games, so that they not only prevent disasters, but also respond calmly when disasters occur.

"Doing this job is happy, and I will feel that I am doing a good deed. I am very grateful that Taoyuan has been improving the fire protection system, and we will work hard to make Taoyuan better and better!" Taoyuan is committed to improving fire protection safety and listening the voice of firefighters. Through system reform, staffing, equipment upgrades and the efforts of all Firefighters, Taoyuan will take fire protection to a higher level!

*Matters of Taoyuan*  
*X*  
*Sustainability Practices*





North Cross-Island Highway Section in Fuxing Dist.

*Pacing in Stability on the path,  
and we will set foot  
on the road to perfection.*

## Goals and Realizations

As we count the marks of our efforts, we keep drafting the blueprint of the future on this road.



# No Poverty

## End poverty in all its forms everywhere.

Taoyuan City provides relevant social support for vulnerable families, the elderly, and persons with disabilities to help the disadvantaged groups maintain their basic living needs, gradually move towards economic independence, and escape poverty.

### Supportive Measures for Vulnerable Families 051

- 1.1 Social Safety Net
- 1.2 Micro-Insurance and Subsidy for the Vulnerable
- 1.3 Plan of Children and Adolescent Future Education and Development Account
- 1.4 Measures of Cable Television Fees Deduction for Economically Challenged Families in Taoyuan

### Supportive Measures for Elderlies 052

- 1.5 Economic Grants for Elderlies
- 1.6 Taoyuan City Citizen Card—Senior Citizen Concessionaire Card

### Supportive Measures for Persons with disabilities 053

- 1.7 Plan of Social Care by Substitute Civilian Serviceman in Taoyuan City
- 1.8 Living Allowances for Persons with disabilities
- 1.9 Active Exemption of Vehicle License Tax for Persons with Disabilities and Corresponding Guidance
- 1.10 Disability Community Resources Center
- 1.11 Taoyuan City Assistive Technology Resources Center

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## Supportive Measures for Vulnerable Families

### 1.1 Social Safety Net

The "family-centered" Taoyuan City, adopts the framework with economic security, personal safety, and mental health, with school counseling, employment services, public security maintenance and other systems incorporated. In addition, through the family services (such as parenting education, childcare, house work, employment, etc.) supported by specialized empowerment groups, caring for vulnerable children and youth and emergency relief households, strengthening the community early warning and implementation of notification mechanism, on-site services, etc., the resilience of vulnerable families and their capability to prevent from difficulties are improved. In 2021, amongst the vulnerable families receiving services, the rate of vulnerable families reported as protection case three months following services conclusion dropped lower than 7.5%, which is in line with the target value set by the Ministry of Health and Welfare. The rate is expected to gradually reduce and meet the rate lower than 5.5% by 2025.

### 1.2 Micro-Insurance and Subsidy for the Vulnerable

#### Micro-Insurance for Vulnerable Household

In 2014, the City set a national-precedent launch of the "Vulnerable Families Micro-Insurance Plan", which includes the micro-insurance containing NT\$ 300,000 benefit aiming at the main financial supporters of vulnerable families, and the premiums are covered in full by the City Government. This is to prevent vulnerable families from economic hardship from the accidents. In 2019, about 38,000 people were insured, and by 2021, the number of the insured increased to 45,000 people.

#### Living Support Grant for Vulnerable Children and Adolescents

For underprivileged families who are unable to support their children due to factors such as the death of both parents, divorce, death, disappearance, sentencing, illegitimate birth, etc., the disadvantaged children and adolescents are provided with a living allowance of NT\$ 2,155 per person per month (with adjustments subject to CPI review every 4 years), benefiting about 80,000 people every year.

## Low-Income Household and Children Living Allowance

The low-income households and economically disadvantaged persons registered in Taoyuan City are provided with living allowances for low-income households and children. A household falling in such category will receive an allowance ranging from NT\$ 6,358 to 12,218 monthly (with adjustments subject to CPI review every 4 years), while a child will receive living allowance at NT\$ 2,802 per person per month. This is to ease a low-income household's economic burden such as living, education, health, etc. About 100,000 people benefit each year.

## Other Services

Disadvantaged students are provided with free school breakfast and lunch (See Goal 2), subsidy for school tuitions and after-school care services (See Goal 4), and guidance measures to promote employment of disadvantaged groups (See Goal 8).

### 1.3 Plan of Children and Adolescent Future Education and Development Account

#### Dedicated Account Opened to Contribute Resources

Children and adolescents' future education and development accounts are set up to, in combination with resources contributed by the private sector, encourage families to save NT\$ 500, NT\$ 1,000 or NT\$ 1,250 per month (up to NT\$ 15,000 per person per year). The Government will make a 1:1 disbursement as the future education and employment development funds before the age of 18 for children from the economically challenged families.

#### Great Account Opening Offers

In order to encourage account opening, the City took the initiative in the extra subsidy by gifting the first-period bonus money and NT\$ 500 gift voucher as an account opening reward, while a gift voucher worth of twice the agreed monthly deposit and payment limit of the current year will be gifted to those who have stably saved for one year. In addition, various services such as financial seminars, individual consultations and supportive groups have been organized. In 2021, the application rate of children's development accounts reached 62.64%, while the deposit rate reached 62.47%.

### 1.4 Measures of Cable Television Fees Deduction for Economically Challenged Families in Taoyuan

Taoyuan City waives basic channel viewing fees and installation fees along with discounts on Internet access for low-income households. As of December 31, 2021, 11,802 low-income households have benefited. Low- and middle-income households are entitled to basic monthly channel viewing fee at half price. As of December 31, 2021, 5,051 low- and middle-income households have benefited from such measures. This is to ensure that the disadvantaged people will not be affected cable TV viewing rights and information access rights by economic restrictions, to maintain the basic human rights of fair access to information.

## Supportive Measures for Elderlies

### 1.5 Economic Grants for Elderlies

#### Monthly Grant for Mid- and Low-Income Elderlies

The City has issued living allowances for the middle- and low-income elderlies, with an amount from NT\$ 3,879 to 7,759 subsidized per month depending on an elderly's economic situation. In 2021, the subsidy totaled at NT\$ 850 Million, benefitting more than 100,000 people.

#### Gift Money for Senior Citizens at Three Major Holidays

To maintain the economic security of the elderly and give full play to the virtues of respecting the elderly, gift money for the three major Chinese festivals (Lunar New Year, Dragon Boat Festival and Mid-Autumn Festival) and Double Ninth Festival are distributed to senior citizens. About 1.15 million people were benefitted in 2021.

#### Other Grants and Services

Meal delivery service (See Goal 2) for the disadvantaged and disabled elderly at home is available. Also, financial supports such as elderly NHI premium subsidies, dental medicine subsidies, and long-term care, health promotion programs (See Goal 3), ageless learning and Longevity Academy (See Goal 4), Employment Promotion Program (See Goal 8), etc. are offered.

### 1.6 Taoyuan City Citizen Card—Senior Citizen Concessionaire Card

To encourage the elderly, persons with disabilities, and permanent residence permit holding foreigners residents over the age of 65 a to visit friends and increase social participation and health promotion, the City Government has released the Taoyuan City Citizen Card-Senior Citizen Concessionaire Card, which includes the "Cash Wallet" available for value top-up at own cost and the Social Welfare "Point Wallet" funded by the City Government, with 800 social welfare points per month (1,000 points for residents registered in the Fuxing District). The current offers include:

#### Cardholders are entitled to concession or fare discount for mass transportation

The discount includes the contracted highway bus under the Taoyuan City Government, the Taoyuan Airport MRT, and the accessible taxi, etc. By the end of 2021, about 9,339,837 trips paid via the Senior Citizen Concessionaire Card were made.

#### Cardholders are entitled to concession or free services at pavilions and centers

Taoyuan Civil Sports Center facilities and venue rental discount and free public welfare hours (08:00-10:00, 14:00-16:00), and Taoyuan City swimming pool ticket subsidies.

## **Cardholders are entitled admission-free offer at attractions**

All scenic spots in Taoyuan City are free of charge with Senior Citizen Concessionaire Card, such as Cihu Mausoleum and park, Xiaowulai Specific Scenic Area, etc. (Visit appointments can be made online).

## **Other Service Measures**

Taoyuan City also provides transportation services such as long-term care services, caring taxi fleets and other elderly-friendly transportations (See Goal 11).

# **Supportive Measures for Persons with Disabilities**

## **1.7 Plan of Social Care by Substitute**

### **Civilian Serviceman in Taoyuan City**

Arrange for the replacement draftee to visit the wounded person's home, accompany the elderly to chat and donate condolences, and assist in tidying up the home environment, so that the injured person in the service can have a clean and warm home environment.

## **1.8 Living Allowances for Persons with Disabilities**

### **Monthly Subsidy for Persons with disabilities**

Those who are registered in Taoyuan City and meet the subsidy qualifications will be given a monthly living allowance from NT\$ 3,772 to NT\$ 8,836 depending on situations of respective cases. In 2021, a total of about NT\$ 1.56 Billion was subsidized, and more than 250,000 people have been benefit.

### **Other Grants and Services**

Persons with disabilities can apply for the Taoyuan City Citizen Card- Senior Citizen Concessionaire Card (See Plan 1.6). In addition, oral medical subsidies are also provided for persons with disabilities in low- and middle-income households (See Goal 3).

## **1.9 Active Exemption of Vehicle License Tax for Persons with Disabilities and Corresponding Guidance**

### **Active Exemption of Vehicle License Tax for Persons with Disabilities**

In view of the fact that most persons with disabilities are socially disadvantaged or do not understand administrative procedures, based on public welfare, Taoyuan City actively exempts the vehicle license tax for vehicles owned by persons with disabilities holding extended or new disability identifications as the most direct social protection and equality measure. About 1,600 individuals receive such active exempted each year.

## **Waiver of Vehicle License Tax for Spouse or Relatives to Persons with Disabilities**

Persons with disabilities who do not have a driver's license and do not own a vehicle, the vehicle license tax for the vehicle owned by their spouse or relatives within the second-degree kinship can be exempted. In addition, active guidance are provided to protect the rights and interests of the disadvantaged. About 5,500 cases have been approved annually.

## **1.10 Disability Community Resources Center**

Disability Community Resources Centers have been set up in four districts in Taoyuan-East, West, South, and North, to provide individualized professional services, including multiple support and career transition, case management, support for double-aging families having member(s) with mental disabilities, and welfare promotion, so that the different life welfare needs of the persons with disabilities can be channeled and therefore allow them to live a stable life with enhanced living quality.

## **1.11 Taoyuan City Assistive Technology Resources Center**

### **Diverse Services at Assistive Technology Resources Center**

To reduce the financial burden of persons with disabilities, and to assist them in the use of assistive devices to overcome physical dysfunction and promote self-care ability, Taoyuan established the Assistive Technology Resources Centers in the South and North districts to for turn-key consultation window and diverse services, including assistive device consultation, evaluation, use training, second-hand assistive device recycling and rework, maintenance, assistive device borrowing and matching, outreach base and circuit services, etc., with services to the center, designated locations and home available. In 2021, 35,909 service assistive devices consultations, 14,332 evaluations (including training), 5,035 second-hand assistive device recycling, 4,995 assistive equipment repairs, and 6,226 assistive device borrowing and matching were conducted.

### **Other Service Measures**

In addition to the above Plans, Meal Delivery Services (See Goal 2), Health Promotion Plans (See Goal 3), School and Transportation Assistance for Students from Preschool to High School (See Goal 4), Career Rehabilitation Services and Employment Promotion Plan (See Goal 8), Friendly Transportation Service (See Goal 11) are also available for persons with disabilities.

# Zero Hunger

## End hunger, achieve food security and improved nutrition and promote sustainable agriculture.

As the saying goes "Food is the paramount necessity of the people", the City attaches great importance to the food and meals care of Underprivileged Groups to help them avoid hunger, and is committed to promoting organic agriculture, safe agriculture, and resilient agricultural productions, In addition attaching great importance to food security and attempting to let people understand the characteristics of domestic culture and value health through agri-food and food safety educations.

### **A Sustainable Food Production System 054**

- 2.1 An-Jia Food and Resources Bank and Premium Food Plan
- 2.2 Meal Delivery Service
- 2.3 Free School Breakfast and Lunch for Disadvantaged Students

### **Valuing Food Safety 055**

- 2.4 Promotion of Organic and Safe Cultivation & Realization of Domestic Production and Sales Plus Sustainable Consumptions
- 2.5 Promoting Safe Agriculture
- 2.6 Enhancing Inspection Capacity
- 2.7 Culinary Hygiene Management and Graded Assessment Plan

### **Enhancing Productivity of Rural Areas 057**

- 2.8 Subsidies for Production, Transportation and Marketing Materials by Agricultural Production and Marketing Groups
- 2.9 Young Farmer Incubation Plan
- 2.10 Farmland Redevelopment Area Main Farm Roads and Water Channels Improvement Plan
- 2.11 Strengthened Farmland Management Plan
- 2.12 Plan of Continued Strengthening for Animal Husbandry Industry Epidemic Prevention
- 2.13 Agriculture Logistics Areas

## **A Sustainable Food Production System**

### **2.1 An-Jia Food and Resources Bank and Premium Food Plan**

By providing basic meal care and food relief to vulnerable families, health, looting, and crime and other social security issues caused by hunger or poverty can be eliminated, thereby strengthening social security.

#### **An-Jia Food and Resources Bank**

Through the An-Jia Food and Resources Bank which systematically manages private donations, and strictly controls the inventory, quality, logistics and warehousing, and social worker distribution rules, the materials delivery to those in need can be guaranteed. In 2021, there will be a total of 22 An-Jia Food and Resources Bank branches were established to serve 23,208 people and 7,684 disadvantaged households.

#### **Premium Food Plan**

Charitable merchants who provide meat, vegetables, dried goods and other ingredients (products) are matched via Taoyuan City Premium Food Plan Network with NGOs in the preparation of meals for disadvantaged groups such as the shut-ins to supplement their nutritional needs, to reduce food waste, and to improve the efficiency of the use of ingredients (products). It is planned to set up a Cherish Food Base at the site of Dainan Forest Park, Bade District. In the future, it will connect with Premium Food resources such as New Yonghe Market and Lixing Market, conducting matching and referral to community care centers and compact satellite service locations to complement the care for elderly and the vulnerable.

#### **Resources Voucher, Charitable Meal Voucher**

Meal vouchers or resources voucher coming in denominations of NT\$ 80, 100 and 500 are issued to the underprivileged families to help them fight hunger. Approx. 20,000 vouchers are distributed each year.

## **2.2 Meal Delivery Service**

To address the nutritional needs of persons with disabilities and disadvantaged sit-ins, the City collaborates with NPOs to provide year-round food delivery services to serve the locales through local units. In addition giving care and companionship. Depending on the long-term care evaluation and individual needs, a maximum of 2 meals (lunch and dinner) are delivered per day. In 2021, a total of 576,138 meals have been served.

## **2.3 Free School Breakfast and Lunch for Disadvantaged Students**

Taoyuan City subsidizes students from economically underprivileged families, such as low-income households, low-middle-income households, impoverished families and ones suffering from sudden changes in family circumstances, with breakfast and lunch on school days, lunch on school activities, and daily lunch during winter and summer vacations. The annual investment is approx. NT\$ 237 Million, which is expected to subsidize about 18,000 economically disadvantaged school kids.

## **Valuing Food Safety**

### **2.4 Promotion of Organic and Safe Cultivation & Realization of Domestic Production and Sales Plus Sustainable Consumptions**

#### **Promotion of Expanded Plantation of Organic Produce**

- (1) Taoyuan City is the largest origin of organic vegetables in Northern Taiwan, which actively promotes safe agriculture and organic cultivation. The production area of organic agriculture has increased year by year, reaching 457 hectares in December 2021.
- (2) In terms of promoting organic cultivation of tea plantations, organic fertilizers are used to supply nutrients needed for the growth of tea, and agricultural wastes are effectively utilized. In addition, operators adopting organic tea farm cultivation may claim for "Organic Tea Leaves" mark. In December 2021, the planting area of organic tea reached 8.5 hectares.

#### **Fulfilling Monitoring from Source to Ensure Safe Supply of Domestic "Three Marks and One Qualification"**

##### **Ingredients**

To ensure that the campus food ingredients suppliers and group catering operators in Taoyuan City can obtain the safe "Three Marks and One Qualification" ingredients, the City actively complies with policies under the Council of Agriculture, Executive Yuan and guides farmers to introduce various

verification and traceability systems. In addition strengthening the source management and corresponding random inspections on school's fresh produce, husbandry and fish products to keep close tab from the origin, thereby ensuring the safety and security of nutritious lunches for students in elementary and junior high schools.

#### **Daily Assuring Ingredients Plan**

With a view to promote the domestic production and sales of organic produce and to allow school kids savor local ingredients with peace of mind, the weekly lunches served in the City's elementary and junior high schools will include 3 meals with locally grown organic vegetables, 1 meal with local TAP vegetables, while all meals are made from non-GMO ingredients. In addition, a joint inspection team is appointed to cooperate with regular and irregular sampling and full-process inspection and control with the purpose to ensure the safety and quality of lunches. In 2021, NT\$ 175 Million was contributed, benefitting more than 210,000 students.

#### **Agri-Food and Food Safety Education Promotions**

- (1) Inclusion of locally produced and sold TAP soybeans into municipal elementary and high school lunches as well as school purchases subsidies to increase schools' willingness of adoption and to promote domestic sales of domestically produced and sold TAP soybeans, thereby maintaining the sustainable operation of the City's grain and soybean industry and activating the fallow farmland and increasing the scale of grain cultivation and the grain self-sufficiency rate.
- (2) Taoyuan City has been committed to promoting leisure agriculture in recent years. Currently, it has approved the establishments of 10 leisure agriculture areas. Leisure farms in the leisure area have wide outdoor fields and a multitude of agricultural experience activities. The agricultural experiences are combined with the curriculum to encourage teachers and students to immerse themselves in Mother Nature and to promote the concept of agri-food education and environment education, In addition revitalizing the development of rural leisure industry.
- (3) Departments of Agriculture and the Education have jointly promoted the "Outdoor Agri-Food Education Activity Plans" to subsidize excursions by preschools and elementary and junior high schools, whose implementation are with great results.

Through the above methods, local farmers and people may understand the importance of biodiversity, and develop safe agriculture in a way that respects the environment and is friendly to the ecology.



## 2.5 Promoting Safe Agriculture

### Promoting Sustainable Production in Agriculture

To handle with extreme climate and to ensure food safety, Taoyuan City promotes production guidance measures at aspects including rice paddy planting, fertilizer materials, tea plantation renewal, and plant disease and pest control investigations. In addition implementing various grant schemes covering agricultural machinery, facility greenhouses, and organic material to encourage farmers to transform into smart and refined agriculture, promoting organic agriculture, safe agriculture, in the meantime advocating and encouraging farmers to shift to plantation of low-water-consuming crops or adopting production environment maintenance measures. The measures are to facilitate crop diversification and ensure sustainable agricultural operations.

### Extending Verification Area for TAP Crops Plantations and Promoting Taoyuan Premium Agriculture Mark

(1) For greater production information transparency and easier access of high-quality farm products for consumers, Taoyuan City encourages farmers to engage in agricultural product certification and adoption of traceability labels and produce farm products with production and sales records to strengthen the competitiveness of farm products, and to improve the identification and quality of farm products. At the same time, additional subsidies for verification expense are provided for those who pass the TAP verification. By the end of December 2021, the verification area for TAP crops plantation reached 1,494 hectares. In addition to establishing Taoyuan's local agricultural product image, farmers are encouraged to be a part of TAP verification, while agricultural product operators receive guidance to join the Taiwan Farm products Production Traceability System through a simple application process.

(2) Farmers are encouraged to produce premium and safe farm products. All farm products produced in Taoyuan City, can be marked with the "Taoyuan Excellent Agriculture" mark on farm products following application and approval to improve the competitiveness of farm products.

### Proceeded Promotion of Produce and Husbandry Products Safety

- (1) Continuous sampling and monitoring of drug residues in pre-market animal husbandry products to ensure consumer hygiene and safety.
- (2) Strengthening the random inspection of pesticide residues in agricultural and grain products and animal drug residues in water, animal husbandry products to prevent unqualified products from entering the market and ensure consumer food safety.
- (3) In order to maintain the safety of citizens in consumption of farm products and promote the development of safe agriculture, the Department of Agriculture complies with regulations promulgated by competent authorities every year to carry out random inspections of pesticide residues in the vegetables, fruits, tea, and organic farm products produced in the City, as well as inspections of commercially available fertilizers and online fertilizer advertisements to uphold the ensure the safety of farm products in the City. In addition, farmers are also encouraged to obtain organic or TAP verification to ensure the safety of farm products in the City.

### Taoyuan Pork Mark

As a way to strengthen the labeling and traceability of pork products, the City adopts a dual certification system. In addition to cooperating with the Council of Agriculture, Executive Yuan in the promotion of the Taiwan Pork mark, the Department of Agriculture adopts main promotion target of Taoyuan Iberico and launches the "Taoyuan Pork Mark" to distinction from other pork varieties in the market and better marketing of Iberico breeding in this City.

### Pesticide Residue Testing Laboratory and Mobile Inspection Vehicles

Taoyuan Fruit and Vegetable Wholesale Market has set up a "Pesticide Residue Laboratory" to conduct random inspections of pesticides on vegetables and fruits every day as a part of implementing the pesticide residue inspection process on vegetables and fruits, with the inspection results uploaded to the cloud. In combination with the traceability website database and linkage to the production history, the food safety data can be of greater transparency, thereby establishing a high-quality and safe production and sales management system. Mobile inspection vehicles are deployed to keep close tabs on food safety by assisting in the mobile inspection of institutions, schools and production areas.

## 2.6 Enhancing Inspection Capacity

A dedicated laboratory for animal drug use conferred with the SNQ national quality mark has been established. Through the plan of inspection volume and energy improvement focusing on controls over food (material) involving high rates of violation, focus, and risks plus inspection incorporating food additives, pesticide residues, food microorganisms, the market circulation of illegal food (material) are expected to be reduced.

## 2.7 Culinary Hygiene Management and Graded Assessment Plan

To enhance the implementation of hygiene self-management by food and beverage operators for hygienic and safe diet for consumers, Taoyuan issues the "Excellent, Good" hygiene self-management graded certification mark to excellent operators through the "Culinary Hygiene Management and Graded Assessment" and the guidance on traceability of ingredients, whose results are announced on the Department of Public Health website to provide citizens with a reference for consumptions. In 2021, 801 companies have passed the audit, of which 541 are excellent and 260 are good.



# Enhancing Productivity of Rural Areas

## 2.8 Subsidies for Production, Transportation and Marketing Materials by Agricultural Production and Marketing Groups

- (1) The Agricultural Production and Marketing Groups in Taoyuan City receive subsidy for their productions and joint distribution and sale of materials for reduce farmers' production costs, thereby improving efficiency and industrial competitiveness and increasing farmers' income through the procurement of common materials.
- (2) Farmers receive assistance in the replacement and upgrade of old equipment and materials for labor saving and enhanced labor efficiency in the establishment of joint transportation and sales, improvement of product packaging system. In addition, product quality control and graded product packaging are taken to stimulate output and economic efficiency of agriculture, thereby attaining the purpose of rural area productivity enhancement.

## 2.9 Young Farmer Incubation Plan

Taiwan's agriculture is facing issues such as the rapid aging of the rural population, the lack of successors on farms, and the shortage of agricultural grass-roots workforce requiring replenishing. To incubate young farmers and tackle the issues involving technology, land, funds and more they may meet when engaging in agricultural activities, since 2015, the City has actively promoted the incubation plan of young farmers, and engaged the industry-government-academia cooperation mechanism to assist young farmers in producing materials needed in agricultural activities, packaging design fees and living allowances, etc. In addition, basic knowledge of agricultural theory and practice are provided to encourage local youths in Taoyuan City to engage themselves in agricultural production, thereby stimulating the motivation and interest of farmers for improved rural productivity and competitiveness, which ultimately improves the livelihood of residents. At present, 304 young farmers across 9 echelons, which include guaranteed seats for indigenous peoples and more than 1/3 of female, have completed their training; at the same time, young farmers in the City are advised to join the Young Farmer Association. As of December 2021, the Young Farmer Association has nearly 800 members. The Young Farmer Association integrates the young farmer groups, develops towards organization and enterprise structures, using the power of groups to assist in the marketing of farm products and create profits.

### Young Farmer Marketing Matching

To assist young farmers in product marketing and break through the channel difficulties, the "Taoyuan City young Farmer Marketing Matching Demonstration Plan" incorporating relevant matchmaking meetings according to the needs of young farmers and the characteristics of farm products is promoted. With matching of channels and customer groups, young farmers have the opportunity to communicate in depth and facilitate trading opportunities, In addition allowing consumers to enjoy premium farm products, ultimately facilitating sustainable agricultural production.

## 2.10 Farmland Redevelopment Area Main Farm Roads and Water Channels Improvement Plan

### Widening of Main Farm Roads

Main farm roads widened from 4 meters to 6 meters and paved with asphalt concrete to facilitate the operation of large agricultural machinery.

### Irrigation Channels and Drainage Improvement

Dredging and repairing irrigation and drainage channels have been implemented to improve the efficiency of water resources utilization, to reduce the occurrence of floods, and to reduce the risk of agricultural production.

From 2016 to 2021, a total of 34,903 meters of main farm roads and 15,893 meters of water channels have been improved.

## 2.11 Strengthened Farmland Management Plan

Farmland is the basis of agricultural production and is a non-renewable resource with regional and immovable nature. To comply with the agricultural development regulations without affecting the agricultural production environment and the legislative intent of rural development, the following businesses are implemented:

- (1) Relaxing the ownership of farmland and implementing the agricultural use of farmland is the established farmland policy goal to maintain the agricultural production environment, enhance the multi-functional use of farmland, and promote the plan of farmland utilization and management.
- (2) Actively cooperating in the handling of relevant agricultural land management matters, such as the identification of land for agricultural use, the application and approval of agricultural land use permission, the review of agricultural land change to non-agricultural use, the inspection of agricultural land violations, statutory random inspections, and other designated tasks with an expectation to achieve sustainable utilization of agricultural land resources.
- (3) Proceeded acceptance of applications from farmers intending for the construction of farmhouses and the review of the agricultural management plan, plus strengthened follow-up audit on the farmhouse use following issuance of use license and use of corresponding agricultural lands.



## 2.12 Plan of Continued Strengthening for Animal Husbandry Industry

### Epidemic Prevention

With heightened attention to the hygiene of animal husbandry products and prevent infectious diseases of animal husbandry, the following operations are carried out:

#### Organizing Workshops and Reinforced Disinfection Operations

Workshops on biosafety promotion of livestock and poultry farms are organized. Furthermore, disinfection operations for pastures, slaughterhouses and tally yards, etc., are reinforced to remove potential pathogens.

#### Reinforced Examinations

Reinforced examinations on animal husbandry farms to ensure the implementation of self-protection of biosafety and to grasp the reasons for husbandry death anomalies.

#### Monitoring of Various Significant Infectious Diseases

Development of relevant domestic and foreign epidemics are kept abreast at any time; In addition, serological and virological monitoring of important infectious diseases in domestic livestock and poultry farms plus immediate preventive measures are conducted to prevent the spread of the epidemic.

## 2.13 Agriculture Logistics Areas

The freezing and refrigeration supply chain (aka. Cold chain) may ensure the quality of produce and prevent produce damages and loss through transportation, thereby increasing agricultural output and farmers' income.

### Establishment of Taoyuan Agriculture Logistics Area

To tackle the issue of cold chain disconnection in the export of vegetables, fruits, flowers and other refrigerated and frozen farm products, Council of Agriculture, Executive Yuan has planned establishment of "Taoyuan Agricultural Logistics Park" in Dayuan District of Taoyuan City. With an area of about 13.12 hectares, the Park introduces cold chain warehousing and logistics industry, providing temporary storage and cold chain distribution for ornamental aquarium, flowers, fruits and vegetables, plant factories, seeds and seedlings, frozen fish, meat and agricultural value-added industries, In addition engaging in international transshipment, packaging, reorganization, tally, processing as well as export customs clearance services such as tax declaration, quarantine, inspection, customs clearance, etc. to build a distribution amplifier for the cold chain distribution of farm products and Taiwan produce export.

### Taoyuan Meat Market Modern Slaughter House

#### (Cold Chain System) Rebuilding Plan

(1) The meat market in Taoyuan City has been operating for more than 40 years, and the farm and equipment are outdated and cannot effectively cooperate with government policies to promote the development of the industry. After the swine industry was relieved from the foot-and-mouth disease, Taiwan's premium meat products will shift focus on internationalization. Perfecting the meat cold chain logistics system and compliance with international slaughterhouse standards have become the primary goal of the meat market.

(2) This plan will create a new-era meat market area from the aspects of production, ecology, and life. In addition to the new production system that meets HACCP and TGAP specifications, this Plan will introduce various ecological energy-saving systems including solar photovoltaic panels, rainwater recycling systems, etc. Following the completion of overall plant, green belts will be created in its parameter to separate the area from the residential area, and the entire park will be further furnished with landscapes with an expectation to build a modern demonstration slaughterhouse in Northern Taiwan.

# Good Health and Well-Being

## Ensure healthy lives and promote well-being for all at all ages

Taoyuan City considers itself to be the health guardian of households and citizens from birth to death, builds a comprehensive and friendly medical care service system, pays attention to the universality and fairness of medical care, advocates sports ethos and health concepts, and actively prevents diseases, drug abuse and accidents to ensure the physical and mental health of citizens of all ages.

### Disease Prevention 059

- 3.1 Health Checkup for Children
- 3.2 Infectious Disease Prevention Plan
- 3.3 Elderly Pneumococcal Vaccine Injection Plan
- 3.4 Flu Vaccine Injection Plan
- 3.5 Children Regular Vaccine Injection Plan
- 3.6 Vaccine Delivery Plan
- 3.7 Cancer Prevention Screening Plan
- 3.8 Suicide Prevention and Mental Health Promotion

### Narcotics Prevention 061

- 3.9 Healthy and Friendly Community (Group) Promotion Plan
- 3.10 New-Generation Anti-Narcotics Strategies on Campus
- 3.11 Plans of Work for Excelling Narcotics Seizure Effectiveness

### Reducing Traffic Accidents 063

- 3.12 Improvement of Traffic Safety at Accident-Prone Locations
- 3.13 Plan for Reinforced Enforcement on Major Traffic Violations
- 3.14 Plan for Strengthening Operations Support by Volunteer Traffic Police
- 3.15 Technology Enforcement
- 3.16 Traffic Safety Advocacy

### Reproductive Healthcare 064

- 3.17 Taoyuan City Healthy and Happy Family Subsidy Plan
- 3.18 Maternity Pension and Childcare Allowance

### Universal Healthcare 064

- 3.19 NHI Premium Subsidy
- 3.20 Taoyuan Citizen Medical Butler
- 3.21 Pharmacy Locations Convenience Network

### 3.22 Oral Medicine Subsidy

- 3.23 Long-Term Care 2.0 Plan
- 3.24 Medical Services in Remote Areas

### Diversified Facilities for health Promotion 067

- 3.25 Creating a Premium Sports Environment
- 3.26 New Construction, Addition, and Renovation of Citizen Activity Centers
- 3.27 One Meeting Houses for Indigenous Peoples per District
- 3.28 Providing Youths with Diversified Learning Experiences

### Encouraging Sports for All 067

- 3.29 Building an Image of Major Sports City
- 3.30 Building a Sports Atmosphere amongst Citizens
- 3.31 Promoting Sports Equality
- 3.32 Enhancing Strengths in Competitive Sports

## Disease Prevention

### 3.1 Health Checkup for Children

#### Child Integrative Health Service Plan

Children are the masters of the future of the country. Citizens of Taoyuan take their kids aged 0 to 6 to medical institutions for 7 preventive health care services. In addition, the City also promotes the Child Integrated Health Service Plan, which Provides 12 health checks for children aged 4 to 6 by professional medical staffs from various disciplines. Preschool children may opt for health examinations on holidays and evenings at the community. About 40,000 children receive such examination every year, and the screening rate exceeds 90%. This is to diagnose abnormalities on children, which allows their parents to adopt early medical intervention so as to reduce the burden on families and social costs, protecting the future of children. In 2021, there were 125,164 children aged 0 to 6 in Taoyuan City undergoing health checks (screening rate at 82.52%), which is higher than the Taiwan-wide average of 79.4%.

#### Child Early Intervention Service

To relieve the pressure of family care for children with developmental retardations, various early care services are provided. In addition, the City trains professional social workers or education and health personnel, and let the public understand the importance of early intervention through child development counseling, early childhood development screening, and multiple advocacy channels, thereby achieving the purpose of early diagnosis and early treatment. In addition relevant resources are integrated, with parenting lectures and parent growth groups provided to improve parents' ability to handle their child to reduce care pressure and establish a friendly and inclusive environment. In 2021, the number of children served reached 115,291.

### 3.2 Infectious Disease Prevention Plan

Taoyuan City actively promotes the prevention and control of infectious diseases, eliminates the chance of occurrence of various related infectious diseases such as tuberculosis and AIDS, and has achieved remarkable results in disease prevention and control.

- From 2006 to 2021, the prevention and control of tuberculosis was promoted, and the incidence of tuberculosis decreased by 59.6% cumulatively.
- The number of new HIV positive cases in 2021 dropped by 10.29% compared to 2020.
- Streptococcus pneumoniae vaccination has been promoted since 2013, and the rate of confirmed Invasive Pneumococcal Disease (IPD) cases has dropped by 60% from 2014 to 2021.
- In 2021, the Breteau Index of vector-borne mosquitoes in communities below level 2 reached 84%, indicating effective prevention of dengue fever.
- Since 2014, the City's free cervical cancer vaccination policy has been promoted. According to statistics, by 2021, the cumulative vaccination rate of the first dose amongst 7th to 9th graders reached 82%.
- To improve the detection rate of cervical lesions in the City, the "HPV DNA Test" subsidy plan has been implemented since 2019. One human papilloma virus (HPV) DNA test with partial costs at NT\$ 900 subsidized by the Government will be available for cases with mild abnormality as indicated in the Pap smear test. In 2021, 574 cases of HPV DNA were subsidized, and 311 cases (54.2% overall) were found to be HPV positive. Furthermore, healthcare advocacy indicating the visit to hospital for further HPV examination and treatment has been made to the mass.
- In response to COVID-19, an epidemic prevention meeting was held. Cross-departmental mobilization was carried out, while rapid epidemic adjustments were made for accurate and complete surveys. In addition, the medical resources receive an inventory and preparation for immediate dispatch and complementing of epidemic prevention resources. The City has also received large-scale disinfection according to the level of risk.
- Regarding the administration of the COVID-19 vaccine, statistics show that by the end of 2021, a total of 1,943,280 people (coverage rate at 85.51%) have completed their first dose vaccine, and 1,623,992 people (coverage rate at 71.46%) have received their second dose of vaccine. Among them, elderly over 65 years old have the highest vaccination rate in Six Special Municipalities (87.3% for the first dose and 83.1% for the second dose for 65 to 74 years old; 79% for the first dose and 71.9% for the second dose for those over 75 years old). In addition, to rapidly increase the vaccination rate of the public, in addition to providing vaccination services in 217 contracted institutions, 58 locations have also been selected to furnish vaccination stations in 2021 for the public to get vaccinated following online system reservation, and additional special vaccinations were offered depending on the vaccine supply.

### 3.3 Elderly Pneumococcal Vaccine Injection Plan

Among the top ten causes of death in Taiwan in 2020, pneumonia ranked third, and the most important pathogen causing community pneumonia is streptococcus pneumoniae. For maintaining the health of elders, Taoyuan City promotes

vaccination of streptococcus pneumoniae vaccine for the elderly, which covers indigenous elders over 55 years old and generic elders over 65 years old. The pneumonia death rate has dropped from 39.2 persons per 100,000 population in 2016 to 35.4 persons per 100,000 population in 2020. The pneumonia death rate is also the lowest in Six Special Municipalities. Statistics indicate that as of December 31, 2021, 7,368 people aged 65 were vaccinated with PCV13 (coverage rate 27.01%), and 113,059 people aged over 66 were vaccinated with PPV23 (coverage rate 40.65%).



### 3.4 Flu Vaccine Injection Plan

Aiming for maintaining public health and avoid serious complications or death due to influenza, the City has promoted the influenza vaccination plan for the elderly, and has expanded the implementation subjects year by year. By 2021, The following subjects have been covered:

- Children aging from 6 months to preschool-age
- Elementary school to general (vocational) high school students
- Adults over 50
- Groups at high risk of underlying disease
- Pregnant women and parents to infants under 6 months
- Preschool caregivers and professional caregivers
- Institutional care recipients and their staff
- Epidemic prevention personnel of medical and health units
- Livestock and animal epidemic prevention staff

In 2021, 550,648 doses have been vaccinated, accounting for 24.3% of the City's population coverage.

### 3.5 Children Regular Vaccine Injection Plan

The City provide children with publicly funded vaccines, including BCG vaccine, hepatitis B vaccine, etc. Through various routine vaccinations, the incidence of infectious diseases as well as spread of diseases can be reduced to ensure children's health. In 2021, 21,019 children under the age of 3 have been vaccinated (98.92% coverage rate), and 23,038 school kids (96.77% coverage rate) were vaccinated with the booster before admission.

### 3.6 Vaccine Delivery Plan

#### Point-to-Point Vaccine Delivery Service

Vaccine delivery and storage must be strictly regulated between 2 and 8°C throughout the process to ensure vaccine quality and vaccination efficiency, and to effectively protect citizens' health and vaccination rights. Taoyuan City implements a point-to-point vaccine home delivery service, which is delivered by professional pharmaceutical logistics cold chain. Vaccines are sent to health centers and contract medical institutions in various districts of the City. During the delivery process, a variety of equipment, such as continuous temperature recorders, temperature monitoring films and freezing monitoring films, are used for temperature monitoring to ensure the quality of vaccine delivery.

#### Smart Vaccine Storage Management System

An intelligent vaccine storage management system has been established for contracted medical institutions in Taoyuan City to apply for the required types of vaccines at designated quantity through the online platform, along online inquiry on the application process and delivery notice. Currently, 318

health clinics and contract institutions have been a part of this system. In 2021, 6,764 home delivery trips were made, an increase of 19.42% compared with 5,664 trips in 2020.

### 3.7 Cancer Prevention Screening Plan

Due to changes in lifestyle and eating habits, carcinoma (cancers) have been ranked No. 1 among the top 10 leading causes of death in Taiwan since 1982, of which colorectal cancer and breast cancer are the cancers with the highest incidence rates for men and women in the City respectively. Taoyuan City collaborates with medical institutions in the community screening services for four cancers (cervical cancer, breast cancer, colorectal cancer and oral cancer) to increase the willingness of the public to accept screening, which allow them to effectively improve the cancer cure rate through early detection and early treatment. Screening to 304,779 people were made in 2021, of which 12,973 were positive cases, and 10,052 positive cases (78% positive follow-up rate) were followed up. Affected by the epidemic and corresponding policy of reduced gathering, the Plan shifted to an alternative by adopting setup of small community screening stations accepting appointments as way to divert crown. Citizens will receive the notice to complete the screening test at the nearest hospital, with regular tracking and screening of positive cases as a part of completing the abnormality tracking. The City has to this date offered mobile cancer screening services in 309 villages (61% coverage rate).

### 3.8 Suicide Prevention and Mental Health Promotion

#### Suicide Prevention Gatekeepers

Taoyuan City integrates and strengthens mental health infrastructure, strengthening prevention and care services tending after individuals with tendency of suicide and other mental illness. For groups at high risk of suicide aged 15 to 24 yo, suicide prevention gatekeepers are appointed to conduct caring visits and professional counseling. In addition, the City explores the changing trend of suicide reporting situation and planning correspondences in accordance with the Suicide Prevention Notification System under the Ministry of Health and Welfare, and continues to conduct education training for teachers and suicide prevention gatekeepers with a view to help young people develop spiritually and have the courage to face various challenges in life.

#### 1995 Hotline and Counseling

Individuals with emotional distress may dial the "1995 (Save Me)" 24-hour hotline for free psychological counseling interviews and gain psychological support.

#### Screening of Population at High-Risks and Referral

For the sit-ins over 65 years old who have chronic diseases, they are provided with mental health scale screening for population at high-risks and referral services to prevent depression. In addition, mental health institutions to organize alcohol addiction treatment and community referrals to ensure public health mental health.

#### Mental Health Promotion and Support under COVID-19

During the COVID-19 epidemic, in order to accompany the public in the face of the unknown, the 3069 epidemic prevention stress relief line and free video psychological counseling

service have been established. Professional social workers, psychologists and psychological related professionals are in place to comfort the public's worries or anxiety online. In addition, Taoyuan City Government has also taken consolations, emotional support, caring companionship and resource referrals for infected citizens. As of 2021, 3069 epidemic prevention stress relief hotline service has received 1,230 calls, 1,050 free video psychological counseling services, and 794 consolation and care services for infected persons people. We face the challenges of the epidemic together with the citizen and provide assistance wherever necessary.

In the face of the severe challenges of the epidemic, Taoyuan as the Municipality of National Gateway in Taiwan notwithstanding epidemic provides psychological support services for medical personnel 6 times a year (at 26 cooperative psychotherapy centers). By 2021, the service served and accompanied 235 medical staff through the challenge of this epidemic.

## Narcotics Prevention

### 3.9 Heathy and Friendly Community (Group) Promotion Plan

Narcotics not only affect personal health, but also may cause social problems. Narcotics preventions shall be taken comprehensively by individuals, families, and communities.

#### Healthy and Friendly Community Promotion Plan

The City encourages and assists communities (groups) in the spontaneous building of a healthy and friendly living environment with care yet without smoke, drugs or hazards.

#### Smoke-Free Community

Since 2013, the City has been recruiting the communities to participate in the Plan to promote the smoke-free environment, encouraging smokers not to smoke in their homes. The plan is conducted in conjunction with health education advocacy, community self-initiated smoke prevention inspections, and posting of no-smoking signs at the entrance of the community. In 2021, 18 locations in the City has become the smoke-free community, and the cumulative 157 locations will proceed to promotion of smoke-free community and make efforts in building the smoke-free healthy environment of the City.

#### Love-Filled Communities Meet No Obstacles in Narcotics Prevention

In order to spread the anti-narcotics awareness to every part of the City, to increase the public's awareness of narcotics prevention and mental health, and to encourage the community (group) to create a narcotics-free and friendly living environment, anti-narcotics and mental health information are intensively disseminated through conducting advocacy activities. As of December 2021, there were a total of 2,432 participants have engaged in this comprehensive prevention expanded from individuals, families, to the entire society.

#### Pharmacy Locations Convenience Network

Taoyuan City also promotes the "Pharmacy Locations Convenience Network" and adds and maintains 333

age-friendly pharmacies. Pharmacists are appointed to enter campuses, communities and vaccine injection stations in compliance with epidemic prevention regulations and medication safety needs of the mass. In 2021 210 medicine safety advocacy events were held to improve the drug safety knowledge of 7,800 school kids and community residents. In addition, after pharmacists provided 528 community-based pharmaceutical care services, the citizen's medicine use compliance rate increased from 13.2% to 79.2%.

#### **Taoyuan City Dementia Prevention and Care Action Plan**

In order to create a friendly society with preventive and delay measures for dementia, and to ensure the quality of life of people with dementia and their caregivers, the City has collaborated with public and private sectors to organize community advocacy for dementia prevention and related dementia care, promoting dementia-related services. In addition, public health centers in 13 districts of the City organize caregiver support groups and cognitive promotion activities for the elderly, which include courses related to the delay of dementia and caregiver support, etc. In addition, various communities and ethnic groups are linked through promotion meetings and family sharing seminars for diverse dementia friendliness advocacy seminars or events to break people's myths about dementia, promote long-term connection of support networks, enhance people's or ethnic groups' awareness of dementia and friendly attitudes, and form a dementia-friendly community. By 2021, dementia-friendly advocacy were joined by 98,686 participants.

### **3.10 New-Generation Anti-Narcotics Strategies on Campus**

#### **Four Major Anti-Narcotics Strategies**

Taoyuan City has formulated a new-generation anti-narcotics strategy centered on "people", through cross-border cooperation between individuals, enterprises, schools, and the government, anti-narcotics advocacy activities emphasizing the four major strategies "seizure", "inspection", "rehabilitation" and "awareness" are carried out with an expectation to turn schools in Taoyuan City into a non-toxic, healthy, fresh and friendly campuses.

- **Seizure:**

to investigate domestic and foreign narcotics supply

- **Inspection:**

Monitoring narcotics abuse and control over pioneering narcotics materials;

- **Rehabilitation:**

Reducing the number of first-time narcotics users

- **Awareness:**

Reducing the number of individuals involving recurring narcotics use.

#### **Diverse Anti-Narcotics Advocacy Events**

- The high schools and primary schools in Taoyuan City promote anti-narcotics advocacy and education through lectures, movies, children's dramas, dance dramas, glove puppetry shows, CTBC Foundation anti-narcotics education exhibition, mountain exploration, career exploration, and skills learning experience. As of 2021, a total of 875 events joined by approx. 150,000 participants were held.

- By 2021, there were a total of 42 anti-narcotics advocacy events aimed at parents and the general public, with about 15,000 people participating.
- By 2021, parents and anti-narcotics gatekeepers have engaged in in-class anti-narcotics advocacy and expanded participation in Chunhui Community Service volunteers. As of 2021, there were 5,049 events joined by 166,286 participants.

#### **Campus Anti-Narcotics Advocacy**

To facilitate narcotics-free campuses and to encourage young people to enjoy their lives on campus via positive club activities, the City has adopted collaborations in the school club conferences across the City's high schools and vocational high schools, universities, and colleges, and has invited humorous and interesting professional anti-narcotics lecturers for presentation. This activity promotes the harmfulness of narcotics and the necessity to avoid exposure to narcotics to create a narcotics-free campus. As of 2021, a total of 36 campus anti-narcotics advocacy events were held, including 21 at high school vocational schools and 15 at colleges and universities, with a total of 10,110 participants.

### **3.11 Plans of Work for Excelling Narcotics Seizure Effectiveness**

#### **Reinforcing Narcotics-Involved Seizure and Promotions**

For resolve the anti-narcotics determination, Taoyuan City proactively reinforces adolescent narcotics use seizure and prevention works:

##### **(1) Irregular Inspections**

Raid inspection planned for high-risk premises, plus joint inspection and punishment implemented in conjunction with third-party police agencies to deter operators.

##### **(2) Anti-Narcotics Friendly Reporting Network**

The City establishes an "Anti-Narcotics Friendly Reporting Network" for continued inspection engaging civil operations support groups, schools at all levels, community committees, security personnel, etc.; In addition, a two-way anti-narcotics mechanism involving the participation of the public acts as the powerhouse of arresting community-based dealers for ousting narcotics from communities.

#### **Caring for Families with Members of Narcotics Security Concerns**

For vulnerable families with children under the age of 12, an active care mechanism is established to track the population with narcotics security concerns for early discovery and reporting to social affairs authority as a means to jointly prevent the occurrence of child and child protection cases. Police officers of appropriate jurisdiction are delegated to perform visits to the household of individuals of narcotics security concerns. If it is found during the interview that the child may not be properly cared for, the vulnerable family will be reported to allow social affairs authority to conduct follow-up evaluation or contact the education unit for follow-up assistance and care. 6,146 narcotics offenses were cracked in 2021.

# Reducing Traffic Accidents

## 3.12 Improvement of Traffic Safety at Accident-Prone Locations

### Convening Meetings for Review on Traffic Safety

For road order and road safety, the authorities have formed five groups respectively attending to law enforcement, engineering, supervision, education, and advocacy. Regular meetings are held to review relevant strategies, clarify the cause of accidents and discuss improvement plans based on the number and form of incidents. In the meantime, vehicles are subject to safety checks.

### Analyzing and Improving Traffic at Accident-Prone Locations

Every year, the authorities review and select accident-prone locations in the jurisdiction, analyze the causes of accidents through data such as accident collision maps, and make improvements and track the results regularly. In 2021, 20 intersections have been improved.

## 3.13 Plan for Reinforced Enforcement on Major Traffic Violations

### Reinforced Enforcement on Violations

In order to maintain traffic safety, 8 key violations including automobile and motorcycle running a red light, serious speeding, driving under the influence of alcohol, driving in the wrong direction, turning in violation of regulations, motorcycles not making hook turns in accordance with regulations, motorcycle driving in inner (no-motorcycle) lanes, weaving or malicious tailgating are under reinforced enforcement. In addition, enforcements on DUI are taken at least 6 times a month.

### Conducting Professional Training on Traffic Enforcement

Through various professional traffic regulations enforcement trainings, the police's traffic regulations enforcement ability and skills have been strengthened, and a safer and more friendly traffic environment can be created.

## 3.14 Plan for Strengthening Operations Support by Volunteer Traffic Police

The traffic population and the number of vehicles in Taoyuan City continued to increase; In addition, the airport MRT extension and sewage projects are successively carried out. In order to strengthen the engagement of civilian power to assist the police in maintaining road traffic order, Taoyuan City has recruited traffic volunteers to establish the Traffic Volunteer Police Corps of the Taoyuan Citizen Defense Corps ("Volunteer Traffic Police Corps" in short). As of June 30, 2022, there are 750 volunteer traffic police officers. Through citizen cooperation, the City may jointly promote traffic safety, assist in traffic guidance, and reduce traffic incidents.

## 3.15 Technology Enforcement

In order to effectively improve the violations, Taoyuan has expanded the scope of technology enforcement on six violations including illegal parking at train stations, illegal parking at bus stations, speeding under average speed enforcement, failure to clear intersections, failure to drive in lanes, and trucks driving at prohibited sections, and has

made applications on an annual basis the grants for installation and establishments. By June 2022, 23 scientific and technological law enforcement fields have been completed, with remarkable enforcement results gained. At Linkou Interchange 41A, the technology law enforcement for seizure of failure to clear the entrance, and the violation has dropped by more than 90%; regarding the technology enforcement on trucks driving at prohibited sections, the rate of violations resulting from driving in prohibited sections without a pass has dropped by more than 80%. In addition, the Department of Transportation cooperates with the Taoyuan Police Department to integrate scientific and technological law enforcement violation information into the Police Department's violation reporting system for cross-agency and cross-platform data exchange to jointly promote system intelligence, In addition saving labor and enhancing efficiency.

## 3.16 Traffic Safety Advocacy

### Advocacy thru Mass Media

Mass media channels (including cable TV, the Internet, fan pages, LINE messages and notifications, CMS, outdoor media, car body advertising, etc.) are engaged to promote traffic safety. In addition, promotional materials to promote "safe driving" and "defensive driving" concepts are produced.

### Advocacy Speeches

Traffic safety advocacy speeches to campuses and enterprises in combination with police radio stations are made to expand advocacy coverage and improve advocacy effectiveness. Furthermore, traffic incident advocacy videos or animations containing traffic incident footages in Taoyuan City are produced to strengthen people's concept of local accident prevention control.

### Hosting of Themed Advocacy Events

Themed road safety advocacy events have been planned. In 2021, in order to strengthen the concept of road safety among young people, the authority promotes the "Taoyuan City Motorcycle Safety Defensive Driving Plan" inclusive of advocacy among senior students in high school students and freshmen in colleges and universities within the jurisdiction conveying the concepts defensive driving and learn road risks through incident footages. Taoyuan and Zhongli Stations of Hsinchu Motor Vehicles Office in the meantime visit schools at all levels to conduct campus advocacy activities for avoiding traffic collisions resulting from blind spots and difference of radius between inner wheels of large vehicles, and teach school kids traffic safety knowledge through practical experience to students' impressions of traffic safety.

In 2021, aiming at the safety of elderly drivers and the safety of school kids, the authority organized the real-life performances on traffic collisions resulting from blind spots and difference of radius between inner wheels of large vehicles. With the focus on "staying away from large vehicles", large vehicles have been engaged in real-life performances to show blind spots and difference of radius between inner wheels of large vehicles, allowing participants to learn the danger from staying in the zone of blind spots. In addition, the Little Police Experience Camp is held to root traffic safety concepts into the little participants.

### Advocacy on DUI Penal Provisions to Specific Groups

As the incidents involving drinking and riding an electric bicycle has multiplied by 1.1 times in 2021 compared with those in 2019, Taoyuan City Government continues to strengthen its promotion of zero tolerance for DUI and chauffeur after drinking through various channels. In addition, as there are a great population of electric bicycle riders amongst the foreign migrant workers in Taoyuan City, the City promotes the situation and penalties for riding an electric bicycle after drinking targeting manufacturers, agencies, interpreters, and Migrant Workers.

In 2021, the exposure rate of DUI incidents nationwide has increased, and most of the subjects are re-offenders. Hence, the authority has integrated the resources of Taoyuan and Zhongli Stations of Hsinchu Motor Vehicles Office of the Directorate General of Highways, MoTC to perform strengthened advocacy on regulations, penal provisions, types of incidents to populations who are "DUI recidivists", "taking driver's license re-examination due to DUI offense", and "serving a sentence (imprisonment) for DUI". About 20 special speeches are held annually; in addition, the authority continues to conduct advocacy for foreign migrant workers and makes posters for posting at companies and factories premises for magnified advocacy.

## Reproductive Healthcare

### 3.17 Taoyuan City Healthy and Happy Family Subsidy Plan

#### Pre-pregnancy and Pregnancy Subsidy and Mother-Infant Friendliness

Taoyuan City has proposed a four-in-one (pre-pregnancy, pregnancy, infertility, traditional Chinese medicine) multi-dimensional healthy and happy family subsidy plan for women of child-bearing age since its inception in 2015 as a means to enhance willingness for women of child-bearing age and her spouse to give birth to children, which includes subsidies for health examination for post-marriage and pre-pregnancy male and female, amniocentesis during pregnancy, screening of maternal blood for Down syndrome and subsidy for TCM pregnancy and fetal raising. 8,154 people were subsidized in 2021; the authority continues to promote mother-infant friendliness, which 10 mother-infant friendly hospitals and 37 postpartum care institutions have been engaged in 2021 to create a friendly environment for breastfeeding. With the promotion and subsidies of Taoyuan City, the average utilization rate of prenatal examinations for pregnant women in Taoyuan City is 96.1%, which is greater than that of 94.3% in Taiwan, and the crude birth rate in Taoyuan City in 2021 is 8.9‰, far greater than the rate in Taiwan at 6.55‰. In addition, in response to the central government's expansion of subsidies for infertility treatment in July 2021, the City's 2022 women's pre-pregnancy health examination under the City's Healthy and Happy Family Subsidy Plan have been added with the glycated hemoglobin test, making the total items for examination from 8 to 9. The age limit for the first trimester Down's syndrome screening has been cancelled, and the subsidy for the second-trimester Down's syndrome screening subsidy is included; however, the Down's syndrome screening is only subsidized for one trimester of the citizen's choice.

### 3.18 Maternity Pension and Childcare Allowance

#### Maternity Pension

To encourage birth by women of child-bearing age, maternity pension plan has been effected since 2015, with pension per birth highest in Taiwan. Citizens meeting the requirements:

- Birth of single child is granted NT\$ 30,000 per child.
- Birth of twins is granted NT\$ 35,000 per child.
- Birth of triplets or more is granted NT\$ 45,000 per child.

#### Childcare Allowance

In order to protect the rights and interests of children's healthy growth and ease the financial burden of family childcare, childcare allowance plan was launched in 2015. Parents and children who have registered and lived in Taoyuan City for more than 1 year will receive a monthly subsidy of NT\$ 3,000 per child until the child reaches the age of 3, which can be claimed altogether with other allowances of the identical nature. From August 2018, in compliance with the new central childcare system and in consideration of the consistency of national welfare and the principle of trust protection, Taoyuan City has amended its childcare allowance regulations. Where an individual is eligible for both the central and Taoyuan City childcare allowances, in addition to the central childcare allowance of NT\$ 2,500 (low- and middle-income households, low-income households, and child born after the 3rd child calculated otherwise), Taoyuan City grants additional NT\$ 500 per child per month; for individuals only eligible for Taoyuan City childcare allowance, an allowance at NT\$ 3,000 is granted per child per month, which terminated on July 31, 2021.

To encourage people to have children, from August 2021, the central government has increased the amount of childcare allowances from NT\$ 2,500 to NT\$ 3,500. The rule concerning prohibition simultaneous receipt of childcare leave allowances has been lifted to support family childcare.

## Universal Healthcare

### 3.19 NHI Premium Subsidy

Taiwan promotes national health insurance, and those eligible for insurance are entitled to high-quality medical care services regardless of nationality. Taoyuan City also promotes a number of subsidy programs in consideration of the needs of Underprivileged Groups.

#### Subsidy on NHI Premium in Arrears for Underprivileged Groups

For low-income households, low-middle-income households and other economically disadvantaged groups who are unable to pay health insurance premiums or are in arrears of health insurance premiums, the authority assistance in paying off such arrears. The annual subsidy cap per person is NT\$ 6,000, and as of 2021, 1,647 people have benefited from such subsidy which intends to ease medical burden of Underprivileged Groups and the to promote their health rights.

#### NHI Premium Subsidy for Elderlies

The elderly over 65 years old meeting the relevant qualifications are subsidized the deductible amount of NHI premium up to NT\$ 826 per person per month, which is directly transacted by Taoyuan City authorities without requiring



applications by citizen. As of 2021, a total of 2,737,731 people have been benefitted from the subsidy aiming to ease the burden of medical treatment for the elderly.

### 3.20 Taoyuan Citizen Medical Butler

To integrate medical resources, allowing the citizens to obtain high-quality and convenient medical services, Taoyuan City promotes the Citizen Medical Butler Plan:

#### Community Health Creation

For areas with a large number of elderly or vulnerable populations, the authority actively introduces medical services, sets up resident service centers, links clinics and long-term care institutions with medical institutions, and provide health measurement and consultation, health promotion and health education, home visits for complex cases, referral of long-term care resources and other services through community case management stations.

#### Systematic Services to Respective Cases

A localized and complete care network is built to proactively provide assistance for chronic disease and disability cases. In addition, systematic medical and nursing care services that meet individual health needs is planned for overall assessment based on family concepts to reduce the burden on family caregivers. Through early screening and timely referral for treatment, the patient's chronic diseases and disability are put under control. Taoyuan City has a total of 12 service locations, providing integrated medical and nursing care services. In 2021, 928 new cases were accepted. 20,215 remote measurement services on 1,601 patients have been performed. The average measurements reached 12.63 per person; 1,756 pre-screening for atrial fibrillation (AF) on 871 patients were taken, of which 34 people (3.82%) were found to be suspected of atrial fibrillation and assisted in referral for diagnosis; 1,074 people were provided consultation and active care services, and complex cases in the community are found-62 cases were assessed, 59 potential cases were reported, 55 cases were closed, and 554 home visits were made.

### 3.21 Pharmacy Locations Convenience Network

The Department of Public Health cooperates with the Taoyuan City Pharmacist Association to promote the convenience network of pharmacy bases, with 333 age-friendly pharmacies added and maintained to serve as a health consultation station for the elderly in the community. Over 400,000 people in was served in 2021. In addition, as the "one pharmacist per community" and "one pharmacist per campus" ideals are implemented, pharmacists are assigned at campuses and communities, and vaccine injection stations are set up. 210 drug use safety advocacy events were held, enhancing the drug safety knowledge of 7,800 school kids and the community residents.

### 3.22 Oral Medicine Subsidy

#### General Household

With a view to reduce the burden of medical treatment for the elderly and protect the oral health of the elderly, Taoyuan City has subsidized the elderly in general households to install removable dentures since 2014. Elderlies over 65 years old or the indigenous peoples over 55 years old who have been registered in Taoyuan City for more than one year are eligible for the subsidy covering full removable dentures,

removable single-portion denture, removable partial denture, etc. from NT\$ 17,000 to NT\$ 44,000 depending on the situation. It is hoped that nutritional intake and physical health of elderlies may be enhanced by improving the oral health, 48,062 people have benefited from 2014 to the end of 2021. In 2021, the satisfaction rate of the elderly over 65 years old with removable dentures reached 97.7%.

In addition, to solve the problem of after-sales maintenance of dentures and reduce the financial burden of oral medical care for the elderly, Taoyuan City has provided after-sales maintenance subsidies for dentures for the elderly since 2020, with a maximum subsidy of NT\$ 2,000 per denture.

#### Low- and Mid-Income Elderlies over 65YO

For the elderly over 65 years old or the indigenous people over 55 years old who are registered in Taoyuan City, following discovery of missing teeth which affects the chewing function removable dentures mounting is required as per doctor assessment and meeting any of the conditions including receipt of living allowances, full government subsidies for shelter and placement, living allowances for persons with disabilities, or government subsidies for day care and residential care for the elderly accounting for 50% of their expenses, the cost of removable denture are subsidized.

#### Citizens Under 64YO of Low- and Mid-Income and with Disabilities

As the oral health of the persons with disabilities is worse than that of the general population, for those from middle- and low-income households with disabilities and under the age of 65 who have registered in Taoyuan City for more than one year are:

##### · Citizens Aging 12 to 64 YO

Oral treatment expenses including removable denture and fixed denture are subsidized.

##### · Children under 12

Oral treatment expenses including dental sealant, stainless steel crown, preformed milk incisor transparent braces, single (dual) side holding arch are subsidized.

### 3.23 Long-Term Care 2.0 Plan

Compared with the other five special municipalities, Taoyuan City is a comparably younger municipality, yet the elderly still account for 13% of its population. In order to help family members reduce the burden of care and meet diverse care needs, Taoyuan City is actively deploying integrated service community centers, and assigning case manager Unit A for, long-term care service provider (Unit B) and long-term care station (Unit C). As of December 31, 2021, a total of 50 As, 522 Bs, and 337 Cs have been established, serving 28,267 people with complete, continuous and accessible care services for people who need long-term care services via proper integration of the required service system and resources under the ideal of "single window, free consultation, diversified services" and the principle of whole-person care. During the Level 3 Epidemic Alert in Taiwan, Unit A and the care center takes care of the shut-ins, with emergency handling mechanism in place: if the contact to a shut-in is unsuccessful three times on the same day, and the contact is still unsuccessful the next day, the chief of the appropriate village will be notified for visit, and the family of the elderly will be contacted. The police and firefighters will be notified to assist in handling should such confirmation is unable to me made.



## Community Care Locations and Community Long-Term Care Stations

In response to the central long-term care policy's emphasis on extending forward, preventing and delaying disability and dementia, Taoyuan City actively matches local groups in the community, including civilian groups, community development associations and village offices and engages in community care centers. Aiming for the goal of one location per village, greetings via phone calls, caring visits, health promotion events, congregate meals, social participations, etc. are conducted to create a friendly and LOHAS environment. Taoyuan City encourages community care locations with momentum to further provide courses on preventing and delaying disability, and become the "Community Long-Term Care Stations" under the Long-term Care 2.0 network to promote the prevention and delay of disability for the elderly. In the future, the local groups with potentials will be continuously discovered and transformed into Community Long-Term Care Stations to provide an elderly-friendly aging environment. As of 2021, the coverage of Community Long-Term Care Stations reached 57.94%.

## Community Long-Term Care Institution Services

Community-based long-term care institutions are established by revitalizing idle public buildings and providing guidance to the private sector. As of 2021, 54 have been built (including indigenous rural areas) to implement "local aging" and "local care". Healthy and frail seniors can go to the Community Long-Term Care Stations to participate in congregate meal service, health promotion activities, etc. Under the circumstances of disability, dementia, etc., the elderly may visit Community Long-Care Institutions for daytime care, small-scale and multi-mechanism, and various services, so that the elderly can live independently under the safe care environment, reducing the chance of dying in bed.

## Family Caregiver Support Service

To relieve the pressure of family caregivers, Taoyuan City has established family caregiver support service bases. As of 2021, 7 locations have been established to provide case management, home care skills guidance, care skills training, support groups, psychological consultation and telephone care, etc.

## Indigenous Peoples Culture Health Stations

For culture and health stations for indigenous peoples, the concepts of "taking care of indigenous people with indigenous people" and "cultivating indigenous peoples service groups locally" are implemented to strengthen the "mutual aid and support culture" in indigenous areas and urban indigenous settlements; In addition, local volunteers are empowered local care attendants are employed to provide long-term care services tailored to local conditions.

## 3.24 Medical Services in Remote Areas

### Smart Medicine in Fuxing District

Considering the lack of medical resources in Fuxing District, the City cooperated with the central government to promote the "Integrated Delivery System Plan (IDS Plan) in Mountainous and Islands Areas" by Linkou Chang Gung Memorial Hospital, St. Paul's Hospital, Gao Yangwei Clinic and Fuxing District Public Health Center. Through the development of smart medical care via technology, the dilemma of insuffi-

cient specialist physicians in remote areas will be reduced, and the intelligent and localized medical care in remote areas will be implemented to provide better health care for residents in Fuxing District.

### (1) Medical Stations and Circuit Medical Services

Circuit medical service are provided. In addition, "Hualing Medical Station" is set up in the mountains of Fuxing, providing 24-hour emergency, 3-times-a-day outpatient clinic, and 3-times-a-week circuit medical service. As of 2021, a total of 28,943 patients have been served.

### (2) Telemedicine

Telemedicine consultation has been implemented since 2019, among which the dermatology consultation was made available first. Through the cloud video function in conjunction with handheld digital diagnostics set, microscopic examination and transmission of medical images can be performed simultaneously; alternatively, by the remote-control instrument integrated with the medical information system HIS doctor order, doctors stationed in Fuxing District and local patients are allowed to have instant consultation with the specialist doctors of Chang Gung Hospital in Linkou. A total of 442 consultations were performed in 2021, among which contains 67 high-quality teleconsultations to the locals.

## Coastal Medical Care to Xinwu, Guanyin and Dayuan Districts

Taoyuan City has promoted the medical network service plan in coastal areas since 2019. Through four major services including mobile outpatient clinics, teleconsultations, Advance Care Planning (ACP) and home medical visits, the authority has actively brought medical resources into the community and benefited remote areas with accessibility and convenience of medical treatment featuring professional care by large hospitals for locales.

### (1) Mobile Outpatient Clinics

Mobile outpatient clinics features arrangement of medical staff entrance to communities to lower the hassle from transportation by the residents of the coastal areas and to enhance the accessibility to medicine. 2 circuit medical services available at designated locations are held biweekly, and bimonthly health lectures are held. As of 2021, a total of 2,880 patients/participants have been served.

### (2) Teleconsultations

Teleconsultation, together with regional health clinics and cooperative hospitals physicians, combines technology to conduct teleconsultation in the form of video, providing specialist outpatient consultations in dermatology, orthopedics, neurology, cardiology and plastic surgery, providing immediate medical services, making medical services zero Distance, as of 2021, the number of patients served was 2.

### (3) Advance Care Planning

Advance Care Planning offers "appointment-type" advance care planning consultation service available for appointment through the hotline or website. The professional team of the cooperative hospitals will provide consultation services and advocacy lectures at designated points. By 2021, the advocacy was made to 474 participants.

### (4) Home Medical Visits

To serve the elderly in the coastal areas of the City, for

those with poor mobility, long-term bedridden, sit-in, or are economically disadvantaged, medical staff from health clinics and cooperative hospitals are specially arranged to conduct home visits in person to provide professional medical consultation or general diagnosis and treatment as a part of facilitating accessibility of medical care. 196 people has been served by 2021.

## Diversified Facilities for Health Promotion

### 3.25 Creating a Premium Sports Environment

#### Creating a Diversified Sports Environment

Taoyuan City is actively revitalizing the City's lands by planning to build 5 major sports parks, 11 national sports centers, 9 new sports venues, and renovating 36 sports facilities, including track and field stadiums, baseball and softball stadiums, basketball courts with canopies, football pitches, tennis courts, archery ranges, extreme sports fields, water sports training bases, etc., to provide citizens with a high-quality, convenient, friendly and diversified sports environment.

#### All-Weather Sports Spaces Provided

Canopy facilities, nighttime lighting equipment, etc. are built to provide all-weather sports space and outdoor activity venues. The City strengthens the construction of competition and training venues, and improves the level of competitive sports. Private sector resources are in the meantime engaged to manage sports venues and development of 3D-AR-BIM IoT resume platform in order to strengthen efficiency of stadium governance. In 2021, the number of visitors to the National Sports Center was about 1.87 Million, and the utilization rate of the canopy-covered basketball courts increased increase by 60 to 80% on average.

### 3.26 New Construction, Addition, and Renovation of Citizen Activity Centers

Taoyuan City actively builds, expands, and builds civic activity centers in various districts, providing citizens with study, gathering, activities, and even caring bases and indoor leisure spaces for long-term care, promoting the health and well-being of citizens, and by adding new public participation spaces , social welfare facilities and other functions to improve the utilization rate of the civic activity center.

### 3.27 One Meeting Houses for Indigenous Peoples per District

Taoyuan City has a population of about 79,000 indigenous peoples, of which 68,000 are scattered in the metropolitan area. To provide indigenous people in the metropolitan area with space for language promotion, craft learning, music and dance teaching, cultural activities, social studies and festivals, the policy goal of constructing indigenous peoples meeting houses in 12 districts has been set to meet the needs of various activities and gatherings of the indigenous people.

### 3.28 Providing Youths with Diversified Learning Experiences

#### Diverse Facilities and Experiences

Taoyuan City takes "the whole city is a learning experience space for young people" as its goal, and promotes the

establishment and improvement of physical facilities and learning environments, such as establishment of youth experiential learning parks, organization of a series of diverse workshops, lectures, exploration camps, and community exchanges Activities to guide young people to participate in leisure and recreational activities outside their studies (work). Through multi-disciplinary experience courses, rich learning and communication channels and resources, the City intends to cultivate self-confidence of the youth and improve their physical and mental health. Among them, the Yongan Youth Adventure Park is the base built in joint efforts with enterprises with a total of 60 high and low tightrope facilities and 2 team confrontation facilities, all of which are in line with the US ACCT (Association for Challenge Course Technology) international certification. It is the largest exploration education venue in Northern Taiwan, and the coaches in the park have all obtained professional certifications. This Park is built to provide safe and excellent leisure and training venues for the public, business units, school groups.

#### Subsidizing Youths in Participation of International Events

It also subsidizes youth to participate in international open competitions, public performances or large-scale conferences, such as the AIESEC World Conference President's Conference, Synthetic Biology Competition, Thailand Food Competition, etc., to strengthen the sense of honor and ambition of the youth, and at the same time promote youth international views.

## Encouraging Sports for All

### 3.29 Building an Image of Major Sports City

Taoyuan City hosts various events including international, national, city-wide, and regional events, providing players with learning opportunities to participate in sports, increasing the number of citizens participating in sports, improving citizens' sports literacy through watching events, and strengthening the ability to run events to build its images as a major sports city.

#### Hosting of Various Sports Events

Proactive marketing of Taoyuan is expected to be done through perk-ups of sports activities and drive of sports atmosphere. From 2019 to 2021, 5 international events, 36 national events, 156 city-wide events, and 18 regional events have been held. For instance, the National Games attracting views by more than 100,000 people; international large-scale events, such as the Tour de Taiwan, Shimen Reservoir Marathon, Swinging Skirts LPGA Taiwan Championships, Taoyuan City Gymnastics Championships, World Taekwondo Grand Prix, etc., with a number of 40,000 participants in aggregate.

### 3.30 Building a Sports Atmosphere amongst Citizens

#### Taoyuan Sports Card Plan

To create a national sports atmosphere, increase the number of people participating in sports, and promote the physical and mental health of citizens, Taoyuan City initiated the nation's first sports card program- "Taoyuan Sports Card

Plan", which collaborates with chartered qualified sports venues to provide public ticket offers. In 2021, about 44,500 people applied for the "Taoyuan Sports Card Plan".

### **Subsidy to Various Sports Events**

In 2021, sports groups registered and pending registration have been subsidized in the organization of walking, aerobic dance, yoga, Tai Chi, Wai Dan Gong and other activities joined by approx. 55,000 participants.

### **Sports iTaiwan Plan**

In 2021, in combination with local features, tourism and local enterprises, the City has organized various activities such as water sports, cycling, fitness classes, community friendly competitions and carnivals suitable for all ages.

- About 14,000 people participated in the iTaiwan Plan-Community Friendship Competition.
- Sports I Taiwan Plan—about 45,000 people participated in sports activities such as water sports, cycling, fitness classes and carnivals.
- About 29,000 people participated in regional events held by NGOs.

### **Discounted Courses Organized by National Sports Center**

Various special sports courses have been planned in national sports centers. In addition to the general public, it is also suitable for children, teenagers, women and the elderly, allowing people at all ages and groups to enjoy sports. As of 2021, 780,670 participants signed up for discounted courses organized by National Sports Center. Due to the impact of the novel coronavirus pneumonia (COVID-19) epidemic, the number of participants in various activities and courses has dropped. In 2021, the coverage rate of the number of people participating in the sports plan promoted by Taoyuan City is about 20%.

## **3.31 Promoting Sports Equality**

In order to promote the willingness of Underprivileged Groups such as the elderly and the persons with disabilities to exercise regularly, Taoyuan City conducts health seminars and fitness courses for senior citizens through the "Sports i Taiwan Plan", as well as sports experience camps and training classes for the disabled, to create a healthy environment for the elderly and equal. There were about 10,950 participants in 2021.

### **Offers for Senior Citizen Service Cards**

In order to promote equal rights in sports and take care of disadvantaged groups, National Sports Centers have launched public welfare hours from 8:00 am to 10:00 am and 2:00 pm to 4:00 pm for the disabled, the elderly and low-income households, during which they're entitled to use of gyms and swimming pools and other facilities free of charge. As of 2021, about 400,000 people still have benefitted from such offer even under the severe impacts by COVID-19.

## **3.32 Enhancing Strengths in Competitive Sports**

### **Plans for Organizing Athletes Training and Employment of Sports Coaches**

Taoyuan City organizes various athletes training plans, provides training resources and improves training environment to upscale the competitive strengths of players.

### **· Taoyuan City Elite Athlete Training Plan**

Through the employment of foreign coaches, overseas training, international sports exchanges, summer training camps and weekend test competitions, about 1,673 elite athletes have participated in the training from 2019 to 2021.

### **· Plan for Taoyuan City Gold Medal Winning in National Games**

The City subsidizes training of various sports groups participating in "National Games", with about 729 outstanding athletes engaged in training from 2019 to 2021.

### **· Taoyuan City Key Sports Resources Fulfillment Training Plan**

The City subsidizes the City's committees engaged in sports to be competed in National Games for the equipment and relevant resources to enhance the training environment quality, with about 4,425 outstanding athletes benefitted from such measure from 2019 to 2021.

### **· Taoyuan City Outstanding Athlete Training Subsidy Plan**

For those who have been registered in Taoyuan City for more than one year and have finished in top 3 in various competition types and events held in the "National Games" and "National Intercollegiate Athletic Games", a monthly fixed subsidy ranging from NT\$ 4,000 to NT\$ 20,000 as training grant is disbursed, with about 1,044 outstanding players applied for training subsidies from 2019 to 2021.

### **· Taoyuan City Excellent Sports Coach Plan**

In order to make up for the lack of sports coaches at the grassroots level, to enhance the City's competitive sports strength, to establish a career development mechanism for outstanding players, and to provide retired players with job opportunities as coaches, Taoyuan City has subsidized the salaries, transportation, accommodation and meals and other related expenses, required by individual committees to hire coaches since 2018. As of 2021, about 53 outstanding coaches were hired.

### **Athlete Medical Services**

In order to take care of outstanding athletes, Taoyuan City has cooperated with the private sector to provide medical services since 2017, which encompasses medical service resources for outstanding athletes and sports teams in the City including organizing sports medical service teams, establishing a medical service network, supporting players' medical expenses, and providing comprehensive medical services, establishment of players' personal health records and medical tour services, etc., with a view to help players recover smoothly and return to the field after recovery from injury, and prolong their career. By 2021, about 359 players have been benefitted from such measure.

### **Building Athlete Database**

To effectively track the performance and career actions of players, the City has established a database of outstanding athletes since 2020, and compiled the data of top 8 finishers in the sports games held in the City- the Mayor's Cup, the National Games, the National Disabled Games, the National High School Games and the National Games, as well as participants in the Asian Games and the Olympic Games from the City, which would facilitate the City's competitive sports training business.

# Quality Education

## Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all.

With the rapid growth of the population and the continuous progress of society, and the concept of education keeping pace with the times, a wider range of learning methods has emerged. Diversified culture education emphasizes human rights, human dignity, and the thinking of freedom and equality. Education within the system improves teaching quality and environment, while the outside-the-system and atypical education emphasize respecting the individual's right to self-directed learning. The City is committed to promoting active learning for the elderly, advocating whole-person education, and creating a lifelong learning environment. Taoyuan City provides fair and high-quality education for different age and different ethnic groups in response to scientific and technological progress to enhance the competitiveness of learning and employment, to improve the aesthetic quality of urban culture as the direction of efforts, and to emphasize the social responsibility of the university and the promotion of environment education with sustainability.

### **Preschool Education 069**

- 4.1 Public Caregiving
- 4.2 Publicized Preschools

### **Vocational Education 070**

- 4.3 Plan of Career Planning and Profession Exploitation for Elementary and Junior High School Students
- 4.4 High School Vocational Talent Incubation Mechanism
- 4.5 Cooperative Education Plan
- 4.6 Cultivation of Innovative Industrial Talents

### **Underprivileged Groups Education 071**

- 4.7 Learning Support for Elementary and Junior High School Students
- 4.8 After-Class Care Services for Elementary School Kids
- 4.9 Schooling Expense Subsidy for Economically Disadvantaged Students in Elementary and Junior High Schools
- 4.10 Educational Assistance to Students with Disabilities
- 4.11 Education for Underprivileged Students in Remote Areas

### **Respect to the Diversity of Cultures 072**

- 4.12 Elementary and Junior High Schools Overall Indigenous culture Promotion Plan (Minnan, Hakka, and Indigenous Peoples)
- 4.13 New Immigrants Children Education Assistance
- 4.14 Indigenous Peoples Education

### **Sustainable Development Education 073**

- 4.15 Environmental Education Promotion Plan
- 4.16 Promoting Campus Fidelity, and Deepening Integrity

### **Lifetime Learning 074**

- 4.17 Plans of Building Taoyuan City Library and Reading Habits Promotion
- 4.18 Senior Learning Plan
- 4.19 Community Colleges

### **Aesthetics and Culture Education 075**

- 4.20 Arts and Aesthetics Cultivation Plan
- 4.21 Taoyuan Environmental Aesthetics and Aesthetics Facilitation Plan

- 4.22 Plans of Supporting Performance Art Groups and Cultivating local Arts Talents

- 4.23 Daxi Wood Art Ecomuseum Education Promotion and Cultural Education Network Project
- 4.24 Child's Toys Library Plan

### **Education with Equality 077**

- 4.25 Smart Learning Classroom Plan
- 4.26 Taoyuan Autodidactic 3.0 Lab
- 4.27 Taoyuan City Atypical Education System Plan

### **A Safe Learning Environment 078**

- 4.28 New School Buildings for Municipal High, Junior High, and Elementary Schools Plan
- 4.29 Old and Unsafe Buildings and Old Schools Renewal Plan
- 4.30 Anti-Bullying Policy for Creation of Friendly Campus
- 4.31 Guard Volunteer Plan

## Preschool Education

### **4.1 Public Caregiving**

Public caregiving facilities are built to reduce the childcare burden of young families. In the meantime, indoor recreational space are available for parents to rest assured to send their children for caregiving, attaining the goal of work assurance and joy in plays, thereby creating a friendly caregiving environment.

## **Building Public and Private Childcare Centers and Parent-Child Centers**

Through public and private childcare centers constructed at public pavilions, parents are provided with affordable and high-quality childcare environments. In addition, considering that children under 6 years old have less space for indoor parent-child learning and play, the City has actively built features parent-child centers to provide parents with parent-child care, parenting knowledge and promotion of the concept of child welfare and children's rights. In order to improve the quality, experts and scholars are invited to a counseling group who regularly go to the service provider site for counseling, allowing parents to feel at ease and use the center with confidence.

In 2021, there was 19 community public childcare homes, 16 public and private childcare centers, and 19 parent-child centers (including 3 mobile parent-child vehicles), and the constructions are in progress under the concept of one public and private childcare center and one parent-child center per district.

### **4.2 Publicized Preschools**

According to the Organization for Economic Co-operation and Development (OECD), the choice of service provision for childcare models is composed of public, non-profit private, and for-profit private schools. In advanced countries, the public and non-profit private preschools are the primary types of preschools (approx. 90% in Europe, and approx. 70% in the US). In addition, Taiwan is still dominated by for-profit private preschools, accounting for about 70% of all preschools, and public preschools only account for 30%. The high tuition fees of for-profit private preschools lead to a heavy education burden on parents.

#### **Building Publicized Preschools**

In order to reduce the pressure on parents to raise children, Taoyuan City has actively added public and non-profit preschools (public preschools in short) to achieve the goal of preschool education by increasing the proportion of public preschool services. The number of public preschools in the 2020 academic year has broken 40%, and 15 preschools, 117 classes, and 3,016 vacancies were added in the 2021 academic year, with sustained planning of additional preschools and classes for satisfying childcare needs by the parents.

## **Vocational Education**

### **4.3 Plan of Career Planning and Profession Exploitation for Elementary and Junior High School Students**

#### **Career and Skills Education Plan**

In order to enable students from elementary and junior high schools to explore themselves, understand the professional world, promote students to explore their own interests and aptitudes, and achieve the education goal of adaptability

and talent development, skills education and career exploration through a variety of career and skills education plans are implemented for rooting. In 2021, a total of 17,126 students have participated.

#### **· Junior High School**

Class composition based on vocational education projects, pull-out vocation education classes, skills education clubs, skills education camps during winter and summer vacations, and skills education competitions.

#### **· Elementary School**

Regional career exploration, experience demonstration center, career exploration courses for senior students, etc.

### **Diverse Learning and Profession Experiences**

In addition, to help low-achieving teenagers set a career goal, Taoyuan City collaborates with schools and friendly businesses to design groups courses, college visits, professional experience and internships, providing teenagers with multiple learning opportunities and helping teenagers to understand themselves, Set career direction, build self-confidence, develop good attitude and communication skills.

### **4.4 High School Vocational Talent Incubation Mechanism**

#### **Providing Diverse Learning Pipelines and Courses**

Taoyuan City assists students in their adaptive development through the school's testing and counseling mechanism, and encourages high school and vocational high schools to adopt diverse education to provide students with diverse learning pipelines and courses.

#### **Organizing Various Plans for Enhancing Student Employability**

The City cooperates with the National and Pre-School Education Department's projects of the Ministry of Education (including subsidizing schools for special classes for career-oriented courses, off-campus internships and on-campus and off-campus internships, plans to improve students' practical ability in practice, and the selection of industry experts for collaborative teaching, etc.) to increase high school students of their practical knowledge and skills in order to enhance students' employability.

#### **Organizing Craftsmanship Courses to Strengthen Students' Ability in Practice**

The Taoyuan City Craftsmanship Courses was also established to offer experimental courses such as interior wiring, gardening, gardening and landscape design, and Chinese flour-based food processing to help citizens and students explore different interests and enhance their practical ability. The annual rate of courses starting is 90%; the courses also helps dropouts to return to campus and regain their interest and confidence in learning through practical exercises. This is to further cultivate potential talents needed by the industry.

## 4.5 Cooperative Education Plan

### Basic Training and Orientation Training

Cooperative education is the cooperation between schools and cooperative institutions, which allows students to take courses in schools and at the same time go to relevant industries to receive vocational training to facilitate employment. Before entering the workplace, students need to receive basic training and orientation training in schools to acquire basic skills, occupational safety and health, and labor rights and other related knowledge of relevant vocational subjects. In the meantime the school and cooperative education institutions also jointly organize briefing sessions to explain the training content and rights and obligations during the training period to the students and their parents.

### Status Quo of Cooperative Education

In the 2021 academic year, there are 30 classes in rotational and step-wise cooperative education classes covering 6 departments such as mechanics, information, catering management, circulation management, electronics, commerce and tourism across 4 schools in Taoyuan City such as Cheng-kung Senior Industrial Commercial Vocational School, Yung Ping Technological Senior High School, Fan Shu Vocational School, and Paul Hsu Senior High School. The number of students under cooperative education scheme totals 1,234.

## 4.6 Cultivation of Innovative Industrial Talents

Taoyuan City combines resources from industry, government, academia, research and other sectors, cultivates young people to acquire key workplace skills, problem-solving ability and innovation and entrepreneurship ability through short and medium-term practical courses and training, and helps young people to have corporate workplace awareness and understanding of the current situation and future development trends of the industry before entering the workplace. In addition strengthening their professional knowledge and capabilities required by the trend, and reducing the gap between learning and practice, among which indigenous students are also encouraged to actively participate. Taoyuan City has also established a complete vocational training system that meets market needs to improve labor employability and skills (See Goal 8).

## Underprivileged Groups Education

### 4.7 Learning Support for Elementary and Junior High School Students

Taoyuan City assists students with low academic achievement in the three subjects of Chinese, mathematics and English through learning assistance by improving their learning ability in order to ensure that everyone can have the ability to read, write and numerate. The learning assistance for the 2021 academic year is NT\$ 73,916,317 only. In addition, the introduction of private resources to improve effectiveness are engaged, including:

### Online Video Library

To reduce the learning gap between students and allow every child can learn happily, the online video library teaching materials on the education platform are implemented to encourage students to learn independently.

### Faculty Training and Teaching Material Development

With civil resources from the Yonglin Hope Elementary School, the professional learning support teachers are cultivated, and the assistive teaching materials are developed.

### Adaptive Learning Website Teaching Plan

Furthermore, "Adaptive Learning Website" learning plan is engaged to improve student leaning and teaching effectiveness of teachers.

## 4.8 After-Class Care Services for Elementary School Kids

In consideration of the time difference of students getting off school and parents getting off from work, Taoyuan City encourages schools to implement after-class care service.

### Life Care and Homework Guidance

Student are provided with mainly life care and school homework guidance so that parents can work with peace of mind, and pick up their kids after getting off from work. Taoyuan City provides after-school care-related services in the 2021 academic year (including the introduction of non-profit private resources to provide after-school services for 22 schools). The program has achieved the participation by 188 schools, 100% establishment rate, and 1,229 classes, with 27,054 students participated.

### Underprivileged Groups Subsidy

With caring to underprivileged groups, students from low-income household or are persons with disabilities or indigenous peoples may attend free of charge. Students under special circumstances are further subsidized otherwise.

## 4.9 Schooling Expense Subsidy for Economically Disadvantaged Students in Elementary and Junior High Schools

### Schooling Expense Subsidy

The City provides financially disadvantaged students in elementary and junior high schools with subsidy for schooling expenses, so that they can go to school fairly and with peace of mind, including full subsidy for book fees and fixed subsidy for agency fees, which has benefited more than 150,000 people in the past three years.

### Free School Breakfast and Lunch

Underprivileged students are offered with free school breakfast and lunch to ensure that underprivileged students are free from hunger and have a healthy body to concentrate on their studies (See Goal 2).

## 4.10 Educational Assistance to Students with Disabilities

In order to assist students with disabilities to break through the predicament and learn more smoothly, Taoyuan City provides a series of education transition assistance from pre-elementary school to high school, as well as financial and living assistance.

### Education Articulation Support

#### (1) Elementary School Preparatory Classes for Students with Disabilities Pending Elementary School Enrollment

In terms of education, for pre-school students with disabilities, Taoyuan City provides pre-school preparatory classes for new students with disabilities to enroll in elementary schools every year, so that students can learn early and adapt to the routines and routines of elementary schools. In 2021, due to the epidemic, the schools have changed the class to a 1 to 2 half-day activities held one week before the start of school, with a total of 53 students from 8 schools benefitted.

#### (2) After-Class Care Service for Elementary School Students with Disabilities

Elementary school students with disabilities are provided with after-school care services, so that they can grow up healthily, become enhanced their interest in learning to reduce learning gaps, while their parents can also work with peace of mind. In 2021, a total of 1,132 students from 67 schools benefitted from such service.

#### (3) Adaptive Counseling for Junior High Students with Disabilities

For junior high school students with disabilities, they are provided adaptive counseling in high school, and a total of 1,148 students was benefitted in 2021.

#### (4) Adaptive Counseling for High Students with Disabilities

For high school Persons with Disabilities students, they are provided general class counseling, vocational education and career counseling, functional assessment and employment counseling, etc., so that they can develop adaptively and continue to study or enter the workplace smoothly after high school graduation.

### Economic and Living Support

#### (1) Subsidy for Textbooks

Taoyuan City conducts a comprehensive subsidy with one complete set of textbooks free of charge, available for students with disabilities studying at schools below high schools.

#### (2) Offering Transportation or Subsidy for Transportation Expenses

For the students with disabilities in the public elementary and junior high schools in Taoyuan City, if they are unable to go to and from school by themselves, and the parents are indeed unable to pick them up and drop off by themselves, free transportation or subsidized transportation fees was provided. 3,565 students from 238 elementary, junior high, and high schools (incl. pre-elementary) have benefited.

## 4.11 Education for Underprivileged Students in Remote Areas

### Education Articulation Support

In order to take into account the learning rights of students in the remote areas, the City assists schools in remote areas in the development of teaching professional, and conducts multiple exploration activities for students to promote adaptive learning. In 2021, a total of 16 elementary and junior high schools in remote areas has engaged in this plan.

### Summer Enjoy Learning Pilot Scheme

The Summer Enjoy Learning Pilot Scheme for underprivileged students during summer vacation has been promoted. The school may arrange a 2- to 4-week integrated learning plan to create a learning environment by doing, or arrange indigenous language activity courses to allow students to actively learn local language and experience the beauty of indigenous culture. By activating teaching concepts and methods, students' adaptive development may be guided and learning fun and effectiveness can be increased, making students' summer learning more diverse. In 2021, nearly 500 students from 15 rural elementary and junior high schools has participated in the scheme.



## Respect to the Diversity of Cultures

### 4.12 Elementary and Junior High Schools Overall Indigenous culture Promotion Plan (Minnan, Hakka, and Indigenous Peoples)

In order to guide the public to learn to respect the cultures of all ethnic groups, and to enhance students' understanding of indigenous languages (including Minnan, Hakka, and indigenous people) and culture, 8 major strategies including teacher language certification, indigenous arts and cultural activities, digital learning materials, indigenous teaching think tanks, deep cultivation courses, mother tongue teaching experiment, teaching achievement reward, literature, history and society survey are to promote various local education plans, with the enthusiasm of teachers and students participation, the richness and breadth of activity content, and the recognition of the value of activity results as the emphases.

At present, 18 schools led by Ximen Elementary School are promoting relevant plans by organizing the professional competence certification and training of teachers in Minnan, Hakka, and indigenous peoples' languages, and holding local education carnivals, indigenous rap art competitions, children's native language storytelling competitions, and campus indigenous languages anchors as well as various indigenous languages arts and cultural events.

## **4.13 New Immigrants Children Education Assistance**

The population of new immigrants in Taoyuan City ranks fourth in Taiwan. In order to help new immigrants children break through barriers and adapt to school and social life in a rapid manner, eliminate possible inequality in education, new immigrants language learning and new immigrants children's root tracing activities have been organized, including Chinese make-up courses, teacher workshop for diverse culture, international day of diverse culture, diversity teaching material production, consultation, small groups activities, parenting education, etc. participated by a total of 123 schools participated, benefiting about 50,000 people. Taoyuan City also established New Immigrants Chinese language courses and teaching guidance team for assisting promotion of various plans and improving the quality and effectiveness of learning.

## **4.14 Indigenous Peoples Education**

Taoyuan City has the population of indigenous peoples ranking 1st the Six Special Municipalities, emphasizing the language and cultural heritage and talent cultivation of the indigenous peoples.

### **Establishment of High Schools and Universities of Indigenous Peoples**

In 2021, in addition to the establishment of the Experimental Senior High School for the Indigenous Peoples (Luo Fu Senior High School), Taoyuan established the Tribal University to provide for people over 18 years old free-of-charge 10 major oriented courses including language, health care, information education, vocational training, culture exploration, ecology, industrial management, community education, gender education, life education and other. The teachers and students include people under various indigenous ethnic groups, with more than 3,686 students. The indigenous industry talent training and public issues forum plans are currently under planning, and cooperation and exchanges with Taoyuan City Community College is in progress.

### **Holiday Growth Camp for Students from Underprivileged Families of Indigenous Peoples**

Holiday Growth Camp for Students from Underprivileged Families of Indigenous Peoples is organized to assist indigenous youths to broaden their view, enhance their proficiency in indigenous languages, and uplift their abilities for traditional tribal skills.

### **After-Class Tribal Language Class for Indigenous Peoples**

After-Class Tribal Language Class for Indigenous Peoples is opened encourage participation in national Indigenous Languages Word and Drama Competitions, improve their tribal language proficiency and tribal awareness. In the meantime, 5 Indigenous Peoples sports series activities are held annually to cultivate sports talents among indigenous peoples.

### **Financial Assistance for Children of Indigenous Families**

To assist the education needs of children of indigenous families, Taoyuan City provides financial assistance for children of indigenous families, including:

- NT\$ 5,000 to 8,000 for tuition fees for senior high school students
- Low-income college students receive a subsidy of NT\$ 4,000 per semester
- NT\$ 1,000 to 10,000 for scholarships for indigenous students under the poverty line and outstanding indigenous students
- Outstanding indigenous talents are award subsidy of NT\$ 3,000 to 30,000

## **Sustainable Development Education**

### **4.15 Environmental Education Promotion Plan**

#### **Environmental Education Facilities Certification**

Taoyuan City takes local operation and sustainable development as the goal, actively promoting environmental education, and assists potential places of environmental education to apply for certification through education training and counseling. As of June 2022, Taoyuan City has the following 31 places that have obtained environmental education facilities certification:

- Dongyanshan Natural Education Center
- Sanchashui Environmental Education Center
- Shimen Reservoir
- Lao Jie River Education Center
- JianZiLi Environmental Education Center
- Environment Resources and Education Center of the Chung Tai Resource Technology Corporation
- Lucky Time Recreational Farm Sustainable Agriculture and Environmental Education Center
- The Window on China (WOC) Miniature and Cultural Institute
- Hutoushan Environmental Park
- Kuo Yuan Ye Museum of Cake and Pastry
- Taoyuan North District Water Recycling Center
- AUOGreenArk at Longtan Plant of AU Optronics
- Daxi Water Recycling Center
- Bade Pond Ecology Park
- Green Life
- Taoyuan City Guishan Diesel Vehicle Emission Inspection Station
- music4fun
- Xiaowulai Environmental Education Park
- Training Center and Disaster Education Center, Taoyuan Fire Department
- Taoyuan City Indigenous Culture Center
- Craftsman Story House, Daxi Wood Art Ecomuseum, Taoyuan
- Guishan Nursery Green Environment Ecological Park

- Oceanic Hakka Beach Seine Culture Center
- Taoyuan Martyrs' Shrine and Cultural Park
- Zhongli City Story Houses (Zhongping Road Story House, Forest Story House, Li Jing Ding)
- Important National Wetland - Xucuogang Wetlands
- Guanxin Algae Reefs
- Jiaoban Mountain Environmental Education Park
- Guanyin Caota Sand Dunes
- Xinwu Stone Weirs
- O'right Green Headquarters

#### **Guided Tour or Courses at Environmental Education Sites**

To implement the promotion of environmental education, from 2015 to 2021, Taoyuan City has passed the certification of the Environmental Protection Agency and established three tourism and recreational environmental education areas, including "Hutoushan Environmental Park", "Xiaowulai Environmental Education Park" and "Jiaoban Mountain Environmental Education Park" at which regular environmental education promotion activities, environmental education course teaching and regular holiday ecological tour activities are held. In the future, the three parks will be used as bases to design and plan the environmental education promotion activities under the jurisdiction of scenic areas in series.

#### **Historic Sites Included as Environmental Education Facilities and Places**

The Confucian Temple and the Taoyuan Martyrs' Shrine and the Culture Park are included in the environmental education facilities to guide visitors to understand the importance of culture preservation. In recent years, the Confucius Temple has been performed space revitalization, development of environmental education courses, Confucius's birthday ceremony and cultural relics exhibition, and restoration of the most complete shrine building in Taiwan - Taoyuan Martyrs' Shrine to achieve accumulation of environmental education momentum.

Other environmental education plans include agri-food education (See Goal 2), water education (See Goal 6), sustainable development awareness (See Goal 12), and coastal conservation (See Goal 14).

#### **4.16 Promoting Campus Fidelity, and Deepening Integrity**

Combining integrity education and character education, the City actively make full use of various educational and entertaining methods and design interactive games or contests to promote the awareness of integrity, integrity and zero tolerance for corruption in the innovative form of incorruptibility animations, integrity story collections, etc., effectively rooting integrity awareness and moral literacy in students and children at different ages including college students, high school students, elementary school students and preschool children.

## **Lifetime Learning**

#### **4.17 Plans of Building Taoyuan City Library and Reading Habits Promotion**

In orientation of serving readers, the City Library strengthens information and space planning, and performs various reading promotion services, promotes book fairs on themes such as human rights, gender equality, and diverse culture, and provides everyone with education and effective learning space to fully acquire relevant knowledge and skills to allow learning unrestricted by age; Taoyuan City is actively preparing to build a main library and new buildings, and has planned 44 book reading spaces to create a high-quality reading environment and enrich the abundant collection, so as to build a reading city and promote culture contributions to sustainable development.



#### **4.18 Senior Learning Plan**

##### **Senior Learning Center**

In response to the elderly population incremented year by year, Taoyuan City actively builds a local senior learning organization, and sets up Senior Learning Centers with the Goal of "one district, one senior learning center". A total of 8 schools and 5 NGOs are involved, and each Senior Learning Center is encouraged to combine in the local culture, and improve elderlies' participation.

The Senior Learning Center encourages seniors over the age of 55 to participate and provides three categories of courses including core senior courses, self-planned courses and contribution service courses:

##### **(1) Core Senior Courses**

For preparation for aging life, this Course is divided into five cores: safety in life, sports and health, spiritual growth, interpersonal relationships and social participation.

##### **(2) Self-Planned Courses**

Planned in accordance with local resources, features, and interests of learners.

##### **(3) Contribution Service Courses**

The Course mainly focuses on senior volunteers' training and learning service clubs. In addition to self-serving, they may serve others with what they've learned.

With most of the classes held in school classrooms, in 2021, each center has offered classes totaling 8,952 hours, and 112,178 people have participated in activities.

#### **Evergreen Academy**

In order to advocate the spirit of lifelong learning and encourage the elderly over 60 years old to go out of their homes for people interactions, Evergreen Academy are established in Taoyuan under autonomous organization of District Offices or NGOs under subsidy of District Offices,

providing age-appropriate multi-learning courses including English and Japanese, calligraphy and painting, mobile phones and tablet computer use, singing, I Ching, Tai Chi, Ballroom Dance, and various general and life information courses, as well as local special courses (such as indigenous culture, history, local customs, natural environment, customs and beliefs, traditional tribal skills, etc.) and lectures on special topics held in community activity centers and small gathering places. Affected by the epidemic in 2021, the number of participants was 10,601.

#### 4.19 Community Colleges

Taoyuan established 5 community colleges, and set up 198 teaching locations in the offices, schools, assembly halls and temples, etc., to attract citizens to join lifelong learning.

##### About Courses

It is divided into three categories: academics, community activities, and life skills, with combination of environmental protection, gender, agriculture, and other civic participation activities with local characteristics. It is hoped that citizens may, through learning in the field, learning in the field, learning by doing, and doing in learning, be cultivated in the ability to participate in social and public affairs and therefore promote their local identity. In 2021, a total of 1,823 courses was offered and more than 30,000 people signed up. The five community colleges have different characteristics:

###### · Taoyuan Community College

Due to its characteristics as a densely populated area of the City and full of artistic atmosphere, it features "Urban Smart Green Living" and "Taoyuan Arts and Humanities".

###### · Bade Community College

Due to the large number of ponds and the developed tourism in the District, it features "sustainable water resources" and "leisure ecology".

###### · Zhongli Community College

Due to the geographical environment and diverse ethnic groups in the District, it features "river ecological protection" and "New Immigrants Culture and Care".

###### · Xin-Yang-Ping Community College

As the Districts are of the Hakka and agricultural promotion areas, it features "Hakka Culture" and "Friendly Agriculture".

###### · Lu-Shan-Yuan Community College

According to local resources and needs, it features "community aesthetics" and "leisure agriculture and wetland ecology".

### Aesthetics and Culture Education

#### 4.20 Arts and Aesthetics Cultivation Plan

Taoyuan City manages art and aesthetics cultivation plan inclusive of art deep cultivation teaching plan, Togarther -

experience course, Togarther - venue experience, preschool aesthetic education root plan, cross-domain aesthetic education excellence field plan, aesthetics and design innovation plan and achievements Press conferences, etc., and built up the official website of the Plan (<http://163.30.58.109>) to provide information related to artistic aesthetics, to strengthen aesthetics courses and experiences, and to promote sustainable development of art and aesthetic education.

#### 4.21 Taoyuan Environmental Aesthetics and Aesthetics Facilitation Plan

With building of unique art museums and performance spaces and development the way of "multiple venues in one institution", Taoyuan City intends to enhance the development of Taoyuan's aesthetics and aesthetic education through the museum environment.

##### Taoyuan Museum of Fine Arts

Taking contemporary art as its orientation, and collection research, art exhibition, and education promotion, etc. as its mission, TMOFA is combined with the surrounding natural environment and community planning to form an art field close to life.

##### Children's Art Museum, Taoyuan Public Library

Targeting children and children, special exhibitions and promotion activities are planned. Meanwhile, through the exchange of children's art book collections and related education resources, the Children's Art Museum, Taoyuan Public Library further promotes the development of art and culture and the development of aesthetic education.

##### Hengshan Calligraphy Art Center

Taking the foundation of calligraphy art research, education, shaping the characteristics of local art and literature, and promoting international calligraphy and art exchanges as the goals, it is hoped that the art of calligraphy can be deepened in Taoyuan and Taiwan, and then bloom its rich cultural recognizable artistic energy.

##### Zhong-Lu Art Museum

In the future, it will serve as a new base for contemporary art experiments, with the planning direction of the residency of cutting-edge art talents, cross-disciplinary art creation experiments, contemporary art exhibition publications, and co-creation of an aesthetic platform.

#### 4.22 Plans of Supporting Performance Art Groups and Cultivating local Arts Talents

##### Taoyuan Iron Rose Music Festival

The Arts and Cultural Facilities Management Center has held the "Iron Rose Music Competition" for 9 years in a row since

2012. At the same time, it also cultivates and encourages the young generation to engage in music creation by organizing music education promotion courses.

Since 2016, it has been upscaled to the event series of "Taoyuan Iron Rose Music Festival", including "Conservatory of Music", "Music Competition" and "Iron Rose Music Festival" and other sub-plans, promoting the development of Taiwanese popular music in an all-round way. Meanwhile, the Taoyuan-exclusive "Iron Rose Music Brand" image, which effectively promotes Taoyuan's music creation energy to take root in the local area, has been established.

Since 2019, the "Taoyuan Iron Rose Music Festival" was expanded with guest organizers and curators of foreign music festivals as the final judges of the Music Competition, and the winning teams of the general adults category of the Music Competition in the past two years were sent overseas for music festival performances, showing the diverse appearance of Taiwanese pop music, creating opportunities for overseas markets; well-known foreign music bands were also invited to sing at the Iron Rose Music Festival, enhancing the brand image awareness and internationality of Iron Rose Music, and aligning with the international music trend. In conclusion, The Iron Rose Music Festival continues to deepen the education of music promotion, gradually expand and accumulate the music population, and cultivate the basic music literacy of the public.

In 2020, due to the impact of the novel coronavirus (COVID-19) epidemic, the event was postponed to 2021 and has been relocated to Taoyuan Sunlight Arena, a popular music venue in Northern Taiwan. Combined with 5G technology, the show achieved the longest distance co-performance in our country at this stage.

#### **Performance at the Taoyuan Sunlight Arena**

In the opening series of events in 2021, events in series "Iron Rose Music Awards", "Iron Rose Music Festival" and the opening concert the Taoyuan Sunlight Arena were held to conduct a venue strength test. It is hoped that the opening of the space will support the pop music industry and the Taoyuan local life circle, making the Taoyuan Sunlight Arena "changeable" and "playable" through different programs and become a hot spot for music fans to "hang around". In the future, the arena will be available for various large-scale events.

### **4.23 Daxi Wood Art Ecomuseum Education Promotion and Cultural Education Network Project**

#### **Education Promotion Plan**

With a view to enhance the public's knowledge of local culture and promote sustainable development of the

environment, the City has cooperated with Daxi Wood Art Ecomuseum in cultivating cultural seeds and sustainable development awareness and promoting culture education network with the education promotion plans targeting different demographics, meanwhile promoting the culture education network with the regeneration of cultural assets as the core complex to connect the crucial cultural issues and relevant communities in Daxi. Meanwhile, it promotes residents to become a part of the "Corner Pavilion" and "mutual learning action partners" by accumulation, collection, interpretation, and presentation Daxi culture actions with their own spaces to fulfill the saying "Daxi is a museum".

#### **Cultural Assets Regeneration Plan**

To preserve the local spatial memory and improve the overall landscape of Daxi Old Town, the core building of Daxi Wood Art Ecological Museum is engaged in the cultural assets regeneration plan to strengthen Daxi craftsmanship and life aesthetics. Taking Daxi Old Town as the core and through cultural space shaping, expansion of the scope of street corner buildings, the promotion of local conservation and religious belief culture, investigation and documentation, and the co-construction of local knowledge "Daxi Studies", the promotion of the inheritance and development of the Daxi wood art industry, community participation in local cultural interpretation and performance as well as exploration, integration and regeneration of local cultural resources can be promoted to. In the meantime, the historical site restorations are carried out for reproduction of cultural content.

#### **Planning to Peripheral Architecture to Daxi Wood Art Ecomuseum**

- **Phase 1 Dormitory Complex of Police Officer Dormitories**

Opened between 2016 and 2017.

- **Daxi Chiang Kai-Shek Memorial Hall**

After closing for restoration in 2018, it was open in 2020 and became a wooden furniture museum and a wooden living hall, providing the exhibition space of Daxi's innovative wooden furniture and the aesthetic experience site and exhibition and sales of wood arts.

- **June 24th Story House**

After renovation in 2020, it was open October 2021. Combined with display and dynamic experience, it has become the preservation and promotion base for Daxi's intangible cultural assets "Puji Temple Holy Emperor Guan Birthday Festival" and Shetou culture.

- **Phase 2 Dormitory Complex of Police Officer Dormitories**

Following the restoration started in 2018, the entire complex was open November 2021, including the craft base, craft exchange hall, product shop, etc. As a space for craftsmen residence, it promotes wood art and lacquer art cooperation, meanwhile cultivating talents to enter local industries and providing locations for display of local agricultural products.

### **Daxi Learning Center**

Taoyuan City combines Li Teng Fang Mansion and YaMay Leisure Agriculture Area for revitalization in the form of "Daxi Learning Center". Based on the principle of residents' participation and multiple experiences, the diverse learning plans featuring three major themes including historical sites, family, and Daxi terroir has been developed, available for participation in the Center, allowing parents, children, school groups and tourists to travel and learn together and experience the beauty of Daxi culture.

### **4.24 Child's Toys Library Plan**

Taoyuan City has set up the Child's Toys Library in Dainan Forest Park, Bade District. In order to reduce the impact on the ecology of the existing base, the repair and revitalization were made only to the old buildings as the major service spaces for toy display, book reading area and parent-child experience. Meanwhile, the childlikeness and art of traditional wooden toys are preserved for the goal of achieving the purpose of inheriting, sharing, education and promoting toy art culture in the Child's Toys Library.

## **Education with Equality**

### **4.25 Smart Learning Classroom Plan**

In response to the development of technology trends and narrow the learning gap between urban and rural areas, Taoyuan City jumps out of the traditional teaching framework, adopts digital academies to cultivate the next generation, and enhances the logical thinking and future competitiveness of young students.

#### **Building of Smart Learning Classroom**

Since 2016, the "Smart School and Digital Classroom Plan" has been promoted. From 2017 to 2020, the information equipment of all general classrooms and specialized classrooms in Taoyuan City elementary and junior high schools have been updated. Furthermore, mobile devices, interactive teaching assistance systems, and VR/AR equipment, 3D printers, quadcopters, and maker learning kits and other emerging technology teaching equipment are the new additions for the promotion of the innovative teaching applications. In the meantime teaching team competitions and performance presentation conferences are organized. Currently, Taoyuan City has built a total of 5,698 smart learning classrooms, with a total of 22,000 mobile devices available for children from underprivileged families during the school closure period.

#### **Setting of Diverse Specialized Classrooms**

In addition, Taoyuan City has 61 junior high schools, and each school has a wide range of 1,469 specialized classrooms in physics and chemistry, biology, music, art, art,

crafts, home economics, scouting, audio-visual and other diverse subjects based on teaching and characteristic development, providing students with diverse, enriched and specialized learning opportunities.

### **4.26 Taoyuan Autodidactic 3.0 Lab**

#### **Promoting the Experimental Three Education Acts**

For ensuring the basic quality of the people, Taiwan promoted 9-year compulsory education in the early stage, which children at all school ages must enter the school to receive compulsory education including 6 years in elementary school and 3 years in junior high school. Furthermore, the years of basic education was extended in 2014 with the 12-year compulsory education, with the Three Education Acts of experimental education allowing that parents to students below high school can apply for non-school-type personal experimental education, and schools can handle experimental education, enabling more diverse education choices.

#### **Providing Self-Learning Sites**

In order to protect students' right to study and education choice, Taoyuan City provides an infinitely broad learning field for students with superior abilities to, driven by the motivation of autonomous learning, set a direction for their own learning and growth, and enjoy the fun and achievement of learning.

#### **Setup of Website for Providing Diverse Courses**

"Taoyuan Autodidactic 3.0 Lab" has a dedicated website (<http://www.talab3.tw/>) with on-demand video and course database, authorized online platform, virtual reality equipment, individual study and group discussion space, scientific experiments and smart learning classrooms, etc. The monthly visitor reaches 600 to 800 students. Meanwhile, partnerships with universities are entrenched to allow students to take advance placements, explore personal interests, and lay the foundation for learning.

#### **Hosting of Keynote Speeches, Courses and Seminars**

In addition, 8 to 10 keynote speeches on classic topics are held, 10 sets of exploratory courses are designed, and Taoyuan City experimental education seminars and results presentations are held on an annual basis.

### **4.27 Taoyuan City Atypical Education System Plan**

To allow the "seeds" of different education concepts to develop in a balanced way, Taoyuan City implements the "Waldorf Experimental Education Plan" applied in 2 classes for each grade in Renmei Junior High and Elementary School, 3 classes in Waishe Elementary School, and 1 dedicated Waldorf class in Xinwu High School. In the future, following the complementing of regulations, a Waldorf school covering education from preschool to high school is expected to be established in Yangmei District.



## A Safe Learning Environment

### 4.28 New School Buildings for Municipal High, Junior High, and Elementary Schools Plan

#### One High School per District

Taoyuan City promotes the "One High School per District" policy which students to receive high school education nearby, reducing the hard work of commuting across districts and narrowing the gap between urban and rural areas, so that all students can have a safe and high-quality learning Environment. The goal of community-based high school is expected to be achieved with Xinwu High School beginning its enrollment in 2017, followed by Luo Fu Senior High School in Fuxing District expected to be completed for enrollment in 2022.

#### Requirement Evaluation for New School Establishment

For districts with increasing school population, Taoyuan City pre-evaluated the schooling needs to timely planned new schools to implement education fairness and justice. As of the end of April 2022, the schools under construction include 2 elementary and junior high schools in total-Qingyuan Elementary School in Zhongli District and Wenqing Elementary School in Guishan District, and the schools under preparation include Longxing Elementary School (tentative name) in Zhongli District, Huanbei Elementary School (tentative name), Chaoyin Elementary School and Rende Elementary School.

### 4.29 Old and Unsafe Buildings and Old Schools Renewal Plan

#### Old and Unsafe Building Reconstruction and Renewal

Due to Taiwan's location in the Pacific Rim seismic zone subject to frequent seismic activities, Taoyuan City conducts earthquake resistance assessments year by year for 1,820 school buildings within its jurisdiction, and demolition and reconstruction or earthquake-resistant reinforcement of school buildings with safety concerns was carried out to create a safe campus environment.

#### Plan Results

- From 2015 to 2019, demolition and reconstructions to 11 schools including Jiadong Elementary School, Longtan Elementary School, Xinming Elementary School, Cheng-gong Elementary School, Ruimei Elementary School, Guanyin High School, Yangmei Elementary School, Ba German Elementary School, Longtan Elementary School, Neili Elementary School and Jianguo Guo Middle School were made.
- From 2020 to 2022, with subsidies from the Ministry of Education, 5 schools including Nanmen Elementary School, Ximen Elementary School, Neizha Elementary School, Zhuwei Elementary School and Zhongli Elementary School received demolition and reconstruction.

### 4.30 Anti-Bullying Policy for Creation of Friendly Campus

Zero tolerance for bullying on campus is not only to protect human rights, but also to demonstrate the spirit for practicing the value of education.

#### Promotion of Campus Anti-Bullying Events

Taoyuan City is committed to promoting campus anti-bullying events, including hosting of friendly campus week in the first week of each semester, integrating "prevention of campus bullying" into education promotion activities. In 2021, a total of 220,000 participants from 302 schools (elementary, junior high, and general and vocational high schools) have participated in the events.



#### Hosting Campus Human Rights and Law-Related Education

3 school bullying prevention workshops have been. Furthermore, the authority cooperates with Taoyuan Bar Association to conduct 50 friendly campus human rights and rule of law education in 2021. It is hoped that young people may be assisted in learning legal literacy, and they may become future owners with knowledge and compliance with the law, thereby establishing a safe, non-violent learning environment.

#### Promoting New-Generation Anti-Narcotics Strategies on Campus

Taoyuan City also promotes the school's new-generation anti-narcotics strategy, and strives to create a healthy and narcotics-free learning environment through diverse activities such as drama, dance, board games, and 3D movies. In 2021, a total of 3,500 people from 80 schools (elementary, junior high, and high schools) have participated in relevant activities.

### 4.31 Guard Volunteer Plan

#### Subsidies for Guard Volunteer Gears

In order to maintain the safety of students going to and from school, each school in Taoyuan City recruits traffic guide volunteers and provides subsidies for guide gears, including traffic cones, reflective vests, reflective raincoats, rain boot covers, reflective caps, and guide flags (incl. poles), guide coats, etc., to improve the identification of guide volunteers and furthermore enhance the safety of guide volunteers on duty.

#### Hosting of Guide Volunteer Training

Including volunteer regulations, rights and interests, service content, basic traffic regulations and concepts, traffic directing, etc.. Guide volunteers are also insured with accidents and injury medical insurance for guide volunteers, so that they may work safely and assured.

#### Setting of Traffic Calming Zones

Taoyuan City also attaches great importance to the human-oriented traffic design around the school, meanwhile setting up traffic calming zones to form a safe school environment (See Goal 11).

# Gender Equality

## Achieve gender equality and empower all women and girls.

With the progression through times and the promotion of the concept of gender equality, modern women have relatively equitable rights to education and work, and women with outstanding performance are common in all walks of life. However, there are still more men in high-level decision-making roles in public participation occasions or in the workplace than women, and regardless of whether married women have jobs, the conventional concepts still have the division of housework and childcare and care as responsibilities to women. Therefore, gender equality is a work requiring long-term promotions.

Taoyuan City established the country's second gender equality office directly affiliated with the Mayor's office, and has full-time manpower to jointly plan, integrate and assist all Taoyuan City agencies to comprehensively promote gender equality-related actions. Meanwhile, public-private cooperation with a variety of local ethnic groups and professional service units is taken in the promotion of solutions related to gender equality. In the future, the authority will formulate social investment strategies based on the core concept of "social investment" and the four orientations including "human capital, economic capital, social capital, and cultural capital" to formulate social investment strategies, meanwhile promoting gender equality after accumulating benefits and enriching capital.

### **Eliminating Gender Discrimination and Gender Awareness Empowerment 079**

- 5.1 Elimination of Violence against Women
- 5.2 Breaking Through Stereotypes of Traditional Customs
- 5.3 Girls Empowerment
- 5.4 New Immigrants Digital Learning Empowerment
- 5.5 Promoting Diverse-Gender-Friendly Environment
- 5.6 Equality for Same-Sex Marriage

### **Facilitating Economic Strengths of Female Friendly Workplace 081**

- 5.7 Employment Facilitation and Empowerment
- 5.8 Startup Guidance and Subsidy
- 5.9 Balancing Work and Family

### **Strengthening Social Participation of Female and Reinforcing Women Power 082**

- 5.10 Facilitating Female Decision-Making and Participation
- 5.11 Supporting and Cultivating Women Groups

### **Ensuring Justice in Resources Distribution to Build a Gender-Friendly Environment 083**

- 5.12 Friendly Public Spaces
- 5.13 Accessible Welfare Services
- 5.14 Friendly Medical Environment



## **Eliminating Gender Discrimination and Gender Awareness Empowerment**

Taoyuan City has been actively promoting the elimination of all forms of discrimination against women since the establishment of the Gender Equality Office. With the vision of "enhancing women's empowerment and promoting gender equality", the four gender equality concepts centering "gender-friendly, gender equitable, motherhood protecting, and female empowering" are promoted, respectively operating the Gender Equality Committee platform to promulgate Taoyuan City's gender equality and women's rights-related programs. In the meantime, gender mainstreaming and integrating gender equality into various bills and policy measures is promoted to fully implement Taoyuan City's gender equality policy guidelines.



## 5.1 Elimination of Violence against Women

### Hosting of Diverse Gender Equality Advocacy Events

Domestic violence and sexual assault, sexual harassment and sexual exploitation and other prevention and advocacy events are held through multiple advocacy methods. In addition, the community anti-riot base stronghold plan is implemented to train local community anti-riot seed personnel, cooperate with communities and civil organizations, with regional division of labor with service recipients in conjunction with communities and NGOs are taken with a view to effectively and promptly provide welfare services and assistance related to cases of violence.

### "Gender Equality Education on the Go" Drama Tour

In addition, starting from the education aspect and through the "Gender Equality Education on the Go" drama tours in various districts of Taoyuan City, the authority expects to enhance students' correct understanding and self-protection of domestic violence and sexual assault prevention, and also make the concept of sexual equality rooted from childhood.

## 5.2 Breaking Through Stereotypes of Traditional Customs

### Non-Discrimination in Customs and Rituals

In view of the existence of male superiority over female and gender inequality in various religious and traditional folk rituals, through the encouragement to female in the mastering of religious rituals, the female status in religion can be enhanced while the stereotype of male as only roles in religious and temple rituals can be overturned. In addition, the certification items of public interest group have also been included in gender equality indicators with an expectation to achieve the benefits of advocacy and imitation through public praise.

### Cultural and Art Gender Equality Promotion Plan

In addition, through the cultural and art gender equality promotion plans in combination with art and cultural activities Taoyuan City, operation film museum, video exhibition, company-built discussion platform, etc. are engaged in the promotion of gender equality concept.

## 5.3 Girls Empowerment

To echo the UN's valuing, investment and empowerment of girls, allowing the deserved human rights and care for girls, Taiwan has announced October 11th each year as the "Taiwan Day of the Girl".

### Hosting Diverse Events to Publicize Girls Equality

Besides proactive organization in the construction of Taoyuan Girls' Center, series of events in forms with greater diversity and closer to the girls are held, calling attention to topics related to girls' equality from all walks of life. Through training and sharing, the City will actively implement various services to promote girls' physical and mental health, education, personal safety, and improve traditional etiquette and customs, so as to help Taoyuan girls have the vitality, self-confidence and courage to meet challenges at different stages of life.

## 5.4 New Immigrants

### Digital Learning Empowerment

"Computer Information or Internet Marketing" courses are opened at the New Immigrants Empowerment Center to enhance the competitiveness of new Immigrants in the employment with respect to information technology; in addition, new immigrants community care bases in various districts are incorporated as local digital learning-related resources for provide local and accessible digital learning environment to increase the chances of new immigrants in digital participation and narrows the digital information gap of new immigrants.

## 5.5 Promoting Diverse-Gender-Friendly Environment

In view of the increasing diversity of marriage and family types, in order to increase the public's understanding and support of the living conditions of people with different genders (including different sexual orientations and gender identities) and family members of same-sex couples, and to enhance the rights and interests of multi-sex and domestic partners , The Gender Equality Office promotes multi-gender-friendly environment through cross-department cooperation, self-produced multi-gender promotional micro-films, gender equality seminars, advocacy lectures, etc., to enhance the public's awareness of gender diversity. Meanwhile, the titles as stated in official forms are under review and adjustments to enhance government agency friendliness in gender diversity; meanwhile, by integrating the diverse gender services such as inventory of service measures for same-sex marriage registrants in the City, preparation of service promotions, provision of LGBT-related health promotion courses, the City actively creates a gender-friendly environment to achieve the city vision of respect for diversity and gender equality.

## 5.6 Equality for Same-Sex Marriage

**Before the legalization of same-sex marriage, Taoyuan City** availed the registration for same-sex couples as "same-sex couples" in the household service administration information system as the respect, understanding and accommodation to peoples with different sexual orientations. From March 14, 2016 to the end of March 2022, a total of 498 same-sex couples have filed their registrations in the City, including 107 male couples and 391 female couples. On May 17, 2019, Taiwan passed the Act for Implementation of J.Y. Interpretation No. 748, which came into force on May 24, 2019, on which Mayor Cheng Wen-Tsan witnessed the marriage registration of same-sex couples from the first day of registration to the Zhongli District Household Registration Office. The City expects to make the society understand and tolerate differences, and believe that the pursuit of a happy and common life is everyone's right. From May 24, 2019 to 2022 and by the end of March 2022, 851 same-sex marriage registrations have been made in the City, including 224 male couples and 627 female couples.

## Facilitating Economic Strengths of Female Friendly Workplace

Taoyuan is a big industrial and commercial city in Taiwan. In order to improve the economic strength of women and a friendly workplace environment, the City Government integrates social, economic and labor policy perspectives, and promotes the three major strategies "enhancing women's employment and vocational empowerment, Startup counseling and loan subsidies, and creating a friendly nursery environment", providing a friendly workplace environment balancing family and work, and promoting women's economic participation through sound policies and empowerment, enhancing women's functions and professions, financing approval, and opportunities to enter the market.

## 5.7 Employment Facilitation and Empowerment

### Yu-Tou-Lu (Go To Work) Vocational Training Site

Through the Taoyuan "Yu-Tou-Lu (Go To Work)" Vocational Training Site in combination with local training resources, vocational training education is offered to provide training opportunities for specific demographics, training opportunities for new immigrants and indigenous women, meanwhile providing new immigrant trainees to apply for temporary childcare grants during vocational training.

### Taoyuan Sisters Economic Empowerment Plan

In order to help economically disadvantaged women increase their income, the "Taoyuan Sisters Economic Empowerment Plan" is promoted by conducting professional courses to empower women including learning food and handicraft skills. In the meantime, through physical and online channels, multiple sales channels and exposure opportunities can be increased for improved sales efficiency.

### Training of Second Specialty for Women Seeking Second Careers

Training of Second Specialty for Women Seeking Second Careers is made, with employment resources and social participation measures provided.

## 5.8 Startup Guidance and Subsidy

In order to relieve the financial stress at startup stage, through "Working Guidelines for Self-Reliance and Business Starting Subsidy", "Youth Entrepreneurship Base Entrepreneurship Consultation and Guidance", "Youth Startup and SME Credit Guaranteed Financing Loans", "Incentive to SMEs Industrial and Commercial Exhibition Subsidy Plan", and various startup counseling and subsidy plans, meanwhile assisting women to obtain startup loans and providing counseling, diagnosis, guidance and other measures for solutions, assisting women in employment and startup and improving their chances of obtaining financing, receiving education training, employment, etc., thereby improving women's economic strength.

## 5.9 Balancing Work and Family

### Encouraging Enterprises in Creating a Friendly Workplace

With respect to workplace environment, the City helps companies set up childcare facilities and breastfeeding rooms. In the meantime, the country's first employer incentives is granted to encourage employers to create a friendly workplace environment. In addition, by commanding the Gold Medal Enterprise Friendly Workplace Plan, companies are encouraged to furnish childcare facilities and measures, and develop diverse types of working opportunities (e.g. part-time work, flexible working hours). Meanwhile, the "Checklist of Friendly Workplace for Outstanding Companies in Taoyuan City" has been added to help employers check the friendliness of the workplace. In addition, the country's first model institution selection for maternal health protection is organized to encourage companies to implement maternal health protection measures, taking into account the maternal protection of female laborers and equal employment rights.



## Strengthening Social Participation of Female and Reinforcing Women Power

### 5.10 Facilitating Female Decision-Making and Participation

#### Regulating the Member Gender Ratio of

#### City Government Task Forces

With the improvement of women's education and entry into the labor market, many outstanding women in the public fields can be seen. In order to improve women's participation in public decision-making and empower women, the gender ratio of any member of the City Government task forces shall not be less than 1/3.

#### Advocacy on Gender Ratio in Neighborhood Heads Assumption

In addition, in recent years, the number of women participating in grass-roots services has been increasing. In order to deepen the concept of gender equality in the selection and assumption of neighborhood heads, plans such as the "Gender Equality Implementation Plan for Selecting and Assumption of Neighborhood Heads" and "333 Rise of Female Neighborhood Heads" are promoted, encouraging women involvement in public affairs; in the meantime, the emphasis on gender ratio of men to women by 2:1 in the selection and assumption of neighborhood heads are promoted to chiefs of villages. Furthermore, a system is built to include gender equality in the assessment indicators of district administration. The City strives to improve the opportunities for women to participate in decision-making power.

#### Encouraging Female Participation in the Engagement of Union Affairs

With respect to trade unions, the City promotes the implementation of trade union management growth camp implementation plans- trade union management gender equality training camp to empower trainees with gender equality awareness, and encourage women to participate in trade union affairs and operations by actual participation in decision-making, thereby strengthening training and improving the leadership capacity of female trade union management and gradually reducing the gender gap within. The percentage of female members amongst trade union management is about 32.35% as of December 2021.

### 5.11 Supporting and Cultivating Women Groups

#### Supporting Women Groups in Public Participation

To facilitate opportunities for public participation of different types of women groups, through inventory of women groups in the City, the City expects to understand the attributes and goals of each group, and furthermore conduct circuit counseling and women's group empowerment courses by attributes and needs; meanwhile, regular women's group contact meetings are held to provide guidance to women's groups in the application for policy-based subsidy resources for organizing events based on digital, economic, care and health issues, so as to enhance women groups' participation in the promotion of women's rights and gender equality.

#### Hosting of Lectures and Advocacy Events

To enhance the public participation of indigenous women, by cooperating with officials of the Taoyuan City Aboriginal Affairs Organization and 64 indigenous groups and churches in Taoyuan City, the City expects to organize lectures and advocacy activities, to encourage indigenous women to participate in public affairs and to reduce the number of officials (such as ethnic leaders) gender gap, thereby enhancing the empowerment of indigenous women, and promote gender equality.

#### Encouraging Clubs of Various Categories to Enhance Percentage of Female Committee Members

In the agricultural and fishermen's associations, in addition to conducting gender awareness empowerment courses through housekeeping classes, production and marketing classes, membership meetings, and directors and supervisors meetings, women are encouraged to participate in public affairs and increase their willingness to participate in decision-making. Taoyuan City will also increase the proportion of female cadres in directors and supervisors. Included in the assessment bonus project to implement gender equality Goal. By the end of 2021, the proportion of female management in farmers' associations was about 64.1%, the proportion of female management in fishermen's associations was about 61%, and the proportion of female management in community development associations was about 40%.



## Ensuring Justice in Resources Distribution to Build a Gender-Friendly Environment

Through the inclusion of gender perspectives in the fields of health, environment, transportation, etc., the City expects to increase the willingness to bear children, to improve the safety and friendliness of toilets at gas stations and public toilets under the jurisdiction of Taoyuan City, to increase the proportion of low-floor buses, to improve the friendliness of bus waiting facilities, and in major commercial areas, station and important buildings, promote the leveling plan of the arcade, and create an accessible environment to promote gender-friendly facilities and health care and other environments.

### 5.12 Friendly Public Spaces

#### Reviews on Public Spaces in Taoyuan City

In order to create a friendly Environment of gender equality and improve the walking safety of citizens in the public environment, Taoyuan City has set out to review the public spaces of the City, including roads, sidewalks, public toilets, breastfeeding spaces, mass transportation, etc., of their conformity to the universal design concept of diversity and friendliness.

#### Building a Convenient and Friendly Public Environment

The City promotes various improvement plans, including adding parking spaces for women and children, gender-friendly buses - enhancing the urban bus-friendly environment, promoting the leveling of arcades, friendly pedestrian environments, public toilets, gender-friendly, and creating safe parking areas, etc., to build convenience and space-friendly public environment.

### 5.13 Accessible Welfare Services

#### Inventory and Improvement on Toilets

The City cooperates with the gas station management unit to comprehensively inspect the public toilets of the Taoyuan City gas station, and carry out the inventory and improvement plan of friendly facilities; meanwhile, the City cooperate with the Taoyuan MRT Company to set up diaper tables in the MRT Green Line Men's and Women's toilets, breastfeeding rooms, and parent-child toilets to strengthen the concept of gender equality and the division of housework.

#### Performing Various Measures to

#### Encourage Female Engagement in Sports

To encourage women to participate in sports, Taoyuan City implements the following measures:

- Setting up women's groups for the organization competitions or activities at all levels to provide opportunities for women to participate, and hire additional female referees.
- Subsidized associations for women's sports activities.
- In the National Sports Center, breastfeeding rooms, parent-child parking spaces, women's priority parking spaces, and special areas for women and the elderly are set up.
- Offering women's sports courses and offer preferential programs for women's sports to increase women's willingness to engage in sports and the proportion of their use.

### 5.14 Friendly Medical Environment

#### Organizing Premarital and Newlywed Education Courses

Taoyuan City provides pre-marital and newly-married education courses with gender awareness and incentives, and strengthens partners' reproductive care responsibilities and diminishes liabilities of women as family caregivers.

#### Medical Staff Gender Education Training Plan

The City's hospitals under guidance are encouraged to continue to conduct gender equality education training courses, cultivate gender awareness of medical personnel, and provide fair health, medical and care resources, and gradually plan and build a gender-friendly environment in order to improve the quality of gender-focused medical care, and create tolerant and respectful gender-friendly environment with diverse differences. 57 on-campus education training courses with 13,206 participants were held in 2021.

# Clean Water and Sanitation

## Ensure availability and sustainable management of water and sanitation for all.

Drinking water sanitation and sustainable utilization of water resources are the emphases. Taoyuan City is a prosperous city with industry and commerce, and its water consumption should not be underestimated. The City takes into account the needs of citizens' living and urban development, not only hope that citizens have water available, but also hope that citizens can use water with peace of mind. Taoyuan City is committed to improving the water quality of rivers, promoting the construction of on-site water purification treatment, public sewage sewers, water resource recycling centers, etc., through the river education center to implement environment education, public and private cooperation to protect the water environment, practice the determination of sustainable water resources management, and implement water use justice.

### **Tap Water for Use under Equality and Prevalence 084**

6.1 Improving Water Supply Quality and Enhancing Water Use Safety

### **Clean and Sanitary Water Sources 085**

6.2 Shimen Reservoir Total Phosphate Reduction Plans  
6.3 River Pollution Remediation and Business License Inspection Plan  
6.4 Taoyuan City River Basin Total Control Management Plan  
6.5 Laojie River Xinshi Park Constructed Cobble Bed Aeration Facilities  
6.6 Ecological Water Quality Purification

### **Proper Handling of Wastewater 085**

6.7 Expediting Sewage Construction  
6.8 Industrial Area Wastewater and Sewage Treatment  
6.9 Business Wastewater Recovery and Reuse Scheme

### **Enhancing Water Use Efficiency 086**

6.10 Promotion of Reclaimed Water

### **Integrative Water Resources Management 086**

6.11 Underground Pipeline Smart Transformation

### **Protecting and Restoring Water Ecology Systems 087**

6.12 Ponds Transformed into Detention Basin Parks

### **Guarding Water Resources by the Mass 087**

6.13 River Education Center  
6.14 Water Environmental Protection and Patrol Control Plan  
6.15 Toxic and Concerned Chemical Substances Flows Audit

## **Tap Water for Use under Equality and Prevalence**

### **6.1 Improving Water Supply Quality and Enhancing Water Use Safety**

**The City solves the water demand for people's livelihood for many years and increases the number of people with tap water supply to achieve water justice**

- (1) The penetration of tap water in Taoyuan City is 96.22%, and there are still some areas without tap water. In order to meet the water demand for people's livelihood and achieve water justice, Taoyuan actively promotes the construction of tap water and subsidizes people in areas without tap water to install tap water infrastructure. Priority is given to areas such as low, high land, surrounding reservoirs and water shortages.
- (2) The City transacts the subsidy plan for the water supply extension project to subsidize people in areas without water supply to apply for tap water infrastructure. From 2015 to 2021, the City government has allocated a total of NT\$ 340 Million in subsidy funds, benefiting a total of 1,581 households.
- (3) The City organizes the external pipelines subsidy plan for tap water user infrastructure installation aiming for low- and middle-income households, households supplied with water at quality unable to meet the standard, and households requiring such installation under government policies and regulations. From 2015 to 2021, the central and local governments have jointly invested in a total of NT\$ 23.61 Million, a total of 1,297 households benefited from the subsidy.

### **Booster Stations Built under City Government Coordination to Tackle Highland Water Supply Pressure Issue**

Yuanshan Booster Station in Fuxing District, Xinfeng and Neizha Booster Stations in Daxi District, and Xinsheng Booster Station in Longtan District are set up.

## **Clean and Sanitary Water Sources**

### **6.2 Shimen Reservoir Total Phosphate Reduction Plans**

#### **Investigation and Monitoring of Water Quality and Volume at Dahan River**

In order to ensure the water quality of Shimen Reservoir, Taoyuan City continues to conduct surveys and monitoring of the water quality and quantity of the main tributaries in the upper reaches of Dahan River as the basis for the reduction of total phosphorus pollution in the water source protection area.

#### **Performing Water Resources Conservation Advocacy**

The City evaluates the impact of pollution discharge along the upper reaches of Dahan River on rivers and reservoir water bodies, conducts education advocacy on water conservation, and promotes environmental protection for the public, tourism and retail businesses. In the meantime, the environmentally friendly detergents have been promoted.

#### **Integration of Measures for Mutual Promotion of Water Resources Conservation**

The City integrates measures related to phosphorus and nitrogen reduction, and establishes a horizontal communication platform to promote water resources conservation. In 2021, the Carlson Index of Shimen Reservoir was 47.

### **6.3 River Pollution Remediation and Business License Inspection Plan**

In order to improve the length of seriously polluted rivers in the City and promote the remediation of rivers in key river basins, the City conduct river pollution source analysis, river water quality and quantity monitoring, heavy metal reduction, inspection and control of monitored enterprises, permit review and inspection to improve river water quality. Average concentration of river BOD in 2021 was 11 mg/L, and the river is slightly and not (slightly) polluted rate is 58.1%.

### **6.4 Taoyuan City River Basin Total Control Management Plan**

"Total Control Method of Waste (Sewage) Water Discharge in the Xinjie River and Puxin River Basin of Taoyuan City" and "The Total Control Method of Waste (Sewage) Copper Discharge in the Nankan River Basin of Taoyuan City" are announced to monitor and track the total water quality of the river. In 2021, a rolling review was carried out to five major rivers in Taoyuan City (Nankan River, Laojie River, Shezi River, Dahan River, and Fuxing River), with an average passing rate at 99%.

### **6.5 Laojie River Xinshi Park Constructed Cobble Bed Aeration Facilities**

Constructed cobble bed aeration facilities are set up in Laojie River Xinshi Park to intercept domestic sewage in the densely populated section of the upper reaches of Laojie River. Meanwhile, some Laojie River water are channeled hereto for combined purification treatment. The daily interception water volume is 30,000 tons, which is the largest in Southeast Asia. The river pollution removal rate can reach more than 80%.

### **6.6 Ecological Water Quality Purification**

The City improves water quality according to the water quality monitoring results of the water quality monitoring stations over the years. In view of the long construction period of sewage and sewer system engineering and user takeover operations, in order to improve the water quality in advance and the living environment of residents around the river, and effectively reduce pollution, Daxi District Yuemei Wetland Ecology Park, water purification of drainage water in the upper reaches of Dahan River in Daxi District (Phase 1 and Phase 2), Takoham Wetland, water quality improvement project in Shunshipu Settlement, water quality improvement project in Baiji Area Upper reaches of Shimen Reservoir in Daxi District, on-site treatment facilities in Baling area, Taoyuan Chaoyang Park Constructed Cobble Bed, water quality purification of Nankan River in Taoyuan area, water quality improvement in the upper reaches of Nankan River in Guishan District, etc. are performed in conjunction with on-site water quality purification, with a total treatment volume at 7,425 tons, with a view to improve the water quality of the river, restore the ecology and achieve the goal of sustainable recycling of water resources.

## **Proper Handling of Wastewater**

### **6.7 Expediting Sewage Construction**

(1) The overall promotion strategy of the City's sewage and sewer construction adopts the government's public. The two ways of running and promoting non-governmental participation are in parallel. At present, 12 systems and 3 sewage collection areas have been planned, and the promotion is accelerated by a multi-pronged approach:

#### **A. 9 Systems Built under Official Organization and 3 Sewage Collecting Areas**

Fuxing, Linkou South District, Shimen, Daxi, Yangmei, Xiaowulai, Airport MRT A7 Station, Xinwu Guanyin and Aerotropolis; 3 sewage collecting areas include Dazhu, Longshou Hui long and Pingzhen Shanziding.

#### **B. 3 Systems Promoted under Participation Promotions**

Taoyuan BOT, Zhongli BOT and Puding BOT systems.

(2) Before the City's upgrade, only a total of 27,726 households underwent pipeline connection, and the penetration was only 5.46% (4 members per household). The City expedites promotion after its promotion. As of June 2022, the user pipeline connection had a penetration at 32% (4 member per household), gaining an increase of nearly 6 times and the top amongst the Six Special Municipalities.

(3) The sewage treatment plant in the City before promotion had a treatment volume at 41,825 tons per day-the volume about 19.5 international standard swimming pools. After promotion, the construction of sewage sewers was accelerated, as of June 2021, it has been increased to 157,825 tons per day-the volume about 75 international standard swimming pools, an increase of 3.8 times.

## 6.8 Industrial Area Wastewater and Sewage Treatment

Taoyuan City attaches great importance to the management of industrial waste and sewage. The industrial park needs to set up a sewage treatment plant according to the law, and build a sewage pipeline. Only when it meets the standards can it be discharged into the sewage sewers, and regular sampling and testing at the discharge outlet and water intake. The waste water in 12 industrial areas of the sewage treatment plant is inspected and controlled, including pollution verification, holding self-management meetings, sampling of waste water discharge outlets, and inspection of rainwater discharge outlets.

## 6.9 Business Wastewater Recovery and Reuse Scheme

### Joint Supervision Group Established to Supervise Companies in the Improvement of Water Quality

A company located at the junction of Taoyuan City and Hsinchu County was protested by the residents of Hsinchu County and environmental protection groups due to its discharge of industrial wastewater into Xiaoli River. Taoyuan City and Hsinchu County established a joint supervision group to supervise the progress of water quality improvement of the company. The company has, in 2015, completed the "Manufacturing Process Wastewater Full Recovery and Zero Discharge" plan, and none of its wastewater generated in its manufacturing process was allowed to be discharged to Xiaoli River, and a water resources education pavilion was set up to promote popular science and environment education.

### Promotion in Cooperation to Enhance Business Wastewater Recovery and Reuse Technology

In order to take into account the business operation and the sustainability of the environment, the City cooperates with companies to promote the recovery and reuse technology of business wastewater to increase the amount of business wastewater recovered and reduce the discharge of wastewater into rivers with a view to improve river water quality. As of the end of 2021, the amount of wastewater recycled is 1,200CMD, while the water conductivity, ammonia nitrogen and total phosphorus in Xiaoli River have been decreased, the number of fish species in ecological survey increased, and the river water quality and ecology were significantly improved.

## Enhancing Water Use Efficiency

### 6.10 Promotion of Reclaimed Water

- (1) In order to achieve SDGs 6.4 "By 2030, substantially increase water-use efficiency across all sectors and ensure sustainable withdrawals and supply of freshwater to address water scarcity and substantially reduce the number of people suffering from water scarcity.", the City actively releases water from the water resource recycling center to stabilize The development of emerging water resources.
- (2) In 2016, the "Taoyuan City Reclaimed Water Evaluation Plan" was launched to evaluate the potential for reuse of the discharge water of the City's water resources center, and in 2018, the North Taoyuan Reclaimed Water Plan was launched, followed by execution of the North Taoyuan reclaimed water BTO Plan investment contract by the most preferred applicant Baoding Reclaimed Water Co., Ltd.. It is expected that the first phase of the plan in 2025, 40,000 tons of reclaimed water can be supplied per day for industrial use in order to stabilize industrial water, and reduce the pressure of tap water supply, and move towards the goal of resource recycling.
- (3) On October 13, 2020, the City signed a contract for reclaimed water use with the Industrial Development Bureau of the Ministry of Economic Affairs, CPC Taiwan and Oriental Petrochemical Company to respond to the concept of circular economy and implement the development of multiple water resources and the sustainable utilization of water resources.



## Integrative Water Resources Management

### 6.11 Underground Pipeline Smart Transformation

- (1) In order to improve the management of groundwater resources, the City becomes the first in the country since 2017 to promote the smart groundwater management plan, and installs electronic water meters and wireless transmission equipment in groundwater wells through the integration of sensing technology of the Internet of Things (IoT), which includes electronic water meter and wireless transmission instruments (smart water metering equipment) at underground water wells for real-time return water consumption records to Taoyuan City Government system platform and instant grasp of groundwater water conditions in order to achieve the sustainable goal of smart data resources.

- (2) In July 2019, the "Taoyuan City Groundwater Water Rights Installation and Water Metering Equipment Autonomy Regulations" was announced, requiring large-scale groundwater pumping households (those with annual approved water rights of more than 100,000 tons) who use industrial water or other purposes to install smart water measuring equipment. As of the end of 2021, 418 sets of water measuring equipment have been installed to grasp the groundwater situation in the City.
- (3) The City was awarded the Outstanding Application Award of the "2018 Cloud Internet of Things Innovation Award" and the smart government category of the "2019 Smart City Innovation Application Award".

## Protecting and Restoring Water Ecology Systems

### 6.12 Ponds Transformed into Detention Basin Parks

- (1) The feature of Taoyuan City water culture is pond, which is to activate the pond function. In addition to opening up as a retention basin with irrigation functions, for areas with few parks, the existing pond is used to rebuild the retention basin parks, and at the same time, it can achieve disaster prevention and hydrophilicity. Function.
- (2) At present, the Zhongyuan Pond Ecological Park detention basin has been completed, and three detention basins, including "Dashu Pond Ecological Park", "Danan Pond Ecological Park" and "Longshan Pond Ecological Park" are currently under applications. The construction of "Deyuan 74B Detention Basin" has been approved by the Construction and Planning Agency, MoI, with corresponding contracting completed, set to initiated in July 2022. In Xinwu District, Dongshi Pond has been preliminarily selected for planning and construction as a pond park, with a projected total flood retention capacity at 575,000 cubic meters for improvement of area of flooding at 113 hectares.
- (3) The City actively improves the living environment and rest space around the pond, creates the first pond patrol volunteer team in the country and plans a training guide course to protect the pond ecology.

## Guarding Water Resources by the Mass

### 6.13 River Education Center

#### Taoyuan City River Education Center

It is the first education center with the theme of "River" in Taiwan. Through the geographical space close to the old street and the river, and the historical construction of the ancient brick building of the Hakka Sanheyuan, it serves as a cultural and historical base for the public to trace their roots and explore the experience of rivers. At the same time, through the combination of space and experience, it is transformed into a sustainable attitude. From the level of human history to ecological education, the education effect is gradually achieved.

#### (1) Outdoor commentary area

There is a scaled-down version of Laojie River, showing the ecological construction method of transforming Laojie River with actual landforms.

#### (2) River Ecological Education Museum

Through text explanations, interactive installations and miniature models of the whole area, visitors can learn more about the "Great Cover Removal Project".

#### (3) Laojie River Story Museum

Through the restoration of the traditional architectural space preserved by the private houses and display of historical photos, the museum intends to present the relationship between the old street and the people in the past.

## 6.14 Water Environmental Protection and Patrol Control Plan

### Water Environment Patrol

Taoyuan has many natural water environments, including coasts, rivers, ponds and reservoirs, etc., all of which need to rely heavily on the assistance of Water Environment Patrol. Since 2016, Water Environment Patrol has been recruited. As of the end of 2021, there are 67 Water Environment Patrols, with the number of team members. With a total of 2,661 people, both the number of teams and the number of volunteers are the highest in the country.

### Guidance to Civil Patrols

Taoyuan City encourages environmental protection groups, companies and the community to take the initiative to set up Water Environment Patrol. It conducts patrol team visits and counseling every six months, and trains seed teachers and assists in reporting dirty spots. Through education training, rivers and beaches cleaning, volunteer training and other activities, combining the strength of the government and the people, we jointly maintain the water environment in Taoyuan.

### Effects of Water Environment Patrol

In 2021, Water Environment Patrol held 1,466 activities such as river and beach cleaning, water quality monitoring, and education on ecological conservation; 11,369 reports, inspections and cleaning of dirty spots on river banks; 200 river cases were reported and seized, which timely deterred malicious pollution and effectively improved the quality of Taoyuan City's water environment. In the future, it can be expanded to environmental testing, ecological conservation and other fields, so that the water of Taoyuan City's rivers will become cleaner and the overall landscape may be beautified.

## 6.15 Toxic and Concerned Chemical Substances Flows Audit

In order to avoid environmental pollution caused by toxic and chemical substances and affect the safety of life and property of the citizens, Taoyuan City has strengthened the management of toxic chemical substances and operating manufacturers, and regularly conducts inspections on the upstream and downstream operators with abnormal operations to reduce the hazards of toxic chemical substances.

# Affordable and Clean Energy

**Ensure access to affordable, reliable, sustainable and modern energy for all.**

Taoyuan City is the largest industrial city in the country. In order to ensure that everyone can obtain economical, reliable and sustainable energy, the City will jointly develop green energy through citizen cooperation, improve energy efficiency, drive the development of green energy industries, and achieve the four major visions including non-nuclear, low carbon, coal reduction, and green energy. The “Green Energy Project Promotion Office” was established in 2018, integrating energy generation, energy storage and energy saving plan resources, leading Taoyuan from an industrial city to a green industrial city.

## **Developing Renewable Energy 088**

7.1 Taoyuan Green Power City Plan

7.2 Plan for Waste-to-Energy from Waste Treatment Facilities

## **Enhancing Energy Efficiency 090**

7.3 LED Smart Street Light Replacement Plan



## **Developing Renewable Energy**

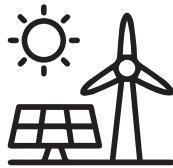
### **7.1 Taoyuan Green Power City Plan**

#### **Promoting Energy Transformation Policies**

Taiwan currently has about 84% of its power generation by thermal power, about 10% by nuclear power, and about 6% by renewable energy. The country is actively promoting the energy transition policy. In 2025, the non-nuclear homeland goal has set the proportion of power generation by renewable energy to be 20%. To ensure that everyone can obtain economical, reliable and sustainable energy, Taoyuan City is committed to promoting energy transformation, with three strategies of "improving the installation of local renewable energy", "improving the efficiency of electricity use in the City" and "strengthening local energy governance" as the main axes of its policies, and 9 measures were planned to be implemented accordingly.

#### **Promoting Power Saving Applications and Services to Strengthen Power Control Capabilities of the City**

In response to the amendment to the Electricity Act and to meet the central government's 27GW (gigawatt) grid-connected demand for renewable energy power generation equipment in 2025, and to maintain a stable power supply policy goal, TaiPower has officially launched a power trading platform in November 2021, breaking away from the traditional idea of building or expanding power plants, introducing private decentralized power resources into the power grid, and ensuring the safety and stability of power supply in the power system. Taoyuan City encourages power users to install energy storage equipment in order to develop virtual power plants and strengthen urban energy control capabilities. By soliciting the "Powerful Teammate", it is expected that a sharing economy can be created, with power grid stability maintained for strengthening the overall development of the power market.



### Promoting Diversified Renewable Energy Policies

Taoyuan City is the largest industry city in the country, with the largest number of electricity consumers in the country with a contracted capacity of 800kW (kilowatt) and above, and industrial electricity consumption accounts for 16.7% of the country's total industry electricity consumption. Taoyuan promotes the policy of multiple renewable energy, and the cumulative installed capacity of renewable energy has reached 668.8MW (million watts) in 2021, the highest among the country and cities in Northern Taiwan, among which the solar optoelectronics installation capacity is 432.8MW (million watts), an increase of about 83 times compared with that before the City promotion (2014). The goal is to reach cumulative installation capacity of renewable energy at 1.2GW (billion watts) by 2030.

### Regulating Major Power Users in Installation of Green Power Equipment

Taoyuan City mainly develops two green energy, wind power and Optoelectronics, and through legal operation procedures, it is regulated that large electricity consumers with a contracted capacity of more than 5,000kW (kilowatts) should install 10% of green energy equipment, and it is estimated that equipment with total capacity of 182.2MW (million watts) can be installed. The solar optoelectronics installation capacity has an annual power generation capacity of about 191 million kWh, and an annual carbon reduction of more than 100,000 metric tons can be reached; meanwhile, the land, water, and offshore fields are engaged to introduce renewable energy.

### Promotion of Power-Saving Plans in Cooperation with Central Policies

The City actively cooperates with the central government to promote the power-saving plan by organizing the replacement of energy-consuming equipment for the residence and commerce department and introducing new power-saving measures, meanwhile strengthening power demand management and implementation of smart energy.

## 7.2 Plan for Waste-to-Energy from Waste Treatment Facilities

The City actively promotes circular economy and waste recycling policies. Through the BOO waste heat recovery renewable energy power generation plan, the Biomass Energy Center Build, Operate and Transfer (BOT) case and the public landfill solar green power renewable energy plan are executed to promote general waste conversion to energy, thereby increasing the output of renewable energy and furthermore achieving the goal of sustainable energy.

### BOO Refuse Incineration Plant

Taoyuan City BOO waste incineration plant is the only BOO large-scale waste incineration plant in official operation in the country, and it is also the largest privately-owned waste incineration plant in the country, with a daily waste treatment capacity of 1,350 metric tons. Meanwhile, the recovered heat energy is engaged to generate electricity. The design thermal efficiency is 23.4%.

### Taiwan's First Three-in-One Biomass Energy Center

Taoyuan City Biomass Energy Center adopting the BOT measure can convert waste into recycled materials and products, and treat high-calorific waste such as kitchen waste and organic waste, and the power generation efficiency of the heat treatment unit. In addition, the power generation efficiency of the thermal treatment unit is much higher than that of the existing large-scale waste incineration plants in Taiwan. The concept of circular economy has become a demonstration park for biomass energy industry and resource recycling, which was put into trial operation in 2022.

### Solar Energy Green Power and Renewable Energy from Public Landfill

Solar optoelectronics power generation systems are installed in 5 public landfills, including Yongxing in Xinwu District, Houzhuang in Xinwu District, Yuanben in Yangmei District, Shuiwei in Zhongli District, and Cuo in Zhongli District. Green energy can reduce carbon dioxide emissions by 1,306 metric tons per year.



## Enhancing Energy Efficiency

### 7.3 LED Smart Street Light Replacement Plan

#### Building a Smart Street Lamp Management System

There are about 160,000 street lamps in Taoyuan City, of which about 120,000 are traditional street lamps. In order to promote energy saving and carbon reduction, improve energy efficiency, improve the maintenance efficiency of street lamps, and improve the quality of road lighting, Taoyuan City has conducted a complete replacement of traditional street lamps with smart and low energy-consuming LED street lights, building a smart street light management system, and improving related cables and equipment together, which will reduce carbon emissions by about 75,000 metric tons and electricity bills of about NT\$ 170 Million each year. When the smart street light management system fails, automatic notifications are sent to the control center to facilitate maintenance arrangements, reduce labor costs for nighttime inspections and public failure reporting cases, and improve street light service quality and maintenance management efficiency.

#### Establishing Explanatory Smart Street Lamp Site

A demonstration area of intelligent street lights is planned to be set up in the high-speed rail special zone. It is estimated that 1,800 intelligent street lights were installed in the whole area. Both "smart street lights" and "intelligent street lights" are also energy-saving LED lights. Intelligent street lights have dimming, energy consumption monitoring, fault reporting, timing. In addition to the original functions of "smart street lights", intelligent street lights can also be expanded to combine functions such as environment quality detection, pedestrian and traffic flow detection, and network hotspot layout. In places with many people, electronic devices can also be installed on the street lights. The billboards promote digital information such as local tourism, disaster prevention and safety, provide the public with various detection information, and demonstrate the application results of multiple intelligences.

# Decent Work and Economic Growth

Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all.

Taoyuan City creates a friendly industrial environment, provides necessary assistance for enterprises, enhances the energy of industrial upgrading and innovation, and develops local characteristics, promotes economic development, hoping to create more employment opportunities and a secure employment environment.

## Industry Innovation and Investment 091

- 8.1 Asia Silicon Valley in Taoyuan
- 8.2 Soliciting Businesses and Attracting Investment to Promote the Economy
- 8.3 Plan for Localization of maintenance Spare Parts for Rail Industry
- 8.4 Civil Participation in Operations and Management of Sports Venues

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- 8.17 Smart Tourism
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- 8.25 Daxi Mutual Learning and Revitalization Partner Management Plan
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- 8.31 Featured Local Festivals

## Industry Innovation and Investment

### 8.1 Asia Silicon Valley in Taoyuan

In cooperation with national policies, Taoyuan City supports industrial transformation and industrial innovation.

#### Hutoushan Innovation Hub

In June 2019, the "Hutoushan Innovation Hub" was established to build the first 5G smart vehicle innovation settlement in Taiwan. The park combines a smart vehicle demonstration platform, information security IoT applications, new innovation acceleration coaching and industry matching. The second phase of the park was completed in 2021, with exterior of the existing buildings and the runway are refurbished, providing space for smart driving research and development and more road test scenarios. The entire park was opened to the public in March 2022. It is expected to complete the park reception center and exhibition and commercial space in the fourth quarter. More companies have settled in, leading Taoyuan City to become a smart city demonstration site.

## 8.2 Soliciting Businesses and Attracting Investment to Promote the Economy

### Hosting of Vendor Investment Schemes and Reviews

Taoyuan City cooperates in investment projects, accelerating the acquisition of construction licenses, plant establishment, and grade-separated inspection of factories. The investment in 2021 reached NT\$ 213.7 Billion, an increase of 78.7% compared with the investment amount of NT\$ 119.6 Billion in 2020, creating more than 20,000 job opportunities.

### Promoting Multiple National-Level Projects

The City integrates resources to connect industries, drives regional industrial economy, promotes national-level projects such as "Taoyuan Aerotropolis Project", and "Asia Silicon Valley Plan", "Forward-Looking Infrastructure Project". With establishment of Hutoushan Innovation Hub, Taoyuan Exhibition and Trade Centre, International Tourist Hotel, the City accelerates the development of intelligent industry and establishes an industry development platform.

## 8.3 Plan for Localization of Maintenance Spare Parts for Rail Industry

In order to promote the localization of the rail industry in Taoyuan City, MRT system signal computers, signal lights, on-board radio TCI, digital clocks and other maintenance materials are given priority to purchase domestic products to improve the output value and development of the domestic rail industry. In 2020 and 2021, localization of some materials such as the electric train system, power supply system and machine plant equipment, meanwhile, the City is actively looking for domestic products with the same specifications and quality to replace imported materials. In 2021, the procurement amount of domestically produced repair materials reached 8.5% overall, with a projected percentage at 10% in 2022. As the MRT Green Line is expected to be put to operations in 2025, the procurement volume will increase, and components was gradually localized. It is expected that the procurement percentage of domestically produced repair materials may reach 30%.



## 8.4 Civil Participation in Operations and Management of Sports Venues

### Manage sports venues with private resources

In order to effectively manage and use sports venues, save government budget expenditure, and improve service quality, Taoyuan City entrusts professional operators to manage the operation and maintenance of sports venues in accordance with the Law on Promoting Private Participation in Public Construction and Procurement Law, including Taoyuan National Sports Center, Nanping National Sports Center Sports Center, Zhongli National Sports Center, Pingzhen National Sports Center, Luzhu National Sports Center, Luzhu Badminton Stadium, Taoyuan City Standing Swimming Pool, Bade National Sports Center, Taoyuan International Baseball Stadium and other venues, hoping to combine government and private resources , to promote the professionalization of sports venues.

### Asia Silicon Valley Innovative R&D Center

The City sets up the "Asia Silicon Valley Innovation R&D Center" to build a safe, smart, interconnected and interactive innovation R&D center with emerging smart technology buildings, as a new technology R&D exchange such as 5G, AI, IoT, AVMR, big data, and industry4.0 base and corporate headquarters.

The Center integrates the innovation energy of the domestic Internet of Things internally, and actively attracts investment externally, as a single window to connect with international innovation centers, so as to develop Taoyuan City into an Asia-Pacific innovation exchange hub as an important platform for industry information and talent exchange to assist local enterprises and new entrepreneurs/youth Start-up enterprises are linked internationally, meanwhile encouraging enterprises to set up R&D headquarters and R&D offices to invest in Taoyuan, driving the intelligent transformation and upgrading of the real estate industry, create industrial output value and employment, and turning Taoyuan City into a model of Taiwan's smart city.

### Connecting Central and Local Resources

#### (1) Promoting Various Subsidies and Plans

In terms of industry, the City will promote plans such as smart transportation system ITS, smart urban and rural life application development, subsidy for urban and rural characteristic industrial parks, plans SBIR for innovation and research and development of small enterprises by the Ministry of Economic Affairs, and establishes the Quipu Smart City Demonstration Zone.

#### (2) Offering Enterprise Financing and Loans

In terms of funding, the venture angel investment of the United Nations Development Fund, the Taiwan Angel Investment Association, the Taoyuan City Youth Startup and the SME Credit Guarantee Financing Loan Project, etc., provide funds for startup teams.

### Broadening Business Opportunities in the International Stage

#### (1) Signings of Partnership Deals with Major International Players

Taoyuan City signed a Memorandum of Understanding (MOU) with major international manufacturers, such as letter of intent with CISCO to jointly improve information security technology policies; the City has also signed a letter of intent with DHL to jointly build an important logistics base.

#### (2) Promoting International Procurement Matching

The City continues to promote international procurement opportunities and matching activities, leading local vendors to enter the international stage and expand the business opportunities from oversea sales.

### **Provide opportunities for diverse sports participation**

The introduction of information technology and services, combined with the "Sports Card Plan", provides citizens with opportunities to participate in diversified sports, while activating the sports industry and creating employment opportunities.

### **Conduct sports venue inspections**

In order to encourage the development of the sports industry, Taoyuan City conducts an annual inspection of sports venues to improve the quality and safety of the venues.

### **Integrate the information of various sports venues**

Taoyuan City uses smart technology to build a "management platform for public sports venues and a management platform for accepting applications and reviewing operations for private establishments", integrating the information of sports centers and private sports venues, so that the public can more easily find the venues they need. Information, private industry players can also inquire about the progress of the case review, improving the development efficiency of the sports industry.



## **Creating Employment Opportunities**

### **8.5 Youth Startup Base**

#### **Providing Various Youth Startup Resources**

Taoyuan City is committed to creating a Taoyuan friendly environment for innovation and startup, improving the willingness of youths to innovate and start a business. With the Youth Startup Base as the core, the City provides startup spaces, startup courses and early capital acquisition for youths interested in starting a business, while youths are supplemented by startup loan-related counseling, media exposure, startup competitions, business matching, product business model construction and financial consulting services, to solve the problems faced by youths in the startup stage, hoping to promote youth innovation and startup, and build Taoyuan into a capital of innovation and startup.

### **Setting Up Youth Startup Base**

At present, Taoyuan City has three youth startup bases, including the Fablab Taoyuan, Anton, and Xinming, recruiting potential IoT, VR, and artificial intelligence startup teams to settle in and provide entrepreneurs with intellectual property, legal, financial and other counseling and assistance. R&D subsidy acquisition, domestic and foreign market matching, product model construction and other services, to shorten the period of startup exploration, and help youths take the first mile of Startup.

## **8.6 Social Enterprise Center and Social Responsibilities of Colleges**

### **Promoting Social Responsibilities of Universities and Colleges**

The City actively promotes the practice of university social responsibility with various colleges and universities, helping them become an important cradle for social enterprises, local revitalization and other teams. The two universities including National Central University and Chung Yuan Christian University, where Yunus Social Enterprise Center have been established, while Chung Yuan Christian University is surrounded by a start-up village that can provide social enterprises, artificial intelligence and other incubating teams to attract more young students to enter the field of social enterprises and promote social innovation and progress.

### **Establishing Social Enterprise Centers**

Taoyuan is the first city in Taiwan to set up a social enterprise center, providing guidance and resources to support youths to invest in social enterprise startup and development, solve social problems with innovative business models, and promote social progression with innovative thinking, providing youth with more diverse startup options to make the City a social enterprise city for sustainable development.

## **8.7 Youths Employment Assurance and Employment Grand-Slam Schemes**

Young people are new to the society, and the employment situation is relatively unstable. Taoyuan City communicates and cooperates with enterprises to help youths stabilize their employment and cultivate their functions.

### **Youth Employment Assurance**

The scheme assists the unemployed youth who are under 30 years old and graduated from high school and above in Taoyuan City to find a job, meanwhile encouraging public institutions or groups to provide job opportunities, stimulate employment incentives to make youths find stable employment, and assist public institutions to improve the difficulty of manpower recruitment.

## **Taoyuan Youth Self-Learning Program and Technician Certificate Award**

Promote the Taoyuan youth self-learning program, provide credit fee subsidies for promotion education credit classes, participate in technician skill verification, and obtain incentive measures for technicians license issued by the Ministry of Labor, so as to enhance youth employment competitiveness.

### **Youth Employment Scheme Outcomes**

After the promotion of these Schemes, it has effectively helped Taoyuan City youths to increase their guaranteed salaries, help them stabilize their employment and shorten their job search time. The guaranteed salaries have grown steadily: Since 2015, the guaranteed salaries after matching have increased from NTD 27,046 to NTD 31,500, It has grown by nearly 15%, effectively increasing the salary of youths.

#### **· Assisting youth in stable employment**

The youth who received the Scheme counseling were still in the original institution after 6 months 81% are employed and 93% are still employed.

#### **· Effectively shorten job search time**

The average job search time for youths who received Scheme counseling was 1.4 weeks, substantially lower than the Taiwan average of 18.68 weeks.

## **8.8 Providing Employment Assistance to the Underprivileged Groups**

### **Setting Employment Service Desks and Employment Centers**

Taoyuan City has set up 12 employment service desks and 2 employment centers to handle diversified talent recruitment activities and provide localized and accessible employment services. At least 300 talent recruitment activities are held every year, with about 17,000 people participating. The employment matching rate is 80%.

### **Providing Incentives for Hiring of Specific Population**

Specific populations (middle-aged, Persons with Disabilities, second-time employment women, new immigrants, indigenous peoples, people receiving rehabilitation, people with drug addicts, victims of domestic violence and sexual assault, etc.) are provided with employment incentives, lack of employment incentives, care staff employment incentives, workplace learning and re-adaptation plans, temporary work allowances, promotion of job redesign service plans, etc., to increase the employment rate and stable employment of the disadvantaged and unemployed.

### **Establishing Employment Service Network for the Indigenous Peoples**

The City organizes indigenous peoples highlight recruitment activities to improve indigenous peoples employment matching rate, provide indigenous peoples career training courses, and assist indigenous peoples employment.

## **8.9 Priority Employment of Underprivileged Groups at Government Agencies**

Taoyuan City attaches great importance to the rights and interests of disadvantaged groups at work, with its government agencies performing quota-exceeding employments of indigenous people and people with disabilities, meanwhile actively encourage all agencies to provide vacancies for special examinations for people with disabilities and indigenous people. In the meantime, priority employments of people with disabilities and indigenous peoples are encouraged under the circumstances of non-staffing vacancies.

## **8.10 Career Reconstruction Services for Persons with Disabilities**

In order to enable persons with disabilities to an equal, dignified, and humane employment environment, and to be suitable for talents, adaptability, and suitable places, Taoyuan City, through case management, connects the City's persons with disabilities career reconstruction resources, conducts vocational skills training, enhances employability, and provides appropriate supportive employment services, while the public sector also releases job vacancies to assist Persons with Disabilities in short-term employment. For those who are willing to work but lack employability, they are provided sheltered employment services. Career reconstruction for persons with disabilities has helped at least 600 persons with disabilities annually, and the employment rate of vocational training reached 60% and 15 sheltered workshops were mentored to provide sheltered employment.

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## **8.11 Indigenous Peoples Startup Counseling Providing Startup Counseling and Follow-Up Surveys**

The City provides startup counseling for indigenous groups by evaluating their startup suitability, relevant legal advice, market risk assessment, startup loans and subsidies-related consulting, etc., to provide resources and information integration or link services in the process of starting a business; the City also conducts follow-up care and surveys, analyzing the current situation and difficulties of the mentees' startup, and assisting in providing referral programs.

### **Setting Up Cultural and Creative Center and Startup Platform**

Taoyuan City Indigenous Culture Center sets up the "Tayniho Taoyuan Aborigines Inn" and Cultural and Creative Center, introduces the market matching mechanism, and promote the development of culture creativity and youth entrepreneurship industry; and sets up the "Dream Hata" youth startup platform to provide consulting and counseling on startup.

## **Planning of International Indigenous Peoples Cultural and Creative Industrial area**

With four major functions including "Original Consumption Service", "Cultivation of Indigenous Artists", "Hometown Tourism Link", and "Life Aesthetics Platform", it provides Indigenous Peoples with job creation, employment and training opportunities.

## **Providing Indigenous Youths the Employment and Startup Counseling**

In order to enhance the competitiveness of indigenous youth in the workplace, the City provides a variety of indigenous youth startup and employment counseling programs, with themes such as departments (sports and leisure management) which more indigenous peoples have majored in, and the training of fitness coaches as goal, arrange Industry-related training and certification, related academic courses, and venues for internships and service camps, and also arranges employment matchmaking, so that trainees can go to relevant venues for summer work study during the summer vacation. The City cooperates with indigenous special classes to organize the workplace experience in the original hometown, through returning to the hometown to understand the current situation of the development of the original hometown industry after the combination of the new industry and the professional career planning course to assist the indigenous college students to contact the original hometown industry and new industry, inspiring the possibility of indigenous college students to develop in different fields.

## **8.12 Police Officers from Indigenous Areas**

### **Return to Hometown for Service**

#### **Conduct lectures on law enforcement in**

#### **Aboriginal jurisdictions**

Taoyuan City Government Police Department Daxi Sub-Branch is an indigenous area. In order to enable Daxi sub-bureau police officers to effectively master relevant laws and duties, Taoyuan City is based on the indigenous-related teaching materials of the Ministry of Interior Police Administration and taught by senior police officers. , Combining academic and practical perspectives, Daxi Branch colleagues can quickly acquire law enforcement knowledge.

#### **Encourage indigenous police officers to return home to serve**

Encouraging indigenous police officers who are familiar with the local customs and customs to return to their hometowns to serve, can reduce the language and cultural gap between the police and the people and maintain law and order in the original hometown. The number of indigenous police officers in the City is 209 (4.4%), since 2017 As of June 30, 2022, 13 Aboriginal police officers have returned to their hometowns to serve.

## **8.13 A Complete Vocational Training System**

### **Yu-Tou-Lu (Go To Work) Vocational Training**

In response to the increasingly diverse needs of industrial talents, the training of functions needs to take root early. Taoyuan's "Yu-Tou-Lu (Go To Work)" functional training integrates Taoyuan's local resources such as government resources, school education and industrial practice, and plans to meet the market's manpower needs and has both disciplines, vocational training courses for technical subjects and practice provide a training system of "learning by doing, learning by doing". 45 classes of vocational training courses are held every year, providing at least 1,350 training places, and the post-training employment rate is over 75%.

### **Organizing Care Specialist Training**

In order to cope with the coming of an aging society and to take care of the shortage of human resources for a long time, Taoyuan City has started to handle the plan related to the training of care attendants since 2017, empowering care service professionals, assisting in the field of care services, and expanding the training capacity year by year, until 2021, 88 classes have been handled, and 2,579 people have been assisted to obtain the qualifications of care attendants. The employment rate after training has reached over 80%.

### **Providing Indigenous Vocational Training Services**

The City provides on-the-job training classes for the indigenous peoples group, which includes guidance services to assist indigenous youth in career exploration, cultivate them with soft power in the workplace, and strengthen their employment competitiveness.

### **Providing Students with Vocational Training Measures**

In terms of education, the City provides students with career exploration, technical vocational training, cooperative Education and other measures (See Goal 4).

## **Protecting Rights of Labors**

### **8.14 Plan for Complementing Trade Union Affairs**

#### **Providing Guidance in Establishment of Trade Unions**

Taoyuan City, through the single-window consulting service and Taoyuan e-commerce website, counsels laborers with willingness to organize unions in the organization, and counsels the establishment of more than 2 unions every year.

#### **Encouraging Unions to**

#### **Sign Collective Bargaining Agreements**

Trade unions and institutions are encouraged to sign Collective Bargaining Agreements, to establish good communication channels and mechanisms, and to stabilize labor-management relations.

### **Subsidizing Trade Unions to Conduct Training Courses**

The City subsidizes labor unions to study labor acts and related courses to improve labor rights knowledge and strengthen labor union negotiation skills and negotiation skills.

### **Organizing In-Plant Guidance Measures for Business Units**

To avoid the occurrence of large-scale dismissal of laborers by public institutions, the City, together with the trade union, organizes the guidance measures for public institutions in-plant, providing labor acts and employment information for both employers and employees, assists dismissed employees with subsequent employment transitions, and protects labor rights and related rights and interests.

### **8.15 Labor Supervision and Inspection Plan**

In order to enable workers to have a safe and secure employment environment and protect workers' rights and interests, Taoyuan City has formulated disaster mitigation strategies and implemented labor supervision and inspections for migrant workers, women and workers in high-risk occupations to protect workplace safety and hygiene, and maintain worker safety. In 2021, 13,962 times (plants) of supervision, counseling and inspections have been continuously carried out, supplemented by occupational safety and health promotion and observation activities, to improve and create a work environment with zero occupational hazards in various ways.

### **8.16 Taoyuan City Labor Pension Inspection Plan**

In order to protect the rights and interests of labor pensions and the economic security of the elderly, Taoyuan City urges and guides all public institutions to transact the monthly and full allocation of labor retirement reserves, as well as the special account for labor retirement reserves, the new and old systems for labor retirement and legal consultation and labor disputes reconciliation. In 2021, the full withdrawal rate of labor retirement reserves reached 99.93%.



## **Sustainably Developed Tourism**

Taoyuan City makes full use of the characteristics of natural and human resources, takes "smart, low carbon and ecology" as the driving direction, and guides the upgrading and transformation of the industry, so as to enable sustainable development of the tourism industry, promote local culture and production, and create employment opportunities.

### **8.17 Smart Tourism**

#### **Launching Smart Tourism Services**

Taoyuan City promotes sightseeing with smart tourism services, connecting "navigation, tour guide, guided tours, shopping guide" in series, allowing tourists to grasp the information of tourism, transportation and consumption in real time.

#### **Traveler Preferences Analysis for Travel Promotion**

Through multilingual version service, tourism database, itinerary and regional promotion, tourist preference collection and data analysis, interactive experience, industrial integration, mobile commerce and smart tourist guide, etc., the City promotes tribal and indigenous culture, and strengthen the local characteristics and travel style of Fuxing District.

#### **Cooperation with the Industry for**

#### **Marketing of Local Features**

As of June 30, 2022, Taoyuan Smart Tour has more than 600 consumer purchases from stores and 300 hotel operators, and has been exposed through multiple channels such as tour guides and communities, which increases the online exposure of stores allowing tourists to quickly check information of various stores in Taoyuan.

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### **8.18 Low-Carbon Tourism**

#### **Taiwan Tourist Shuttle**

Taoyuan City has 4 "Taiwan Tourist Shuttle" bus routes including Daxi Express Line, Xiaowulai Line, Shimen Reservoir Line and Dongyan Mountain Line, providing transportation services for tourists to highly famous scenic spots in Taoyuan, and promoting sustainable development of the tourism industry development as an important role in low-carbon tourism.

#### **Shimen Reservoir Low-Carbon Tourism Exemplary Area**

The City will build Shimen Reservoir and Xizhou Tourist Service Area into green energy, low-carbon, and sustainable exemplary parks. By introducing electric vehicles, it encourages and guides people of all ages to take low-carbon mass transportation to engage in sightseeing activities, reducing the burden on the environment and promoting local economic development.

#### **(1) Promoting Diverse Tourism Models**

Promoting sports, cultural creativity, ecology, intelligence, green energy and other multi-tourism models to improve the level of tourism services and the planning concept of convenience for tourists.

#### **(2) Providing Sports Tourism Information**

In the future, the Shimen Reservoir Xizhou Tourist Service Area will be a new starting point for tourism. Information on sports and nearby food attractions can be provided through smartphones, allowing the public to experience a healthy tour at Shimen Reservoir.

### **Low-Carbon Accommodations**

In order to promote low-carbon tourism, hotel operators are encouraged to implement energy saving and carbon reduction, obtain environmental protection hostel (hotel) certification, encourage passengers to bring their own toilet equipment, reduce the use of disposable equipment, and achieve the goal of waste reduction. As of December 2021, there are 64 eco-friendly hotels (halls) in the city, and the public have saved about 0.2086 metric tons of waste in response to their own equipment.

## **8.19 Ecotour**

### **Water Ecology Experiences at Houhu River, Xinwu District**

The Houhu River is located in the Binhai Recreation Area on the north bank of Yongan. There are characteristic plants such as Kandelia obovata, Casuarina equisetifolia, Ipomoea pes-caprae, and Avicennia marina. It has rich natural ecology and beautiful windbreak forest. Visitors may row the low-carbon non-powered canoes to learn about ecology and natural resources through ecological commentary. As of December 2021, the number of people who have experienced the experience has reached 4,500. In 2022, leisure service facilities such as hydrophilic viewing platforms, outdoor parent-child play areas, and lakeside coffee houses will be set up, and the creativity, capital and professionalism of private enterprises will be introduced in accordance with the Participation Promotion regulations to provide high-quality leisure services, making Houhuxi the new highlight of Xinwu eco-tourism.

### **Nighttime Ecology Observations at North Cross-Island Highway Area**

The most active period of fireflies is in April and May every year. The entire virgin forest and natural ecology of Back Cihu have not been damaged by a lot of human beings. It is very suitable as a night ecological observation site. Taoyuan City holds the "Nighttime Ecology Observations at North Cross-Island Highway Area" activity and visits at night. In Back Cihu, through expert guides and explanations, ecological observation and experience are conducted, so that the public can know and love fireflies, and then know how to cherish the environment, cherish water resources and understand the importance of ecological conservation.

## **8.20 Leisure Farm Guidance Plan**

### **Leisure Farm Area**

Leisure agriculture is a new highlight for traditional agriculture to enhance its added value. Taoyuan City has 10 leisure farm areas that have been demarcated, and 8 leisure farm areas are still under planning.

Taoyuan City adopts "one recreation area, one flower/festival" to create the characteristics of each leisure farm area, and cooperates with relevant guidance as a solid foundation for the development of leisure agriculture:

### **(1) Guidance on "Farming Experience"**

By introducing existing agricultural production into farming experience, integrating primary, secondary and tertiary industries, youths are expected to return to their hometowns to engage in farm business, expanding service projects and increasing revenue.

### **(2) Development of "Derivatives"**

Different processing methods are engaged to increase the added value of primary agricultural products and prolong their shelf lives. In addition, the quality of products can be enhanced by improving the packaging. The diversified utilization of agricultural products makes the output value soar.

### **(3) Promoting "Farm Tour Packages"**

The farms and recreation areas are connected in series. The farms provide services, the experience of agricultural tourism is connected in series, and the normal operation of sightseeing routes is introduced, allowing the areas to gradually move towards a mature sustainable development.

### **(4) Contributing "Marketing and Promotion"**

By operating the leisure farm fan page and website platform, we will strengthen the special farming experience of promotion leisure farm management, and combine with the flower festival activities to activate the local characteristics.

## **8.21 Farm Villages Regeneration**

### **Farm Village Regeneration Communities**

The City has guided the local organizations and groups of rural communities to develop independently. As of the end of January 2022, the City has a total of 89 communities including 27 communities through the Rural Regeneration Plan and 62 root-cultivation communities revitalized. With the bottom-up rural regeneration, the City expects to improve the overall rural environment, cultivate human resources and industrial development.

### **Hosting of Diversified Farm Tour Packages**

Guiding the City's rural regeneration community and cross-regional cooperation, improving the City's rural tourism quality and commercial operation capabilities, and improving the space quality of agricultural tourism venues, and in-depth improvement of the shortcomings of tourism management and personnel training to connect rural communities to industrial development of rural characteristic tourism.

### **Guidance on Production of Derivatives**

The City provides guidance on the production and processing of products for small farmers in the City, product inspection, product labeling optimization, and packaging improvement. As of the end of January 2022, the City has performed guidance on a total of 24 products, and through multi-platform media marketing Farmers increase the vitality of rural communities and create a new height of sustainable value in Taiwan's rural areas.

## 8.22 Sightseeing and Leisure Fishing Ports

Zhuwei Fishing Port and Yongan Fishing Port have been transformed into sightseeing and leisure fishing ports. In order to promote fishing port sightseeing and sustainable development of tourism in Taoyuan coastal areas, Taoyuan City promotes the construction of fishing ports, creates green ports and sightseeing highlights, and drives local economic development.

- (1) The fishing boat racking yard of Zhuwei Fishing Port may accommodate the maintenance for 429 fishing boats in the port area, which ensures the safety of fishermen's operations. Meanwhile, the repair of fishing boats and the racking of catches are powered by electricity, which can reduce carbon emissions and environmental pollutions; in addition, the overall landscape of the north coast of the fishing port, along with afforestation and landscaping as well as the infrastructure construction of film canopies, roads, parking lots, etc. with ocean imagery are promoted to enhance the value of leisure space and sightseeing and recreation.
- (2) Yongan Fishing Port Fishing Goods Direct Sales Center, Southern Fishermen Activity Center, Guanhui Bridge, Parking Lot, Yongan Conch Culture Experience Park, and the renovation and construction of infrastructure such as public facilities are built and managed to become the sightseeing highlights of public leisure tourism; in addition, in combination with the fishing market direct sales of fishery products and various festivals such as oceanic Hakka cultural and art season, etc., the synergy with surrounding tourist attractions and industrial culture in the coastal areas are expected to activate the local economy.
- (3) In line with the policy of paying tribute to the sea, the City has opened two legal fishing areas on the south bank of Zhuwei Fishing Port and the south bank of Yongan Fishing Port, plus gradual improvement of the comfort and safety of public facilities in the fishing areas.

## 8.23 Guiding Tourist Factories and Revitalizing Traditional Markets and Night Markets

The number of tourist factories and industrial culture museums in the City ranks first in Taiwan. There are 23 tourist factories and 10 industrial culture halls, providing people with different leisure experiences. The City promotes the market star plan, and provides guidance and marketing for traditional markets, such as establishing sustainable management measures, unified image of the market, improving public facilities and E-marketing, etc., so that the market can keep pace with the times.

## 8.24 B&B Guidance Plan

The City guides the B&Bs in the applications to develop local culture characteristics to provide tourists with a profound local experience. In the meantime, the City has established the first B&B housekeeper school to encourage more innovative B&B operators and youths to return to their hometowns to improve the quality and quantity of B&Bs in an all-round way and drive local economic development for more job opportunities, and promote indigenous culture with development of related cultural and creative products. The City also intends to increase the number of applications for B&Bs by designating recreational agricultural areas, announcing areas with cultural or historical features, registering historical buildings, mentoring tribal B&Bs and identifying old and legal buildings. number of homes.



## Promoting Local Culture and Productions

### 8.25 Daxi Mutual Learning and Revitalization Partner Management Plan

#### Daxi Wood Art Ecomuseum

In order to preserve Daxi's culture and wood art characteristics and promote sustainable development of Daxi culture, Taoyuan City uses Daxi Wood Art Ecomuseum as a medium, by arranging local cultural and historical materials, offering apprenticeship courses, market management, and diversified operations to attract the younger generation. Learn about local culture.

#### Shaping a Mutual Learning Partnership

By cooperating with the communities, the local seniors or woodworkers familiar with Daxi local culture are given chances to enter the school to teach, give young students the opportunity to have a deep understanding of the local culture, thereby forming a Mutual Learning Partnership among museums, communities and schools.

#### Supporting Vendors in Building the Brand of Daxi

In addition, the City also supports the vendors to create special products featuring Daxi culture to deepen the characteristics and distinction of local products as a part of building the brand awareness of Daxi

## **8.26 Plan of Building Fuxing District into the Home of Hot Springs**

### **Constructing Xiaowulai Visitor Center**

Adhering to the spirit of respecting the cultural assets of the indigenous people and respecting nature, Taoyuan City built the Xiaowulai Visitor Center and Civic Activity Center, which symbolizes the "harvest". Meanwhile, the work "Warrior on the Mountain" designed by local artist Miru Hayung is displayed to tell the stories of the Attayal to tourists, showing the optimism, enthusiasm and bravery of the indigenous people.

### **Attayal Story Park for Driving Tourism**

The Attayal Story Park is adopted as the core to promote the development of hot spring tourism, meanwhile, planning and setting up public bath-related facilities, and integration of the existing hot spring foot bath and other areas are made to create a new highlight of Rahao Hot Spring, meanwhile promoting the sustainable development of the tourism industry in Fuxing District.

### **Handling Hot Springs Area Development Plan and Investment/Business Promotions Planning**

For the sustainable development of hot spring tourism in Rahao area and the creation of local employment, the development plan and investment plan for hot springs in the Xiaowulai Scenic Area are handled, in which the local people are responsible for the management and maintenance of hot spring facilities. Meanwhile, the hot spring market is planned to provide local art exchange platform as a part of local culture promotion. Through the construction in relation to, economic development and culture promotion, etc., it is expected to increase local job opportunities and attract youths return to Rahao.

## **8.27 Minnan Culture Plan**

### **Providing a Performance Platform for Traditional Arts and Cultural Groups**

In order to promote the development of Minnan Culture, Taoyuan City integrates local resources, organizes activities such as Minnan Culture Festival, traditional art tour, etc., and provides traditional arts and culture teams such as Chinese Ritual Battle Dance teams, traditional drama (Taiwanese Opera, puppet drama, glove puppetry, etc.), Taiwanese popular industry a performance platform.

### **Events Organized for Promotion of Minnan Culture**

In addition, it promotes the development of Minnan cuisine, such as running the chief shop master competition, enhancing the inheritance of the culture industry, leading the new trend of Taoyuan Minnan Culture, allowing more people to understand the characteristics of traditional Minnan Culture, and then promoting sustainable development of the tourism industry, creating traditional culture industry and indigenous culture and The promotion of products, to carry forward the infinite possibilities of Minnan Culture industry.

## **8.28 Military Village Culture Plan**

### **Keeping Historic Military Village Buildings**

Military Village Culture is one of Taoyuan's characteristic cultures. It is a sustainable inheritance of Military Village Culture and promotion of multicultural preservation. Taoyuan City retains Guishan Xianguang 2nd Village, Zhongli Matsu New Village, Daxi Taiwu New Village and the former Guishan Luguang Sancun Activity Center and, based on the museum, houses and local cultural context, construct Taoyuan's unique Military Village philosophy to present the multi-faceted cultural connotations, and connect cultural and creative resources with a view to provide a variety of artistic creation, exhibition and communication spaces.

### **Operation of Taoyuan Arts Cinema**

Combined with the Taoyuan Arts Cinema in Zhongli, which was officially opened in 2016, as an important venue for film and television creation, shooting and broadcasting in Taoyuan City, the City explores the local historical context and era background, retrieves the memory of the place, and condenses the consensus of the local residents. Open the regeneration imagination of Military Village.

### **Hosting of Military Village Culture Festival**

The Taoyuan Military Village Cultural Festival incorporating the City's Military Village buildings and related local organizations for a series of planned events are held every October to allow the public to get close to and understand the Military Village Culture.

## **8.29 Indigenous People Culture Plan**

### **Setting Up Tayniho Taoyuan Aborigines Inn**

Taoyuan City revitalizes the idle land behind the indigenous culture clubhouse, and sets up the "Tayniho Taoyuan Aborigines Inn" to present the unique cultural tradition of the indigenous peoples, and incorporates the five senses to design a texture design that is connected with the life experience, so as to deepen the impression and experience of tourists.

### **Hosting Joint Harvest Festival for the Indigenous Peoples**

Through the Harvest Festival introducing traditional indigenous songs, dances and cultural ceremonies, indigenous special food, handicrafts, agricultural special exhibitions, etc., the City intends to achieve cultural heritage, and enable indigenous people learn from each other, communicate and share with each other. About 12,000 visitors participate in the Harvest Festival each year .

### **Plan of Promoting Light Travels in the Aboriginal Territories**

Connecting the local agricultural and special industries of the tribe, with the theme tour promotion, the City intends to attract more tourists to experience the culture, develop the experience economy, and drive the tourism industry, expecting that the tribal industry will continue to operate and develop the economic benefits of the tribe.

## 8.30 Hakka Culture Plan

### Building New Architecture for Hakka Culture

Taoyuan has a Hakka population of 900,000. To promote and gain fame for Hakka Culture, in addition to Taoyuan City Hakka Culture Hall, Chung Chao-Cheng Literary Park, and Lunping Culture Landscape Park, Taoyuan City Government continues to build new Hakka Culture buildings and has completed constructions of the four new Hakka buildings including Taiwan Hakka Tea Culture Hall, 1895 Yiwei Taiwan Protection Peace Memorial Park, Conch Culture Experience Park, Taoyuan North District Hakka Guild Hall. The new building space not only combines local communities and schools, but also is the base for various Hakka Culture lectures and workshops. By connecting the connotation of the places, the City intends to carry forward the Hakka tea industry in Taiwan, the historical memory of the Hakka Yi-Min in the Yiwei campaign, the ocean Hakka spirit, as well as Hakka folk songs and Hakka poetry and other precious cultural assets, and to handle the Hakka tea culture season, the Yiwei campaign culture season, ocean Hakka culture and art season, Lai Bixia Music Memorial Concert and other activities for inheriting the rich and diverse Hakka Culture.

### Integration and Connection of Hakka Villages

With the new Hakka buildings as the core base, combined with the surrounding cultural buildings and local cultural resources, the City takes inventory and connects various tourism resources to construct a Hakka tourism journey.

- (1) Taiwan Hakka Tea Culture Museum combines Hakka Culture Museum and Chung Chao-Cheng Literary Park, Longtan Dachi and Sankeng Old Street, DaBeiKen Leisure Agriculture Area, Daxi Wood Art Ecological Museum and other places for developing tea and food culture-themed tours.
- (2) Conch culture experience park, combined with Stone Weirs Story Museum and Beach Seine Culture Museum and Lunping Culture Landscape Park are connected in series with the old houses of Fanjiang, the sand dune geological park, and the green coastal bicycle tunnel, forming an ocean Hakka and natural ecological journey.
- (3) 1895 Yiwei Taiwan Protection Peace Memorial Park and Yimin Temples jointly form a Yimin culture park are combinations with places such as Hakka Design Collaboration Center, Tianguang Grocery Store and Zhongli Tourist Night Market, a journey with both historical memory and cultural heritage is constructed in the core area of the modern city.
- (4) The Hakka Guild Hall in the North District of Taoyuan has the Lai Bixia Music Memorial Hall and Du-Pan Fange Literature Memorial Hall and Guild Hall are connected to the surrounding attractions such as Bade Xiaoli Dashi, Bade Pond Ecology Park and Disaster Prevention Education Museum, and are adjacent to Matsu New Village and Zhongzhen Market, presenting a diverse culture and life.

## 8.31 Featured Local Festivals

### Hosting of Featured Local Experiences

Taoyuan City has different ethnic groups. In order to promote and preserve various cultures, promoting local tourism characteristics and sustainable development of tourism industry, Taoyuan City organizes local tourism activities every year, such as: Daxi Bean Curd Festival, Longgang Rice Noodle Festival, Shimen Reservoir Hot Air Balloon Carnival and Taoyuan International Kite Festival, and organize activities such as North Island-Crossing Highway Adventure Festival, Hot Spring Food Carnival, Jiaobanshan Plum Blossom Season and North Island-Crossing Highway Cherry Blossom Season in indigenous areas (including Cherry Blossom Warriors, North Island-Crossing Highway Cherry Blossom Viewing Shuttle and Cherry Blossom Season Photo Contest). Local business owners are invited to participate or set up booths to sell products combined with local agricultural specialties and indigenous specialties, publicize surrounding food and tourist attractions, and combine media marketing to attract tourists, thereby providing local people with employment opportunities, and promote local tourism and economic development.

### (1) Longgang Rice Noodles Festival

The Golden Triangle of Zhongli, Pingzhen, and Bade Fair has unique Yunnan-Myanmar culture. Longgang District is a Yunnan food settlement, famous for its special snack "Rice Noodles". The annual Longgang Rice Noodles Festival is held every year to experience Myanmar, Yunnan, and Thai special celebrations, local food and culture experience.

### (2) North Island-Crossing Highway Adventure Festival

North Island-Crossing Highway area has rich natural ecology, historical and human resources. The North Island-Crossing Highway Adventure Festival annually with combinations of related themes such as outdoor adventure to continuously deepen the style of North Island-Crossing Highway adventure.

### (3) Hakka Culture

Visiting old streets in Hakka villages and Hakka culture houses to experience the Hakka culture.

### (4) Indigenous culture

Visit the Atayal tribe in Rahao to experience the culture of the Atayal, go deep into the secret realm of the revival mountain, conduct a tribal culture tour and DIY aboriginal food, etc., and plan a multi-themed itinerary for different characteristics and seasons.

### (5) Landscape Art Festival

The Taoyuan Landscape Art Festival is held every year in various districts of the City to promote local revitalization in different regions, highlight the special landscape of Taoyuan City with artistic creations, and allow the public to rediscover the land and environment from a new perspective through a variety of art exhibitions, thereby achieving the goal of sustainable development.

# Industry, Innovation, and Infrastructure

## Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation.

Taoyuan City has a sound and resilient infrastructure and high-quality industrial parks, attracting enterprises to develop in Taoyuan. The annual industry output is about NT\$ 3 Trillion. The convenient transportation system allows people to flow and logistics flows without obstruction. The rainwater sewer system and flood detention facilities prevent floods and reduce losses caused by floods. The City is also committed to promoting industry 4.0 and ICT industry, and improving energy efficiency, in order to take into account environmental sustainability while developing the economy.

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- 9.2 Road-Smoothing Project
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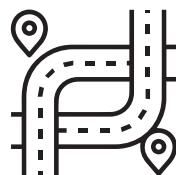
- 9.7 Industrial Lands Planning and Development
- 9.8 Promotion of EcoLogistics
- 9.9 Industry 4.0
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## Infrastructure

### 9.1 A Sound Metropolitan Drainage System

The urban area is highly developed, with impermeable layers cannot hold floods, at which rainfall is likely to cause surface runoff and flooding. In order to protect the safety of the urban area, through runoff sharing, outflow control, rainwater storage, construction and maintenance of rainwater sewers, and regular dredging, the City intends to ensure smooth channels, speeding up drainage to reduce disasters. From 2014 to December 2021, the total cumulative construction length of rainwater sewers has been extended from 273.69 kilometers to 442.23 kilometers, an increase of 168.54 kilometers; the cumulative implementation rate has increased from 56.13% to 84.45%, an increase of 28.32% and ranked 1st amongst the Six Special Municipalities. Aiming for the construction of 3 kilometers per year, the goal of achieving a cumulative rainwater sewer implementation rate of 89.03% in 2030 is expected.



## 9.2 Road-Smoothening Project

### Road Smoothening under International Standards

Taoyuan City attaches great importance to road quality, materials and construction methods, and adopts international indicators as standards to measure road surface smoothness. From 2015 to 2021, 272 roads have been leveled, covering an area of about 17.15 million square meters. Road IRI (International Roughness Index) was optimized from an average of 4.85 to below 4, which greatly improved the driving comfort. In addition, 26 roads in 9 industrial areas were improved, and the road quality and road safety in the industrial areas were also improved.

### Circular Materials Used in Road Constructions

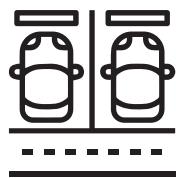
The concept of circular economy is introduced in road construction, with recycled pellets used. For example, the oxide Slag produced in the electric arc furnace steelmaking process is adopted as the paving material for reducing carbon emissions. The use of recycled materials was increased from 150 metric tons in 2017 to 121,841 metric tons in 2021, reducing carbon dioxide emissions by approximately 487,364 kilograms.

## 9.3 Bottleneck Solutions

In order to solve the road bottleneck, and the urban traffic and disaster prevention issues caused by the undeveloped urban plan road, Taoyuan City promotes the "Bottle Opening Plan". In addition to policy planning, the government can also make relevant assessments and project implementation by the public.

### Plan Results

As of January 2022, 135 cases of road widening and improvement have been completed. In addition, 8 projects are under construction, and 33 cases are under planning and design, reducing the travel time cost and travel distance from refraining of detours, and then achieve the effect of energy saving and carbon reduction and improve the fire protection disaster relief function, so as to ensure the safety of people's lives and properties.



## 9.4 Building of Bus Interchanges

With the stable development of the bus network, the utilization rate of public transportation in Taoyuan City is increasing. In order to avoid the traffic load of urban roads caused by the entry of national highway passenger traffic into the urban area, Taoyuan City has built six major bus interchanges, which are supplemented by a connection system to encourage the public to using the public transportation system, which provides high-quality bus transfer services and waiting environment and is the solution to traffic congestion. At present, the A21 Interchange and the Jinguo Bus Interchange have been open for business, with Taoyuan Changgung, Daxi Puding, Longtan, Bade and various interchanges under ongoing planning and development.

## 9.5 Building of Parking Lots

### Construction of Multi-Leveled Off-Street Parking Lots

In order to encourage people to take mass transportation, Taoyuan City performs a series of assessments to areas adjacent to public Transportation stations, areas with a large number of tourist attractions, busy commercial areas, and areas around administrative offices the lack of parking spaces or with potential of increase in number of transfers to public transportation for addition of efficient locations, and has built public multi-leveled off-street parking lots. Statistics show that 31 parking lots have been completed by June 2022.

### Enhancing Parking Lot Efficiency and Quality

Through intelligent, green energy, accessible Environment, gender-friendly and other design methods, the City improves the efficiency and service quality of the parking lot to solve the parking problem in urban and tourist areas and promote the development of local public transportation.

## 9.6 Transportation Constructions in Remote Areas

### Planning of Rails for Three Hubs and Six Lines

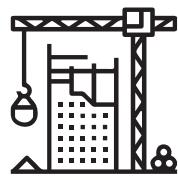
In order to allow people to affordable and highly accessible means of transportation, Taoyuan City's traffic construction planning focuses on public transportation, and builds Three Hubs and Six Lines rail construction, which greatly improves the traffic availability and accessibility in various areas of Taoyuan City.

### Construction of external bridges for residents of Remote Areas

In order to solve the long-term problem of residents in remote areas without roads, the Sanguang River Crossing Bridge is planned to be built, with expected completion by the end of 2024.

### Construction of Baling Gas Station

The Baling gas station is planned to be built to provide oil supply bases for disaster relief in the mountainous area. It is expected to be completed by the end of 2023, which will improve the convenience of residents and tourists to refuel, and promotion of the tourism development of mountainous areas in Fuxing District.



## Sustainable Industrial Environment with Sustainability

### 9.7 Industrial Lands Planning and Development

#### Overall Planning for Industrial Lands

The industrial area in Taoyuan City's early newspapers has been fully developed, and there is an urgent need for industrial land. According to the "Taoyuan City Land Plan (Draft)", it is estimated that the new industrial land demand in Taoyuan City was about 973 hectares in 2036.

#### (1) Banking Lands for Industrial Use

In order to ensure the future industrial development hinterland, and to guide the management of unregistered factories, Taoyuan City examines the suitability of the land, excludes the sensitive areas of the environment, and reserves the land for industrial reserves. On the premise of taking into account the sustainability of the Environment, the City promotes local economic development and stabilizes the employment of residents.

#### (2) Planning Industrial Areas

The planned industrial areas include Dayuan Intelligent, Bade Daan, Bade Xingfeng, Xinwu Touzhou, Pingzhen Donglong, and Daxi Science and Technology Park, with a total development area of about 134 hectares.

#### (3) Revitalizing Industrial Lands

By multi-leveled updates and guidance in the release of idle lands to industrial areas, the existing industrial lands can be revitalized.

#### Industrial Areas under Development

##### (1) Shalun Industrial Park

In response to the national energy policy, the Shalun Industrial Park plans to set up a solar power generation system with a smart energy storage solution. It plans to build a sound infrastructure that is not affected by external influences, such as a dedicated sewage treatment plant, and a solar power generation and smart park management system and innovative equipment are set up to create an industry environment that is ecologically inclusive and sustainable. By combining the

surrounding industrial clusters such as Dayuan Industrial Area, Guanyin Industrial Area, Taoyuan Technology and Industry Park, etc., it improves the function of supply chain resource integration and drives regional logistics industry clusters effect. The development of Shalun Industrial Park was completed in April 2022, and the auction is now under way. After the development is completed, it will provide 17.01 hectares of industrial land, introduce about 1,000 employment opportunities and create a production value of NT\$ 1 Billion.

#### (2) Taoyuan Technology and Industry Park Phase 2

Introduce the green building indicators of environmental protection, green energy and energy saving, provide comprehensive public facilities, create an environmentally friendly, ecologically inclusive and sustainable comprehensive industrial area, and promote an innovative green economy that meets the green building indicators Goal. April 1, 2021 All the land has been acquired, and the development is expected to be completed in December 2024. The completion of the development will provide 34.6 hectares of industrial land and create 8,000 job opportunities.

#### (3) Industrial Park Land Use Regulations

When Shalun Industrial Park and Taoyuan Technology and Industry Park Phase 2 dispose of industrial land, in order to avoid the vacancy of industrial lands, the model of lease-purchase is adopted. After the license is completed and the use is completed, the land can be transferred. In addition, in order to prevent land use speculation, it is stipulated that the winning bidder shall not transfer the land within a certain period of time after purchasing the land, otherwise it will be bought back by the Taoyuan City Government at the original price. It is hoped that through the industrial area development and introduction of industrial zones into areas with relatively backward economic development in the past to increase local employment opportunities.

#### Greening of Factories

In terms of factory management, through the factory greening coaching group and the low-carbon technology industry subsidy and reward plan, the factory was greened, and manufacturers were subsidized to carry out energy-saving improvement projects. The improvement effect from 2020 to 2021 is to reduce carbon emissions by 57,600 tons per year, the water saving amounted to 13,000 kWh, the electricity saving amounted to 5.847 million kWh, and the gas saving amount reached 7,000 tons. From 2020 to 2021, a total of 145 boilers were subsidized to complete the replacement, and the annual carbon reduction was about 48,400 tons of CO<sub>2</sub>e.



## 9.8 Promotion of EcoLogistics

### EcoLogistics Project Office

Taoyuan City is the international gateway of Taiwan with advantages of industrial clustering and a convenient transportation system. It builds the foundation for the vigorous development of logistics and has become the largest logistics settlement in Taiwan. Actively develop a healthy, safe and people-oriented sustainable logistics industry. In 2019, it served as the first global EcoLogistics chairman city of the international organization ICLEI. In 2020, an ecological logistics project office was established, and was invited to continue to serve as the chairman city until December 2022 (See Goal 17).

### Planning of Yangmei Smart and Shared Warehousing Settlement

The demonstration area is planned with the concepts of low carbon, intelligence and sharing, bringing together logistics industries such as medicine, mass sales, e-commerce, etc. It is expected to occupy more than 50,000 square meters of storage area, and will continue to expand to 200,000 pings of smart shared warehousing settlements in the future. Through smart and shared warehousing, the settlement expects to improve operational efficiency and enable flexible use warehousing space with the objectives to reduce carbon emissions, reduce corporate idle resources and reduce operating costs. Meanwhile, advanced automation equipment is engaged to improve tally efficiency, while AI systems are introduced to reduce warehouse delivery time and improve floor efficiency and shipments quantity.

Warehousing in the demonstration area promotes the installation of renewable energy including solar optoelectronics. Currently, the annual power generation is over 9 million kWh, and the carbon reduction is about 4,600 metric tons. There is more room for green energy development in the future.

## 9.9 Industry 4.0

### Integration of Technologies for Promotion of Industry 4.0

As an important manufacturing center in Taiwan, it is also the City with the highest industry output value in Taiwan for ten consecutive years. With the vigorous development of industry 4.0, the manufacturing industry is facing fierce competition. In the past, mass production and low-cost competition were no longer the key to victory. Taoyuan City Government and the central government jointly to promote the Asia Silicon Valley Plan, we also hope to assist in industrial transformation and upgrading, assist enterprises to cross the digitalization gap, guide enterprises to establish e-commerce platforms, and guide the transformation of smart factories.

### Promotion Plan for Digital Transformation of Asia Silicon Valley Businesses

In view of such circumstances, in order to continuously promote the transformation and upgrading of enterprises in Taoyuan City, enhance the productivity of enterprises, strengthen the efficiency of key processes, and achieve the goal of sustainable operation of enterprises, "Enterprise digital transformation service team and integrated professional management team" are organized to assist 65 enterprises in diagnosis of digital maturity, to provide the introduction of smart manufacturing and digital transformation solutions that encourages enterprises to master key technologies and products, guide enterprises to apply for the central government subsidy plan and promote enterprise upgrading and transformation.

## 9.10 Plan for Promoting

### Hutoushan Innovation Hub

#### Setting Self-Driving Vehicle Testing Platform

The City is the most complete supply chain city for auto parts and electronics-related industries in the country, which actively assists manufacturers to integrate software and hardware related to self-driving cars. A self-driving test platform has been set up in the Hutoushan Innovation Hub to provide test areas and high-resolution full-scale District digital map. The park has achieved fruitful results in promoting the development of self-driving-related industries. Many manufacturers have accumulated experience in self-driving technology in the closed test area of the park, and some manufacturers have exported domestic self-driving cars to Southeast Asian countries. The park will later be incorporated with smart signs, smart monitoring, 5G Internet of Vehicles, and the newly added Phase II road test scenarios to attract new startups related to the self-driving vehicle industry to enter the Hutoushan Innovation Hub, dedicated to the research and development, production and operation of self-driving vehicles.



## 9.11 ICT Industry Guidance

### Purchase of Smart Machinery or 5G for Income Tax deduction

In order to encourage enterprises to purchase smart machinery or 5G, where a purchase reaches a certain amount from 2019 to 2024, a deduction at 5% for the tax payable of the current year or a deduction at 3% for the tax payable in the most recent three years can be made according to the "Statute for Industrial Innovation".

### Establishment of Hutoushan Innovation Hub

The Hub assist the City's manufacturers to enhance the research and development energy of self-driving vehicles and information security Internet of Things, accelerating their transformation into 5G, Internet of Things, autonomous driving, information security and smart manufacturing industries, with linking to international standards and establishment of innovation and startup clusters.

### IoT information security and new industry guidance

Hutoushan Innovation Hub enhances the concept of information security design by establishing a mentoring mechanism for innovation, investment and IoT startup teams, providing IoT information security testing services, information security education and information security certificate certification courses, and new teams entering the R&D space, etc. and allow the power aggregation of IoT-related industries. The Hub will continue to support domestic industry players to strengthen their capabilities in R&D, production, operation, and IoT information security, and establish a new industry development platform.

### Various Subsidies for Enterprises

Through the "Taoyuan City Industrial Development Self-Government Regulations", incentives and subsidies such as land tax, housing tax, real estate rent, labor wages, labor vocational training fees, etc. are provided for applicants qualified to apply as investors or corporate headquarters.

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## 9.12 Internet Penetration

In response to the popularity of mobile devices, Taoyuan has built a friendly digital environment, providing the public with free wireless Internet access in indoor and outdoor places.

### Planning of Small Cells

The simultaneous planning of Small Cells engaging 4G/5G network-based IoT plus 900+1800MHz 4G dual-band provide citizens with better broadband services.

### Free Wi-Fi hotspot available

As of 2021, Taoyuan City has availed total of 717 free wireless Internet hotspots, mainly distributed in mass transportation nodes, cultural and educational venues, public places, tourist attractions, night markets, parks and business districts.

### Provide outdoor high-performance wireless hotspot

A number of outdoor high-performance Access Points (AP) are also provided in squares before TRA Taoyuan Station and Zhongli Station Square, etc., with a total of 10 hotspots in 2 hotspot areas, and wireless network coverage on elementary and junior high schools reaches 100%.

### MRT Green Line stations to build wireless network

Considering that the MRT station is an important area with flows of the public, the MRT Green Line has included free wireless network at the MRT station during construction period with a view to achieve the Taoyuan City visions of 5G and smart city through engagement of ICT, IoT and AI technology. In 2020, the total Internet access rate of Taoyuan City citizens was 91.3%, the highest in Taiwan.

# Reducing Inequality

## Reduce inequality within and among countries.

The international net migration rate of Taoyuan City is 0.53%, ranking first in Taiwan, while the foreign population accounts for about 2% of the City's total population. Taoyuan City is committed to creating an inclusive society and assisting the foreign population to integrate into the local life. While assisting the foreign population, it also pays attention to the equal rights of indigenous peoples and remote villages, meanwhile, through the right of access to culture and access to the media, the City intends to reduce inequality and promote the balanced development of urban and rural areas.

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- 10.2 Plan of Promoting Recreation and Entertainment
  - Activities for Foreign Migrant Workers in Taoyuan City
- 10.3 Cultural Tours, Festivals and Rituals of Indigenous Peoples in Taoyuan City
- 10.4 "Memorial Day for Indigenous Peoples Name Rectifications" Events Held on August 1 Every Year
- 10.5 Insuring Indigenous Peoples with Micro-Insurance

### **Rights of Religions 108**

- 10.6 Guiding Religious Groups in Lands Declaration for Safeguarding Properties
- 10.7 Preserving and Extending Religious Beliefs by Assistance in Lands Lease

### **Culture Accessibility Rights 109**

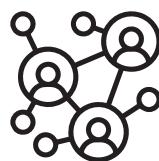
- 10.8 Taoyuan Arts Tour
- 10.9 Promoting Diverse Culture Development
- 10.10 New Immigrants Culture Hall-HOUSE 135
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- 10.12 Justice of Communications in Remote Areas
- 10.13 Welfare Intelligence Cloud
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## **Integration of Ethnic Groups**

### **10.1 New Immigrants Joint Service Center**

In order to strengthen the care services of New Immigrants, Taoyuan City established the New Immigrants Joint Service Center in 2017 to provide new immigrants with consultation services, including comprehensive and diverse services such as health care, empowerment employment, education learning, etc. throughout the phases from new immigrants residing in Taiwan by marriage to adaptation to local lives. With the work goal for new Immigrants featuring "friendliness and respect, diverse services, rights protection, and empowerment development", the City implements measures to promote new Immigrants care services, and, by combining public and private sector forces, further implement the respect to diversified culture, attention to the human rights of new immigrants, and care services of new immigrants. Meanwhile, the City actively shows the charm of new immigrants' diverse culture, making Taoyuan City an international friendly city where diverse cultures coexist and prosper.

## 10.2 Plan of Promoting Recreation and Entertainment Activities for Foreign Migrant Workers in Taoyuan City

### Organizing Recreation Activities Exclusive to Migrant Workers

The number of foreign migrant workers in Taoyuan City is about 110,000, the highest in Taiwan. In order to affirm the contribution of migrant workers to the industrial development of Taoyuan City, to stimulate the society's care for migrant workers, and to attach importance to the leisure and entertainment of migrant workers with a view to promote friendly exchanges, the City organize a series of leisure activities for foreign migrant workers, such as talent competitions, sports and fun competitions and other activities.

### Planning of Participatory Budget

The way of planning participatory budget is proposed and voted by migrant workers to create a friendly living and working environment for migrant workers together with enterprises. Taoyuan City's "Participatory Budget for Migrant Workers Leisure and Recreation Activities in Southeast Asia" was awarded "Best Practice Award for Civic Engagement" by the Participatory Democracy International Observer IOPD (International Observatory on Participatory Democracy) in 2018 (See Goal 16).

## 10.3 Cultural Tours, Festivals and Rituals of Indigenous Peoples in Taoyuan City

### Organizing Indigenous Peoples Culture Tours

Taoyuan City, through the indigenous culture tour, experiences, and deep-rooting activities and revives the traditional culture of the indigenous people, connecting the national feelings of the indigenous people, promoting the indigenous culture and history.

### Subsidizing Indigenous Peoples in Organizing Festivals and Rituals

Through the annual festivals of the indigenous peoples, the 16 ethnic groups can show the different cultural characteristics of each ethnic group. The indigenous peoples are provided with financial and technical support so that the elderly and tribes of each ethnic group may independently plan the content and schedule of the festival, returning the dominance of the festivals to the tribes, and to provide transportation subsidies, to encourage the indigenous peoples to return to their tribes to participate in the annual ceremonies.

## 10.4 "Memorial Day for Indigenous Peoples Name Rectifications" Events Held on August 1 Every Year

August 1st is Indigenous Peoples Day, which not only commemorates the process of the rectification of indigenous peoples' names, but also is an important symbol of the status of indigenous peoples as subjects of domestic and international rights. The spiritual meaning of the national movement connects the national sentiments of the indigenous people, encourages the indigenous people to restore their traditional names, and reconnect with the original culture.

## 10.5 Insuring Indigenous Peoples with Micro-Insurance

Most of Taoyuan City's indigenous peoples are engaged in grass-roots labor such as construction and manufacturing. The probability of workplace injury or death is quite high, while the accident-related death is one of the top four causes of death for indigenous peoples. To provide basic personal safety guarantee for indigenous people, fill the gap of the government's social insurance or social assistance mechanism, safeguard the work rights of indigenous people, and prevent economically disadvantaged indigenous families from affecting their livelihoods due to accidents, indigenous people having registered in Taoyuan City and over the age of 15 are covered by micro-Insurance insured automatically without requiring applications or premium payments in advance. In case of death or disability caused by an accident, the insured can file a claim application with Taoyuan City Government, followed by insurance company examination of those eligible for claims, with maximum compensation for death or disability at NT\$200,000, and the maximum claim for accidental injury medical insurance at NT\$ 10,000 per person (claimed at actual medical costs).



## Rights of Religions

### 10.6 Guiding Religious Groups in Lands Declaration for Safeguarding Properties

Taiwan ancestors crossed the sea to Taiwan to build many temples, and many believers have made their property or land as offerings to temples. The land that should have been registered under the name of the temple, yet due to many factors, there are often deviations on the name on the land registration from that of temple registrations, preventing temples from claiming land ownership. In order to reduce the lands with unidentified ownership, Taoyuan provides guidance assisting religious groups to perform applications under the same subject, allowing the lands to be returned to the temples legitimately. As of 2021, the City has assisted name change registrations to 193 transactions, protecting the rights and interests of religious groups.

## **10.7 Preserving and Extending Religious Beliefs by Assistance in Lands Lease**

Earth God is the most common belief among the people in Taiwan. The people worship Earth God as the local guardian, which results in the high penetration of Earth God temples. There are more than 600 Earth God temples in Taoyuan City, but only a few have completed the registration. In the event that an Earth God temple situating on a public land, the temple would face the demolition and relocation issues when the land requisitioned due to government policies such as rezoning, park development or other factors.

### **Issuing Working Guidelines for Treatment of Temples Occupancy of Municipal Lands in Taoyuan City**

In 2016, "Working Guidelines for Treatment of Temples Occupancy of Municipal Lands in Taoyuan City" was released, assisting the owners of the Earth God temples to lease land from the public land management authority to maintain and continue local beliefs. So far, 32 temples have sought after assistance via this method. In addition, a comprehensive and in-depth survey has been conducted since 2019 to establish documentation concerning Earth God history.

## **Culture Accessibility Rights**

### **10.8 Taoyuan Arts Tour**

In order to implement the concepts of "culture equality" and "culture access right", the City has been organizing art tour plans since 2013 by inviting high-quality professional performance groups to perform in various districts, which covers music, modern and traditional drama, dance, stunts and other diverse performances, attracting citizens to exit their homes and enjoy traditional and modern performances in the fields adjacent to their homes. Thus is to shorten the gap between cultural resources, and achieve the vision of appreciating cultural differences, promoting the root of arts and culture education, and deep cultivation of cultural sustainability.

### **10.9 Promoting Diverse Culture Development**

#### **Establishing Taoyuan District Resources Center**

In order to show the multi-ethnic characteristics of Taoyuan City, the Taoyuan City Library Main Library established the "Taoyuan District Resources Center", which features "diverse culture" in its collections with books in Southeast Asian languages such as Vietnamese, Bahasa Indonesia, Thai, Burmese, Bahasa Melayu and Cambodian in genres of literature, novels, medicine, psychology, education, etc., which not only allows new immigrants and foreign workers to read books from their hometowns for alleviating their homesickness, but also allows them to absorb new knowledge and gain the joy and sense of achievement in learning.

### **Hosting of Diverse Culture Book Fairs and Lectures**

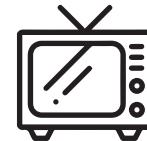
Annual multicultural theme book exhibition and series of lectures, promotion of multicultural exchange development, and understanding among heterogeneous groups.

### **Furnishing Diversity Book Corners**

In addition, the Longgang Branch of Zhongli District also features multiculturalism. In addition to the multicultural area outside the museum, the Branch also furnishes a diversity magazine and book corners, providing a suitable reading space for new immigrants.

## **10.10 New Immigrants Culture Hall-HOUSE 135 Diverse Culture Exhibitions and Promotion Events**

In order to promote exchanges between diverse cultures, furthermore enabling acceptance and appreciation of differences amongst cultures, HOUSE 135 is established to provide new immigrants a space for independent performances, exchanges and learning, and invites new Immigrants groups and local youth to plan exhibitions and promotion events from a festival or life perspective. In 2021, 3 exhibitions and 9 promotion were held, with a total of 5,100 participants. The HOUSE allows the citizens to understand the culture of new immigrants' home country, so as to avoid all forms of discrimination and prejudice and furthermore facilitate social harmony.



## **Media Accessibility Rights**

### **10.11 Media Accessibility Rights**

#### **Setting Rules of Application for Use of Public Channels**

In order to protect citizens' freedom of speech and to ensure equal opportunities for "access to media", the three cable TV system operators in Taoyuan City have formulated regulations for applying for the use of public channels for government agencies, schools, groups and the public to apply for broadcasting public welfare, arts and crafts, cultural, social education and other programs allow citizens to cultivate civic media self-discipline, possess the skills of citizen journalists, record the process of local growth, and respond to current affairs and policy issues.

## Taoyuan Urban Records and

### Images Empowerment Workshop 4 Years in a Row

Senior journalists and journalism communication scholars are invited for lecturing courses such as news editing, video planning and shooting. In 2021, a new local revitalization theme course was added. The combination of video production and media communication technology with the theme of local revitalization will stimulate students' creativity and public affairs participation ability, thereby enriching the content of cable TV public channels.

## Cable TV Operators Cultivating Media Literacy

With the development of internet and mobile technology and the prevalence of social media, the three cable TV operators in Taoyuan City have converted public channel resources and photography editing equipment to cultivate citizens' media literacy and primary photography editing courses.

### (1) Cooperative Education with Schools

Equipment and teaching materials provided free of charge, with cooperative education joined by teachers and students as means of infusing media literacy into teaching.

### (2) Promoting Photography and Writing of

#### Stories by the Mass

In collaboration with the domestic troupe SHADOW, the promotion featuring self-directed and starred films narrating community stories are made; meanwhile, the citizens are taught the means to "write" a story with smartphone, ensuring citizen's equal opportunities to "media accessibility".

## Continued Promotion of Cable Public Channels

During the 2021 epidemic prevention period, public channels were used to broadcast online learning and epidemic press conferences, and a cable TV media experience camp was held in cooperation with Taoyuan local cable TV. Targeting elementary and junior school students in Taoyuan, the Camp includes introduction of functions and applications of local public channels, allowing school kids know more about cable TV media, thereby cultivating citizens' ability to use media from an early age. It is expected that the events may expand the benefits of public channels.

## Information Equality

### 10.12 Justice of Communications in Remote Areas

#### Reinforcing Cables and Utility Boxes at Coastal Areas

To fulfill the justice of communications, Taoyuan City urges operators to reinforce the salt resistance of cable and utility box to lower the frequency of signal loss in the coastal areas.

## Promoting Cable TV Infrastructure in Indigenous Areas

In the indigenous area, the City strengthened the signal quality, promoted the cable TV infrastructure construction in the Fuxing District, and completed the construction of coaxial cables in 10 areas in the Fuxing District, including the upper Baling area, which is densely populated by tourists in the Fuxing District reaching the four neighborhoods in Hualing Village of Fuxing District, 1,400 meters above sea level and at the junction to Yilan County. As of 2021, the cable TV cabling rate of households in Fuxing District has reached 95.3%.



### 10.13 Welfare Intelligence Cloud

#### Constructing the Welfare Intelligence Cloud

To enable citizens of different age groups and ethnic groups to obtain sufficient and real-time welfare information and ensure their rights and interests, Taoyuan City has built a welfare intelligence cloud, so that everyone can quickly find suitable welfare subsidy.

#### Digital Platform for Diminishing Cognitive Gap and Waste of Time

Through the Welfare Intelligent Cloud Platform, the public can use personal computers or mobile devices to inquire about various welfare subsidies according to their own identity and problems encountered, making it easier for the public to search for the welfare subsidies applicable and as a replacement to the traditional and hard-to-comprehend application provisions, thereby reducing the public's cognitive gap and time consumption, meanwhile achieving the benefits of welfare promotion.

### 10.14 Tax Secretary -

#### Citywide Tax Service Network

#### Formulation of "Work Guidelines for Promoting the Implementation of the City-wide Tax Service Network via Tax Secretary"

To narrow the gap between urban and rural areas and build a complete tax service network in Taoyuan City and therefore improve service quality and implement the depth and breadth of services, Taoyuan City has formulated the "Work Guidelines for Promoting the Implementation of the City-wide Tax Service Network via Tax Secretary", allowing tax secretaries to adhere to the civilians, and implementation of various service measures of convenience, including visiting the countryside to participate in resident activities, acceptance of various tax applications and consultations, provision of the latest tax information and activities on a monthly basis, with diverse and convenient service channels (e.g. LINE, e-mail, telephone).

# Sustainable Cities and Communities

## Make cities and human settlements inclusive, safe, resilient and sustainable.

Encompassing the aspects of residence, transportation, public facilities, culture preservation, disaster reduction, environmental protection, policy formulation, etc. in the City, just as the epitome of SDGs goals, it is the objective to value in priority in a city's dedication to sustainability. In addition to the spatial positioning given under the country's spatial planning, urban development and planning should take into account the needs of citizens' lives, and, promote urban-rural connections and under the premise of environmental sustainability to leave suitable development space for the next generation.

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# Ensuring Housing Justice

## 11.1 Promoting Diverse Social Housing

### Expediting Social Housing Constructions and Supplies

The City adopts multiple methods such as urban plan acquisition, urban renewal and repatriation, cooperative establishment of farmland and water conservancy departments, state-owned land lease, appropriation, and central construction, with promotions according to the needs of each district and urban development. By the end of 2021, 51 sites with a total of 12,000 housing social households (including 38 sites planned by Taoyuan City and 13 by the central government), while 7,195 households in 30 sites are being promoted. Meanwhile, in combination with diverse public service facilities, the City intends to build a friendly community. In 2021, 4 sites with a total of 1,153 households have been completed, and it is estimated that a total of 3,995 households would be completed by the end of 2022, enabling stable growth in number of social housing reserves and continued and stable construction and supply.

### Supported with Diverse Rental Subsidy Resources

Combined with the subleasing plan and the housing subsidy plan to encourage the release of private housing resources, by the end of 2021, the number of eligible households for rent subsidy totaled at 19,000, and a total of 3,110 households were developed through subleasing (Phases 1, 2, and 3), totaling at 22,110 households, providing citizens with a variety of rental options and reducing the burden of renting.

## 11.2 Indigenous and Tribal Land Use Zoning Rectifications

### Realizing Housing Justice in the Indigenous Areas

Taoyuan City has the second highest indigenous population in Taiwan, yet the proportion of indigenous tribal construction land is relatively low, and the indigenous tribes were all included in the hillside conservation area in the early days. In terms of quality and living safety, Taoyuan City takes the initiative to correct the use zone to rural area and the use land category to B-type construction land, specific-purpose business land and other appropriate land, and give priority to assisting in the rectification of legal building and gathering areas 4 tribes in Fuxing District Qara, Hakawan, Ksunu' and Butonokan to rural areas.

### Determining Zoning for Maintaining Life Functions

By restoring the rights of the indigenous tribes to legally use the existing land, maintaining the integrity of the local life function and the traffic function of the existing roadways, it is expected to improve the living and production environment of the indigenous rural areas, meet the needs of residential construction and protection and disaster relief, and improve the level and The social economy of the mountains is positively connected with the Environment, and the land in the native area can be used reasonably and legally.

## 11.3 Dahan River Urban Indigenous Tribes Creation

### Guaranteeing Residence and Reinforcing Constructions

The banks of the Dahan River were the bases for the early indigenous people to live and cultivate in the north, forming two riverside indigenous peoples settlements in Pamatangan and Saowac. To ensure the rights of residence of the tribes, Taoyuan City facilitated water use, electricity use and house number assignment plus reinforcing the construction of surrounding roads to solve the basic living needs of the indigenous people.

### Periodic Follow-Ups for Proper Care

the City periodically track the household status, welfare status, social resources obtained, etc. of the tribe, so that the life of the indigenous peoples is properly taken care of.

### Cultural Inheritance in Tribal Areas

At present, the land in Saowac has been allocated to the Taoyuan City Government, and the land of the Pamatangan Tribe was acquired by the Taoyuan City Government with the consent of the Executive Yuan. In order to promote the sustainable environment of the tribe, Taoyuan City follows the spirit of "Tribal Heart" to build an urban indigenous tribes, and comprehensively considers the cultural characteristics, development context and social welfare of urban indigenous tribes, combining indigenous cultural resources under a public-private partnership model to create culturally self-evident and educational tribal parks to provide different ethnic groups a field of cultural exchange, which may ensure the inheritance of tribal culture.



## 11.4 Cadaster Clearance and Ancestry Protection Plan

### Meanings of Project Promotion

In the early days of Taiwan's retrocession, people were not familiar with the laws and regulations, which led to lands registered in the name of clubs, associations, Shenmenhui or other unknown entities during the Japanese occupation period, or those inconsistent with the current laws and regulations. In order to protect the rights and interests of the people, Taoyuan City cleared the lands of unknown ownership, revitalized the land that cannot be disposed of for a long time, to protect the safety of public real estate and the rights and interests of sustainable management and utilization.

### Following the Footsteps of the Times Plus Incorporating Concept of Equal Rights

Through public-private partnerships, the problem of land that has not been registered for a long time can be tackled. In the meantime, the perspective of equal rights in inheritance is integrated to eliminate gender discrimination or prejudice against women's inheritance rights.

### Ancestry Protection Service Team

The City actively assists the public in the registration of inheritance, and set up an "ancestry protection service team" to assist those who encounter difficulties in dividing the inheritance agreement, difficult to search for successors and other problems to apply for registration, and actively clears the cadaster to prevent land from being auctioned or nationalized.

### Complete Professional Services

Taoyuan's land affairs office provides a number of humanized and efficient service measures to improve the application rate of inheritance registration, such as to-door service, application for inheritance registration across offices, collection and delivery of inheritance cases across counties and cities, establishment of inheritance expert system and other services .

### Deepening Local Services

The City continues to improve the Plan and, aiming at the hot spots in Taoyuan City with a large number of unregistered inheritance cases and taking "village" as unit, the village chiefs and the land administration agents are engaged for in-depth understanding of the needs of the local residents in transacting inheritance registration, with practical assistances and services provided.

### Service Effectiveness

Every year, the City continue to assist the public to handle about 4,772 (buildings) real estate inheritance registrations. From 2018 to June 2022, a total of 19,991 land inheritance registrations covering about 626 hectares have been completed, with a value of about NT\$ 46.97368 Billion.

## 11.5 Land Administration Information Internet Services

### Online Services with Greater Convenience

Taoyuan City provides the public with online application services for various land affairs cases, information inquiries on land affairs and real estate transaction prices, to avoid transaction disputes. In 2021, there was 7 million online applications and 5.4 million online inquiries made. Through the deepening and innovation of online services, the resilience of property transaction security by the mass can be strengthened. Meanwhile, the service includes disclosure of appropriate living environment and transparent transaction price information for constructing a fast, convenient, safe and sustainable living service for citizens.

## 11.6 Cadaster Quality Improvement Operations

### Graphics Presentation for Greater Precisions

As cadastral maps have been used for a long time and the early technology is limited, the cadastral map drawings are challenged by issues such as zooming, damage, blurring, excessively small scale, precision beyond control, jointing of maps, etc. To ensure the rights of the land owners and the consistency amongst drawing, certification, and the actual land, Taoyuan City continues to handle the re-measurement of cadastral maps, the integration and construction of graphical digitized cadastral maps, and the overlapping of urban plan topographic maps.

### Governance Effects

By the end of 2021, the completion rate of re-measurement of cadastral maps reached about 99.6%, and it is expected to be fully completed by 2022; the completion rate of integrated construction of graphic digitized cadastral maps and overlapping of urban plan topographic maps is about 53.6%, and it is expected to be fully completed by 2031.



## Transportation and Environment

### 11.7 Construction of Three Hubs and Six Lines Rails

#### Route Network Planning

In order to popularize mass transportation, Taoyuan City plans the "Three Hubs and Six Lines" rail network, including MRT Green Line, MRT Green Line extension to Zhongli, MRT Sanying Line extension to Bade, Brown Line, Airport MRT, underground railway, etc., connecting three urban core circles including Taoyuan District, Zhongli District, and Aerotropolis Special District.

#### (1) Construction Progress and Strengths

As of the end of 2021, the Airport MRT has been put to operation, the MRT Green Line is under construction, and other routes are under planning. The MRT Green Line is expected to be fully operational by 2028, while the MRT Brown Line will be inaugurated by 2030. In the meantime, the Terminal 3 of Taoyuan Airport will be open for transportation as the development of Taoyuan Aerotropolis will be driven by such. The MRT Green Line extension to TRA Zhongli Station is expected to be realized in 2030. Underground railway transformation can eliminate existing level crossings, land bridges and underpasses and reduce the probability of traffic incidents. The vacated ground corridor and space will be made into dedicated vehicle lanes, pedestrian trails, bicycle paths, green belts and other continuous open spaces to increase the green area and strengthen the urban disaster prevention function.

#### (2) An Extensive Transportation Route Network

The MRT has a mileage of 107 kilometers across 63 MRT stations, covering 44% of the population of Taoyuan City (about 1.31 million people). Through the expansion of the public transportation network and the planning of suitable rail transfers, it is possible to integrate transportation resources and effectively allocate transfer stations, gradually change the people's transportation habits, thereby shortening the development gap between urban and rural areas in Taoyuan City and improving the accessibility in various areas of Taoyuan City.

### (3) The Taipei-New Taipei-Taoyuan 1-Hour Rail Living Sphere

The Taoyuan MRT system can be connected to the Taipei MRT system, Taoyuan International Airport, HSR Taoyuan Station and the west line of the Taiwan Railway. In the future, citizens entering or leaving the country, traveling from north to south, or moving within the metropolitan area may transfer seamlessly to various public transportation services. The "Taipei-New Taipei-Taoyuan 1-Hour Rail Living Sphere" can be formed, shortening the commute time with the metropolitan area.

#### Valuing Preservation of Cultural Assets

During the construction of the MRT, the cultural assets such as Taoyuan Jing-Fu Temple and Taoyuan 77 Art Zone (formerly the Japanese-style dormitory houses of Taoyuan Police Department) were monitored during construction, with slanting and settlement points under monitoring, and building protection was adopted when necessary. Meanwhile, a low-vibration construction method has been adopted to reduce the impact of vibration. Suspicion of historical sites or cultural relics findings during construction will also be properly preserved.

#### Green Building Design and Wasteland Management

- In the planning and construction of MRT, green building design featuring lightweight structure was introduced, and steel structures or cladding techniques have been engaged to reduce the number of reinforced concrete and decoration materials. Meanwhile, building materials with green building marks are used where applicable throughout the construction.
- BIM is applied to optimize building performance design, control the construction schedule, and reduce costs and material waste.
- When planning the MRT station base, there has been attention to permeable pavements and ecological flood retention ponds, and the plantation mainly consisted of native species and plants that attract birds and butterflies. Meanwhile, the original plants in the base were properly transplanted.
- The remaining soil of the project is given priority to supply and demand for soil engineering, and construction waste (e.g. cement blocks, asphalt concrete, steel bars) and industrial waste (e.g. fly ash, furnace stone) are recycled and reused, and the recycling rate of resource waste reaches 60%.

#### Use of Reclaimed Water and Wastewater and Sewage Treatment

The MRT planning focuses on water resource management. In addition to the use of water-saving appliances for lavatories, the water sources for the train washing system include tap water and reclaimed water, and the reclaimed water rate accounts for about 1/4; rainwater interception facilities are planned to reclaim rainwater for green field irrigation; waste water from maintenance factories or parking depots is set up with interception tanks or oil-water separators and other pre-treatment equipment to protect the function of the back-end sewage treatment plant, with wastewater discharged if in compliance with effluent water quality standards. The goal is for the treated wastewater to reach a chemical oxygen demand of less than 80ppm by 2030.

## 11.8 MRT Facilities Planning

### Raising Traffic Volume and Optimizing Services

Taoyuan Airport MRT combines the functions of airport connection, inter-city and urban transports, providing convenient transportation services for the people in Taipei-New Taipei-Taoyuan area. Since its official operation in March 2017, the annual average daily transportation volume has increased from about 56,900 passengers in 2017, about 63,600 passengers in 2018, to about 76,600 passengers in 2019 under steady growth. In 2019, the overall traffic volume increased by about 20.45% compared with the previous year, and the daily traffic volume of commuting with commuter tickets on weekdays increased by about 31%. Affected by the COVID-19, the annual average daily transportation volume was about 50,600 passengers, and about 37,600 passengers in 2021.

### Steady and Safe Train Operation Environment

Since 2019, Taoyuan MRT has been added with rail occupancy detection assistance system, and has adopted artificial intelligence to make train scheduling faster and safer. Meanwhile, it has introduced big data analysis for key equipment and strengthened predictive maintenance, and determined the indicators including traffic incident rate and train punctuality. In 2021, the major traffic incident rate was 0, and the train punctuality rate reached 99.52%.

### Introducing the Intelligent Energy-Saving Design

#### (1) Intelligent Energy-Saving Equipment

To improve energy efficiency, Taoyuan MRT regularly analyzes electricity consumption and develops energy-saving measures. Based on the building management system, it collects and monitors electricity consumption data, and grasps energy information and efficiency performance. , elevators, escalators and other equipment to implement energy-saving measures to improve the efficiency of electricity use and save electricity costs. The electricity consumption in 2021 has been reduced by 26.58 million kW·h compared with 2017.

#### (2) Diversified Electronic Payments

The authority promotes the upgrading of gate equipment at MRT stations, and introduces diversified payment systems such as credit card, Citizen Card, electronic payment or third-party payment scan code payment to diminish the printing of physical tickets and vouchers.

The MRT Green Line adopts a central Supervisory Control and Data Acquisition (SCADA), which integrates various information into monitoring through a communication optical fiber transmission system, and strengthens the drainage and earthquake-resistant design, which can prevent losses caused by disasters and improve emergency response capabilities when disasters occur.

### Enhancing Capabilities of Emergency Response

The MRT Green Line adopts a central Supervisory Control and Data Acquisition (SCADA), which integrates various information into monitoring through a communication optical fiber transmission system, and strengthens the drainage and earthquake-resistant design, which can prevent losses caused by disasters and improve emergency response capabilities when disasters occur.

## 11.9 Parent-Child Friendly Trains

In order to improve the convenience of friendly parent-child travel, pregnant women and carrying baby strollers, Taoyuan MRT Company has provided a "parent-child friendly train" for traveling passengers from October 2021, with Car 3 of 1 train fully furnished, while Car 3 of 17 generic trains are partially decorated with printings of Taiwan whistling thrush in Chibii style and advocacy slogans marked with Bopomofo for easy reading by children, so that children can learn interactively while riding. In the meantime, one generic train is selected for application of "Super Adorable Taiwan whistling thrush" for sharing the good times with passengers during the trip.

## 11.10 Bus System Planning

### Status Quo for Taoyuan City Buses

Taoyuan City has 195 city buses, 50 free buses, and 8 Happiness Buses, covering a total of 253 lines. It is the main mass transportation in the City.

### Promotion of E-Buses

To promote energy saving and carbon reduction, Taoyuan City promotes electric buses. In 2012, Taiwan's first electric low-chassis free shuttle bus was launched, connecting important traffic nodes in Taoyuan City to effectively increase the utilization rate of mass transportation. By the end of 2021, there are a total of 48 electric buses.

## 11.11 Encouraging Riding Mass Transportation

### Marketing Plans for Encouraging Rides on Airport MRT

Taoyuan MRT implements a variety of discount schemes for fares, including NT\$ 10 discount for all lines, 50% discount for 120-Day Commuter Tickets, Citizen Card discounts, etc. Among the applicants of periodic pass holders, about 39% of the Citizens have changed their ways of transportation from private vehicles to the airport MRT, which helps increase the use of public transportation.

### Bus Ride Offers

#### (1) Bus Rider Offers for Citizen Card Holders

Since 2017, the City bus basic mileage and fare caps have been introduced. The Taoyuan City Citizen Card holders are entitled to a buy-one-get-one-free discount on city buses (the first trip was paid at the approved fare, and the second trip was subsidized by Taoyuan City at basic fare). From 2018, the Taoyuan City Citizen Card discount on the transfer between the Airport MRT line and the city bus was promoted.

#### (2) Providing Diverse Ride Information

By widely setting up intelligent bus stop signs and bus shelters, diversified bus information is provided to increase the utilization rate of public transportation.

## 11.12 Promoting Shared Electric Vehicles

### Electric Car and Motorcycle

#### (1) Promoting Shared Vehicles

Taoyuan City promotes shared transportation, providing the public with another choice of vehicles for transfer. Shared vehicles connects smart energy, smart industry and smart transportation, and has the benefits of improving parking space turnover, energy saving and carbon reduction, and reducing air pollution. Taoyuan in 2020 abolished the "Management Guidelines for Shared Vehicle in Taoyuan City" and formulated the "Autonomous Regulations for Shared Vehicle Operation Management in Taoyuan City" to manage shared vehicles with more complete regulations. By the end of June 2022, GoShare shared motorcycles and iRent shared motorcycles and cars have been approved, providing a total of 2,200 shared electric motorcycles and 100 PHEV. The daily turnover rate of shared motorcycles is 2 times, and the moving range is about 4 kilometers to 5 kilometers on average; the daily turnover rate of shared vehicles is about 2 times, with the average moving range of about 52 kilometers.

#### (2) Establishment of EV Charging Posts and Battery Swap Stations

To promote the use of electric vehicles for the public and furthermore achieve the goal of energy saving, carbon reduction and sustainable development, Taoyuan City actively builds electric vehicle charging equipment and battery swap stations. Statistics up to June 2022 indicates that the City has completed the installation of 86 sets of electric vehicle charging equipment and 45 motorcycle charging facilities in public off-street parking lots. Deformed lands of parking lots are engaged in the establishment of GoStation battery swap stations, with a total of 34 stations built.

#### (3) Electric Motorcycle Subsidies

Taoyuan City's subsidy for Electric Motorcycle is the highest among all counties and cities in Taiwan, with 1,422 Electric Motorcycle charging (swapping) stations, and market share of electric motorcycles reached 6.3%.

### Public Bicycles

In order to encourage people to use public bicycles with low pollution and low energy consumption as short-distance transportation, Taoyuan City has started planning promotion public bicycles (YouBike) and bicycle lanes since 2015. By June 2022, 390 YouBike stations have been completed, providing more than 10,000 public bicycles with a cumulative number of rentals of more than 57 million times. Meanwhile, in conjunction with the free rides for the first 30 minutes of rental, free-of-charge public bicycle insurance, and promoting judicial people in the donation of YouBike stations and promulgation of relevant guidelines, the utilization rate of public bicycles has been raised; In addition, bicycle lanes are planned simultaneously, and the current length of bicycle lanes has reached 281 kilometers.

## 11.13 Accessible Transportation Environment

### Accessible Transportation Environment

#### (1) Setup of Bus Seat-Yielding Systems

For care of the disabled and vulnerable passengers, Taoyuan City has built a bus seat yielding system and installed RFID sensors on 15 buses of Taoyuan City Line 168 via Veterans Hospitals, Min-Sheng General Hospital and TYGH. For those with discomfort and in need of seats during the ride, they may tap an activated Citizen Card over the sensing device on the bus to trigger the seat yielding service, which reminds passengers to yield their seats through emission of sounds and light flashes.

- Citizens who hold Concession Cards and Senior Citizen Cards can enjoy the service immediately without applying separately.
- Others, such as pregnant women and other people who have hidden seat needs, can also enter the Citizen Card related information on the website of the Bureau of Transportation to apply online.

#### (2) Accessible Facilities and Services at Mass Transportation Sites

During the construction of Taoyuan MRT, various accessible facilities and services were provided at the MRT station, such as accessible ramps, parking spaces, automatic toll gates, ticket machines, elevators and toilets, etc.

- The MRT carriages are equipped with priority seats, dedicated spaces for wheelchairs, and handrails. Accessible facilities such as electric wheelchair charging seats, exclusive waiting areas for wheelchairs, and fixed parking areas for wheelchairs are set up.
- The station staff provides relevant assistance, such as guiding and assisting visually impaired passengers to take the MRT, and setting up accessible signs and warning bricks in the station as an autonomous guide for accessible facilities.

##### Jinguo Bus Interchange

When the transit station is set up, relevant accessible facilities are planned in the station, such as accessible toilets, accessible elevators, fraternity seats, accessible ramps, accessible car and motorcycle compartments, etc. If necessary, accessible USB charging areas, accessible counters and other hardware equipment are set up for public use, and station staff also provide related services to create a good accessible environment.

##### Accessible Parking Discount

Provide Persons with Disabilities 4-hour parking discount and guarantee the ratio of disabled parking spaces.

### Transportation Fare Concession for the Underprivileged Groups

Taoyuan continues to implement multiple preferential fare schemes for the needs of disadvantaged groups, women, children, persons with disabilities and the elderly, such as social welfare cards and child ticket discounts, etc. With Citizen Card (respect for the elderly, love card), 800 points can be used for fare discount, which in 2021, the average daily use of social welfare cards (including Senior Citizen Cards, Concession Cards, Love Companion Cards and Children Cards) was 2,873, accounting for about 7.63% of the total airport MRT traffic. From January 2022 From the 1st,

foreign seniors who are 65 years old and above and hold residence permits in various counties and cities can enjoy half-price one-way tickets by taking the airport MRT, perfecting the friendly care for the elderly.

### Transportation Services Friendly to Elderlies and Persons with Disabilities

Taking into account the mobility of the elderly and Persons with Disabilities, Taoyuan City provides friendly transportation services.

#### (1) Chartered Long-Term Care Service Rides

In response to the medical and rehabilitation needs of the disabled elderly in the long-term care, a long-term care service vehicle equipped with wheelchair lifting equipment is provided. Transportation allowances are also provided.

#### (2) Providing Chartered Rehabilitation Bus Rides

In response to the needs of persons with disabilities for medical treatment, schooling, employment and other diverse social participation, the City provides rehabilitation buses equipped with wheelchair lifting equipment, improving the transportation convenience of Persons with Disabilities by means of private car transfers.

#### (3) Establishment of Accessible Taxi Fleet

Cooperate with the private sector to set up an accessible taxi fleet, which provides general taxi models and accessible vehicles available for assistive devices transports. Holders of Taoyuan City Citizen Card-Senior Citizen Concessionaire Card are eligible for the subsidy of partial fare. At present, there are 7 companies with a total of 2,240 vehicles in the fleet, including 79 accessible taxis containing general passenger seats and a wheelchair seating zone, plus a wheelchair ramp or ascending gear, allowing passengers on wheelchair to directly enter the vehicle. It is to provide passengers with multiple transportation options.

### Enhancing Accessibility of Remote Areas via Transportation

in order to improve the public transportation services in remote areas, Taoyuan City raises the frequency of Daxi Fuxing (Rahao) main line bus schedule, and promoted the 9-seat Fuxing District Happiness Bus, so that people in remote areas can make reservations through the Internet, making the travel time and route more convenient. Flexible. The proportion of households within 500 meters of public transportation in the rural areas of Fuxing District is about 88%.

### Sidewalk Quality Enhancement Plan

Taoyuan City promotes the plan for the improvement of sidewalk quality, giving priority to improving road sections located in the City center or frequently used roads with wide widths, with emphases on removing obstacles on the sidewalks, setting up accessible ramps and friendly pedestrian environments. In order to implement recycling and energy saving and carbon reduction, the sidewalk paving bricks are made of permeable bricks reworked from incinerator bottom slag, which can reduce the amount of waste compared from traditional paving bricks. By the end of 2021, about 75,000 meters of sidewalk has been improved, with a

total improvement area of about 162,000 square meters, in 2022, 9,736 meters of sidewalk with an area of 27,240 square meters is expected to be improved.

### **Smoothening Arcade Floors**

To improve the problems of arcade roadblocks, height difference, illegal parking, etc., and to achieve a "people-oriented" and "unobstructed" friendly city boasting livability, Taoyuan City targets the main business districts, stations, important landmarks, and main roads above 30 meters with higher density of crowds. and other important locations, promoting the leveling of the arcade. From 2010 to 2021, the arcade about 13,825 meters long has been completed, and the length of arcade to be improved is expected to be about 800 meters in 2022.

### **Cable and Utility Poles Undergrounding Plan**

Taoyuan City promotes the undergrounding of cables and poles in business districts, rezoned areas, widened roads, roads with sidewalks or centrally separated islands, around major public works construction, coastal disaster prevention areas, etc. By the end of 2021, the undergrounding ratio reached 51.54%.

### **Traffic Calming Zones**

#### **(1) Planning of Traffic Calming Zones**

School districts and business districts with high crowds or areas with a high incident rate are selected as sites for trial plan applications, with appropriate improvement plans based on the local traffic conditions to be developed. Goal such as "Reducing Intersection Conflict" is made through various traffic engineering methods to reduce vehicle speed with a view to reduce the number and severity of traffic incidents. As of June 2022, applications at total of 61 sites have been completed.

#### **(2) Proposal of Micro-Shaping Plans**

In 2021, the area around Taoyuan's Wanshou Road and the foot of Luzhu Mountain are adopted as the improvement area, and a traffic micro-shaping plan is proposed according to local conditions, such as lowering the speed limit, extending the pedestrian space (marked sidewalk), optimizing the hook turn waiting zones for motorcycles, reducing the passing traffic, and various improvement plans to build a people-oriented traffic environment, reduce the number of vehicles and people-vehicle conflicts in a specific road section, and furthermore avoid traffic incidents.



## **Urban Planning and Management**

### **11.14 Development of Taoyuan Aerotropolis**

Taiwan is located in the center of Northeast Asia and Southeast Asia, and the average flight time between airports in

other neighboring Asian countries is only 2 hours and 30 minutes, which shows the superior geographical location of Taoyuan International Airport. Considering that the passenger and cargo volume of the existing airport has reached the upper limit of the two runways and beyond capacity. For future development needs, it is urgent to build facilities such as the third runway to expand the capacity of airport facilities to meet the needs of air passenger and cargo. After the Aerotropolis Plan is developed, it is now possible to obtain the hinterland for airport expansion and industrial development, with 610 hectares of charter airport area, 74 hectares of free trade port area, 346 hectares of areas for industrial use, 306 hectares of the commercial area and 342 hectares of the residential area [airport park + nearby area (Phase 1)], whose land acquisition was announced on November 9, 2020, followed by land improvement zone expropriation in priority areas and other land improvements areas, announced respectively in May and July 2021.

### **Introduction of Three-Low-and-One-High, EcoLogistics, Green and Innovative Industries**

Taoyuan Aerotropolis Project adopts the main ideals of airport constructions and industrial development and constructions for the development of "Airport Economy".

#### **(1) Introduction of Three-Low-and-One-High Industries**

Utilize the geographical advantages of Taoyuan International Airport and the advantages of Taoyuan's existing industrial clusters, plan free trade port areas and industrial exclusive areas, and introduce "Three-Low-and-One-High" (low pollution, low energy consumption, low water consumption, high added value) industries , Priority investment includes six major industries including cloud computing, aviation assistance, international logistics, biotechnology, smart vehicles, green energy, etc., to drive the improvement and transformation of the national industrial output value and enhance the national competitiveness.

#### **(2) Introduction of EcoLogistics Industry**

Combining smart technology with logistics operations to develop an airport warehousing and logistics demonstration area.

#### **(3) Setting Up Dedicated Area for Green and Innovative Industries**

Aerotropolis Project uses the relevant construction facilities of Taoyuan Airport to set up a dedicated area for green innovation industries, connect Taiwan's industrial supply chain and technical capabilities, and cooperate with Taoyuan's surrounding industrial clusters, academic-research innovation and support systems to generate innovative services and high-value industrial activities, and Develop diversified industries, and encourage the establishment of R&D centers and headquarters of multinational corporations.

### **Promoting Intelligent and Resilient City with Philosophy of Circular Economy**

Taoyuan Aerotropolis Project introduced design concepts such as resilience, intelligence and circular economy in the process of infrastructure construction.

### (1) Resilience Design

- Setting up common pipeline trenches and lay out broadband facilities, and plan smart grids to integrate service systems and improve resource utilization efficiency.
- Formulating flood resilience standards, based on the principle of land sharing runoff and coexistence with water, taking into account the management of water system stormwater, earthquake resistance of public pipelines, common pipelines for life, disaster prevention and refuge, etc. The runoff stays in urban land for a long time to reduce the burden on rainwater sewers and waterways in the area.

### (2) Smart Design

- Building a database of intelligent street lights and 3D underground pipelines.
- Creating the Intelligent Aerotropolis through bridge monitoring, flood control monitoring, and Environment quality monitoring.

### (3) Circular Economy

- Formulating measures for water retention, rainwater storage, sewage recycling, etc., cooperating with Taoyuan North District Water Recycling Center, planning the use of recycled water in Aerotropolis industry, and constructing a water resource recycling environment.
- Promoting Green Building and reduce resource consumption.

### Preservation of Existing Cultural Assets

Taoyuan Aerotropolis Project retains the original 18 pond waters, and the 3 ponds leveled down in the construction of third runway was compensated by relocation under land quota control. The former Air Force Taoyuan base facilities is the base of the 35th Air Force Squadron (i.e. the Black Cat Squadron), before being designated as a historic site in 2016, it was one of the best-preserved military bases in Taiwan after decommissioning, witnessing the history of the frontline of the free world during the Cold War. In the future, the City will promote preservation and revitalization through the overall planning of historic preservation areas, park green fields, and garden roads in the future to reproduce the historical cultural field, and create the value of special cultural assets.

### Proper Settlement of Existing Residents and Plants

Aiming at the building-relocation practice, and resettlement for every village, the type 2 residential area is planned as the resettlement street blocks built by the people, and the type 5 residential area is planned as government-built resettlement and social housing.

The original legal factories in the area was divided into sporadic industrial areas without interfering with the urban plan and the zone expropriation plan, which will not be included in the zone expropriation. In addition, the existing illegal factories in the area were relocated to the area near the City government development (Phase 1) under guidance, with a 1.7-hectare industrial waste and sewage treatment plant planned. Through factory legalization, land use control

and centralized wastewater treatment, effective reduction of wastewater pollution and land return to rational use can be realized.

### Focusing on Citizen Participations

After the Taoyuan Aerotropolis Project was reviewed and approved by the Ministry of the Interior in 2014, 30 hearings were held from 2015 to 2016, whose results as well as public opinions were adopted in the review of urban plans before proposal to the Urban Planning Commission of the Ministry of the Interior. The proposal was under additional review and was approved in 2021. The total urban plan area is 4,564.26 hectares. Taoyuan City Government announced on October 29, 2021 the implementation of the Taoyuan Aerotropolis Airport Park and Nearby Areas (Phase 1) Project. In addition, the Ministry of the Interior following its approval of scope of zones to expropriate and the proportion of compensation equivalent lands in 2018, the appraisal of the land and surface features was carried out, starting from 105 land purchase price negotiation meetings and public hearings on zone expropriation held in 2019, which was followed by 225 ground features purchase price negotiation meetings and zone expropriation hearings from June 2020 to May 2021. This Project has been reviewed and approved by the land expropriation review team of the Ministry of the Interior, and the land and land improvement zone expropriation have been announced and processed in November 2020 and May and July 2021 respectively. In addition, in the promotion of Aerotropolis Project, in 2021, according to the characteristics and needs of each village, briefing sessions on sites of rural area were held. In 2022, 14 resettlement block draw and land allocation work briefing sessions were held for proceeded listening of opinions of the public.

## 11.15 Urban Land Readjustment Development

### Purposes for Promoting Urban Land Readjustment

Taoyuan City's land development through urban land readjustment can not only accelerate the construction of public facilities, building of public green spaces and transportation systems, but also protect the property rights of the people and improve the economic value of land, taking into account the protection of cultural assets and natural ecology.

### Urban Land Readjustment Implementation Results

Taoyuan City has completed the development of 32 redeveloped areas scattered in districts including Taoyuan, Zhongli, Guishan, Bade, Luzhu, Yangmei, Guanyin, Daxi and other administrative districts, with an area of about 1,237.22 hectares composed of 801.69 hectares of buildable land and 433.59 hectares of land for roads, parks, green fields and other public facilities. The readjustment also includes the construction of Jinguo Redevelopment Area on one side of the Nankan Interchange, setting up a bicycle path around the river to provide citizens with sports and leisure, and developing a LOHAS Eco-city in the Guanyin Caota area developed in sync with nearby industrial areas, providing a high-quality living environment.

## 11.16 Zone Expropriation Plan

### Promoting Zone Expropriation

Taoyuan City bridges the gap between urban and rural areas through zone expropriation, rationally plans land use, constructs and improves public facilities, provides livable environment, and maintains local ecological and cultural textures to promote sustainable development in urban and rural areas.

- Strengthening communication channels with the public through procedures such as public hearings, briefings, and hearings, and formulating mechanisms such as reasonable compensation for demolition and relocation, incentives, resettlement plans, and land distribution, and replacing traditional forced evictions with counseling and reconstruction to effectively protect people's property rights.
- At the same time, with the concept of urban disaster prevention combined, the drainage system and flood detention facilities are planned to reduce the impact of development and strengthen the urban resilience.

### Zone Expropriation Implementation Results

Taoyuan City has completed zone expropriations to 9 areas intended for development, covering an area of about 1,164.63 hectares, including 661.6 hectares of buildable land and 503.03 hectares of land for public facilities such as roads and parks, of which the 4.8-hectare Fenghe Park is a space for recreational sports and disaster prevention. In addition, there are many large-area parks such as Xiangyang Park, Jiande Park, Xingfeng Park, Rende Park, etc. Existing cultural assets (such as Dexin Hall, Shishanju, Lin Qizhen Cemetery) and ponds (e.g. Blue Pond Park) within the scope of zone expropriation are preserved.

## 11.17 Urban Renewal Promotion Plan

### Active Promotion of Urban Renewal

Taoyuan City promotes urban renewal, including the government-led urban renewal, assisting the private sector in the urban renewal of sea-sand houses, promoting the accelerated reconstruction of unsafe and old buildings, promoting development of low-use land, and obtaining service public facilities to realize public welfare of urban renewal and improve the function of living environment.

### Urban Renewal Implementation Results

There are 4 public urban renewal projects in progress, which are the urban renewal at Zhongxing Lane, Dongmen Section, Fuxing Road, and Zhengguang Road. In the meantime, public service facilities (social housing/police and firefighter dormitories, childcare centers, parent-child halls, senior learning center, civic activity center, youth startup center, etc.) are planned and provided for public use with an expectation to promote civil renewals by the improvement of old city blocks driven by public sectors. Renewals at Zhongxing Lane and Dongmen Section are expected to be completed in 2023.

In addition, the City also actively promotes and guides the private sector to handle self-renovation, reconstruction of sea-sand houses, and reconstruction of unsafe and old buildings with a view to accelerating the renewal of unsafe

and old buildings, giving residents a sustainable and safe living environment, and implementing urban sustainable development goals.

## 11.18 Public Idle Lands Revitalization

### Advantages of Public Idle Lands Revitalization

The public idle land and facilities are the assets of the people. Through effective use, management and proper development and utilization, the environment can be made sustainable and financial expenditure can be reduced. Through the renovation and activation of old facilities, the idle land can be eliminated, allowing land resources to be effectively and fully utilized, so as to build a shared, inclusive, safe and healthy living environment featuring sustainability.

### Public Idle Lands Revitalization Implementation Results

From 2019 to 2021, the area of public land that was acquired and allocated for revitalization have reached 142.43 hectares, including the construction of the Aerotropolis MRT Green Line, the coastal management of Laojie River and Shezi River, and the widening of Luxing S. Road and other public works.

## 11.19 Good Household Registration

### Neighbor-Turnkey Electronic Service Plan

Household registration affairs are closely related to the rights and interests of the people and the affairs of various agencies. Taoyuan City strengthens the electronic management of house numbers and household registration data in the Japanese era, and provides one-stop e-services. When citizens transact household registration at the appropriate office, the latest household registration information can be updated to all cooperative agencies through the information platform, and the information at respective agencies such as taxation, land administration, supervision, postal service, water supply, electricity, natural gas can be updated simultaneously. In addition, services such as health insurance cards application and issuance, life insurance associations affairs, labor insurance benefits, subsidies from the Ministry of National Defense, and initial passport applications from the Ministry of Foreign Affairs are available to save the public from the hassle of traveling and achieve carbon emissions reduction. In 2021, all household registration offices in Taoyuan City accepted inter-agency information changes in household registration information reached a service ratio at 286.83%.

## 11.20 Premium Public Building

### Green Building Design Introduced to Public Buildings

Taoyuan City introduces green building design in the planning and construction of public buildings based on the principles of "ecology, energy saving, waste reduction, and health", promoting the symbiosis and mutual benefit of the building and the environment as well as sustainable management of the residential environment. Such introduction was made to important projects, for instance, Taoyuan

City Library Main Library, Taoyuan Museum of Fine Arts, Taoyuan Exhibition and Trade Centre, Taoyuan Sunlight Arena and Pingzhen Sports Center.

### **Constructing a Smart City**

Smart buildings are constructed in major projects such as "Asia Silicon Innovation R&D Center", applying technologies such as network, monitoring, IoT and system integration to enable buildings to achieve automatic sensing, analysis and response, thereby promoting the integration of construction industry and information and communication technology and allowing the City to showcase its smart city style.

### **Implementation Results**

From 2015 to 2021, the public buildings in Taoyuan have obtained 200 green building candidate certificates, 107 green building marks, and 4 smart building marks. Meanwhile, the public works have been awarded various awards for their planning or construction. In 2021, a total of 75 awards was won, including 3 Golden Safety Awards, 25 Golden Quality Awards, 27 National Construction Excellence Awards, 10 Architecture and Gardening Awards, 1 Engineering Environment and Beautification Award, 1 Engineering Excellence Award, 4 Chinese Architecture Golden Stone Awards, and 4 National Architecture Gold Awards.



## **Protecting Cultural Assets**

### **11.21 Promotion of Taoyuan Ponds and Stone Weir Preservation and Sustainable Development Plan**

#### **Country of a Thousand Ponds**

Taoyuan is known as the "Country of a Thousand Ponds" for the high density of ponds and canals within. Furthermore, over 3,000 ponds can be found in Taoyuan. The number and density of ponds forms a landscape nowhere to be found in the world. The ponds are formed as the special land utilization in Taoyuan plateau for water irrigation, and such unique landscape that closely interacts with the residents' lives allows us to witness the development history of the Taoyuan plateau and has the function of regulating the climate and biodiversity. It is rich in the value and significance of culture and nature, and one of the 18 locations in Taiwan with potential to become registered as world heritage.

#### **(1) Ponds Registered as Cultural Landscape**

In 2022, Taoyuan City will register the "Taoyuan Sanceng District Pond System" as a cultural landscape. The scope

of registration is the Sanceng canal system-Baishi Pond, Longguomai Pond, Cihu, Niujiaonan Pond, the body of the canal in natural river channels between Baishi Pond and Niujiaonan Pond, the embankment and its ancillary structures, and Dongxing Bridge. Xinfu Pond System - Xinfu Pond No. 1 Pond, Xinfu Pond No. 1-1 Pond, canal between No. 1 Tunnel and Xinfu Pond No. 1 Pond, as well as bodies of Tunnels No. 1, No. 2 and No. 3 Tunnel, embankment and ancillary structures.

#### **(2) Pond Revitalization and Regeneration**

In addition to promoting cultural preservation for pond landscape, Taoyuan City also promotes ponds revitalization and regeneration by transforming them into parks with both leisure and climate regulation functions (See Goal 6).

#### **Xinwu Kejian Stone Weirs**

Xinwu Stone Weirs is one of the few Stone Weirs still in use and maintenance in northern Taiwan, reflecting the relationship between the special form of local coastal fisheries and the Environment, and is a fixed landscape that presents the interaction between human life wisdom and nature.

#### **(1) Stone Weirs Registered Cultural Landscape**

Taoyuan City registered the well-preserved Xinwu Kejian Stone Weirs No. 2, 3 and 6 as Cultural Landscape in 2019. Taoyuan City will track the Cultural Landscape catalogue of the restored Xinwu Kejian Weirs No. 1, 4, and 5 in 2022.

#### **(2) Promote sustainable development plan**

Taoyuan City actively promotes the preservation promotion and sustainable development plan of Xinwu Stone Weirs, and performs inventory on Stone Wier Culture investigation progress in line with the World Ocean Day through relevant investigation and research, feasibility assessment, culture impact and education promotion, maintenance projects and other plans.



#### **(3) Promote Environmental Education**

Taoyuan City also promotes conservation and environmental education in Stone Weirs through civic cooperation and international exchanges (See Goal 14).

### **11.22 Historical Building Restoration Plan**

#### **Preserving Military Village Cultural Assets**

Taoyuan City not only has the highest density of households in military villages, but also has the highest number of large military villages in Northern Taiwan. In recent years, old military villages have been rebuilt and demolished, facing the crisis of empty buildings and disappearance of culture. In order to gather the awareness of military villages, since 2001, through the preservation of military village cultural assets and revitalization and reuse, the military village culture has been continued; by base location, history, urban plan and cultural resources of different military villages, different reuse directions have been planned, and efforts have been made to preserve Zhongli Matsu New Village, Daxi Taiwu New Village, Guishan Xianguang 2nd Village and the former Guishan Luguang 3 Village Activity Center and other historical

places, with active restoration projects, space revitalization and cross-domain connection as the attempts to preserve the historical memory of the City for the public under the ideal of "Military Village Iron Triangle".

#### **Japanese Architecture Restoration**

Taiwan is left many Japanese-style buildings during the Japanese ruling period from 1895 to 1945. The City has restored and revitalized the appearance of Japanese-style buildings, allowing citizens to experience the charm of diverse cultures, including 77 Art Zone and Zhongli Story Houses (Zhongping Road Story House, Forest Story House, Li Jing Ding), Chung Chao-cheng Literary Park and Taoyuan Martyrs Shrine and the Culture Park.

#### **Traditional Taiwan Residential House Restoration**

The City has made utmost efforts to preserve Taiwan's traditional Minnan, Hakka, and street houses for the world (such as Daxi Lin Family Meihe Villa, Daxi Jian's Ancient House, Luzhu Dexin Hall, Longtan Sanhe Jiangxia Kewen Ancestral Hall, Longtan Sankeng Chuan Sheng Xin Ji Store, etc.). Through the remnants and building components left in the restoration process, historical information is conveyed to enrich the cultural history and background of Taoyuan districts.

#### **Ex-Air Force Taoyuan Bases Restoration**

In 2016, it was designated as a designated monument of the Special Municipality. The building group includes military facilities of the army, air force and even the navy from the Japanese occupation period to the post-war period. It has important military history and the characteristics of local construction technology schools in various eras. Among them, the hanger with large-span three-hinge arch structure, and the complete living quarters for the US military and aircrews, etc., are combined with the development and future revitalization of Aerotropolis Plan, making it valuable and potential for reuse to a high extent. At present, subsidized by the central government's forward-looking infrastructure plan, the City Government is actively investing in various restorations and emergency repairs.

### **11.23 Taoyuan City Story Houses Plan**

#### **Promoting City Story Houses Plan**

In response to the inclusiveness, safety, resilience and sustainability of cities and human habitation, and to strengthen the protection and recent use of cultural heritage, Taoyuan City revitalizes historic buildings, promotes the plan of urban story museums, provides high-quality cultural leisure venues, meanwhile attempting to arouses the identity and enthusiasm of citizens for their hometown via displaying, inheriting and recording if exhibitions local stories, it. As of February 2022, 30 buildings have been integrated and connected.

#### **Promoting Taoyuan Citizen Curators Plan**

Taoyuan City cultivates citizens to participate in the development and operation of cultural assets and local museums, and promotes cultural performances and research on "Taoyuan Studies".

#### **Revitalization of Historic Buildings at Old Downtown Districts**

##### **· Taoyuan Da Miao Kou Police Station**

With the dual historical significance of the police station in the Japanese rule era and the Baoja system in the Qing Dynasty, the original appearance was restored with the three aspects of "old city, business district, cultural and creative", and developed into a Taoyuan old city story hall and tourist information center, showing the features of "Tho-a-hng" streets in the past.

##### **· Old Taoyuan County PD Taoyuan Precinct**

Transformed into New Immigrants Culture Hall.

##### **· Taoyuan Station Old Warehouse**

Developed into Taoyuan Railway Pavilion.

### **11.24 Hakka Belief Preservation Plan**

#### **Three Great Emperor-Officials Culture Festival**

Through the organization of the Three Great Emperor-Officials culture festival in turns by villages, the local traditional culture can be retrieved, driving the development of Hakka village, strengthening the significance of Three Great Emperor-Officials to Taoyuan Hakka, allowing citizens to understand the unique Three Great Emperor-Officials belief culture in the City. The series of activities include Three Great Emperor-Officials themed special exhibition, Hakka market, Xie Ping'an Opera, gods praying pilgrimage, Chinese Senyera handover ceremony, documentary filming and other activities.

#### **Taoyuan Paper Ash Sending**

In order to inherit the Hakka group's custom of respecting words and cherishing paper and preserve the ritual of sending paper ashes and therefore strengthen the promotion of the cultural connotation of the Hakka group's respect toward words and paper cherishing. The origin, connotation and history of the traditional Hakka ritual of sending Paper Ash are presented in a lively and easy-to-understand way.

#### **Taiwanese Hakka Opera**

Taiwanese Hakka Opera is a new type of opera that has been transformed, retaining the traditional singing of "folk songs", "tea picking", "Jiu-Qiang-Shi-Ba-Diao (Multitude of Tunes)" and the humorous and lively characteristics of the three-legged tea picking opera. Through the combination of folklore beliefs and traditional opera art, the opera has the meaning of "rewarding the gods with opera", showing the spirit of "respecting the heaven and cherishing the earth" of the Hakka people.

## 11.25 Hakka Language Promotion Plan

To encourage the application of Hakka in the workplace in the public and private sectors, Hakka lecturers and tutors on-site teaching services are provided to meet the needs of the public and private groups, with Hakka Language Study classes at designated time and place available for application under the principle which 15 students have been obtained. Meanwhile, incentives including citizen and City Government employee sign-up and group registration of classes are offered to increase the chance of using the Hakka language.

## 11.26 Traditional Hakka Crafts and Performance Art Inheritance Plan

### Various Industries

The City collects information on talents in all industries and recording various traditional skills with an expectation to let more people know the simple Hakka art and the wisdom of life behind it through text, photos and video records, and hope to utilize the unique craftsmanship and rich experiences of these craftsmen and experts to record the contribution of cultural assets, establish emphasis on cultural assets, and further promote the preservation and maintenance of cultural assets.

### Hakka Folk Songs Singing

In order to promote and preserve Hakka traditional music, combined with the Lai Bixia Music Permanent Exhibition of the Hakka Hall in the City's North District and the Hakka traditional music series activities (singing plan and achievement presentation, Lai Bixia Memorial Concert, folk song singing, theme lectures and other activities), let Hakka Folk songs can be sung forever.

## 11.27 World Hakka Exposition Plan

This expo plans to set up the World Pavilion at the A19 Asia Silicon Valley Base, presenting the diversity and localization of the world with diverse Hakka with display, immersive new technology interpretation and global Hakka image translation. In addition, the Taiwan Pavilion at the Taoyuan Exhibition and Trade Centre is furnished, calling on all key counties and cities of Hakka villages in Taiwan to participate in the exhibition, presenting the development track of Hakka people along the Taiwan Provincial Highway 3, Liudui, and Taiwan Provincial Highway 9. In addition, the City will integrate the existing art and cultural buildings in Taoyuan City as a satellite exhibition area, connecting Hakka culture through Minnan, Indigenous Peoples, Military Village, New Immigrants, Earth God and other issues to show the diversity and vitality of culture and let the world see, learn, and love Hakka, love Hakka. The unique charm of Taiwan Hakka can be shown.

## Urban Disaster Prevention

### 11.28 Comprehensive management of the Whole Basin

In terms of river prevention and safety, the City formulates plans to maintain city-managed rivers and regional drainage to prevent land loss, performs regular dredging to ensure smooth waterways to prevent disasters, and promotes 46 district drainage management planning and projects, revetment construction with a total length of 46.48 kilometers, and river course arrangement with a total length of 591.16 kilometers. Meanwhile, Taoyuan and New Taipei City cooperates to remediate Dongmen River to protect Guishan Industrial Area with NT\$ 600 billion output value. Related achievements are under comprehensive review in the promotion of Taoyuan Plateau River and Canal Water Culture Regeneration and Vision Presentation Plans, publishing "Dahan River Water Pattern Review", "Flow and Change-Old Streets and Rivers that Open the Story" and "Xiwang-Transformation and Regeneration of Nankan River". Furthermore, four specific books on pond water culture are compiled, combining Taoyuan City's water culture regeneration results and water environment improvement space development blueprint planning, with a view to continue to build municipal vision.

## 11.29 Hillside Lands Management and Review

(1) The area of hillside land in the City accounts for 44% of the total land area of the City, and the terrain is mostly flat plateau. Therefore, after reviewing the retreat distance and disaster prevention facilities, the City government has performed "by year" and "by zone" demarcation of lands with slope less than 5% and area more than 10 hectares, while the lands under demarcation receive development in line with general land use control, so as to achieve rational use of the City's land and increase investment willingness. As of the end of June 2022, the cumulative area of demarcated hillside lands has reached 1,768 hectares.

(2) Conservation of soil and water in the catchment area is performed for the prevention of landslide and flood control in water areas, thereby achieving soil and water conservation and reduce runoff formed in the middle and lower reaches. In the meantime, 12.39 kilometers of wild rivers have been remediated, 42.48 kilometers of wild rivers have been clearing, and 10,328 square kilometers of collapsed land have been regulated. Flood detention facilities have also been set up at public lands, providing 10,191 cubic meters of flood retention capacity and 1,040 cubic meters of sand sedimentation in the Guishan District.

### 11.30 Building Base Bearing Stormwater Runoff

Taoyuan City incorporates the strategy of private building bases for bearing rainwater runoff in urban flood control. In addition to setting up flood detention facilities in accordance with outflow control regulations, the City also encourages by means of volume incentives the development of building bases that channels the stormwater content in excess from the road and related public facilities for temporary storage at raft foundations. In combination with the IoT system to monitor and collect and discharge the water storage capacity of the raft foundation, the building developers jointly undertake the responsibility of flood detention and water storage to improve the overall flood control capacity of Taoyuan City.

### Negotiation with Major Manufactures on Reduction

In terms of fixed pollution sources, 8 factories with large emissions of sulfur oxides and nitrogen oxides have been involved in a negotiation for emission reduction and adopted use of low-polluting fuel in replacement, control equipment update, and adjusting operating conditions to improve air quality. Among them, Datian Power Plant is expected to achieve an annual reduction of 2,401 metric tons of nitrogen oxides in 2022.

### Promotion of Low-Pollution Transportation

In order to reduce the pollution emissions of two-stroke motorcycles, the City actively promotes the use of low-polluting vehicles. There are more than 80,000 electric motorcycles in this city, and green energy vehicles such as electric buses and public bicycles are promoted.

### Smart monitoring. Identifying Pollution Hotspots

In order to avoid the impact of the environment caused by the industries, Taoyuan City took the lead in cooperating with the Environmental Protection Administration, Executive Yuan in 2017 for trial deployment of 100 air quality sensors in the Guanyin industrial Area, with proper implementation results obtained. Subsequently, air quality sensors have been installed in the industrial areas within their jurisdiction, with a total of 1,000 air quality sensors deployed in total, which reached the City's deployment benchmark:

- In 2018, 400 air quality sensors were deployed in surrounding areas of Guishan Industrial Area, Pingzhen Industrial Area, Dayuan Industrial Area, Guanyin Industrial Area, Hwa Ya Technology Park, Longtan Science Park and Sanheli Factory in Longtan District.
- In 2019, 500 air quality sensors were deployed surrounding areas of Zhongli Industrial Area, Taoyuan Youth Industrial Park, Linkou Gong-I Industrial Area, Environmental Science and Technology Park, Yongan Industrial Area, Haihu Kengkou Industrial Park, Longtan Wushulin Industrial Zone and factories in Bailu Village, Bade District.

#### (1) Smart Analysis of Pollution Sources

The industrial areas and their surrounding areas are under real-time monitoring of air quality, and the intelligent analysis of the Internet of Things is engaged to quickly identify suspicious pollution sources. In combination with the intelligent dispatch inspections by Taoyuan City Pollution Monitoring Center, instant response and handling to air quality abnormality and grievance cases are facilitated.

#### (2) Grasping on the Status of Construction Sites

Engaging smart technology for monitoring, "air boxes" and CCTV are installed to monitor the compliance rate of control over pollutions by vehicles entering and leaving high-pollution construction sites, and aerial cameras are engaged to grasp the overall view of construction sites and further improve bare ground and material stacking dust. The PM10 emissions has been reduced by 4,280 metric tons.

## Reducing Environmental Pollutions

### 11.32 Integrated Air Quality Management Plan

Clean air is one of the necessities for human survival. With the development of industry and transportation, the problem of air pollution becomes increasingly serious. In order to ensure air quality, Taoyuan City promotes various control plans for the main sources of air pollution, and grasps and updates environment load and pollution emission data coupled with air quality monitoring data analysis and exploration of the causes of daily pollution of adverse air quality events with a view to immediately report and take contingency measures when air quality deterioration events occur.

### 11.33 Smart Air Quality Monitoring

In order to make passengers feel more at ease when taking the Airport MRT, Taoyuan MRT has officially deployed the smart air box (Air Box) at all stations in April 2020 to monitor the PM2.5 concentration of each station at any time in conjunction with the use of Internet of Things (IoT). Upon box detection of concentration excess, relevant data will be sent back to the operation control center for further instructions delivery to station information display system to actively remind passengers to wear masks and reduce outdoor activity time by means of marquee or broadcast, so as to keep close tabs of the health of passengers.

### 11.34 Taoyuan International Airport Aircraft

#### Noise Prevention and Compensatory Reward Tasks Plan

Taoyuan International Airport is the national gateway connecting Taiwan to the world; however, the noise pollution generated by the flight take-off and landing operation also seriously affects the life of people in the vicinity of the airport.

#### Implementing Aircraft Noise Monitoring

Aircraft noise monitoring is carried out in the school indoor spaces within the aircraft noise control area to reduce the impact of aircraft noise on the environment and maintain the tranquility of the surrounding living environment.

#### Promoting Aircraft Noise Compensation and Reward Grants

Taoyuan City actively promotes aviation noise compensation and rebate subsidy. Based on the principle of open, transparent and immediate compensation, and the principle of earmarked funds for local rebates, participatory budgeting of airport rebates, whose allocation are mainly based on public welfare and grass-roots constructions such as free school lunches, community culture activities in, are promoted, so that Taoyuan International Airport and surrounding community residents can coexist and prosper.

### 11.35 General Waste Disposal or Treatment Plan

#### Full Garbage Recycling Treatment

Taoyuan City effectively and treats general waste through huge waste recycling, recycling, kitchen waste recycling, waste incineration and sanitation landfill, etc., and improves the total waste recycling treatment to achieve the goal of sustainable Taoyuan. In 2021, disposal or treatment rate of general waste reached 89.11%.

#### Promoting the Revitalization and Reuse of Public Landfills

The combustibles, incombustibles and humus are FURTHER distinguished and detoxified to increase the landfill capacity.

#### Setting Up a Warehouse-type Recycling Plant

warehouse-type resource regeneration plants are established to reduce pollution nuisance such as landfill seepage, odor, and biogas.

#### Restoration of Vegetation for Transformation into Environmental Protection Park

The restoration of vegetation is performed for transformation of landfill into an environmental protection park, providing residents with space for leisure activities and achieving carbon reduction benefits.

#### Waste Conversion to Bioenergy

With circular economy and waste recycling policy, waste treatment facilities are promoted to convert waste into biomass energy to achieve waste reduction (See Goal 7).

#### Waste Recycling and Reduction

The City promotes energy conservation, waste reduction and energy resource utilization of industry waste, encouraging all citizens to participate in resource recycling, adding value to marine waste treasure special bottles, using recycled pellets to road repair projects, etc., to promote waste recycling and reduction (See Goal 12).

### 11.36 Funeral Facility Transformation

With the change of the times, the way of burials has gradually changed from traditional burial to tree burial, sea burial and other natural burial methods, so that the ashes of the deceased can be returned to nature, which is in line with the international trend of sustainable development of natural environment.

#### Promoting Green Burial

Taoyuan City promotes green burial method in stages, with gradual reduction to the area of traditional cemeteries by promoting the demonstration cemetery tomb foundation and rotation burial and encouraging cremation as replacement to burial as the short-term solution. The cemetery area has been reduced from 249 hectares in 2012 to 225.69 hectares in 2021; as for long-term solution, the authority promotes tree burial, sea burial and other green burial methods, and promotes the park transformation from cemeteries. As of 2021, three tree burial areas have been set up. It is estimated that the number of tree burials will reach 1,000 per year by 2030.

#### Promoting Modern and Humane Burial Facilities

The promotion of modern and humane funeral facilities is made by year, phase, and zones. Such facilities pay attention to qualities such as sound insulation, air quality monitoring, environmental protection materials, digital display and energy consumption items. Furthermore, the crematorium in such facility is replaced to improve cremation efficiency and avoid air pollution.

## Green Public Spaces

### 11.37 Park Green Fields Development and Expansion

The park green fields are in place to provide citizens with space for leisure activities to promote healthy physical and mental development, and have the functions such as beautifying the City appearance, adjusting the climate, and environmental education.

#### Improving the Fragmentation of Park Green Fields

The City adopts strategies such as land space review, ponds and rivers linking to green fields, etc., to improve the fragmentation of park green fields, and connect the "blue" and "green" in series to construct a Taoyuan green field system based on ponds and reservoirs to cope with climate change.

#### Promoting Inclusive Playground

At the same time, in order to make the park livelier and more interesting, Taoyuan City has been promoting inclusive playgrounds with the core goals of "freedom", "features", "naturalization", "safety", "fairness" and "challenge". Furthermore, in accordance with the United Nations International Children's Emergency Fund (UNICEF) Convention on the Rights of Children, the City attaches great importance to children's "survival and development rights", "protection rights", "participation rights", allowing children to coexist and prosper with others (groups) and nature.

In order to create a playground for use by different age groups and different levels of disabilities, Taoyuan City combines the characteristics of existing areas, landforms, facilities, etc., and creates parks with different themes, such as ecological park, riverside park, pond parks, sports parks, green belt parks, historical parks and pet parks, etc. It is estimated that at least two inclusive parks are constructed in each administrative area to increase the utilization rate of citizens, and the neighborhood satellite game park and the City's flagship playground park are planned.

#### Implementation Results

In 2021, every 10,000 citizens have access to 4.19 hectares of green field resources in Taoyuan City. There are a total of 752 parks, of which 368 have been furnished playgrounds, and another 47 inclusive or featured playgrounds have been opened or under construction.

### 11.38 Create a Hydrophilic Environment

#### River Bank Greening Planning and Construction

(1) In order to improve the City's green coverage rate and protect the natural ecology, recovering the original comfortable living environment, and take into account ecological conservation, Taoyuan City adopts ecological-based and safety-oriented engineering methods when handling river remediation projects, taking into account the construction of the surrounding environment. Green fields are planned and set up in the riverside area to provide the public with water recreational space and enhance the urban green fields.

(2) Building Dahan River Shanzhuhu Hydro-ecology Park and Yuemei Wetland Ecology Park, etc., to create 84 hectares of green and beautification area.

(3) Building 50.4 kilometers of bicycle paths in Laojie River, Nankan River and Dahan River.

### 11.39 Hiking Trails Renovation

Taoyuan City has built and maintained hiking trails to improve tourist routes and scenic spots to encourage people to get close to nature. From 2017 to 2021, the total length of the renovated trails is about 5,500 meters.

#### Hutoushan

Positioned as a low-density urban ecological park, three major mountaineering systems are planned at Hutoushan. In 2019, the layout of the Taoyuan No. 11 ridge trail and the Shuibiantou trail has been completed, and the rest node facilities on the back mountain trail have been continuously optimized; the Hutoushan all-age friendly trail adopts a step-free design with wide and gentle plank road wide and gentle for easy access of wheelchairs and strollers, and the elevated wooden trestle construction is adopted to protect the natural habitat of animals and plants from damage.

#### Cihu

In order to improve the quality of tourism and recreation in Cihu, the pavement is improved at the entrance and nodes of the Baiji Tree Trail, and rest and shading facilities are added along the path; the trails in front of and behind Cihu are connected, with history and ecology as the main ideal to increase the characteristics and depth of scenic spots. Meanwhile, the height differences of the trail are reduced to provide a safe and comfortable walking space friendly to all ages.

#### Creating a Sustainable Lifestyle

In Xiaowulai, the plank road improvement and stabilization of the Xiaowulai Forest Breathing Trail are carried out, so that the public can feel the beauty of the natural valley and inhale the forest phytoncide in a safe environment.

## Urban and Rural Development Connections

### 11.40 Inclusive Spatial Planning

In response to climate change, and to ensure national security, conserve natural environment and humanistic assets, promote the rational allocation of resources and industries, strengthen the management mechanism of national land integration, and restore environment-sensitive and land-destroying areas, and pursue national sustainable development, Taiwan announced in 2016 the Spatial Planning Act, which will transform the current regional plan system into the National Land Plan system in three stages by April 30, 2025.

### Re-demarcation of Municipal Boundaries

Taoyuan City announced the implementation of the Taoyuan City Land Plan on April 30, 2021 in accordance with the Spatial Planning Act and the Guidance of the National Land Plan and re-demarcated the municipal boundaries by 4 major functional zones including environmental conservation zones, marine resource zones, agricultural development zones and urban-rural development zones as a means to guide citywide space utilization, while clearly defining the areas to be protected and future development areas, with growth management plan formulated for sequential development and utilization.

### Taoyuan City Spatial Planning Contents

The Taoyuan City Land Plan indicates the projected total population of Taoyuan City in the Goal year (2036) reaching 2.5 million, and the 557 hectares of land for Residence and Commerce. Based on the Transit-Oriented Development (TOD) planning concept, the urban plan agricultural area was released in a timely manner; 2,335 hectares of industrial development lands are still needed, and 1,232 hectares are reserved for industrial development; a total of 3,487 hectares of illegal factory settlement guidance areas are clearly defined and received guidance on legal land use in order; 96% of the 30,800 hectares of actual agricultural land available for food production are classified as suitable for maintenance with a view to maintain the function of food production.

Promotion of the application scope of Citizen Card and merchants offer of Citizen Card leads to forming of cycle, so that the application and promotion of Citizen Card can be developed towards sustainable operation, and meet the needs of citizens for smart life. It is expected that the number of service experience will reach 5% of Citizen Card holders in 2030. to make.

### Scope of Use and Owner

The use of Citizen Card has also gradually expanded from Taoyuan City to other cities in Taiwan. In addition to Taoyuan citizens, foreign spouses of citizens and students from colleges and universities in Taoyuan City can also apply for the card. By the end of May 2022, nearly 80% of citizens are holders of Citizen Card (nearly 1.8 million). With the multi-integration of card services in the next 10 years (until 2030), it is expected that 80% of citizens will be holders of a Citizen Card, enabling a close link between daily lives of citizens and the Citizen Card.

## 11.42 Data Mining and Data Analysis Platform Plan

The "Data Exploration and Data Analysis Platform" is a utility platform shared by municipal agencies. Through education training, incentive programs and other supporting measures, employees are trained to apply this platform in data analyses for exploring business data trends as the scientific management and decision-making reference to the City's regional development planning, resource allocation, municipal pain points solutions, thereby enhancing governance quality.

## 11.43 Environmental Information and Early Pollution Warning Monitoring Plan

### Electronic Mobile Dispatch

Taoyuan City has 29 industrial areas and more than 10,000 factories. In order to avoid environmental pollution caused by industries, Taoyuan City engages GPS satellite monitoring system to dispatch inspection vehicle teams nearby, achieving the on-site case handling within 4 hours from reporting at 95%, allowing instant handling.



### Establishment of Major Cases Task Force

The City establishes a prosecution-police platform for inspection of economic ocean environment to conduct 24-hour raid inspections on air, water quality, waste and soil. Through comprehensive electronic-based inspections, the ability to proactively warn of environmental pollution incidents is strengthened. The City strives to reach the goal of the 4-hour inspection circle.

### Establishing Water Quality Monitoring Stations

Air quality, water quality, industrial waste management, case management, general monitoring, pollution source control system, map system, inspection dispatch system and GIS geographic information are integrated. With engagement of scientific instruments and equipment to assist pollution early warning and electronic inspection, Taoyuan City is strengthened with the ability to respond to pollution incidents, and conduct early research and judgment and rapid disposal.

## Smart Governance

### 11.41 Citizen Card Integration Services

#### Citizen Card Features

In order to improve citizens' sense of identity and let citizens feel the convenience of smart life, Taoyuan City has released the Citizen Card boasting "multi-purpose with one card, multi-card in one" for use as transportation pass and with features of public service, multi-card integration, point collection campaign, shopping offers, diversified carrier, etc. covering food, clothing, housing, transportation, education, entertainment and other aspects. The authority will make further evaluations and conduct future planning of three major applications covering bonus points, digital payment, electronic stamps collection:

- **Bonus Points**

For increasing the frequency and scope of citizen use of Citizen Card.

- **Digital Payment**

For expand the consumption and application fields.

- **Electronic Stamp Collection**

Offers can be provided to form a reciprocal circular circle amongst consumers, merchants and Taoyuan City.



# Responsible Consumption and Production

## Ensure sustainable consumption and production patterns.

Taoyuan City introduces the concept of circular economy into consumption and production model, reduces general waste and business waste, promotes resource recovery and energy recycling, and increases the value of resource reuse, thereby achieving the effect of energy saving and carbon reduction, and implementing sustainable development.

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- 12.2 Comprehensive Plan of Recycling Tasks
- 12.3 Ocean Waste and Plastic Bottles Value-and-Output-Adding Plan
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- 12.11 Encouraging Youths in Engagement of Local Revitalization

### Promoting Energy Conservation and Carbon Reduction

#### 12.1 Plan for Promoting Industrial Waste Energy Conservation and Waste Reduction and to-Energy Conversion

Taoyuan City reduces the proportion of industrial waste incineration and landfill year by year through policies such as waste-to-energy conversion, promotion of Taoyuan and environmental science and environmental protection industries, and industry waste fuel conversion to high heating value SRF to promotion and use, thereby reducing the proportion of incineration and landfill of industrial wastes. Meanwhile, guidance to various environmental production vendors is performed to reuse and process the industrial waste for resource and energy utilization. In 2021, the industry waste energy utilization ratio reached over 87%.

#### Fuel Conversion Technology

Through the evaluation of waste treatment institutions, effective guide treatment technology improvement are made. For example, the electronic industrial wastes is the source for extracting precious metal, so as to present high-level waste treatment technology and build urban environmental protection green factories. In the meantime, guidance on the establishment of SRF generation and steam-electricity symbiosis plants are performed for converting waste into SRF, while waste thermal energy in combustion can be converted into electricity and steam for recovery as a way to improve energy efficiency, thereby saving the use of fossil fuels and reduce costs and further achieve energy saving and carbon reduction benefits. In 2021, the annual consumption of high heating value SRF reached 14,794.1 metric tons.

## 12.2 Comprehensive Plan of Recycling Tasks

### Encouraging Proper Sorting of Trash

The City encourages its citizens to implement trash sorting through feedback, advocacy and guidance as well as the participation in recycling, and holds recycling competitions, which is supplemented by convenient recycling channels (Tao Le Recycling Stations) in conjunction with Taoyuan City Citizen Card top-up rewards to achieve the purpose of improving resource recovery efficiency and reducing waste. The resource recovery rate in 2021 reached 65.26%, ranking the top two in Special Municipality.

## 12.3 Ocean Waste and Plastic Bottles

### Value-and-Output-Adding Plan

#### Giving Second Life to Ocean Wastes

In the beach cleaning activities, the plastic bottles and plastic products accounted for a relatively high proportion of the ocean wastes, therefore, Taoyuan City transported the plastic bottles scrounged in the beach cleaning activities to the recycling vendors for processing and manufacturing into related environmentally friendly products such as sports-wear, giving the waste bottles a second life, decelerating the ocean waste and creating economic value, so as to promote the green economy and protect the ocean ecology. In 2021, the value-and-output-adding from plastic bottle as ocean wastes was approx. NT\$ 500 Million in aggregate.

## 12.4 Circular Economy Introduced with Regenerated and Reused Pallets

### Industrial Slag Residue Removal Issues

The steel industry in Taiwan produces approx. 21 million metric tons of steel every year, during which about 3 million metric tons of slag is produced. As the Slag cannot be removed, the steel industry is likely to be forced to reduce production, which will also affect development of other important industries in the country such as the electronics and the automotive industries. In addition, the annual road repair projects in Taiwan produces at least 3 million metric tons (of which about 300,000 metric tons comes from Taoyuan City) of reclaimed asphalt pavement, which could only account for 40% of overall road repair materials pursuant effective regulations, meaning 60% of those cannot be removed. Albeit the volume of household waste can be reduced after incineration, there will be storage issues resulting from the failure to remove the bottom ash following incineration.

### Industrial Waste Reuse

In order to effectively solve the above-mentioned treatment of slag, reclaimed asphalt pavement, and incineration bottom ash, Taoyuan City uses new construction methods to convert them into usable materials by converting slag into new asphalt materials, and applying reclaimed asphalt

pavement to roads as new road subbase material. This will greatly reduce the excavation of river sand and sea sand due to demand, reduce engineering costs, solve industrial problems, protect ecology, and achieve the goal of sustainable development.

### Defined Construction Regulations

The establishment of construction specifications is widely used in public works, including Industrial Area roads, annual road repairs project, roads in Taoyuan Aerotropolis, etc.

### Actual Application in Works

Since 2018, the City has applied oxidized slag in road repair projects, while reclaimed asphalt pavement are used in public works requiring roadbed improvement, and bottom ash recycled pellets are used in soil stabilization projects for bases and roadbeds. As of December 2021, the cumulative usage of slag pallets is approximately 17,520 metric tons, the reclaimed asphalt pavement is approximately 31,789 metric tons, and the aggregate usage of bottom ash recycled pellets is approximately 40,556 metric tons.

## 12.5 Promoting Soybean Meal Circulation and Reuse

To solve the problem of soybean meal removal, with the sustainability of the environment taken into account, in 2021, the Taoyuan Swine Association under subsidy of the City organized the "Subsidy Plan for Guidance of Soybean Meals Reuse as Pig Feed and Demonstration Farm". A total of 6 pig farms have received guidance to build soybean meal processing tanks, with a total of 11 tanks set up according to the size of the farm to assist in the removal of waste soybean meal from Taoyuan City's tofu making industry and to promote the reuse of waste resources, achieving a win-win goal for the City's tofu making and pig farming industries.

## 12.6 Plan of Biogas Slurry as Fertilizer in Farmlands

The biogas slurry produced by livestock farms can be used for farmland irrigation, which can save livestock farmers' expenses on pollution prevention and control, and may serve as irrigation water source for farmers and reduce fertilizer expenses, making river water clean, reducing environmental protection burden, and improving environment quality. For better friendliness to the City's environment and to facilitate the water resources of livestock manure and urine, the City continues to guide the Taoyuan City livestock farm to reduce the discharge of wastewater from the livestock farm, and encourage the application of biogas slurry and residue for the use of agricultural land fertilizers.

## 12.7 Plan of Subsidies for Guidance on Prevention of Pollution from Stock Farms

### Pollution Prevention Subsidy

To allow farmers to take into account environmental hygiene and reduce pollutants (sources) when operating livestock business, Taoyuan City subsidizes farmers to update or purchase pollution prevention and control facilities, deodorization equipment, energy saving and carbon reduction and other production equipment to reduce farmers' purchase costs and improve their returns, while decreasing potential protests by nearby residents. In addition, in order to promote the upgrading of the animal husbandry industry, the City subsidizes the construction of modern breeding equipment, assists the livestock farms to save water and electricity, and reduces waste discharge to achieve a sustainable circular economy.



## 12.8 Practicing Environmental Protection for Our Love to Earth and Reuse of Properties

### Promoting "Materials Cherish Website" Auction Platform

The rapid replacement of home appliances and electronics has resulted in generation of a great volume of wastes, and many waste home appliances contain chlorofluorocarbons that harm the ozone layer. In order to avoid environmental damage and promote resource reuse, Taoyuan City promotes institutions and schools the use of "Materials Cherish Website" online auction trading platform in the disposal via open auction of scrapped properties exceeding service life and incompatible with utility yet still reusable. From 2011 to 2021, more than 29,870 auctions were made, with a total transaction value of over NT\$77,366,199, and the auction performance has grown year by year, achieving resource circulation and reuse.

## 12.9 Green Procurement Advocacy Plan

### Advocating Environmental Friendliness Mark

Taoyuan City promotes green living and green consumption, and educates its citizens to give priority to purchasing Environmental Friendliness Mark-certified products with "recyclable, low-pollution, and resource-saving" features; and performed auditing and guidance as well as facilitation in monitoring vendors in the declaration of green procurement value on the Taoyuan City Enterprise and Group Green Procurement Declaration System pursuant with "Autonomous Regulations of Low-Carbon Green City Development in Taoyuan City". In 2021, 220 enterprises and groups declared a total of NT\$ 6.72 billion on the green procurement. Taoyuan City also urges the affiliating government agencies at all levels to promote green procurement, in which the total purchase of products with Environmental Friendliness Mark in the designated procurement items of government agencies accounts for 100% of the total purchase.

## Cultivating Sustainable Development Awareness

### 12.10 Taoyuan Agriculture Expo

Taoyuan City held its Agriculture Expo from 2017 to 2019, combining low-carbon buildings, green living, technological agriculture, circular economy and ecological thinking. The pavilions such as Green Ark, Cross-Generation Wishes, Forest Life Greenhouse, Fantasy Drifting and Carbon Life Discovery are remained as themed exhibition halls following conclusion of events in 2019 and site transformation into the Xinwu Agriculture Expo Environmental Education Park, which conveys education through entertainment with vivid and lively guided explanations and DIY experiences. See Goal 4 for details of other environmental education plans for fostering sustainable development awareness, and see Goal 8 for details of tourism and promotion of indigenous culture and production for sustainable development.

### 12.11 Encouraging Youths in Engagement of Local Revitalization

The City encourage youths in self-organization of action teams to care about local issues and engage in sustainable development of local affairs, meanwhile supporting youth action teams to take root in communities and tribes through specific measures such as cross-disciplinary courses, observing and learning visits, guidance visits, resource matching, and achievement exchanges with a view to link social responsibility of the local industries and universities to implement local revitalization, strengthen youth action teams in their interaction and enhance their related knowledge, and guide youth action teams to formulate medium and long-term goals for solving social problems in an economically sustainable way and furthermore social enterprises in the process of gradual maturity. In the meantime, different forms of activities are organized to arouse the youth's recognition and care for their hometown, culture, and natural environment, allowing the City to move towards the goal of sustainability.

# Climate Action

## Take urgent action to combat climate change and its impacts.

Taoyuan City is facing the issue of climate change together with the world. As a member of the global citizens, it has taken initiations in the implementation of energy conservation and carbon reduction, and has taken actions to strengthen the City's capabilities climate adaptation and disaster prevention and resilience. It not only promotes low-carbon and various sustainability acts and nurture environmental education volunteers, but also participates in conferences, declarations and actions of various international organizations, meanwhile disclosing basic emission information on international platforms and participating in international competitions and case presentations as actions of international sustainable development.

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### Climate Change Measures

#### 13.1 Low-Carbon Green City Plan

Taoyuan is the national gateway of Taiwan and the largest industry city in Taiwan with a rapidly rising population driving industrial and economic development of Taiwan. At the same time, it also takes into account the transformation of intelligence, energy, and environment in its embrace of the goal of net zero carbon emission in 2050; Taoyuan GHG is majorly composed of emissions generated in industry-related energy, followed by transportation energy, therefore, the City Government is committed to promoting green city policies, formulating Autonomous Regulations of Low-Carbon Green City Development in Taoyuan City, and promotes climate change mitigation and adaptation policies. Meanwhile, with Sustainable Development Goals integrated, the Taoyuan City Government Sustainable Development Committee to grasp the progress of various policies and improve the future governance direction.

## Promotion Timeline

- In 2015, Environmental Protection Administration, Executive Yuan announced Greenhouse Gas Reduction and Management Act, and the City began to monitor and inspect the major GHG emitters.
- 2016
  - (1) Established the Low-Carbon and Green City Promotion Team in Taoyuan City to promote and coordinate related works including mitigation and adaptation with a view to promote low-carbon green energy industries, create a low-carbon environment with livability, and implement a low-carbon life.
  - (2) Implemented Flagship Plan for Low-Carbon Green City Development in Taoyuan City.
  - (3) Implemented the Taoyuan City Climate Change Adjustment Plan.
- In 2017, the Autonomous Regulations of Low-Carbon Green City Development in Taoyuan City was implemented, making Taoyuan City the third city in Taiwan to implement the low-carbon autonomous regulations.
- 2018
  - (1) In line with the GHG reduction policy of the Executive Yuan, the "Taoyuan City Low-Carbon Green City Flagship Project" was transformed into "GHG Control and Implementation Plans".
  - (2) Performed Taoyuan City climate change vulnerability analysis and assessment.
- 2019
  - (1) Completed the 1st amendment to Autonomous Regulations of Low-Carbon Green City Development in Taoyuan City, whose revisions include strengthening of green transportation environment, relaxation of conditions for installation of green facilities and renewable energy, promoting environmentally friendly hotel certification, heightened monitoring over major electricity consumers, etc.
  - (2) Implemented the first phase of the GHG emission control and implementation plan.
  - (3) Developed the climate change adaptation plan for 2020-2022, and conducted business interviews across bureaus for the vulnerability of adaptation to reach consensus and refine the future direction.
- 2020
  - (1) Completed the 2nd Amendment to Autonomous Regulations of Low-Carbon Green City Development in Taoyuan City, whose revisions include regulations on waste management, encouragement to installing energy-saving lamps as replacement, and promotion of reusable containers, etc.
  - (2) Implemented the 2020-2022 climate change adjustment plan.
- 2021
  - (1) Established the Taoyuan City Government Sustainable Development Committee to implement the City's sustainable development concepts of health and friendliness, living and working in peace and contentment, and intelligence and resilience, and completed the coordination and promotion of sustainable development and related affairs.
  - (2) In response to the global 2050 net zero goal and the country's Climate Change Adaptation Act, the Taoyuan City 2050 net zero path was developed.
- 2022
  - (1) The Taoyuan City 2050 Net Zero Path was published in March, showcasing Taoyuan's determination in net zero carbon reduction.
  - (2) Developed the amendment draft to Autonomous Regulations of Low-Carbon Green City Development in Taoyuan City by incorporating the net zero strategy.

## 13.2 Water Retention at Roads of Green Transportation

### Roads with Permeable Pavement

When the old sidewalk or bicycle path are being improved, the permeable pavement design is adopted to allow rainwater to penetrate into the soil, thereby achieving the effect of water retention.

- The sidewalk contains permeable pavement and, through the connection of planted green belts, guides rainwater into side ditches and green belt plantation to reduce the urban heat island effect.
- The paving bricks are made of permeable bricks made of mixture of incinerator bottom slag and incineration regenerated pellets for reduced use of fine particles in brick products, which compared with traditional paving bricks may reduce the waste volume of 4 tons and contribute 30 kilograms of carbon reduction.

### Instances of Flood Mitigation Facilities

Taoyuan City has the first pilot program entailing setup of flood mitigation facilities under the roads. Porous Asphalt Concrete (PAC) pavement and permeable pavement sidewalks are adopted to help build resilient roads and reduce the probability of road flooding. At the same time, the concept of circular economy is introduced by the ecological paving construction of permeable brick, and planning and design of recycling and reuse of on-site gravel and farmland topsoil.

### 13.3 Fenghe Disaster Prevention Park

#### **Recreation and Disaster Prevention Taken Account**

In the Fenghe Park design phase, it took into account the needs of regional drainage and flood retention and incorporated designs of water retention and storage at its base to retain the landscape features of the reservoir and to create a space functioning as both citizen sports and leisure activities and disaster prevention, making it Taiwan's first park with positioning as a disaster prevention and refuge function at planning stage. The top of the flood retention pond with an area of 12,691 m<sup>2</sup> (about 28% of the park area) serves as location for leisure and recreation at ordinary times and flood detention and storage site during heavy rains. With the standard of heavy rains frequency once every 10 years, its designed flood retention volume reaches 57,804 m<sup>2</sup>. In the meantime, Fenghe Park Disaster Prevention Management Center is the green building awarded with Taiwan "Diamond Grade" certificate.

### 13.4 Agriculture Disaster Prevention Plan

#### **Agriculture Disaster Prevention**

Under the influence of climate change, the occurrence of various animal and plant diseases resulting from vector-borne diseases increase accordingly. The occurrence of animal and plant diseases will affect the production, production and sales, and supply of agriculture, forestry, fishery, and animal husbandry, causing economic impact and triggering public health issues of human health maintenance. Taoyuan City plans and organizes preparation, response and recovery for winter killing, floods and droughts, forest fires, animal and plant diseases to slow or mitigate various types of agricultural disasters, thereby avoiding interruption or shortage of food supply and ensuring the fastest recovery of supply after disasters. One of the examples with respect to resilient agriculture is Great Barn Plan (See Goal 2).

#### **Agricultural Insurance**

Taoyuan City cooperates with the Council of Agriculture, Executive Yuan to implement the agricultural insurance policy, and has insured the City's 5 items including the rice paddy, pears, mangoes, agricultural structural facilities and beekeeping, with the premium payable by competent central authorities at 50% overall, farmer deductible at 10%, and continued subsidy by Taoyuan City Government at 40% to reduce farmers' agriculture risks. From the first crop of 2022, rice was covered by income insurance as placement, and

legal rice farmers must insure their crops with a basic policy, with premium payable by the Council of Agriculture, Executive Yuan in full. When the rice yield in the jurisdiction is reduced by 20% compared with the average annual yield, the compensation at NT\$ 18,000 per hectare is disbursed. Furthermore, an enhanced policy whose premium is payable by Council of Agriculture, Executive Yuan at 50% overall, cooperative subsidy by Taoyuan City Government at 40%, and farmer deductible at 10% is available as additional insurance.

#### **Subsidies for Tea Plantation Irrigation Facilities**

In response to climate change in recent years, Taoyuan City has implemented a subsidy plan for tea plantation irrigation facilities to prevent tea from withering due to climate changes that affect the quality and yield of fresh tea leaves, and encourage tea plantations to set up new or replace irrigation facilities (such as water storage equipment, water pumping facilities, pipe-end irrigation system and water source facilities, etc.), promote local specialty tea and increase the City's output of premium fresh tea leaves, so as to gain the City's tea industry competitiveness.

### 13.5 Great Barn Plan

In order to ensure a sustainable development of the food production system, increase production capacity and productivity of agriculture, and adapt to climate change and extreme climate, Taoyuan City cooperated with the Agriculture and Food Agency, Council of Agriculture, Executive Yuan in the adjustment of the rice industry structure and activation of the fallow policy as a part of promoting the Great Barn Plan.

#### **Building a Sound Grains Industry Chain**

The City encourages farmers to plant grain crops, and subsidizes agricultural machinery and equipment production equipment. Meanwhile, production and crop collection machinery and equipment may be purchased to improve production efficiency, expand production scale and operating area, enabling the development of grain industry towards automation, intelligence and manpower saving, so as to build a sound grain industry chain.

#### **Development of Alternative Crops Plantation**

Taoyuan City promotes non-GMO soybeans, adlay, buckwheat, sesame, Chinese Mesona and sorghum and other low-water-consuming crops, increasing the sales volume of domestic grains and the income of farmers.



## Early-Warning and Emergency Handling for Disasters

### 13.6 Plan of Bees and Snakes Catching Services for Civilians

Taoyuan City has set up a team for catching bees and snakes, which is divided into 4 teams (17 stations) to serve the people in various administrative districts. After receiving reports of cases, they arrive at the site to handle the removal of honey-combs and snakes to ensure the safety of the citizens, and promote a way of life in harmony with nature.

### 13.7 Intelligence Transformation of Disaster Prevention Management

- (1) The City's water resources and disaster prevention have received complete transformation of intelligence by establishment of water information system platform and deployment of 558 sensors for collection of various water information. Powered by big data in the collection, monitoring and analysis and development of "Cloud Smart Simulation System", the goal of AIOT intelligent disaster prevention can be achieved.
- (2) Through the data collection of sensors, disaster prevention information can be made transparent to eliminate false reports on Taoyuan City Government upon disasters.
- (3) The City actively registers for various awards and exhibitions and has won the 2017 Smart City, 2019 Cloud IoT Award, 2020 Golden Map Award, 2020 Smart City Innovation Application Award, 2020 Cloud IoT Innovation Award, 2021 Golden Map Award, 2021 Cloud IoT Innovation Award. The City aims to reinforce itself as a safe and sustainable smart city.

### 13.8 Mobile Dispatch 119-The New Era of Smart Rescue

In the past, fire protection personnel were required to carry various rescue maps and emergency response manuals when they were on rescue. After arriving at the site, they had to consult the floor plan of the building and the distribution map of water supply sources, which consumes time to verify relevant information, resulting in ineffective rescues.

### New Changes to Fire Rescue

In 2013, Taoyuan City developed the "Mobile Dispatch 119" APP engaging cloud information platform and Internet of Things technology in fire rescue, a pioneering initiative for the whole Taiwan.

### The Great Advantage from Electronics

Front-line rescue personnel can inquire about relevant information in real time through tablets, mobile phones or computers as replacement to various printed materials required for rescues in the past, thereby improving the time consumption and wastefulness setbacks of original printing inquiries.

### Complete Database

The APP can interface with the real-time information of rescue related units, including life-saving pipelines, road excavation sites, helicopter take-off and landing sites, maps of river interception points, HSR and Taoyuan MRT emergency entrances and exits, solar optoelectronics sites, radiation sites and other maps and climate information, allowing fire protection personnel to grasp on-site information before arriving at the rescue site and achieve a better rescue efficiency, thereby reducing casualties and property casualties while greater protection for the safety of rescue personnel can be guaranteed.

### 13.9 Fuxing District Mobile Telephony Platform for Disaster Prevention and Rescue

#### Mobile Telephony Platform of Shared Construction and Shard Stations

In order to prevent telecommunication base stations from shutting down during typhoons and heavy rainy seasons that makes disaster prevention and rescue in the mountainous area of Fuxing District, Taoyuan City cooperates with the National Communications Commission and the 5 major telecom providers including Chunghwa Telecom, Taiwan Mobile, Asia Pacific Telecom, FarEastone and T-Star in the joint establishment "4G Disaster Prevention and Rescue Mobile Telephony Platform of Shared Construction " at 10 sites in Fuxing District, including Sanguang Village Activity Center, Lalashan Tourism Service Center, Guanghua Tribe, Fuxing District Office, Sbunaw Tribe, Qus Tribe, all sections at Roman Road, Hunter School, Kyakopay Tribe, Balung Tribe), among which the constructions have been completed at 9 sites, and the site at the Balung Tribe is under construction. In addition, 7 base stations are equipped with uninterrupted power supply system, which enhances the power of autonomous rescue in the mountains and greatly improves the efficiency of disaster prevention and rescue and relief.

## 13.10 Disaster Prevention Education

### Diversified Interaction Education

In order to strengthen people's awareness of disaster prevention, enhance their awareness of disaster risks, and enhance their ability to respond to disasters, Taoyuan City promotes disaster prevention education with a lively and diverse interactive experience for comprehension by citizens at all ages.

### Technology Combined with Education

Training Center and Disaster Education Center, Taoyuan Fire Department is a high-level experience center featuring smart technology in conjunction with disaster prevention education. Taoyuan Disaster Prevention Museum is mainly composed of permanent exhibitions and supplemented by special exhibitions encompassing the extensive fields of disaster prevention education including earth science, urban planning, risk assessment, fire science and technology, civil forces engagement, disaster rescue, emergency medicine, etc. Due to the wide scope of fields and complexity of information, interactive technology is used to explain the knowledge of disaster prevention in simplified forms, allowing the public to learn the preventions to take and immediate responses for disasters avoidance.

### Exhibition Areas with Enriched Contents for Learning in Various Aspects

Training Center and Disaster Education Center, Taoyuan Fire Department adopts such idea as its original intention to develop experiences that combines technology, entertainment and education, and provides free tour services for the public across the 5 major exhibition areas including natural disaster, prevention and emergency handling, fire, a safe home, firefighters in the museum. The highlights of the exhibition include children's AR fire truck painting interactions, CPR+AR instructions, home safety puzzle game, VR fire-fighting experience, smoke experience room and six-axis earthquake experience platform, etc., focusing on visitor learning through practice and grasping the concept of disaster prevention from interaction.

## 13.11 Water Safety Advocacy on Campus

### Water Safety Awareness Education Across the Campus

In order to reduce drowning accidents, Taoyuan City conducts campus water safety advocacy plus deepening of the concept of drowning prevention in education to enhance the self-rescue ability of teachers and students. The course includes learning of simple buoyancy making, shore rescue drills, life-saving equipment operations, environment assessment and warning signs and other related water safety

knowledge and water safety drowning knowledge, with the concepts of four self-rescue measures in water, five steps to rescue drowning and ten measures to prevent drowning incorporated. In the meantime, the geographical location of the school is further taken into account by integrating safety precautions of the nearby water environment.

## 13.12 Self-Initiated Disaster Prevention in Communities

- (1) Through the cooperation of the City Government, professional teams, District Offices and local communities, the City intends to integrate resources for joint learning of disaster prevention and rescue related self-initiated disaster prevention capabilities, implement the concept of disaster prevention by all, build consensus on self-initiated disaster prevention, and reduce the impact of disasters.
- (2) Guiding the community in the local floods detention, with a total flood detention area of 12.5 hectares and an available flood detention volume of 110,000 metric tons, saving at least NT\$ 500 Million in Government land and engineering costs.
- (3) From 2017 to 2021, Taoyuan City has been awarded the Outstanding Counties and Cities in National Evaluation of Flood Disaster Prevention Communities by the Water Resources Agency, Ministry of Economic Affairs for 5 consecutive years, and the two self-initiated disaster prevention communities guided by the Taoyuan City Government are the two out of five seeded communities nationwide.

## 13.13 Low-Carbon and Sustainability Demonstration Community

### Low-Carbon and Sustainable Home Plan

Since 2013, the City has promoted the Low-Carbon Sustainable Home Plan and organized the Low-Carbon Home Environment-friendly Neighborhood Subsidy with an expectation to encourage community residents to jointly implement energy saving and carbon reduction through the community building method, and furthermore develop new highlights of local environmental protection. Taoyuan City low-carbon sustainable demonstration community contains main action items divided into six categories-green energy and power saving, green transportation, low-carbon life, ecological greening, sustainable management, and resource recycling.

# Life Below Water

**Conserve and sustainably use the oceans, seas and marine resources for sustainable development.**

Taoyuan City has important and precious resources and such as algae reefs, wetlands, stone weirs and sand dunes. The coastline with length of 46.3 kilometers spans latitudinally from Luzhu District to Xinwu District. On March 15, 2018, Office of Coast Administration Construction-Taiwan's first agency dedicated to coastal affairs was established, while the City jointly maintains the ocean and coastal sustainable development through citizen cooperation.

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- 14.1 Shore Environment Monitoring Technology Center and Automatic and Continuous Water Quality Monitoring Plan
- 14.2 Taoyuan City Coast Guard Plan

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- 14.4 Taoyuan City Important National Wetland - Xucuogang Wetlands Conservation Plan
- 14.5 Xinwu Stone Weirs Preservation Plan
- 14.6 Guanyin Caota Sand Dunes Natural Landscape Management Plan
- 14.7 Gillnet Fishery Management Measures
- 14.8 Eel Larvae Fishing Period Control
- 14.9 Fish Fry Release Plan



## Preventing Ocean Pollutions

### 14.1 Shore Environment Monitoring Sechology Center and Automatic and Continuous Water Quality Monitoring Plan

The "family-centered" Taoyuan City, adopts the framework with economic security, personal safety, and mental health, with school counseling, employment services, public security maintenance and other systems incorporated. In addition, through the family services (such as parenting education, childcare, house work, employment, etc.) supported by specialized empowerment groups, caring for vulnerable children and youth and emergency relief households, strengthening the community early warning and implementation of notification mechanism, on-site services, etc., the resilience of vulnerable families and their capability to prevent from difficulties are improved. In 2021, amongst the vulnerable families receiving services, the rate of vulnerable families reported as protection case three months following services conclusion dropped lower than 7.5%, which is in line with the target value set by the Ministry of Health and Welfare. The rate is expected to gradually reduce and meet the rate lower than 5.5% by 2025.

## 14.2 Taoyuan City Coast Guard Plan

### Civil Cooperation in Coast Maintenance

Taoyuan City has a coastline with the length up to 46 kilometers, whose maintenance cannot be performed solely by the Government. Therefore, a Coast Guard with recruits of volunteers has been established.

### Guard Staffing

As of the end of 2021, the Coast Guard consisting of totally 16 teams inclusive of 5 teams in Xinwu (Yongxing, Yongan, Bengang Community, Beach Seine Bay, Kejian), 4 teams in Guanyin (Shulin, Baiyu, Guanyin, Baosheng Community), 5 teams in Dayuan (Haikou, Gold, Xucuogang, Neihai Community, Beigang), and 2 teams in Luzhu (Binhai, Nankan Port) has been established. Each team has 20 to 60 people, and the total number of volunteers is 581.

### Guard Responsibilities

- Coast Guard: Responsible for coastal environment.
- Water Environment Patrol:  
Responsible for river environment (Goal 6).
- Environmental Protection Fleet:  
Responsible for sea drifting garbage.
- Environment Protection Diving Team:  
Cleaning up underwater garbage through underwater operations.

Coast Guard will cooperate with Water Environment Patrol, Environmental Protection Fleet, and Environmental Protection Diving Team to protect Taoyuan's water resources and contribute to the water resources for the next generation.

## Protecting Ocean Ecology

### 14.3 Coastal Environmental Education Plan

There are four major ecological highlights along the coast of Taoyuan City: Guanxin Algae Reefs, Xucuogang Important Wetland, Xinwu Stone Weirs, and Guanyin Caota Sand Dunes. Through the construction of coast environmental education venues and applications for environmental education facilities certification, environmental education and eco-tourism are promoted.

### Important National Wetland - Xucuogang Wetlands

Combined with the "Xucuogang Wetland Ecological Classroom" of Neihai Elementary School in Dayuan District and Dayuan Environmental Protection Association, promotion of Xucuogang Wetland ecological observation and handling of environmental education guide activities are

conducted. Meanwhile, a joint proposal to register the Xucuogang Wetlands as the "Important National Wetland" Environmental Protection Education facilities certification was made to Environmental Protection Administration, Executive Yuan, with certification awarded in October 2021.

### Guanyin Caota Sand Dunes Guanyin Exhibition Hall

Guanyin Caota Sand Dunes Guanyin Exhibition Hall has seven major themes, including Guanyin Caota Sand Dunes main visual panorama, memorabilia, knowledge wall of sand dune ecology, sand dune topography, viewing sand world with numbers, introduction of Taiwan geological parks, and ocean biological conservation. It also contains 6 interactive experience facilities such as magnetism, sand diameter, weight, temperature, wind speed and AR landform sandbox, making visitors accessible to multiple learning in an entertaining way. Guanyin Caota Sand Dunes Guanyin Exhibition Hall was awarded Environmental Education facility certification by Environmental Protection Administration, Executive Yuan in January 2022.

### Algae Reef Ecology Classroom

The Algae Reef Ecology Classroom commenced operation on July 4, 2019 to promote algal reef ecological education through physical observation, sensory experience, multimedia interaction, etc., and was awarded the Environmental Education facility certification by Environmental Protection Administration, Executive Yuan in November 2021.

### Oceanic Hakka Beach Seine Culture Center

Oceanic Hakka Beach Seine Culture Center commenced operation on June 19, 2020. The museum is furnished with displays beach seine fishing equipment and related precious cultural relics of agriculture and fishery with a view to promote Oceanic Hakka Beach Seine Culture, and was awarded the Environmental Education facility certification by Environmental Protection Administration, Executive Yuan in April 2021.

### Xinwu Stone Weirs Story Museum

Xinwu Stone Weirs Story Museum commenced operation in 2021. Through the display of Stone weirs models and cultural relics in the museum, the "Handheld Xinwu" APP developed with the assistance of local youth, and the "Sea Maker Classroom" focusing on environmental sustainability, it is expected that Xinwu Stone weirs Shanghai Story Museum continues to inherit the century-old Stone weirs culture, and promotes the environmental protection concept of plastic-free ocean. At the same time, it promotes the development of Xinwu coastal tourism industry through coastal eco-tourism. Xinwu Stone Weirs Story Museum was awarded the Environmental Education facility certification by Environmental Protection Administration, Executive Yuan in January 2022.

## **Operation Performance of Environmental Education Venues**

### **(1) Guided Tour Activities**

From 2019 to 2021, more than 100 wetland guided tours have been held Important National Wetland - Xucuogang Wetlands, and the Wetlands have been visited by more than 70,000 visitors.

- In 2021, Guanyin Caota Sand Dunes Guanyin Exhibition Hall hosted 23 guided tours of Guanyin Caota Sand Dunes, and was visited by 7,619 visitors.
- In 2021, the Algae Reef Ecology Classroom in 2021 hosted 60 guided tours of the new algal reef, and was visited by 12,000 visitors.
- In 2021, the Oceanic Hakka Beach Seine Culture Museum in 2021 hosted 32 Ocean Hakka Beach Seine Culture guided tours, and was visited by 13,000 visitors.
- In 2021, the Xinwu Stone weirs Story Museum hosted 42 guided tours, and was visited by 30,000 visitors.

### **(2) Driving Community Development**

The City cooperates with Dayuan Environmental Protection Association, Guanyin District Shulin Community Development Association, Xinwu District Yongxing Community Development Association, Xinwu District Ocean Hakka Leisure Agriculture Development Association and Xinwu District Aixiang Association to jointly promote coastal environmental education and drive the development of local communities.

### **Satoumi College**

For the promotion of Important National Wetland - Xucuogang Wetlands, Guanyin Caota Sand Dunes Geological Park, Guanxin Algal Reefs Ecosystem Wildlife Refuge and Xinwu Kejian Stone Weirs Cultural Scenery and various highlighted attractions on the coast of Taoyuan City, and for in-depth cultivation of the ocean environmental education, Satoumi College was inaugurated on April 16, 2021 to offer 4 major courses under 5 main topics for different demographics-General Coastal Education Workshop, Training Plan Training Class for Teachers, Elite Coastal Ecology Guide Class, and master special lectures. These coastal knowledge promotion courses are hosted to enable more people opportunities to receive ocean education, thereby implementing all-age ocean education.

#### **· General Coastal Education Workshop**

Targeting school faculty, 18 General Coastal Education Workshop with themes of Xucuogang Wetland, Guanyin Caota Sand Dunes, Guanxin Algae Reef, Xinwu Stone Weirs and Beach Seine, seaside plants, etc., are held. Each 6-hour course includes indoor knowledge classes and field inspection classes, and a total of 320 people have participated in the Workshop as of the end of 2021.

#### **· Teaching Plan Training Class for Teachers**

Targeting elementary school teachers, 2 batches of the Guanxin Algae Reef Lesson Plan (Elementary School) Teacher Training Class are held. Each batch includes 12 hours of discussions and simulations. The goal of the Class is to allow elementary school children learn the concepts and knowledge of algae reefs through an interesting pedagogy and inspire their local identity. By the end of 2021, a total of 10 people have participated in the Class.

#### **· Elite Ecology Guide Class**

For the guides who have obtained the environmental education certificate in the City, 2 sessions of Elite Ecology Guide Class were held, with the theme of Guanxin Algae Reef and Guanyin Caota Sand Dunes. Each session is a 36-hour training course including environment knowledge lecture, oral skills training, lesson plan writing skills, practice and simulation, guide safety workshops, etc. At the end of the course, oral and written tests are conducted. The Class is held to improve the quality of the City's coastal guides, and by the end of 2021, 20 people have participated in the Class.

#### **· Keynote Speech by the Masters**

For the general public, 10 keynote speeches were held, with experts and scholars related to coast, ocean, environmental protection, geography (geology), ecology and other related fields are invited to give a 2-hour keynote speech, guiding the public in understanding of the coast of Taoyuan in a simple manner. By the end of 2021, the speeches were participated by a total of 309 people.

## **14.4 Taoyuan City Important National Wetland - Xucuogang Wetlands Conservation Plan**

### **Overall Important Wetland Ecology**

#### **Landscape Building Plan**

Xucuogang, the important inhabitant to 32% of all Taiwanese birds (560 species totally) with a coastline at 10.5 kilometers, was designated as the Important National Wetland in February 2015, and was assessed as an important wild birds habitat by BirdLife International. Based on the principle of not changing the topography and landforms, the City promotes the overall planning of the important wetland ecological landscape in Xucuogang, meanwhile strengthening wetland conservation, conducting water purification, and combining environmental education and recreational facilities to promote ecological tourism, to build a world-class "Water Bird Paradise" with all efforts.



## The Wetland Conservation and Use at Xucuogang features a 3-stage execution

### Stage 1: Ecological Restoration

The authority expands the water area by dredging the estuary of Laojie River, and backfill the silt to the occupied fish farms between the mouth of Laojie River and Xinjie River, meanwhile utilizing natural tides to bring seawater to create a damp place with salt water; in addition, the irrigation drains are brought to create habitats suitable for waterbirds, such as freshwater shoal wetlands. Under the principle of non-disturbance to existing biological habitats, the ecological restoration is performed in a gradual manner.

### Stage 2: Environmental Education

The overall building of the ecological landscape was made. The Little Tern Canopy Square of Environmental Education for the display and guide of environmental education, was completed in November 2021. The Little Tern Canopy Square of Environmental Education site is accompanied by scenic wooden plank, bicycle path extension, environmental education explanation board, etc., built with a view of avoiding redundant manmade facilities.

### Stage 3: Ecotour

Taking the Water Bird Paradise as the appeal, the authority has established the Environmental Education and Low-Carbon Transit Center. With promotions of series of birdwatching events and reduction of unnecessary disturbance, the Center aims to allow the citizens to understand the beauty of wetland ecology while creating added value of ecological tourism and promotion of sustainability in coastal economy. As of December 2021, wetland restoration at about 22 hectares was completed. After restoration, it was observed that the species and number of birds such as Chinese Egret, Dunlin, and Pied Avocet increased significantly.

## 14.5 Xinwu Stone Weirs Preservation Plan

### Meaning and Value for Preservation of Xinwu Stone Weirs

Taoyuan City Xinwu Stone Weirs are mainly distributed between the south of Yongan Fishing Port and Oyster Harbor, which are built by fisherman by piling up large pebbles in the intertidal zone. The weirs block the retreat of the fish at low tide, allowing fishermen to engage traditional fishing method using seine, which is estimated to have a history of more than 300 years.

### Preservation Promotion and Sustainable Development Plan

Taoyuan City registered the well-preserved Stone Weirs No. 2, 3 and 6 in Xinwu as Cultural Landscape in 2019 (See Goal 11), and actively promoted the Xinwu Stone Weirs Preservation Promotion and Sustainable Development Plan, in which the traditional technology for preservation and restoration of stone weirs are reinforced in addition to contracting the restoration of 9 stone weirs in the Xinwu Kejian Stone Weirs by Taoyuan Stone Weirs Association and 2 Shenzhen Stone Weirs by the Taoyuan City Xinwu District Aixiang Association. So far, the following achievements have been made:

- In 2019, the Xinwu Stone Weirs International Exchange Seminar was held, with experts from the United States, Japan and Taiwan invited to exchange experiences throughout their participation.
- In 2019, the "Stone weirs Experience GO! Activity" was opened for public participation.
- In 2019, the septuagenarians familiar with restoration techniques completed the restoration of the Cultural Landscape Kejian No. 6 Stone Weir.
- In 2020, Taoyuan Stone Weirs Association completed the repair of Kejian Stone Weir No. 1.
- In 2020, "Xinwu Stone Weirs Fishing Fun" experience was held to inherit the fishing culture.
- In 2020, the repair of Kejian Stone Weirs No. 2 and No. 3 was completed.
- In 2020, the shooting of Documentary "Restoration of Xinwu Stone Weirs" was completed.
- In 2021, "Xinwu Stone Weirs Story Museum" will officially open for operation.
- In 2021, the repair of Kejian Stone Weirs No. 4 and No. 5 was completed.
- In 2021, the "One-day Stone Weirs Construction Craftsman Youth Activities Holiday" was held, inviting the public to experience the construction of stone weirs, with a promotional video produced.
- In 2021, in cooperation with program All Star Sports Day, the video "All Star Sports Day Relaxing Tour-Let's Go! The Chilling Trip Led by Seniors".
- In 2021, Taoyuan Stone Weirs Association and Taoyuan City Xinwu District Aixiang Association were nominated as the cultural assets preservation technology and preserver of "Stone Weirs Repair and Construction Technology".
- In 2021, the expansion registration for Xinwu Kejian Stone Weirs No. 1, 4 and 5 as culture landscape was submitted.

## **14.6 Guanyin Caota Sand Dunes Natural Landscape Management Plan**

Guanyin Caota Sand Dunes was officially announced as a municipal geological park in accordance with the Cultural Heritage Preservation Act on June 11, 2020, effective May 2021. In order to allow visitors to experience the beauty of Guanyin Caota Sand Dunes up close, the City Government built two scenic trails at Chaoyin Sea, Dayuan Dist. and Baishatun, Guanyin Dist. Guanyin Caota Sand Dunes Geological Park covers an area of about 284 hectares and is divided into three areas: core area, rehabilitation area, and general area. Taoyuan City conducts Guanyin Caota Sand Dunes Geological Park topography management, maintenance and monitoring, meanwhile guiding local communities to take the role as citizen scientists, who actively participated in the simple topographic survey of Guanyin Caota Sand Dunes since 2021 by drawing the survey results into maps and discussing the reasons for topographic changes through overlay analysis. These are conducted with a view to expand the content of guided tours and enhance the public knowledge of dune science. In addition, in cooperation with local groups, experts, scholars and related units, a common participation platform is established to promote local participation. Since 2020, the authority has participated in 2 geological network conferences annually to exchange operation ideas with members representing other geological parks in Taiwan to improve performance of marketing centering local revitalization.

## **14.7 Gillnet Fishery Management Measures**

### **Setting Closed Season and Forbidden Fishing Zone for Gillnet Fishery**

Taoyuan City announced in 2020 "Closed Season, Forbidden Fishing Zone and Related Restrictions for Gillnet Fishery in Taoyuan City", providing that gillnet fishing boats (rafts) are prohibited from entering the sea 3 nautical miles to the shore of Taoyuan from June 16 to August 15 every year. Violators will be fined according to the Fisheries Law.

### **Guidance for Gillnet Fishing Boats Transformation**

In order to strengthen the conservation and restoration of coastal habitat ecology and sustainable utilization of fishery resources, Taoyuan City promotes gillnet fishery transformation measures, reducing the number of gillnet fishing boats (rafts). 128 vendors adopting gillnet fishing boats (rafts) have received transformation guidance from 2018 to 2021.

### **Promoting Name-Based Registration for Gillnets and Related Fishing Gears**

According to the measures for marking gillnet fishing gear announced by the Council of Agriculture, Executive Yuan in 2021, the fishermen who are approved to engage in gillnetting are required to have their gillnet fishing gear marked with the uniform number of the fishing boat in the prescribed manner before the fishing boat may exit the harbor for operations. All of the City's fishing boats using gillnets in the

sea fishing have completed the name-based registration, and have the source management of nets and the reporting mechanism of net loss are established, so that users can take responsibility and reduce the generation of abandoned fishing nets, thereby implementing responsible fishing as the means to maintain ocean environment and ecological sustainability.

### **Reduction of Abandoned Fishing Nets in the Sea**

In order to reduce the number of abandoned fishing nets in the sea, fishermen are requested to place the abandoned fishing nets caught in the sea and the replaced nets in the temporary storage area. In the meantime, the City has drafted "Abandoned Fishing Net and Gear Recycling Reward Plan" to encourage fishermen to contribute in the sorting and pre-processing of the abandoned fishing nets to increase the recycling ratio of fishing nets. In 2021, 9,965 kilograms of abandoned fishing nets and gears have been recycled at Zhuwei Fishing Port and Yongan Fishing Port, reducing the ocean waste while generating capacity for the ocean.

## **14.8 Eel Larvae Fishing Period Control**

### **Scarcity of Eel Larvae and Preservation Thereof**

The eel larvae caught in the coastal areas of Taiwan are mainly Japanese eel, which are migratory species. Eel larvae fishing from October to the end of April of the following year is an important source of income for coastal fishermen to maintain their livelihoods in winter. Affected by global climate change and overfishing, the catch of eel larvae is decreasing year by year. To take into account the livelihood of fishermen and the sustainability of fishery environment resources, the Council of Agriculture, Executive Yuan announced in 2013 the "Regulations Governing the Control of Eel Larvae Fishing and Fishing Period", in which prescribes that eel larvae fishing is prohibited from March 1 to October 31 every year, and the duration open for fishing starts from November each year to February of the following year, allowing eel larvae sufficient time to for migration and growth in the river as the crucial step for developing the eel resources.

## **14.9 Fish Fry Release Plan**

To improve the sustainability of the ecological resources in the ocean, Taoyuan City encourages NGOs to carry out the proliferation and release of fry with an expectation to increase the fishery resources in the City's sea area. Given there are rules in fish fry release, to maintain the equilibrium in the ecology, "Aquatic Animal Breeding and Release Restrictions and Matters for Compliance" announced in 2011 by the Council of Agriculture, Executive Yuan is adopted in review of fish fry species and sources, inspection certificates, and release areas (time, weather, and release rate), etc., so that fishery resources can be utilized under sustainably.

# 15



# Life On Land

**Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss.**

Aiming to protect the terrestrial ecology, Taoyuan City adopts non-urban land use control inspections and mountain forest ranger patrols to curb the improper development of forests and hillsides, and promotes afforestation, Taipei Grass Frog habitat restoration, Environmental Education, etc. to stop the loss of biodiversity and promote the values of biodiversity.

15.1 Control Over Use of Non-Urban Lands

15.2 Mountain Forest Ranger Plan

15.3 Tree Plantation and Afforestation Plan

15.4 Promoting Plan of Farmland Adjustment to Climate Change in Taoyuan City

15.5 Guishan Nursery Green Environment Ecological Park

15.6 Environment and Ecology Protection Plan

15.7 Stray Dog Population Control

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## 15.1 Control Over Use of Non-Urban Lands

### Protecting Sustainable Development of Land

About 75% of Taoyuan City's land belongs to non-urban land, of which about 70% are designated agricultural areas, forest areas and hillside conservation areas. Taoyuan City has designated categories of lands in use in accordance with the Spatial Planning Act, the Regional Plan Act and Regulations Governing Control Over Use of Non-Urban Lands to protect the core high-quality agricultural production environment, maintain the function of forest water conservation, and limit the development of environmentally sensitive areas to reduce the threat of natural disasters, prevent the land from being permanently damaged, allow the terrestrial ecology to develop sustainably, and therefore curb loss of biodiversity.

## 15.2 Mountain Forest Ranger Plan

### Citizen Cooperation to Protect Mountain Forests

In order to encourage people to get close to nature, Taoyuan City Promoting hiking trails have been renovated and maintained (See Goal 11), and the Mountain Forest Ranger has been established to assist in protecting the mountain forest resources in combination with engagement of private resources. The Mountain Forest Ranger is divided into the following two squadrons:

- **Hillside Patrol Squadron:**

a total of 62 volunteers patrol the hillside.

- **Mountain Forest Hiking Trail Patrol Squadron:**

there are 6 teams with a total of 98 volunteers, responsible for patrolling the trails at Hutoushan (Hutou Mountain), Dadong Mountain, Wu-Jiou-Tung Mountain, Datieliao, Xiaochukeng, Xiucai and other mountains.

Through the cooperation of citizens, we will jointly protect the precious forest resources from destruction, so that the forest environment can maintain sustainable development.



## 15.3 Tree Plantation and Afforestation Plan

### **Ecological Afforestation**

Taoyuan City searches for suitable land for afforestation in various administrative districts in the City and conducts tree plantation and afforestation every year. In combination with the function of afforested woods in prevention of wind and sand, the City intends to increase the green spaces within and build a green city.

### **Environment Greening**

In cooperation with the events in Taoyuan City, the City performs the environment greening and beautification at important traffic nodes, so that people's living space can be greened and improved. Meanwhile, appropriate arbors and shrubs are planted based on requirements of respective location.

### **Tree Plantation Promotion**

Taoyuan City plants and distributes tree seedlings for free in the annual Arbor Day event to enhance the City's biodiversity and make citizens pay attention to the ecological awareness of environment. In the past few years, appropriate locations in Zhongli District, Guishan District, Fuxing District, Bade District, Daxi District, Pingzhen District and Yangmei District have been chosen to hold the Arbor Day activities. Following tree planting activities, the significance of landscaping and building of a natural and beautiful green living environment are indeed realized at the selected locations. Every year, more than 1,000 people participate in the related events.

### **Afforestation in Line with the Central Policy**

#### **(1) National Afforestation Plan**

The targeted locations for afforestation include state-owned forest land, public and private forest land, and forest land reserved for Indigenous Peoples. The City cooperates with the central policy to carry out national afforestation. As of December 2021, the area of lands receiving subsidized afforestation is about 131.0771 hectares.

#### **(2) Afforestation Plan**

In view of the uneven distribution of green resources on hillsides and plains in Taiwan, and the lack of large-scale green fields in the plain area, Taoyuan City cooperates with the central policy to manage plains afforestation. As of December 2021, the land afforested under the Plains Afforestation Plan is about 11.688 hectares.

### **(3) Rewarded Guidance for Afforestation**

Such Rewarded Guidance is organized by the Council of Agriculture, Executive Yuan with an expectation to mitigate increase in atmospheric carbon dioxide and allow the forest land to play its role in land and water conservation to further achieve multiple goals such as greening the environment, increasing forest carbon storage, planting forest resources and reducing natural disasters. As of December 2021, the area of lands afforested under the Rewarded Guidance for Afforestation is about 7.05 hectares.

## 15.4 Promoting Plan of Farmland Adjustment to Climate Change in Taoyuan City

In order to implement the climate change adjustment policy, ensure food safety, and conserve high-quality agricultural land, and in response to the passage of the Spatial Planning Act whose prescription indicates that the rational use of land should be guided by the needs of agricultural industry and rural development, Taoyuan City conducts inventory on its action plans and takes in-depth review of the location available for implementation, collects relevant climate change adjustment and agricultural land cover and other map data, and continuously review the agriculture and industry space layout as a reference for subsequent specific implementation.

## 15.5 Guishan Nursery Green Environment Ecological Park

### **Environment and Life Education**

Taoyuan City has promoted landscape renovation of Guishan Nursery, performed combination of the overall planning of Hutoushan Scenic Area as a forest park, and submitted applications for the certification of environmental education facilities. Through the experience of environmental education, the City expects to avail the public to knowing the interdependence between human beings and the environment, and maintain the goals of ecological balance of the environment and respect to lives.

### **Cultivating Tree Seedlings and Promoting Its Plantation**

The City cultivates high-quality afforestation seedlings in Guishan Nursery, and distributes seedlings to citizens, communities and schools for planting free of charge from the end of November to December every year to increase the green spaces. From 2015 to 2021, the cumulative number of tree seedlings distributed has reached 960,000, among which includes free seedlings for Taoyuan Citizen, communities, schools and other units to increase green space and improve the quality of life; in the meantime, the Department of

Agriculture of the City conducts random inspections for the entities allocated with seedlings (such as communities) to ensure that the allocated seedlings grow well. By taking the community as an example, the City expects to enhance the beauty of the living space of citizens. In addition, in the annual Arbor Day event, free seedlings giveaway is held for the public to bring the seedlings home for plantation and furthermore beautify the living environment.

## 15.6 Environment and Ecology Protection Plan

### Ecology Protection

#### (1) Taipei Grass Frog Restoration Plan in Gao Rong Wildlife Refuge

Taoyuan Gao Rong Wildlife Refuge covers an area of about 1.11 hectares, which is the smallest wildlife refuge in Taiwan. The second-class protected species "Taipei Grass Frog" is one of the species found in this Refuge. As the means to build an environment suitable for development and reproduction of Taipei Grass Frogs and furthermore ensure biodiversity, Taoyuan City continues to improve the environment in the habitat and removes the carnivorous fish in the pool in conjunction with patrols by the local community development association as well as advocacy to local residents in developing non-toxic agriculture and changes in farming habits.

#### (2) Wildlife Shelter and Release Plan

There are a variety of wild animals in Taoyuan City. With the development of human residence and commerce space, the living space of wild animals is oppressed, and even more, wild animals are injured due to the carelessness of human beings. The City performs shelter and rescue of protected wildlife as well as the release following the recovery of wildlife to allow the wildlife return to nature and live and grow in succession. In the past, more than 10 wildlife species such as Black-shouldered Kite, Crested Goshawk, Crested Serpent Eagle, Besra, Collared Scops Owl, Mountain Scops Owl, Asian Barred Owl, Swinhoe's Pheasant, Crested Myna, Taiwan Blue Magpie, pangolin, crab-eating mongooses, Yellow Pond Turtle, Chinese Box Turtle, etc., coming in dozens each are released every year.

### Exotic Species Removal and Monitoring

#### (1) Mikania micrantha Control Plan

Taoyuan City handles the removal of Mikania micrantha every year and regularly holds inter-agency prevention meetings, meanwhile performing advocacy to the public in knowing the characteristics of Mikania micrantha and furthermore encouraging them to cooperate with the government policy concerning removal of Mikania micrantha to reduce the harm of Mikania micrantha to the ecology and environment.

#### (2) African Sacred Ibis Removal

In cooperation with the central policy to monitor African Sacred Ibis. In the event a nesting site is found, reports to the Hsinchu Forestry Bureau, Council of Agriculture, Executive Yuan will be made. The African Sacred Ibis will be hunted by the Bureau otherwise.

#### (3) Prevention of Intrusion Red Imported Fire Ants

Taoyuan City regularly conducts large-scale Red Imported Fire Ants control and spraying in each district from April to June and September to November every year, and regularly conducts professional Red Imported Fire Ants prevention and control training to improve Red Imported Fire Ants control capacity. Meanwhile, volunteers and local residents are invited and assembled to for engagement in Red Imported Fire Ants prevention and control by promoting correct knowledge and self-control concepts, so as to reduce the harm and spread of the invasion of Red Imported Fire Ants.

### Tree Protection

Taoyuan City formulated the Tree Protection and Autonomy Regulations in Taoyuan City in 2008 to protect the City's trees with preservation value, maintain the urban natural and cultural landscape and green resources, and improve the urban ecology. The City continue to handle specific tree surveys, tree pruning, health diagnosis, pest and disease damage prevention and control, environmental habitat improvement, cleaning and maintenance, and risk assessment, etc. In addition, the City also handle data preparations, tree sign productions and hanging and other work according to the survey results as ways to implement tree protection tasks.

## 15.7 Stray Dog Population Control

To prevent stray dog population from unrestricted reproduction which might cause disequilibrium in nation and endangering of wildlife, the following measures are adopted:

### Estimating the Number of Stray Dogs in Key areas

By cooperating with the associations, the City performs accurate estimation of stray dog populations in key hot areas to formulate relevant operation plans.

### Strengthening the Stray Dogs Sterilization Policy

As a means to cooperate with NGOs and animal protection volunteers, the City subsidize sterilization-related funds to strengthen the effectiveness of sterilization, and increase the sterilization ratio of wandering dog population to achieve the effect of population control.

### Strengthening Coordination and Removal at Key Areas

In key ecological conservation areas, by coordinating with local feeders and local residents, the policy of sterilization and removal of stray dogs is enforced to reduce the harm to wild animals.

# Peace, Justice and Strong Institutions

Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels.

For providing a safe living environment to the citizens, smart technology is engaged as assistance to law enforcement to strengthen social security. In the meantime, a fair judicial channel is built to protect citizens' lives, property safety and related rights. As the rise in the awareness of democracy and rapid transmission of information, citizens show incremented valuing over governance and own rights and interests. Taoyuan City strives to build an open government that is efficient, responsible, transparent, and responsive to public opinion through information openness and citizen participation.

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## Preventing Violent Crime

### 16.1 Intensive Surveillance and Video-Recording Systems

Taoyuan City has a vast territory accommodating a diverse population in frequent movements. Under the rapid changes in the social environment, new crimes are constantly emerging. In order to maintain social order, Taoyuan City has established intense surveillance and video-recording systems at various public security points, traffic arteries, and important intersections.

### **High Density**

A total of 22,172 cameras have been installed so far, and the total number of cameras is expected to reach 22,239 by the end of 2022.

### **High Intelligence**

Smart applications include license plate recognition, vehicle trails query, instant alerts for specific targets, and vehicle intelligent image analysis.

### **High Efficiency**

There are 13,795 cameras with license plate recognition feature, accounting for 62.22% of the total number of cameras (accounting for 94.5% of the 14,598 traffic lane cameras), which effectively strengthens the efficiency of case investigation and inspection and enhances the police's ability to solve cases.

## **16.2 Execution Plan for Comprehensive Inspection by Anti-Gun and Ammunition**

Through a comprehensive inspection of illegal firearms, Taoyuan City actively sweeps gun-making establishments, takes down illegal factories, blocks the source of foreign guns, investigates armed fugitives, and detects shooting cases at a rapid manner to prevent gang members from owning guns and prevent occurrence of violent cases. In 2021, total of 142 long and short guns and 1,381 bullets of various types were seized, and 5 shooting cases were detected.

## **16.3 Evaluation Plan for Inspection of Gangs**

The City strengthens the investigation, search, and inspection of gangs or violent criminal groups, adopting "tracing back to the source and eliminating the root" manners and the strategy of "adaptation to local conditions and systematical gangs crackdown" in its proceeding temporary inspections and administrative joint inspections, strengthen the crackdown to block the economic sources of the gangster groups, thereby purifying the law and order of the City.

### **Excellent Effects**

In 2021, 3 nationwide gang sweeps and 2 self-organized gang sweeps in Taoyuan was carried out; a total of 43 "Operation Zhin-Ping Targets" and 280 related accomplices was arrested, with 24 modified pistols, 203 bullets, and 57.06 kilograms of narcotics (including amphetamines and drug packs) found, and criminal cash (illegal gains) of NT\$1,440,900 and other evidence seized. Furthermore, 134 suspects in various criminal cases have been inspected.

## **16.4 Execution Plan for Disposal of Street Mutual Fights**

(1) The occurrence of street fights caused problems such as public security, traffic, etc. If the two parties attempt to

retaliate after the incident, the case will continue to expand and spread, which will lead to a second mass fight or criminal incident; in addition, with the popularity of the Internet and the development of social media, it is easier to muster in a short period of time through the Internet, fomenting the arrogance of quasi-criminal and affects the public's confidence in public security. By regulating the handling of street mutual fighting incidents as well as plans for early prevention, immediate elimination, filing and application, it can immediately suppress crimes and the like and effectively crack down on potential organizational crimes, providing specific protection for people's lives and property.

(2) Since the announcement of amendment to Articles 149 and 150 of the Criminal Code on January 17, 2020, 558 people in 100 cases of mutual fights have been forwarded.

## **16.5 Plans for Emergency Handling of Violent and Major Man-Made Hazardous Events or Terrorist Attacks**

### **Low Risk**

According to the 2021 Global Terrorism Index Report of the Institute for Economics and Peace, Taiwan ranks 93rd out of 162 countries and is classified as a low-risk country.

### **High Level of Preparation**

In order to prevent and respond to the harm caused by violent and major man-made hazardous events or terrorist activities, maintain the normal functioning of the City and the stable life of the people, Taoyuan City integrates and coordinates relevant agencies (units) to handle various emergency preparations, evacuation, investigation, rescue and mobilization, negotiation, tackling, cleaning and recovery, etc., in vulnerable places (such as airports, MRT stations) and foreseeable terrorist attack methods (such as hostage taking, explosion of unknown objects, etc.), the annual "Jing Yong Project" drills is held, with homeland security rescue drills at 19 facilities such as airports held. Through usual drills, the cooperation and tacit understanding of relevant units are cultivated and the ability to respond quickly to emergencies is increased.

## **16.6 Execution Plan for the Juvenile Guidance through Dispatch**

### **Active Understanding for Effective Prevention**

In order to prevent juvenile delinquency, Taoyuan City takes the initiative to enter the community to understand the youth's activity area and local problems for juveniles who are not heard by juvenile courts or verbally admonished and other deviant juveniles with special needs under jurisdiction, and integrates local related resources to prevent deviations and criminal acts.

## 16.7 Execution Plan for Community Security Meetings

### Civic Cooperation for Conglomerating Consensus

In order to give full play to the power of civic cooperation, Taoyuan City appoints its various police stations and substations (police) to invite and assemble community residents, local legislators, opinion leaders, etc. for exchanging opinions, action strategy descriptions and appropriate responses with respect to public security, transportation, disaster prevention (rescue), women and children protection and more to build consensus, enabling the maintenance of community safety through police-citizen cooperation.



## Fair Judicial Channels

### 16.8 Consumption Disputes Treatment

#### Needs for Protection by Consumers

With the introduction of new business models, if people purchase goods or services without sufficient consumer information, or if such purchase is made without sufficient thinking, consumer disputes often arise. According to the Consumer Protection Act, consumers having consumption dispute with business operators may file their appeals to consumer service center of the appropriate county or city, who will deliver requests in writing to the business operator to handle such dispute according to the procedures. The consumer considering such appeal not being properly handled may further complain to the county and city Consumer Ombudsman Officer or request mediation, which will be followed by negotiation or mediation meetings convened by the Consumer Ombudsman Officer or Consumer Dispute Mediation Committee of the appropriate county or city with provision of legal advice and practical experience on a case-by-case basis for the reference of both parties to the dispute in order to propose a solution acceptable to both parties.

#### Acceptance of Consumption Disputes

If people have consumption problems, they can call the 1950 National Consumer Service Hotline for consultation, and they can also appeal to the Taoyuan City Government Consumer Service Center for consumer disputes. The Consumer Service Center accepts about 9,000 consumer dispute appeals every year. Types with higher frequency of disputes are of housing, vehicles, communications and peripheral products, apparel, leather goods and footwear (online shopping), telecommunications, tutoring, online games, etc.

#### Actual Effects

Through the consumer dispute resolution mechanism, the disputes between consumers and business operators can be quickly resolved, and the labor costs of litigation procedures can be avoided. The overall settlement rate of consumer

dispute appeals in Taoyuan City in 2021 is 67%, which is expected to increase year by year, so that citizens can follow a fair consumer dispute appeal channel to safeguard consumer rights.

### Proactive Advocacy for Reinforced Prevention

Taoyuan City actively promotes the treatment mechanism of consumer disputes, and strengthens the promotion of consumption notices that are more prone to consumer disputes in various advocacy activities, reminding consumers to consume rationally and avoid disputes.

## 16.9 Reinforcing Correctness of Administrative Sanctions

#### Perception of the Mass

Albeit the fact that the purpose of the petition system is to provide the people with a channel of legal remedies for illegal and improper administrative punishments, the people also have to spend a considerable amount of time and efforts, which often causes the people to resent and even forfeit the remedies for their rights and interests.

#### Reflection and Reinforcement

In order to truly implement the protection of human rights, Taoyuan City Government strengthens the correctness of administrative sanctions by all of its affiliating agencies through cultivation of statutory concepts, provision of administrative sanction reference tools, reflection on improper administrative sanctions, etc., reducing the circumstances of illegal or improper administrative sanctions by affiliating agencies of Taoyuan City Government

#### Actual Effects

From 2015 to 2021, the City Government has received a total of 198 cases of administrative court judgments. The number of cases where the appeal decision and original punishment were upheld by the administrative court was 181 with a maintenance rate at 91%, which has increased year by year, indicating that Taoyuan City Government has strengthened the administration of its affiliated agencies, the sanction measures have been effective, and the appeal decision and the administrative sanction by the affiliated agency have been affirmed.

## 16.10 Mediation Mechanism

#### Strengths of Mediation

Regarding the handling of disputes over people's private rights, in addition to filing lawsuits in the court and resolving them by judgment, people may also apply for mediation to the mediation committees established in the District Offices of the City in accordance with the Township and County-Administered City Mediation Act. Disputes are resolved by means other than litigation procedures, which is the so-called Alternative Dispute Resolution (ADR). Through the ADR procedure, the parties involved in a dispute may propose solutions acceptable by both parties and resolve such dispute through direct engagements, which may save time and money and may expedite the realization of rights.

### Effects of Mediation

According to Article 27 of the Township and County-Administered City Mediation Act, after the mediation is approved by the court, the parties may not file lawsuit, complain or privately prosecute for the case. Civil mediation approved by the court has the same effect as a civil judgment; for criminal mediation approved by the court, where the payment of money or other substitutes, or a certain amount of securities is the subject, the mediation letter may be the name of execution. In 2021, the 10,905 cases have been mediated by District Offices of Taoyuan City under the Township and County-Administered City Mediation Act, with total of 8,692 cases established and a mediation sustained rate at 79.7%.

## 16.11 Mediation over Performance Disputes in Government Procurement

### Effects of Dispute Mediation

Regarding the settlement of disputes over private rights in government procurement between manufacturers and agencies, in addition to filing a lawsuit in the court for judgment, mediation by Complaint Review Board for Government Procurement in accordance with Article 85-1, Paragraph 1, Subparagraph 1 of the Government Procurement Act may serve as an alternative to litigations. For cases that have entered the procurement performance dispute mediation process, members with engineering, technical and legal professionals in the Complaint Review Board for Government Procurement will serve as the mediator putting forward acceptable suggestions to the parties, and directly negotiate and resolve disputes to save time and money of the parties and to resolve disputes more quickly. If a mediation to procurement performance dispute is established, the provisions of Article 416, Paragraph 1 and Article 380, Paragraph 1 of the Taiwan Code of Civil Procedure shall apply mutatis mutandis to the Article 85-1, Paragraph 3 of the Government Procurement Act, which such mediation has the same effect as a definitive judgment and is a legally binding quasi-judicial remedy.

### High Acceptance and Sustaining Rates

Taoyuan City Government Complaint Review Board for Government Procurement has been established since 2016. As of 2021, it has accepted 254 procurement performance dispute mediation cases, of which 155 cases have entered substantive procedures, and 136 cases have been sustained, with a sustained rate of 87.7%.

## 16.12 Taxpayer Rights Protection

### Action Plans for the Taxpayer Rights Protection Cases

The Taxpayer Rights Protection Act came into effect on December 28, 2017. Taoyuan City actively implements the "Tax Collection Authority's Action Plan for Proactively Discovering Taxpayer Rights Protection Cases" formulated by the Ministry of Finance to strengthen taxpayers' assistance in resolving tax disputes, furthermore enhancing the effectiveness of taxpayer rights protection and litigation sources.

### Rights and Obligations of a Taxpayer Protection Officer

The Taxpayer Protection Officer takes the initiative to grasp the cases of public opinion or media concerns, advises taxpayers in a timely manner, and provides necessary assistance for long-pending people's appeals and re-examination cases. When tax officers encounter tax disputes, they will take the initiative to inform taxpayers their rights to apply for assistance by taxpayer protection officer or direct filing. Through internal education training and external taxation advocacy, the public's awareness of the taxpayer protection officer system is enhanced, and taxpayers' rights and interests may be protected.

## Responsible and Transparent System

### 16.13 Honest Governance Risks Control

#### Assessment Under Prudence

In order to build a clean government, Taoyuan City filters and checks the monitored major projects and procurement cases with a value above the audit amount, establishes basic data, selects risk manufacturers and risk factors, and conducts risk assessment and formulates policy recommendations and relevant agencies for reference and use, thereby improving risk management. Through the cyclic operation of risk assessment, the manufacturer's risk data will be accumulated to form a database serving as reference for various agencies to help agencies improve interests and eliminate corruption, thereby improving quality of procurement and public works.

#### Prevention and Improvement

Taoyuan City selects relatively major or structural high-risk businesses according to the individual circumstances of the agency, compiles the annual "Organization Integrity Risk Assessment Report", analyzes the potential obvious violations involved in each execution procedure, and reports to the agency head for immediate improvement in order to avoid the occurrence of major omissions by the authorities.

#### Retrial and Supervision

The Taoyuan City Government's Department of Governmental Ethics will review the content of the report, and will perform assessment and analysis by universal or case-by-case principle in relation to risk affairs of agencies. In doubt of illegal conducts, the Department will query related information and handle dynamic evidence investigation or interviews with involved personnel for clarification with a view to effect its dual functions of anti-corruption and corruption discipline.

#### Evidence Tracking

For the risk personnel monitored in the report, in conjunction with the existing human and material resources, the authority timely conducts dynamic evidence investigation supplemented by irregular supervision and tracking of relevant situations, so as to avoid the damages or further frustration of integrity morale due to expansion of agency risks.

### **Annual Project Inventory Plan**

In response to the investigation results of cases reported by the public, handed over by higher-level agencies, or suspected of corruption, illegality, administrative violations, etc. by the agency itself, the authority formulates an annual special investigation plan to assist the agency inspection to facilitate the execution of malpractice business, and confirms the behavior of relevant personnel on whether there is any illegal or major violation.

### **Mobile Governmental Ethics**

To give full play of the "Mobile Governmental Ethics" function, affiliating governmental ethics agency is engaged to actively participate in the procurement case of the agency, and remind the agency to take appropriate action if there is any doubt in the procurement process; if unlawful information is discovered, it was supplemented by corroborating information and reported to the judicial authority for investigation and handling in a timely manner. For all kinds of investigation cases, if the governmental personnel are involved in corruption, lawlessness or administrative violations, they will be investigated for administrative responsibilities in a timely manner; if the personnel involved in the case are minor and have deep regrets after committing the crime, appropriate administrative measures or instigation to surrender are adopted.

## **16.14 Governmental Data Openness Project**

### **Data Transparency for Sharing Value**

Open government information is an advanced plan for government information disclosure, which is the embodiment of the spirit of open government governance and governance transparency. Taoyuan has established an open data platform to provide information including traffic status, public bicycles, home and motor vehicle theft points, real-time water levels monitoring, parking lots status, accommodation and tourism, health care, factory air pollution discharge and other data, with a view to make governance transparent through the disclosure of data. The public may also make utilize such government data for innovative value-added applications.

### **Compliance with OAS Standards**

In view of the fact that data standardization is beneficial to data opening and application, and can reduce the difficulty of integration with other information systems, the "Open API Specification" (OAS) has been fully introduced, and all web services on the platform provide online technical documents in compliance with the OAS standard available for view by the public. Such introduction makes it more convenient and time-saving for the public to retrieve the platform data, and improves the software development efficiency of Taoyuan City data value-added users, thereby improving the utilization rate of government data.

### **Project Implementation Effects**

The City officially launched the open data project in 2015, developing and building an exclusive data opening platform

to collect and aggregate the open data of various agencies. By the end of January 2022, more than 1,500 data sets have been opened, and more than 99% of the data on the platform have reached the three-star rating under international open data quality standard. In 2018 and 2019, it won the second and third place in the local government group of the National Development Council's Government Data Open Award Plan Gold Award. In the future, open data set items are expected to be accumulated year by year, and the authority will continue to improve open data quality and to participate in the government data open reward plan sponsored by the National Development Council to enhance the City's competitiveness.

## **16.15 Smart Customer Service for Tax Affairs-i Tao Xi**

### **AI Customer Service**

In the era of mobile networks and smart cities, in order to provide people with instant, fast and personalized tax services, Taoyuan City develops AI services by building a machine Q&A intelligence on the basis of Smart Robot technology and using natural language analysis technology and professional knowledge management system. In combination with the live customer service system, the City provides the 24-hour long-distance service "full-time intelligent customer service - i Tao Xi".

### **Easy and Convenient to Use**

Citizens may connect to i Tao Xi through the official website, Google Assistant, virtual anchors, LINE@ and other media via computer, smartphone, Kiosk and other devices for consultation or transactions of various local tax issues using text, video or voice.

### **Performance Statistics**

From its launch in November 2018 to the end of January 2022, i Tao Xi has served 36,075 users, accumulated 122,560 questions and answers, and 120,137 of which has been answered by i Tao Xi, with a coverage rate of 98.02%.

## **16.16 Budget Support for Sustainable Development**

The City makes resources allocation with the spirit of zero-based budgeting, and various sustainable development constructions including education culture, social welfare, and gender equality, are given priority to budget quotas, and budgets are published to enhance governance transparency.

### **Budgeting Proportions**

- In 2021 and 2022, Taoyuan City's expenditure budget on education, science and culture accounted for 35.94% and 39.20% of the total budget, respectively.
- The social welfare expenditure budget accounts for 15.3% and 16.26% of the total budget respectively.
- The budget for gender-related items is about NT\$ 9.3 Billion and NT\$ 9.8 Billion respectively, both showing a growing trend.

## 16.17 Statistics as Support to Decision Making

### Statistics with Exactness

Taoyuan City uses applies surveys and analysis as a reference for policy formulation and modification. For example, through the results of household income and expenditure surveys, the City can grasp the income level, consumption and savings patterns and living conditions of families of all income classes, which serve as the important references in setting of minimum threshold for living expenses by social and administrative agencies, court judgment on the payment of living expenses and alimony, calculation of basic living expenses by tax agency.

### Detailed Analysis

The analysis features the differences in circumstances and the causes of phenomena of different gender in economic, social, cultural, environmental, political structures and other aspects, providing reference for decision-making for further achieving gender equality. Statistical survey data is open for public inquiry, allowing people to jointly inspect governance performance as a step of implementing a responsible and transparent system.

## 16.18 Live Broadcasting of City Council Meetings

Since 2014, Taoyuan City Council has broadcasted the meeting proceeding on the website live and provided video archives. Citizens can watch the live broadcast or video to learn about Taoyuan City's governance direction and important issues, which helps facilitate civil supervision over governance in Taoyuan City.

## Decision Making inResponse to Public Opinion

### 16.19 Integrated Service through Single Appeal Channel

#### Municipal Mailbox for Accepting Public Opinions

In order to allow the public to express their opinions on public affairs and their own rights at any time, Taoyuan City designed a single appeal channel "2nd Generation Municipal Mailbox" in 2017 for public use. A total of 117,447 cases were accepted in 2020, and a total of 120,964 cases were accepted in 2021. The Taoyuan City municipal mailbox allows each public to put forward relevant suggestions on public affairs or issues for reference and implementation by the competent authority. If the suggestion is feasible legally and administrative-wise, the agency will also refer to the improvement and reply to the public.

#### Feedback Excellence

For cases with feedback of dissatisfaction from the public, Taoyuan City also stipulates that personnel above the level of chief secretary of the agency must perform approval of such

case as a display of agency valuing over the opinions of the public. Furthermore, to shorten the case dispatch duration by the municipal mailbox, the mailbox system features an automatic case dispatch feature to improve administrative efficiency.

## 16.20 Promoting Participatory Budgeting and Other Civic Engagements

### Implementing Civic Engagement

Taoyuan City attaches great importance to civic engagement and implements such in the policy planning. To allow the public to express their own needs, various public hearings or briefings are held to understand the public's ideas and incorporate them into policy planning.

#### (1) 2015 Aerotropolis District-Wide Hearing

Through the discussion at the meeting, not only the opinions of the public can be fully expressed, various disputes in relation to the project are explained, allowing the public to understand the overall development.

#### (2) Coastal Ecology Protection White Paper

##### Released in 2017

In the form of a citizen cafe, the opinions of various groups and the public are collected, and strategies for coastal ecological protection are proposed. Other important affairs such as environment assessment and cultural heritage preservation also transacted with information transparency and process openness to deepen the degree of citizen participation.

#### Case of Participatory Budgeting

##### (1) Taoyuan Airport Rebate Participatory Budget

This is the first case to introduce participatory budgeting with rebates in Taiwan. Nearly 4,000 people have voted, and the selected proposals include education environment improvement, sports venue restoration project, park landscaping and community care programs.

##### (2) SEA Migrant Workers Recreation and Education Events Participatory Budgeting

There are more than 110,000 foreign Migrant Workers in Taoyuan, the largest number in Taiwan. In 2017, Taoyuan City made this proposal, which was the first proposal in the world to allow foreign migrant workers to participate in public affairs discussion. With language barriers and difficulties in ideal explanations conquered, Migrant workers of 4 different nationalities including the Philippines, Vietnam, Thailand and Indonesia can fully express their opinions and decide on the leisure and recreational items they wish for. The finalists include international Muay Thai competitions, volleyball and basketball leagues and indoor futsal matches. The practice bidding attention to human rights of and friendliness to migrant workers was recognized by the "Best Practices in Civic Engagement Award" from the International Observatory on Participatory Democracy (IOPD), making Taoyuan City the first city in Asia to receive this honor.

## **Enhancing Citizen Participation**

With the rise of civic awareness, the public's willingness to participate in public affairs has become increasingly stronger. In 2016, the promotion of civic participation was strengthened by means of participatory budgeting, participatory planning, policy review and discussion, online voting, etc., allowing the public to directly participate in policy planning. From 2016 to 2021, there have been 100 issues related to the citizens, covering space improvement, community building, social welfare policy, parent-child facilities, market renovation, environment renovation, indigenous industries and the use of rebate, etc., with amount of participatory budgeting exceeding NT\$ 143 Million and the number of participants composing people with disabilities, youth, foreign migrant workers, indigenous peoples, women, school kids and the general public exceeding 70,000.

## **Voting on the Internet with Greater Convenience**

In order to provide the public with a more convenient way of participation and access to information, the online voting system of the National Development Council's "Public Policy Online Participation Platform" (<https://join.gov.tw/>) has been introduced to make voting easier, and a Taoyuan citizen participation fan page on Facebook was created for spreading Taoyuan City's civic participation message via internet and social media with a view to encourage citizens to participate.



## **16.21 Review Committee for Appropriate Development of Parks**

### **Nature and Cultural Preservations**

In order to promote the adaptive development of the park, preserve the natural ecology and historical culture image of the park, and make the overall planning of the park meet the needs of local residents and local characteristics, Taoyuan City in 2019 set up a Review Committee for Appropriate Development of Parks with members including agency representatives as well as experts, scholars and representatives of citizen groups with backgrounds of landscape, architecture, ecology, planting, playgrounds, child development, physical disabilities and special education, etc. This is to build consensus to jointly participate in the park renovation of Taoyuan City.

## **16.22 Plan for Community-Building Style Transformation of Administrations**

### **Promoting Community Building**

Taoyuan has established its Administration Community Building Transformation Promotion Office since 2018. Through the Overall Community Building Promotion Committee, the City integrates various community building resources in Taoyuan City. By guiding District Offices, combined with the spirit of civic deliberation, regional community construction center and local knowledge learning center are established for guidance and empowerment of communities in near proximity, allowing the regional governance effectiveness to be exerted.

## **16.23 Facilitating Youth Citizens Participation**

### **Formation of Youth Advisory Committee**

Taoyuan City established its Youth Advisory Committee in 2016 to provide a platform for youth policy advice that collects and understands youth opinions, analyzes youth concerns and puts forward policies and suggestions for promotion of various youth development affairs.

### **Setting Up a Communication Platform for Student Self-Government Organizations in Colleges and Universities**

A total of 14 colleges and universities in Taoyuan have set up their student self-government organizations. By holding exchange meetings and other methods, students are encouraged to participate in campus affairs. This is a act by the City Government to support young students in the promotion of various social participation and public participation issues.

## **16.24 Establishing Taoyuan City Indigenous Peoples Development Committee**

### **Policies for Indigenous Peoples Rights Guarantee**

In 2016, Taoyuan City formulated the "Taoyuan City Indigenous People's Development and Protection Regulations", which served as the base for the establishment of Taoyuan City Indigenous Peoples Development Committee. The 2nd member selection of the Committee was completed in 2021. A total of 18 experts and scholars from all tribes have been invited to assume office as the 2nd batch member to provide policy suggestions and consultations on various indigenous affairs for reference by Taoyuan City in the formulation of indigenous peoples policies. The representatives of indigenous peoples of all tribes can have a fair opportunity to put forward policy suggestions as means to promote the exchange and building of consensus of tribes in the realization of "New Horizon for Indigenous Peoples Governance in Taoyuan City".

# Partnerships for the Goals

## Strengthen the means of implementation and revitalizethe Global Partnership for Sustainable Development.

Taoyuan City actively joins international organizations, participates in international conferences and appraisals, and promotes sustainable development through international cooperation. Taoyuan City also actively promotes volunteer services, supports non-profit organizations and promotes community building in order to builds civic partnerships.

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### Promoting Sustainable Development through International Cooperation

#### 17.1 Plan of International Organization Joining

##### Joining in International Organizations for Cooperation and Exchange

Taoyuan City joined the Global Social Economy Forum (GSEF) in 2021 and the International Partnership for the Satoyama Initiative (IPSI) in 2022. Through joining of international organizations, the City contends for establishment of branches of international organizations hosting of international conferences to increase cooperation and exchange with various international city organizations and share the experience of city governance. The City is also a member of the following international organizations:

- Sister Cities International, SCI
- Intelligent Community Forum, ICF
- Local Governments for Sustainability, ICLEI
- Alliance for Healthy Cities, AFHC
- CityNet

## **17.2 Plans for Promoting EcoLogistics Initiative Project**

### **EcoLogistics Project Office**

Taoyuan City is the largest logistics settlement in Taiwan as approx. 2,000 logistics companies have located their offices in the City. In recent years, the logistics industry has grown rapidly in Taoyuan while moving towards intelligence. To reduce the air pollution, noise pollution, traffic congestion, wastes, road wear, GHG emissions, etc., by the logistics economy, alleviate the impact on the ecology, and promote ecological logistics, the City signed a contract with the International Council for Local Environmental Initiatives (ICLEI) in October 2019, and became the first chairman city of the EcoLogistics community. In March 2020, the "EcoLogistics Project Office" was established, and in 2021, it was invited by ICLEI to extend the role as chairman city for another year, showing the City's determination and achievements in realizing ecological logistics to the world. Considering the overall development of Taoyuan, the eight principles of ecological logistics are applied in the creation logistics solutions, while EcoLogistics Project Office progresses toward the goal of 2050 net zero carbon emission and realizes the concept of the UN 17 SDGs (SDGs) as a global partner.

### **Sustainable Logistics Industry Planning**

Taoyuan City will combine the logistics management experience and technology to develop a people-oriented sustainable logistics industry by intelligent traffic management covering vehicles carrying inbound shipment and their routes, promotion of warehousing green building, packaging waste reduction and recycling; delivery-end shared logistics, smart shipment receipt and truck subsidy and control, with logistics solutions proposed from the perspective of overall industry chain.

### **EcoLogistics Demonstration Area**

Through the demonstration of ecological logistics cases on the spot, other industries may learn the ecological logistics practices in detail, including the airport warehousing and logistics demonstration area, Shalun Green Warehousing Demonstration Area, Qingpu Green Energy Logistics Settlement Demonstration Area, Chunghwa Post Logistics and Hwa Ya Technology Park Demonstration Area, Demonstration area of Daxi business district, which introduce shared warehousing for flexibility to expand warehousing, automated equipment for tally efficiency enhancement by nearly 3 times and manpower requirement reduction by 30% plus reducing walking distance by 80%. In the meantime, the introduction of AI system can reduce warehouse delivery by

60% and ten-fold enhancement in shipment. In addition to the five existing demonstration areas in Taoyuan, the "Yangmei Smart Shared Warehousing Demonstration Area" will become the sixth ecological logistics demonstration area in Taoyuan City featuring specific demonstration of the intelligent sharing solution of ecological logistics.

### **Developing International EcoLogistics Indicators**

Taoyuan City integrates the eight principles of ecological logistics into the municipal administration, sorts out and applies policy tools such as transportation, environment, urban planning and land use, and establishes a city environment that can take into account the efficient transportation, reduce the environmental load, and meet the needs of industrial development and people's life functions.

EcoLogistics Indicators is a tool for cities to self-examine the development status of ecological logistics. Taoyuan City took the initiative in this Country in 2022 by jointly publishing the international version and localized ecological logistics indicators with the international city organization ICLEI, which contains inspection over results in realization of policy goals as the basis for promoting the rolling adjustment of urban logistics net zero carbon emission strategy in the future, making Taoyuan move towards the goal of becoming the best sustainable city in the world.

### **New Paradigm in International Exchange**

When Taoyuan City served as the chairman of the ecological logistics community, it actively expanded its urban diplomacy and continued to invite international cities to join the ecological logistics community to facilitate exchanges and experience sharing with the international community. Meanwhile, through ICLEI, the EcoLogistics indicators and experiences in the promotion of EcoLogistics are disseminated all over the world, opening a new model of urban diplomacy and availing Taoyuan City the chance to work with international cities in the creation of a beautiful urban environment.

Taoyuan City actively participates in the ICLEI World Congress, Daring Cities Conference, the 26th United Nations Climate Change Conference (COP 26), EcoLogistics Partner Exchange City Conference, International Ecological Logistics Community Cities Recruitment, and demonstrates the actions and achievements of Taoyuan as the chairman of the EcoLogistics city through participation in physical and online conferences, exposure on social media and official website, etc., to, and become a paradigm of sustainable environment urban governance.

## Civil Society Partnership

### 17.3 NPO Development Center

#### Establishment of Development Centers

Non-profit organizations are the key to civil society and an important partner for the public sector to collaborate and support one another. Taoyuan City has established the Non-Profit Organization Development Center to help NPOs build their autonomy, drive more social forces to engagement, and cultivate more professional talents, thereby attracting more social resources into local groups. To achieve the two goals of "deepening civil society" and "multiple social empowerment", NPOs Taoyuan City are cultivated in terms of operational support, tool application and practical exchange respectively.

#### Operational Support

The City promotes the financial transparency of non-profit organizations through the establishment of basic management and management empowerment courses such as organization affairs operations, program preparation and financial management, as well as accountant consulting services.

#### Tool Applications

The City conducts digital tool empowerment courses such as video marketing skills, management over Facebook and Line@ communities management to help NPOs increase their visibility.

#### Practical Communication

By adopting film issues as a medium, the City expects to shape a soft environment and promote dialogue between the public sector and NPOs.

#### Cultivation Results

In 2021, a total of 860 NPOs engaged themselves in the empowerment, among which Bees Wave Digital Store, Jiuguo Training Studio, and Ba Chen Geng Image Co., Ltd. carried out the empowerment of Taoyuan City NPOs through Workshop with the mentality of giving back to the society, hoping to make more NPOs thrive and attract more people to get to know local organizations with a view to cultivate more civic power.

### 17.4 Community Empowerment

#### Incubation Center

#### Establishment of Incubation Centers in Taoyuan City

Taoyuan City establishes the Community Empowerment Incubation Center to conduct community empowerment studies and training to strengthen community management and steady development capabilities.

#### (1) Guidance to Communities

Community Development Associations of the communities in the City have received the guidance by the City for sound association business, reducing the proportion of interruptions in the conduct of association affairs; high-performing communities are guided in the participation in community selection activities organized by the Ministry of Health and Welfare as a means to enhance the ability of flagship communities and the sustainable management of communities engaged in the selection. In 2021, 58 communities and 744 participants from new communities, general communities, flagship communities and selection communities, etc. have received such guidance.

#### (2) Resources Integration

The City assists in planning community development work and welfare community services, enabling them to develop independently with integrated community resources and then assist other communities.

#### (3) Training Courses

The City organizes 11 courses including "Community Integration with Long-Term Care 2.0", "Community Achievement Marketing", "Community Features and Highlights Plan Development", "Community Survey and Resource Inventory", "Community Association Affairs and Financial Management", "Community Selection Preparation and Results Presentation", "Welfare Community Concept and Development", "Welfare Community Program Resource Linkage", "Community Organization and Social Safety Net Linkage", "Community Service Program Preparation Workshop (1)", and "Community Service Program Preparation Workshop (2)" participated by a total of 436 people participated; a total of 77 people participated in the high-performing community observations.

#### Empowerment Results

In 2021, 58 communities received guidance of basic work items such as on-site guidance on community zoning and grading, community talent cultivation and training, etc., continuously organized by the authority, plus addition of innovative services including the "Community Service under the Epidemic" survey, online sharing, and linkage to "University Social Responsibility" (USR) team of local colleges and universities and organization of the community photo contest. The management of multiple activities and events expands different areas of community activities.

## 17.5 Volunteer Service Promotion Plan

### Diverse Volunteer Service for Positive Taoyuan

Taoyuan City has more than 100,000 participants engaged in volunteer service providing more than 3 Million hours of voluntary services. The types of services consists of great variety and includes environmental protection, social welfare, education services, transportation services, medical and health services, police services, agricultural promotion, civil affairs services, land administration services, labor administration services, clean government services, tour guide, sports promotion, taxation services, youth services, culture promotion, public works services, personnel services, information services, financial services, news services, urban development services and public services. Among them, there are 37,740 volunteers engaged in the environmental protection and 33,071 volunteers in the social welfare category. In addition, there are also volunteer partners such as civil defense personnel, neighborhood watches, volunteer police and traffic guides, and volunteer firefighters, etc. assisting citizens from various aspects, and infuse positive energy into Taoyuan.

### Setup of Integrated Information Platform

The City engages the "Taoyuan City Volunteer Service Integrated Information Platform" to provide a systematic management tool for volunteer individuals, engaging units (social welfare groups, environmental protection groups, schools, libraries, medical institutions, etc.), and regulating department managers to transact services such as honor cards, record books and rewards through the system. Furthermore, they may query service hours, download education training certificates and other functions, etc. on this turn-key solution to all volunteer services.

### Enhancing Rate of Engagement in Volunteer Services

Through the matching and training of volunteer service manpower supply and demand, and the multi-dimensional counseling and advocacy of volunteer services, the operational energy of volunteer organizations can be strengthened. Furthermore, guidance to potential groups within the jurisdiction of Taoyuan City (e.g. Community Development Association, social welfare groups, new immigrants bases, the four major societies and other related groups) are performed to allow them to become a volunteer team as a means to increase the volunteer engagement rate in Taoyuan City.

### Encouraging Youths in Participation of Volunteer Services

In order to arouse youths' interest in volunteering, the authority organizes events such as theme service camps, volunteer service training courses, and large volunteer recruitments. From 2020 to 2021, the authority organized relevant talent empowerment courses, children's education camps, environmental protection, community services and

other service plans, as well as online services for young volunteers in response to the epidemic. By linking students from high schools, vocational high schools, colleges and universities and employed youths in the City as well as Taoyuan citizens studying in other cities, a total of about 5,720 service actions by a 6,103 volunteers were performed. The City encourage its citizens to engage in volunteering and have enjoyment in giving.

## 17.6 Environmental Protection Volunteer Plan

### Mutual Creation of Friendly and Clean Environment

The promotion of environmental protection volunteer services has been fruitful for Taoyuan City, as the environmental protection volunteer team within its jurisdiction approaches 500, with a total number of more than 33,000 people. No matter it's in environment and hygiene, pollution reporting, environmental education and other aspects, Taoyuan City promotion of environmental protection relies on the strength of environmental protection volunteers and the cooperation of citizens, thereby making the City's environment beautiful.

### Environment Cleaning Day

Since 2018, the second Saturday of each month marks the "Taoyuan City Environment Cleaning Day", which is the day for Taoyuan City to call on the environmental protection volunteer team to perform general cleaning of the environment and the day to gathers public consensus.

### Education Training Courses

Since 2021, in response to the impact of the epidemic, the education training of Taoyuan City Government Environment Cleaning Inspection Team was mainly conducted online, supplemented by physical courses. Each year, physical courses are organized in response to actual needs, while the online education training courses are continuously updated.

### Results Presentation

In 2021, despite of the epidemic impacts, the environmental protection volunteer team still recorded 2,269 team duties by 132,464 members, with about 283,741 kilograms of waste cleaned and transported. In addition, outstanding environmental protection volunteers from 12 districts are paid visits, with interviews made to record the volunteers' changes in mentality for further posting on the authority website, allowing citizens to learn their contributions.

Taoyuan City also has Water Environmental Protection and Patrol (See Goal 6), Coast Guard (See Goal 14), and Forest Ranger Volunteers (See Goal 15) to help maintain the beautiful natural environment of Taoyuan City.



## 17.7 Civil Defense Operations Support Plan

### Civil Defense Personnel Training

To effectively utilize the civil power and effect civil self-defense and self-rescue, Taoyuan City conducts training for civil defense personnel every year. Each of the civil defense personnel performs operations support for 4 to 12 hours per month, including assistance in maintaining local law and order under normal circumstances and traffic control and evacuation, major disaster rescue and military services in special circumstances to protect the safety of people's lives and property and national security.

### Assistance by Volunteer Traffic Police Corps

In Taoyuan City, Traffic Volunteer Police Corps of the Taoyuan Citizen Defense Corps ("Volunteer Traffic Police Corps" in short) are in place to assist in clearing traffic and maintain traffic safety (See Goal 3).

## 17.8 Neighborhood Watch Operations Support Plan

Due to the advanced industry and commerce and rapidly growing population, Taoyuan City has the second highest police-community ratio among the Six Special Municipalities, and the police experience comparably heavy load in their duties.

### Establishing Neighborhood Watch

In order to relieve the burden of the police force and enhance the public's awareness of actively participating in public affairs, Taoyuan City actively guides each district to set up neighborhood watch teams responsible for arranged patrol duties at community security hotspots as well as assistance in the order of various activities in the community and the maintenance of campus security. Each member in the Neighborhood Watch in principle engages in at least 4 hours of operations support per month.

### Duties and Works

As of the end of 2021, the Taoyuan City Neighborhood Watch Teams has become a large brigade composing 163 teams under 10 squadrons with about 12,000 members. They assist 208 elementary and junior high schools in campus security patrols as well as on-site order and traffic safety maintenance Taoyuan Agricultural Expo, Taoyuan Lantern Festival, Taoyuan Land Art Festival and other major events.

## 17.9 Encouraging Youths to Engage in Volunteer Services

### Promoting Volunteer Sustainable Development

The City encourage youths to use their own knowledge and skills in their devotion to volunteer services. With the society as the field of lifelong learning, the youths may devote themselves to a multitude of services from urban and rural volunteer services to cultivating the mission of international volunteering, meanwhile taking public affairs as the target of lifelong learning experience. The City further expect youths to acquire knowledge and skills in the process of volunteering, and furthermore promote sustainable development.

### Domestic Volunteers

#### (1) Hosting of Themed Camps

The City hosts youth volunteer camps with diverse themes such as animal protection and environment maintenance, bringing out the core value of volunteer service with rich themed service experience.

#### (2) Formulation of Work Guidelines for Subsidies

The City formulates the "Work Guidelines for Subsidies of Promoting Social Participation by Youths in Taoyuan City" to boost the energy of civil volunteers and improve the volunteer service environment, and increase the willingness of citizens to participate in volunteer services.

#### (3) Inspiring Enthusiasm in Services

The City selects and commends the youth activists of the Taoyuan era, meanwhile encouraging students from high schools, vocational high schools, colleges, and universities, and civil groups to participate in service clubs and participate in social welfare activities, so as to stimulate the enthusiasm of youths to provide for the society and attract more youths to participate in volunteer services.

### Oversea Volunteers

By subsidizing international volunteer teams, youths are encouraged to engage in overseas service camps or programs. Meanwhile, through the integration of colleges and universities and private resources, the City expects that the youths may utilize their professional knowledge and skills and that they may cultivate the youths' civic obligations and missions in the international community.

### Cloud Volunteers

In response to the epidemic, the "Youth Volunteer Online Service Plan" was organized to encourage young people to use online communities and media to proceed their care for social issues and perform volunteer services.

A photograph of a large tree trunk, likely a baobab, viewed from below. The trunk is textured and light-colored. The background is a bright blue sky with scattered white clouds. The tree's canopy is visible at the top.

# *Utopia Taoyuan*

*x*

## *Going Together Hand in Hand*

Luzhu Wu-Jiou-Tung Mountain Park

## Future Outlook

With Our Hands, We Strive in One to make Taoyuan more beautiful.

With firm steps, Taoyuan is realizing the vision and goals of SDGs and building a sustainable city with friendliness and common good. Since 2019, with the 17 SDGs of UN as the municipal structure, the whole government has launched the inspection business. Through comprehensive inventory administrative plans and establishment of the vision of sustainable development, the City published the SDGs Voluntary Local Review (VLR) for the first time in 2020, which became a milestone in Taoyuan's sustainable governance.

The Taoyuan City Voluntary Local Report (VLR) serves as the regular inspection over implementation of policies, and an update to the SDGs VLR was made in 2022, two years after the previous version. During this period, following the establishment of Sustainable Development Committee in 2021, scholars and experts in related fields are invited, while bureaus, agencies and offices of the City Government are mobilized to work in small groups concentrating on the eight major areas of the municipality to review the previous administrative plans and indicators as well as their linkages with the SDGs in collaboration. This Report represents the re-examination over the effects and conduct of policies under review and contains the records of the further steps taken by the City, which includes getting closer to the citizens and listening to their voices through exclusive interviews featuring narratives of 13 citizens on their perception of effective governance, which is the highlight of this Book. All these enable Taoyuan City VLR to adjust strategies and revise indicators with the times, follow international trends, and improve the sustainable value of policies.

Taoyuan takes health and friendliness, life and work, and intelligence and resilience as the three goals of City governance, echoing the three aspects of SDGs, creating a livable city friendly to all ages and multi-ethnic groups in the environment, society and economy aspects, and promotes low-carbon green and smart cities. In 2021, Taoyuan City was invited by the International Council for Local Environmental Initiatives (ICLEI) to continue to serve as the chairman city of the EcoLogistics community. In the same year, the City participated in the 26th United Nations Climate Change Conference (COP 26) as the only Taiwan city participating in its physical meeting, showing Taoyuan's positive attitude toward the 2050 net zero carbon emission goal and international exchanges. Taoyuan expects itself to take more active cooperation exchanges and partnerships with international cities in sustainable development in the future.

Taoyuan takes the promotion of SDGs as its own duty, implements the Sustainable Development Goals in all aspects, and builds a resilient city. Facing the topic of Sustainable Development Goals, deep rooting of sustainability awareness is an immediate topic for every global citizen. In the future, Taoyuan will continue to work with public and private partners and citizens from all walks of life to jointly thrust the sustainable governance of the City and move towards the City of friendliness and common good and livable suitable for work. May the color of SDGs bloom in our Utopia Taoyuan.

# Appendix 01 Evaluation Indicators



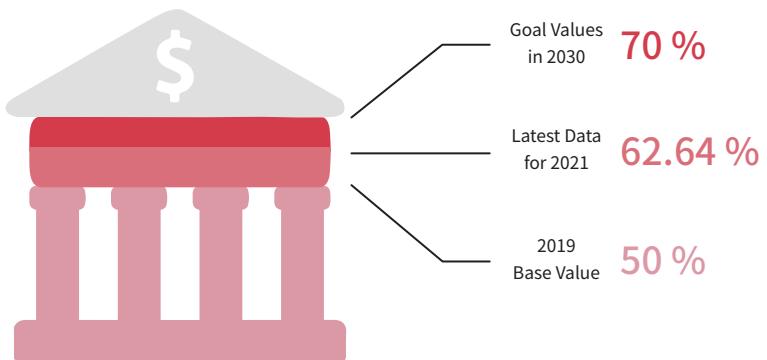
No Poverty

01

## 01 Children and Adolescent Future Education and Development Accounts Opening Rate

Eligible Account Opening Rate

$$\frac{\text{Number of Account Opening Applications}}{\text{Number of Eligible Accounts}} \times 100\%$$

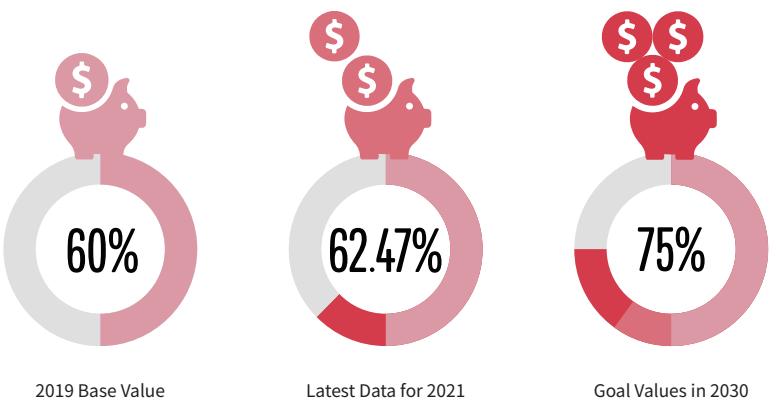


02

## Rate of Continuing Deposit to Children and Adolescent Future Education and Development Account

Continuing Deposit Ratio after Account Opening

$$\frac{\text{Total Number of Saved Deposit Receipts and Agreed Debits}}{\text{Total Number of Submitted Deposit Receipts and Agreed Debits}} \times 100\%$$



03

## Rate of vulnerable families reported as protection cases 3 months following vulnerable families services conclusion

For vulnerable families reported as protection (child or Civil protection order) case 3 months following services conclusion, the target value starts from below 7.5% in 2021 to below 5.5% by 2025.

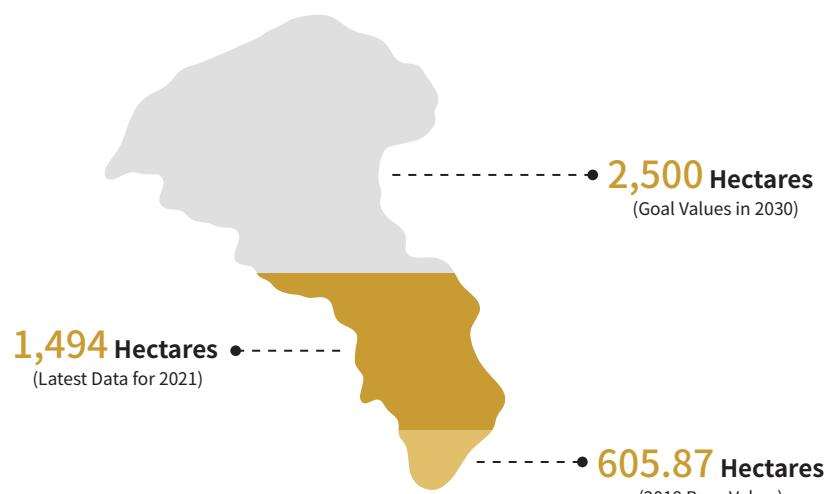
$$\frac{\text{Number of cases reported as protection (child insurance and adult insurance) cases 3 months following service conclusion in the current year}}{\text{Number of Cases Receiving 3 Months or More of Services in the Current Year}} \times 100\%$$



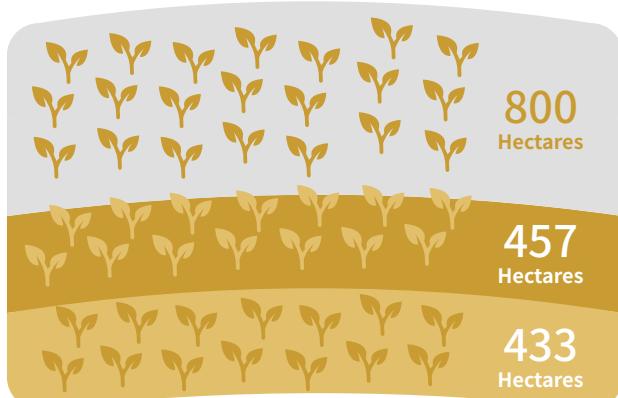


## Zero Hunger

0 2

**04 Area of TAP Crops Plantation**Area of TAP Crops Plantation  
Passing Verifications

0 5

**Area of Organic Agriculture Cultivation**

Goal Values in 2030

Latest Data for 2021

2019 Base Value



## Good Health and Well-Being

0 3

**06 DUI Incident Rate**

Proportion of Traffic Incidents caused by DUI

$$\frac{\text{Annual Number of DUI Incidents}}{\text{Total Number of Incidents in the Current Year}} \times 100\%$$


07

### Regular Exercise Population Ratio

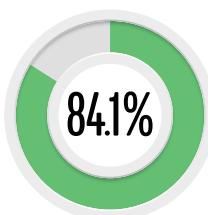
Survey on the population ratio of people over 18 years old who exercise 3 times a week for 30 minutes in Taoyuan City

Number of People Exercising

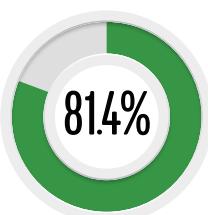
Regularly in a Week

X100%

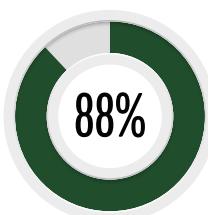
Number of Taoyuan City  
Population Surveyed



2019 Base Value



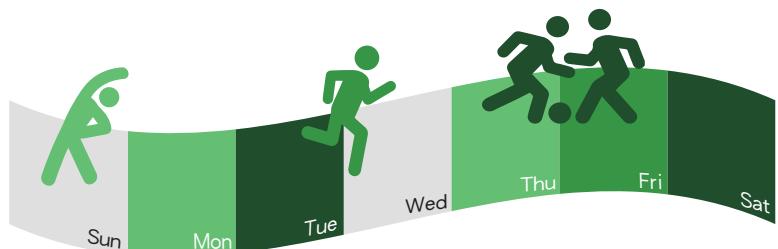
Latest Data for 2021



Goal Values in 2030

**Note:**

The data in 2021 is lower than the base value in 2019 due to the impact of the COVID-19 epidemic, plus control measures at schools, sports centers, and gyms in cooperation with the epidemic prevention measures.



08

### Fatality Rate per 100,000 people

Ratio of People Succumbing to  
Traffic Incidents per 100,000 Population

Road Traffic  
Incident Fatalities  
within 30 Days  
X100,000X100%  
Mid-term Population



11.1%

2019 Base Value

11.8%

Latest Data for 2021

7.8%

Goal Values in 2030

**Note:**

The City becomes increasingly prosperous with the urban development. With increase in population and many major infrastructure works out on the road such as MRT, sewage and sewers, the roads have become more and more complicated. In response to the rise in ratio of people succumbing to traffic incidents per 100,000 population, the City holds a monthly road safety meeting to track traffic incident data, and continues to strengthen road safety through engineering, education, and law enforcement to maintain road safety for citizens.





## Quality Education

0 4

**09****Number of Participants from Tribal University Engaging in Lifelong Learning**

Total Number of Participants from All Courses

**1,012 Participants**

2019 Base Value

**8,000 Participants**

Goal Values in 2030

**3,686 Participants**

Latest Data for 2021

**10****Number of participants in the Career Planning and Profession Exploitation for Elementary and Junior High School Students**

The total number of students who participated in the courses of each project of the Plan, including skills education classes, abstract skills education, skills education clubs, skills education camps, and vocational exploration center courses

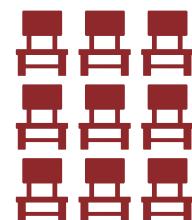
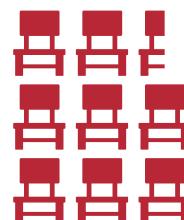
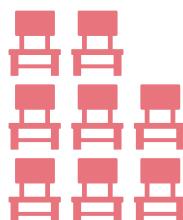
2019 Base Value

**16,000 Participants**

Latest Data for 2021

**17,500 Participants**

Goal Values in 2030

**18,000 Participants****11****Lifelong Learning Participants**

Senior Learning Center Participants

**150,000 Participants**

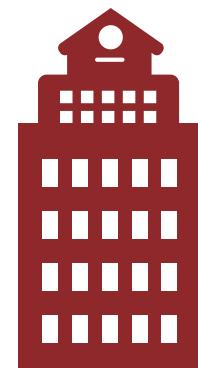
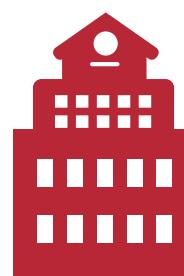
Goal Values in 2030

**112,178 Participants**

Latest Data for 2021

**96,932 Participants**

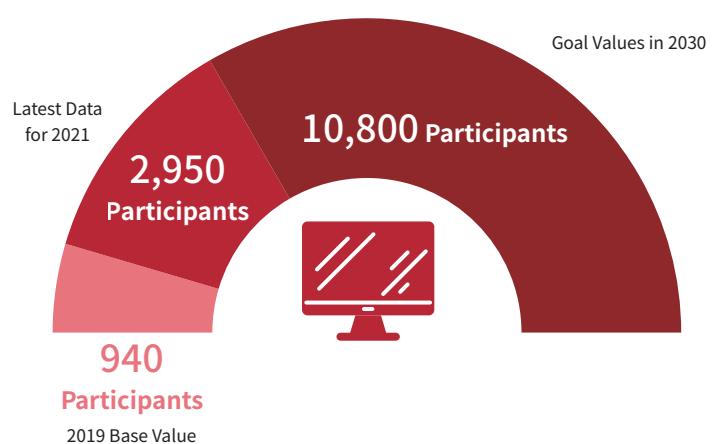
2019 Base Value



12

### Number of Digital Talent Cultivation Courses Participants

Cumulative Number of Digital Talent Cultivation Courses Participants

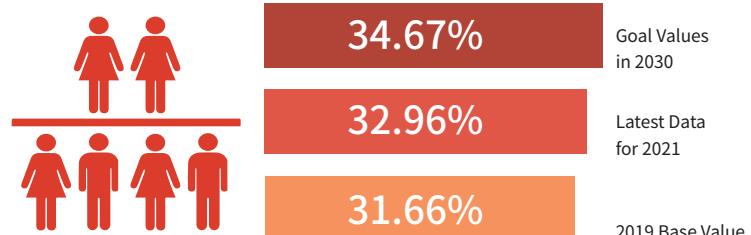


13

### Ratio of Female Employees Promotion to Senior Executive Officer and the Like in Taoyuan City Government

Ratio of Female Employees Promotion to Senior Executive Officer and the Like in Taoyuan City Government (excluding Police and Fire Protection)

Number of Female Employees Promotion to Senior Executive Officer and the Like in Taoyuan City Government  
X100%  
Total Number of Senior Executive Officers and the Like in Taoyuan City Government



14

### Promotions on the Domestic Violence, Sexual Assault and Sexual Exploitation Preventions- Participation in the Advocacy Events of the Current Year

Annual Number of Participants Receiving Advocacy





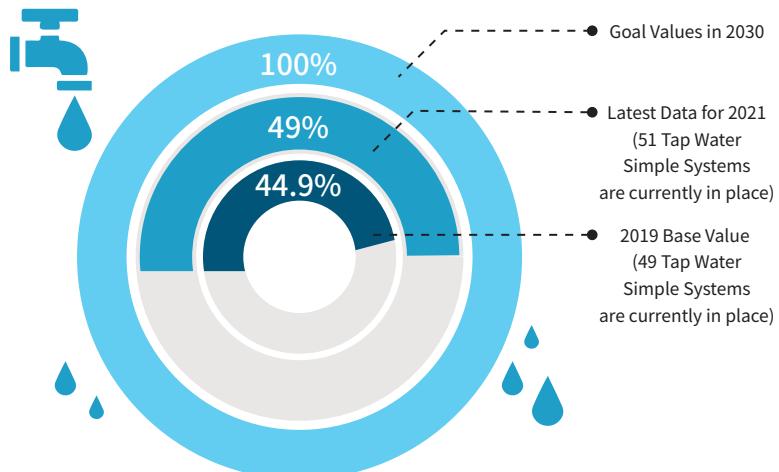
## Clean Water and Sanitation

0 6

### 15 Improvement Rate of Tap Water Simple System in Indigenous Areas

Improvement of Tap Water Simple System Circumstances in Fuxing District, Taoyuan City

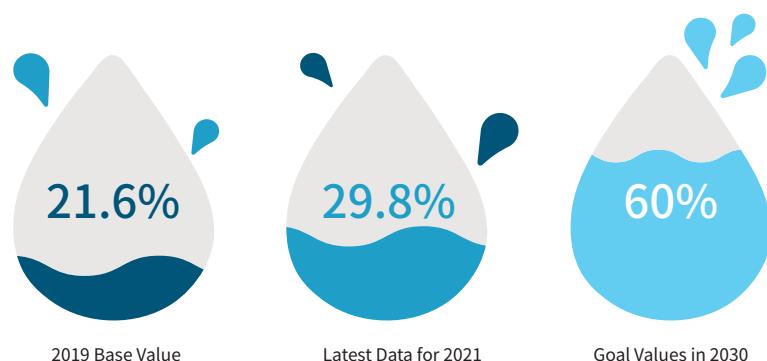
$\frac{\text{Number of Tap Water Simple System Improvements}}{\text{Number of Existing Tap Water Simple Systems}} \times 100\%$



16

### Penetration of Household with Pipeline Connection to Public Sewage (4 members per household)

$\frac{\text{Number of Households with Pipeline Connection to Public Sewage}}{\text{Total Number of Households in the City}} \times 100\%$



17

### Average BOD Concentration of in Major Rivers in Taoyuan City

Average BOD Concentration of Major Rivers in Taoyuan City (Nankan River, Laojie River, Shezi River, Fuxing River, Dahan River)

BOD Concentration at Each Water Monitoring Station

$\frac{\text{Number of Water Monitoring Stations}}{\text{Number of Water Monitoring Stations}}$

Note 1:

The increase in average concentration of BOD in rivers In 2021 is due to the widening rainfall gap in wet and dry seasons.

Note 2:

BOD concentration at Each Water Monitoring Station: The total of average BOD concentration from January to December obtained in water quality examination at each observation station.

Note 3:

Number of Water Monitoring Stations: The Environmental Protection Agency has set up 28 regular water quality monitoring stations in Nankan River, Laojie River, Shezi River, Fuxing River and Dahan River in the City.



2019 Base Value



Latest Data for 2021



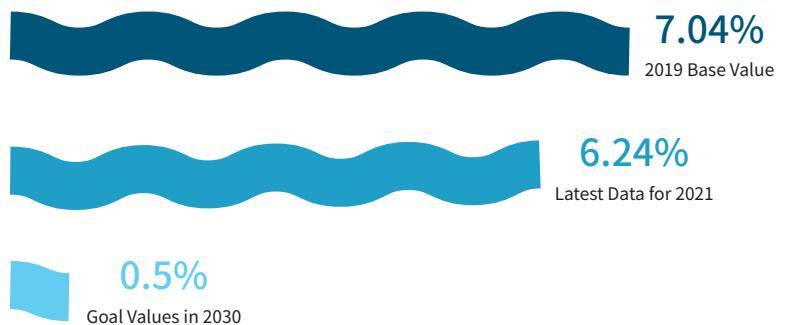
Goal Values in 2030

18

### Lengths Ratio of Severely Polluted Rivers

Lengths of  
Seriously Polluted Rivers  
X100%  
Total Length of Rivers

The ratio of the length of the major rivers classified as severely polluted to the total length of the rivers (total length of rivers: Nankan River, Laojie River, Shezi River, Fuxing River, Dahan River sum up to a total of 209.7km)



19

### Number of Households Benefitted from Tap Water Subsidy in the City

Cumulative Number of Households Benefitted from Tap Water Pipeline Extension and External Pipeline Subsidies

2,477 Households

2021 Base Value



4,277 Households

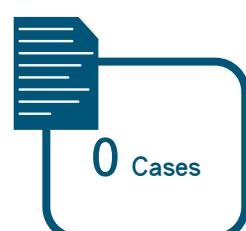
Goal Values in 2030



20

### Number of Tracked Toxic and Concerned Chemical Substances Cases

Tracking in accordance with list of abnormal upstream and downstream flows, which is generated by the system of Environmental Protection Administration, Executive Yuan





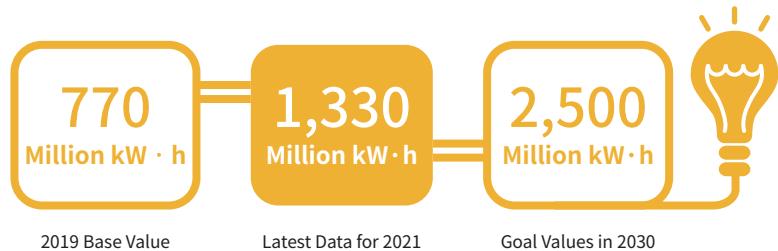
## Affordable and Clean Energy

07

### 21 Cumulative Power Generation of Renewable Energy

Cumulative Power Generation of Renewable Energy (Solar, Wind, Hydro and Others)

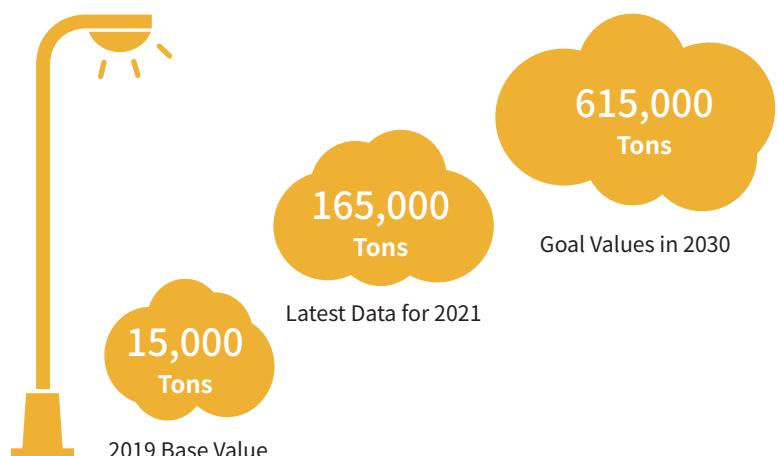
Annual Power Generation Parameters per kW of Various Types of Renewable Energy X Cumulative Installation Capacity



22

### LED Smart Street Light Replacement Plan - Cumulative Carbon Reduction

The cumulative kWh of electricity since replacement from 2019 has been converted to carbon reduction. An estimated carbon reduction of 75,000 tons carbon, or sequestration of 200 Daan Forest Parks, has been made.



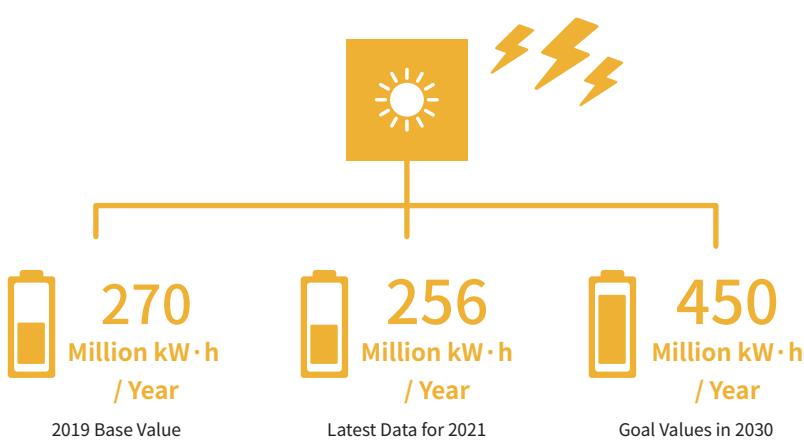
23

### Power Generation from Treatment of General Waste via Treatment Facilities or Solar Optoelectronics Systems

Generating Power X Generating Hours

#### Note:

The completion and operation of the Biomass Energy Center construction project has been delayed due to the impact of COVID-19.





## Decent Work and Economic Growth

**24**

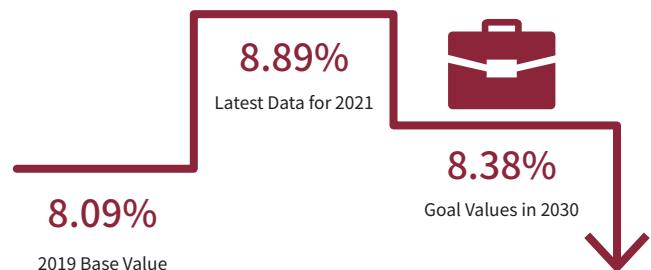
### Youth (15-29) Unemployment Rate

Ratio of Unemployed Youths to Youth Workforce

$$\frac{\text{Unemployed Youths}}{\text{Youth Workforce}} \times 100\%$$

**Note:**

The reason for the increase in the youth unemployment rate is the frictional unemployment of the youth resulting from the failure to find employment in time due to compensation and choice of occupation and industry category, or other career plans such as going abroad and examinations, tendency to seek atypical job vacancies, causing higher youth unemployment rate with greater variation.



**25**

### Employment Rate following Training at Taoyuan's "Yu-Tou-Lu (Go To Work)" Vocational Training Site

Ratio of Employed People to Number of Trainees

$$\frac{\text{Employed People} + \text{Number of People having Early Employment} - \text{Number of People Receiving Public Law Aid}}{\text{Number of People who have Completed Training} + \text{Number of People having Early Employment} - \text{Number of People Receiving Public Law Aid}} \times 100\%$$

**Note:**

The social and economic environment status is different in each year, which affects the employment opportunities, types and people's employment willingness provided by the job market in that year. Therefore, in addition to the training content, the training type and course content need to be adjusted according to social changes, and the post-training employment rate may fluctuate.



**26**

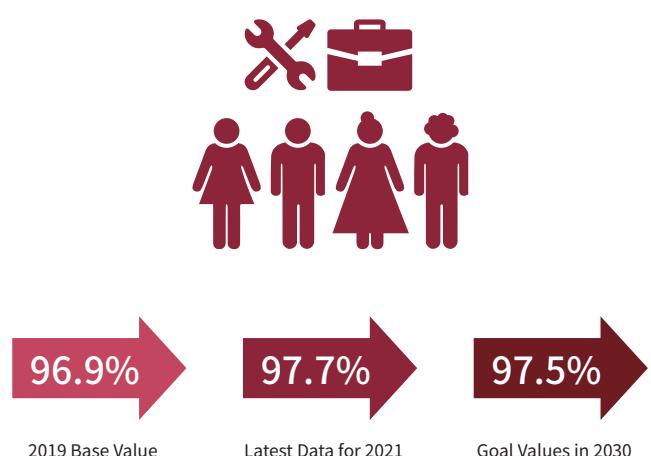
### Employment Rate of Middle-Aged and Senior Workers

Ratio of Employed Middle-Aged and Senior Workers' to Middle-Aged and Senior Workforce

$$\frac{\text{Middle-Aged Workers}}{\text{Middle-Aged and Senior Workforce}} \times 100\%$$

**Note:**

The employment rate of middle-aged and senior workers is affected by factors such as the unclear willingness of middle-aged and elderly workers to seek employment, skills and physical fitness factors, and the unsuitable workplace environment.



**27**

**Employment Rate for Persons with Disabilities after Receiving Career Rehabilitation Services**

Number of People Employed after Receiving Career Rehabilitation Services  
X100%

Number of People Receiving Career Rehabilitation Services



78%

Goal Values in 2030

72.3%

Latest Data for 2021

69.77%

2019 Base Value

**28**

**Encouraging Youth Innovation and Startup- Number of Social Enterprise Teams Guided**

At least 80 times of innovation and startup guidance are provided every year, with guidance resources consisting teams of professional mentors



80

Times

2019 Base Value

379

Times

Latest Data for 2021

880

Times

Goal Values in 2030



**Industry, Innovation, and Infrastructure**

**29**

**Rainwater Sewer Implementation Rate**

Refers to the underground drainage trunk system dedicated to the drainage of rainwater; the ratio of the planned trunk constructed length to the total planned trunk length (excluding road side ditches)

Length of Planning Trunks Constructed in Rainwater Sewer System

X100%

Length of Planned Trunks in Rainwater Sewer System



75.5%

2019 Base Value

83.12%

Latest Data for 2021



86%

Goal Values in 2030



## Sustainable Cities and Communities

30

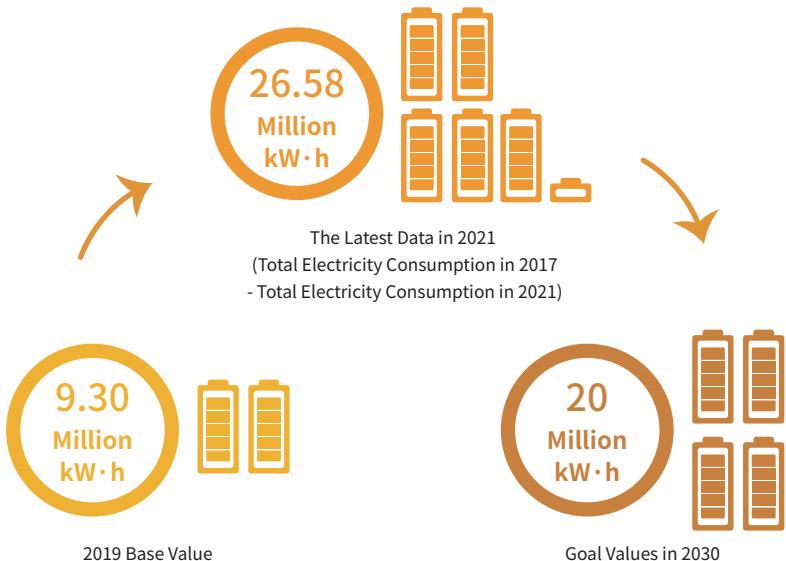
### Taoyuan MRT – Electricity Saving

Electricity Saved Compared with  
Electricity Consumption in the Base  
Year (2017)

Total Electricity Consumption in 2017 -  
Total Electricity Consumption  
in the Current Year

Note:

In 2021, due to the impact of the COVID-19  
epidemic, the number of travel traffic  
decreased, resulting in a decrease in  
electricity consumption.

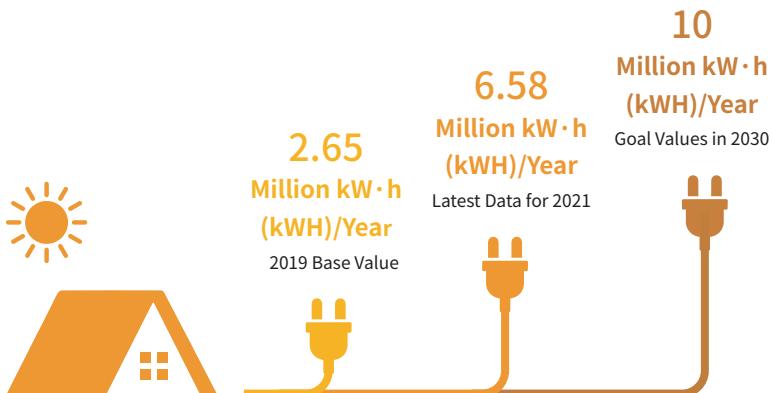


31

### Taoyuan MRT Plant - Green Energy (Solar) Power Generation

The Annual Power Generation of Solar  
Optoelectronics system Installed on  
Factory Premise Roofs

Set Capacity (kWP) X Annual Average  
Power Generation (kW·h / kWP)



32

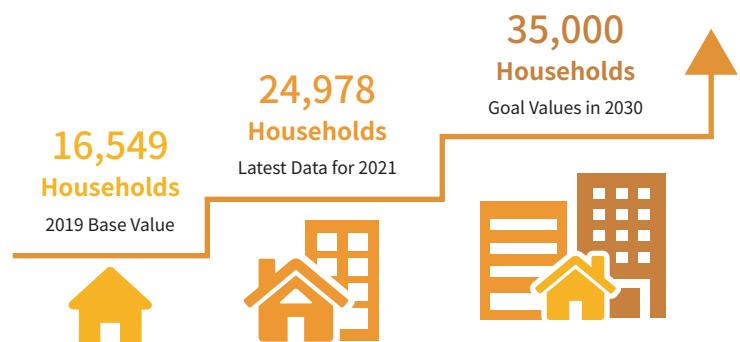
### GHG Emissions from MRT Green Line Construction

In the quantification of the GHG  
emission of MRT construction, the  
carbon emissions generated by  
engineering materials, material  
transportation, and construction  
equipment in MRT projects, about  
570,000 tons of carbon emission is  
recorded. The goal will be gradual  
reduction of carbon emissions by  
10% in the future.



**33****Diversified Social Housing Supply**

Number of Households Provided in Diversified Social Housing Sites (incl. social housing, subleasing, rent subsidies)

**34****Number of Public Bicycle Rentals**

Number of Public Bicycle Rental and Rides per year

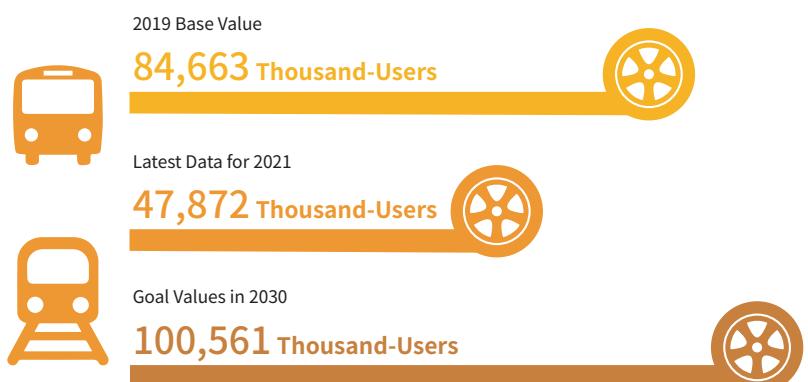
Total Number of Public Bicycle Rental and Rides from January to December in the Current Year

**Note:**  
Due to the impact of the COVID-19 epidemic, people have refrained from going out and are less willing to use public transportation equipment when they go out. Schools are also suspending classes in line with the epidemic situation. The overall number of users in 2021 is therefore less performing as expected.

**35****Annual Volume of Public Transportation**

Total Number of City Buses and Taoyuan MRT in the Current Year

**Note:**  
Affected by the COVID-19 epidemic in 2021, the rides of the existing mass transportation plummeted.



**36****Accessible Bus Ratio**

Ratio of Accessible Buses to Total Buses

$$\frac{\text{Number of Accessible Buses}}{\text{Total Number of Buses}} \times 100\%$$

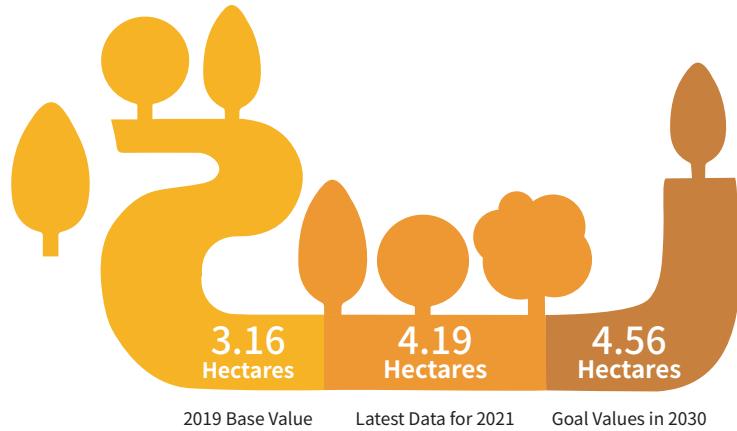
Note:

The decrease in the number of accessible vehicles is mainly due to the impact of the COVID-19 epidemic in 2021, which led to curbed number of rides and fewer accessible buses in practical operations.

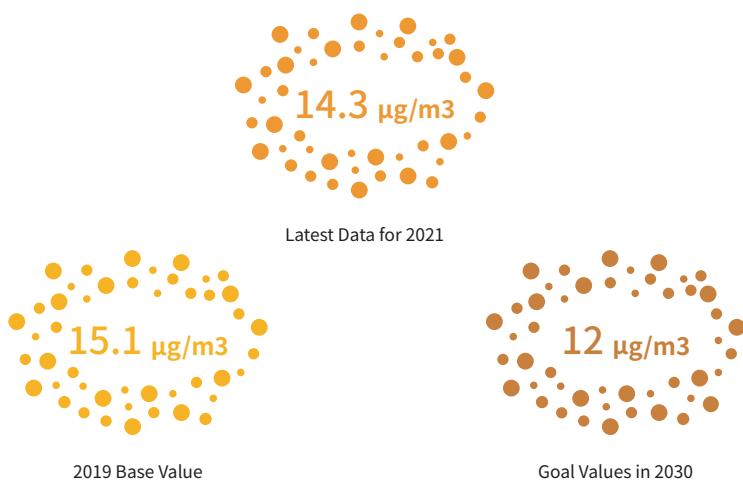
**37****Area of Park Green Field Sharable per 10,000 Population**

Urban Plan includes parks, green fields, children's playgrounds, squares, and others; parks include general parks, ecological parks, riverside parks, pond parks, sports parks, green belt parks, historical parks, and pet parks (including statistics inside and outside the City)

$$\frac{\text{Urban Plan Land Area} + \text{Non-Urban Plan Park Area}}{\text{The Population of Taoyuan City}}$$

**38****Particulate Matter (PM2.5) Concentration**

In accordance with to the average value of manual monitoring stations of the Environmental Protection Agency; annual average value of PM2.5 concentration



**39****Number of Priority Spaces for Green Energy Vehicles**

Total Number of Electric Vehicles  
Spaces in Public Parking Lots

**142 Spaces**

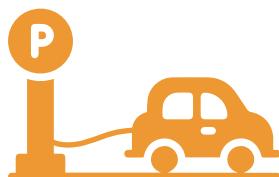
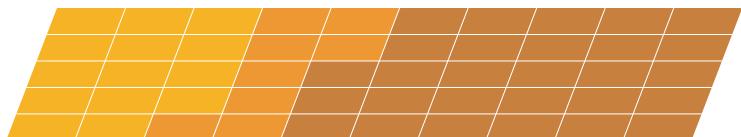
2019 Base Value

**215 spaces**

Latest Data for 2021

**500 spaces**

Goal Values in 2030

**40****Ratio of AQI > 100 Station-Days**

In accordance with the average monitoring of the general monitoring station of the Environmental Protection Agency

AQI>100 Station-Days  
-----  
Total Station-Days  
X100%

**5.7%**

2019 Base Value

**4.1%**

Latest Data for 2021

**4.5%**

Goal Values in 2030

**Note:**

Air quality is greatly affected by the atmospheric environment and overseas transmission. Regarding the low value in the latest data in 2021, continuous observation and evaluation are still required.

**41** **$O_3 \geq 86 \text{ ppb}$  Station-Days**

In accordance with the average monitoring of the general monitoring station of the Environmental Protection Agency

Max. 8-Hour  $O_3$  Average Concentration  
 $\geq 86 \text{ ppb}$  Station-Days

**9****Station-Days**

2019 Base Value

**1****Station-Days**

Latest Data for 2021

**3****Station-Days**

Goal Values in 2030

**Note:**

Air quality is greatly affected by the atmospheric environment and overseas transmission. Regarding the low value in the latest data in 2021, continuous observation and evaluation are still required.

**42**

### Accumulated Area for Revitalization and Reuse of Public Landfills

In accordance with the cumulative area of revitalization and reuse completed in each year, the actual revitalization and reuse area of Taoyuan City public landfill

**Note:**

The landfill revitalization-related operations are continuing, and the revitalization are expected to be completed in succession in 2022, and the annual goal was reached.



89.9  
Hectares

2019 Base Value

89.9  
Hectares

Latest Data for 2021

130  
Hectares

Goal Values in 2030

**43**

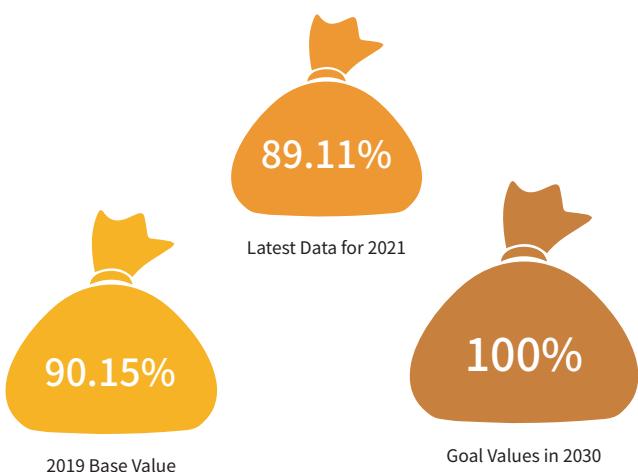
### Disposal or Treatment Rate of General Waste

Ratio of General Waste Disposed or Treated via Recycling, Disposal, etc.

$$\frac{\text{General Waste Generation}}{\text{General Waste Generation} + \text{Temporary Storage of General Waste at the End of the Previous Period}} \times 100\%$$

**Note:**

With the increase of population and activities, the amount of domestic waste in the City can increase year by year, which can no longer be adequately disposed of, resulting in the inability to improve the rate of proper disposal of General Waste. Therefore, the Taoyuan City Government Department of Environmental Protection started planning for the City at the end of 2014 the Biomass Energy Center to tackle the waste problem. The Biomass Energy Center heat treatment unit is expected to be put into trial operation at the end of March 2022, and 24-hour waste processing will be implemented in July, which will improve the City's general waste disposal or treatment rate.

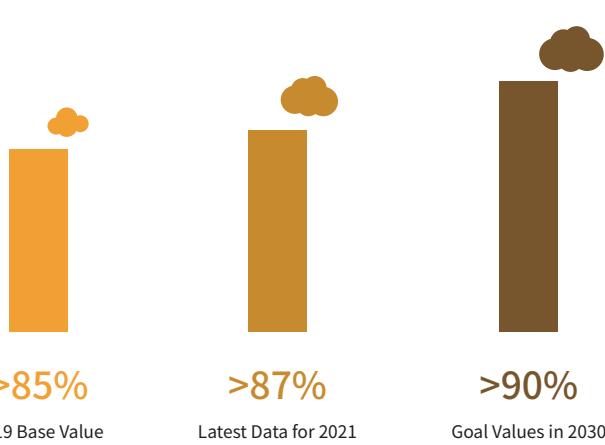


### Responsible Consumption and Production

**44**

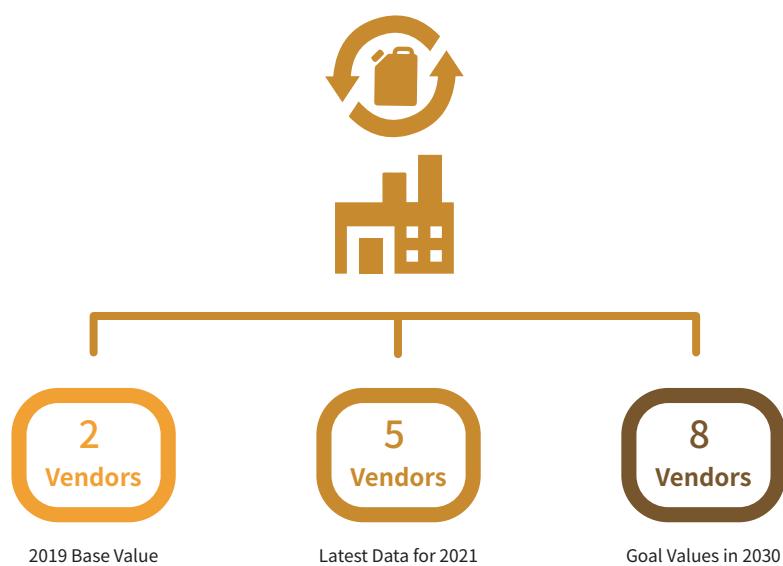
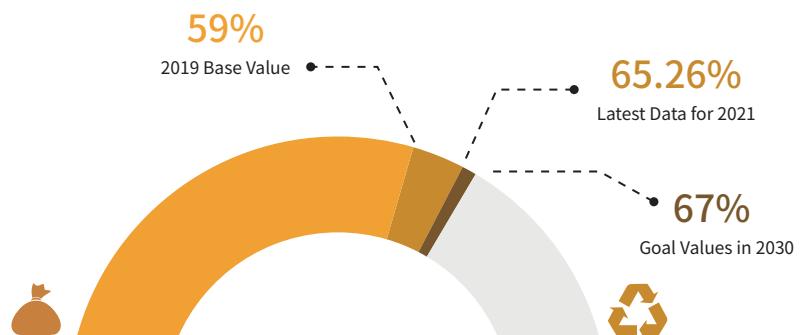
### Ratio of Industry Waste-to-Energy Conversion

$$\frac{\text{Volume of Business Waste Reused} + \text{Throughput} - \text{Final disposal Volume}}{\text{Volume of Business Waste Generated}} \times 100\%$$



**45****Annual Usage of High Heating Value SRF**

High Heating Value SRF Sales Usage

**46****Number of Vendors Engaged in Treatment, Reuse and Use of High Heating Value SRF following Guidance****47****Resource Recovery Rate**Resource Recycling Volume  
Waste Generation X100%



48

**Cumulative Number of Visitors to Training Center and Disaster Education Center, Taoyuan Fire Department**

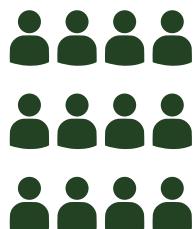
In accordance with the statistics of the people flow calculation system of Training Center and Disaster Education Center, Taoyuan Fire Department

**210,000  
Visitors**

2019 Base Value

**355,641  
Visitors**

Latest Data for 2021

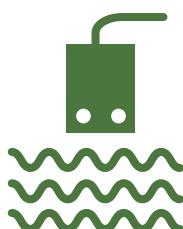
**810,000  
Visitors**

Goal Values in 2030

49

**Number of Pavement Flooding Sensors**

Cumulative Sensor Builds

**243  
Sensors**

2019 Base Value

**595  
Sensors**

Latest Data for 2021

**700  
Sensors**

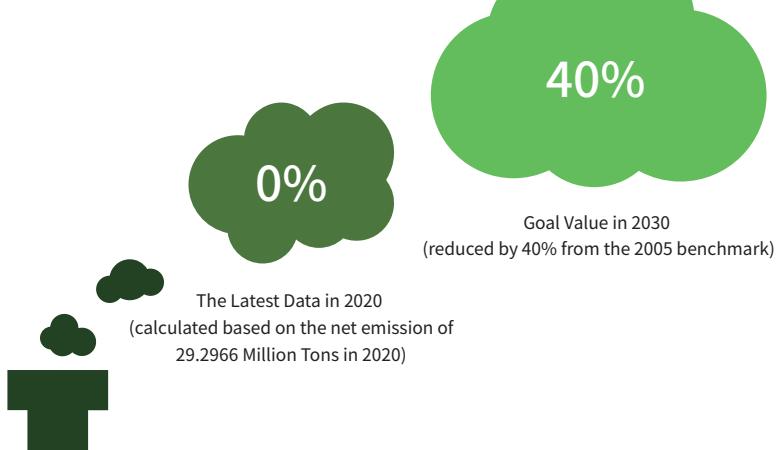
Goal Values in 2030

50

**GHG Reduction Ratio Compared to the base year (2005)**

$$\frac{\text{2005 GHG Emission} - \text{GHG Emission of the year}}{\text{2005 GHG Emission}} \times 100\%$$

**Note:**  
GHG Emission in 2005 was 29.3 Million Tons.



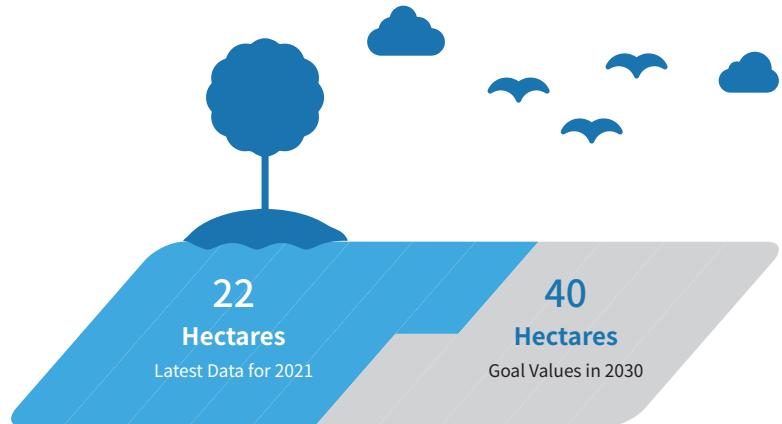


## Life Below Water

14

**51** Xucuogang Wetland-a Taiwan Important Wetland Restoration Area

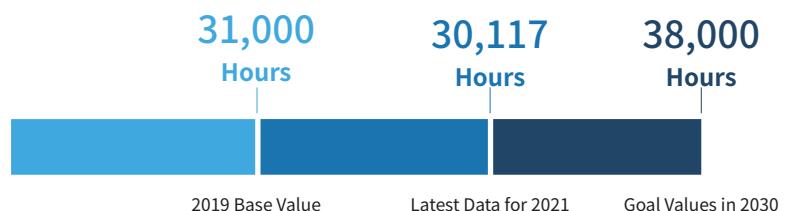
Total Area of the Xucuogang Wetland Ecological Restoration Construction Project

**52**

**The total service hours of Taoyuan City Coast Patrol (Environmental Fleet, Environment Protection Diving Team) Volunteers in the Current Year**

Total Service Hours of Coast Guard Volunteers Maintaining the Coastal Environment

Total Number of Volunteers Services  
Number of Services X 2 hours



## Note:

Due to the impact of the COVID-19 epidemic in 2021, the total number of volunteer service hours has decreased.

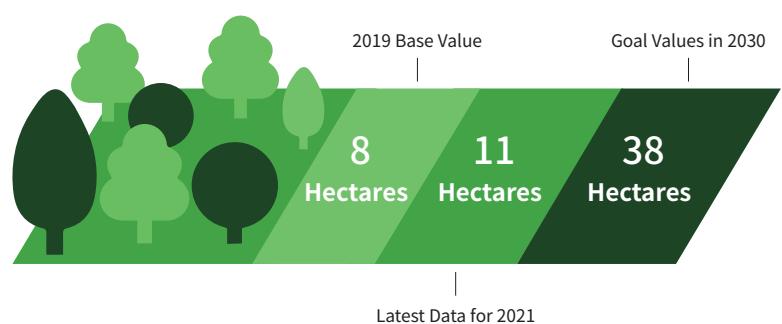


## Life On Land

15

**53****Greening and Afforestation Area**

It is estimated that 3 hectares of lands are afforested each year; Cumulative Annual Plantation and Afforestation Coverage Area





## Peace, Justice and Strong Institutions

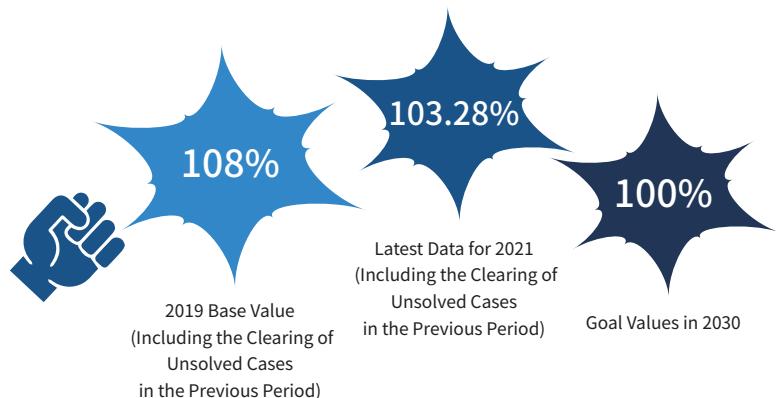
1 6

54

### Clearance Rate of Violent Case

Clearance Rate of Violent Cases in Taoyuan City

$\frac{\text{Number of Violent Cases Cleared}}{\text{Number of Violent Cases}} \times 100\%$



55

### Crime Rate - Crime per 100,000 Population

$\frac{\text{Number of Crimes in the Current Period}}{\text{Population in the Current Period}} \times 100,000 \text{ People}$



2019 Base Value

**884 Cases / per100,000 People**

Latest Data for 2021

**830.53 Cases / per100,000 People**

Goal Values in 2030

**830 Cases / per100,000 People**



## Partnerships for the Goals

1 7

56

### Number of International Organizations Joined

The future goal value is determined based on the expected growth trend of municipal development and the scale of administrative resources



**5**  
Organizations



2019 Base Value

**6**  
Organizations



Latest Data for 2021

**10**  
Organizations



Goal Values in 2030

**57**

### **Number of Volunteers in Taoyuan City Government Authorities**

In accordance with to the semi-annual report statistics of the number of volunteers engaged in services promoted by authorities of Taoyuan City Government and their results

**84,825**  
People



2019 Base Value

**98,687**  
People



Latest Data for 2021

**120,000**  
People



Goal Values in 2030

**58**

### **Volunteer Service Hours for Authorities in Taoyuan City Government**

The number of volunteer service hours at authorities of Taoyuan City Government is in accordance with to the semi-annual report statistics of the number of volunteers engaged in services promoted by authorities of Taoyuan City Government and their results

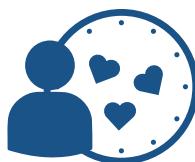
#### Note:

Due to the impact of the COVID-19 epidemic in recent years, all volunteer service units have cooperated with the epidemic prevention policy and implemented the suspension/reduction of volunteer services in January, February, and May to July respectively; furthermore, volunteers in the City are mostly mid-aged personnel to seniors, and the types of volunteer services are different in each institution. For example, schools and hospitals volunteer perform services to audiences (school kids, patients) at higher risk of infection. During the slowdown of the epidemic, authorities, subject to characteristics of affairs, resumes services by volunteers who have been vaccinated following regulation of appropriate service authorities.



2019 Base Value

**7.97 Million and 96 Hours**



Latest Data for 2021

**4.13 Million and 4,026 Hours**



Goal Values in 2030

**11.28 Million Hours**

**59**

### **International Youth Volunteers**

The cumulative number of guidance services for international volunteers. It is estimated that 160 volunteers have received guidance for international volunteer services

#### Note:

Due to the impact of the COVID-19 epidemic, the international volunteer service from 2020 to 2021 was temporarily suspended.

**279 Volunteers**

2019 Base Value



**279 Volunteers**

Latest Data for 2021



**2,039 Volunteers**

Goal Values in 2030

# Appendix 02

Plans Comparison Table



**Read-Around:**  
Scan to view contents of  
169 specific targets







### Good Health and Well-Being

Ensure healthy lives and promote well-being for all at all ages.

3.1

#### Health Checkup for Children

Corresponding specific targets | 3.2, 3.d

P.59

3.2

#### Health Checkup for Children

Corresponding specific targets | 3.3

P.60

3.3

#### Elderly Pneumococcal Vaccine Injection Plan

Corresponding specific targets | 3.3

P.60

3.4

#### Flu Vaccine Injection Plan

Corresponding specific targets | 3.3

P.60

3.5

#### Children Regular Vaccine Injection Plan

Corresponding specific targets | 3.8

P.61

3.6

#### Vaccine Delivery Plan

Corresponding specific targets | 3.8

P.61

3.7

#### Cancer Prevention Screening Plan

Corresponding specific targets | 3.4

P.61

3.8

#### Suicide Prevention and Mental Health Promotion

Corresponding specific targets | 3.4

P.61

3.9

#### Heathy and Friendly Community (Group) Promotion Plan

Corresponding specific targets | 3.5

P.61

3.10

### New-Generation Anti-Narcotics Strategies on Campus

Corresponding specific targets | 3.5

Other corresponding goals | 4.a

P.62

3.11

### Plans of Work for Excelling Narcotics Seizure Effectiveness

Corresponding specific targets | 3.5

P.62

3.12

### Improvement of Traffic Safety at Accident-Prone Locations

Corresponding specific targets | 3.6

P.63

3.13

### Plan for Reinforced Enforcement on Major Traffic Violations

Corresponding specific targets | 3.6

P.63

3.14

### Plan for Strengthening Operations Support by Volunteer Traffic Police

Corresponding specific targets | 3.6

P.63

3.15

### Technology Enforcement

Corresponding specific targets | 3.6

P.63

3.16

### Traffic Safety Advocacy

Corresponding specific targets | 3.6

P.63

3.17

### Taoyuan City Healthy and Happy Family Subsidy Plan

Corresponding specific targets | 3.7

Other corresponding goals | 5.6

P.64

3.18

### Maternity Pension and Childcare Allowance

Corresponding specific targets | 3.7

P.64





## Quality Education

Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all.

4.1

### Public Caregiving

Corresponding specific targets | 4.2  
Other corresponding goals | 5.a, 5.c

P.69

4.2

### Publicized Preschools

Corresponding specific targets | 4.2

P.70

4.3

### Plan of Career Planning and Profession Exploitation for Elementary and Junior High School Students

Corresponding specific targets | 4.3, 4.4, 4.5

P.70

4.4

### High School Vocational Talent Incubation Mechanism

Corresponding specific targets | 4.3

P.70

4.5

### Cooperative Education Plan

Corresponding specific targets | 4.3

P.71

4.6

### Cultivation of Innovative Industrial Talents

Corresponding specific targets | 4.3, 4.4, 4.7  
Other corresponding goals | 8.5, 8.6

P.71

4.7

### Learning Support for Elementary and Junior High School Students

Corresponding specific targets | 4.5, 4.6  
Other corresponding goals | 1.4

P.71

4.8

### After-Class Care Services for Elementary School Kids

Corresponding specific targets | 4.5  
Other corresponding goals | 1.4

P.71

4.9

### Schooling Expense Subsidy for Economically Disadvantaged Students in Elementary and Junior High Schools

Corresponding specific targets | 4.5  
Other corresponding goals | 1.4

P.71

4.10

### Educational Assistance to Students with Disabilities

Corresponding specific targets | 4.5  
Other corresponding goals | 1.4

P.72

4.11

### Education for Underprivileged Students in Remote Areas

Corresponding specific targets | 4.5  
Other corresponding goals | 1.4

P.72

4.12

### Elementary and Junior High Schools Overall Indigenous culture Promotion Plan (Minnan, Hakka, and Indigenous Peoples)

Corresponding specific targets | 4.5, 4.7

P.72

4.13

### New Immigrants Children Education Assistance

Corresponding specific targets | 4.5, 4.7

P.73

**4.14****Indigenous Peoples Education**

Corresponding specific targets | **4.1, 4.2, 4.3, 4.5, 4.7, 4.a**

P.73

**4.15****Environmental Education Promotion Plan**

Corresponding specific targets | **4.7, 4.a**  
Other corresponding goals | **12.8**

P.73

**4.16****Promoting Campus Fidelity,  
and Deepening Integrity**Corresponding specific targets | **4.7**

P.74

**4.17****Plans of Building Taoyuan City Library  
and Reading Habits Promotion**Corresponding specific targets | **4.a**

P.74

**4.18****Senior Learning Plan**

(1) Senior Learning Center  
(2) Evergreen Academy

Corresponding specific targets | **4.7**

P.74

**4.19****Community Colleges**Corresponding specific targets | **4.7**

P.75

**4.20****Arts and Aesthetics Cultivation Plan**Corresponding specific targets | **4.7**

P.75

**4.21****Taoyuan Environmental Aesthetics and  
Aesthetics Facilitation Plan**Corresponding specific targets | **4.7**

P.75

**4.22****Plans of Supporting Performance Art****Groups and Cultivating local Arts Talents**Corresponding specific targets | **4.7**

P.75

**4.23****Daxi Wood Art Ecomuseum  
Education Promotion and  
Cultural Education Network Project**Corresponding specific targets | **4.7**

P.76

**4.24****Child's Toys Library Plan**Corresponding specific targets | **4.7**

P.77

**4.25****Smart Learning Classroom Plan**Corresponding specific targets | **4.4, 4.7**

P.77

**4.26****Taoyuan Autodidactic 3.0 Lab**Corresponding specific targets | **4.a**

P.77

**4.27****Taoyuan City Atypical Education  
System Plan**Corresponding specific targets | **4.a**

P.77

**4.28****New School Buildings for Municipal High,  
Junior High, and Elementary Schools Plan**Corresponding specific targets | **4.5, 4.a**Other corresponding goals | **9.1**

P.78

**4.29****Old and Unsafe Buildings and  
Old Schools Renewal Plan**Corresponding specific targets | **4.a**Other corresponding goals | **9.1**

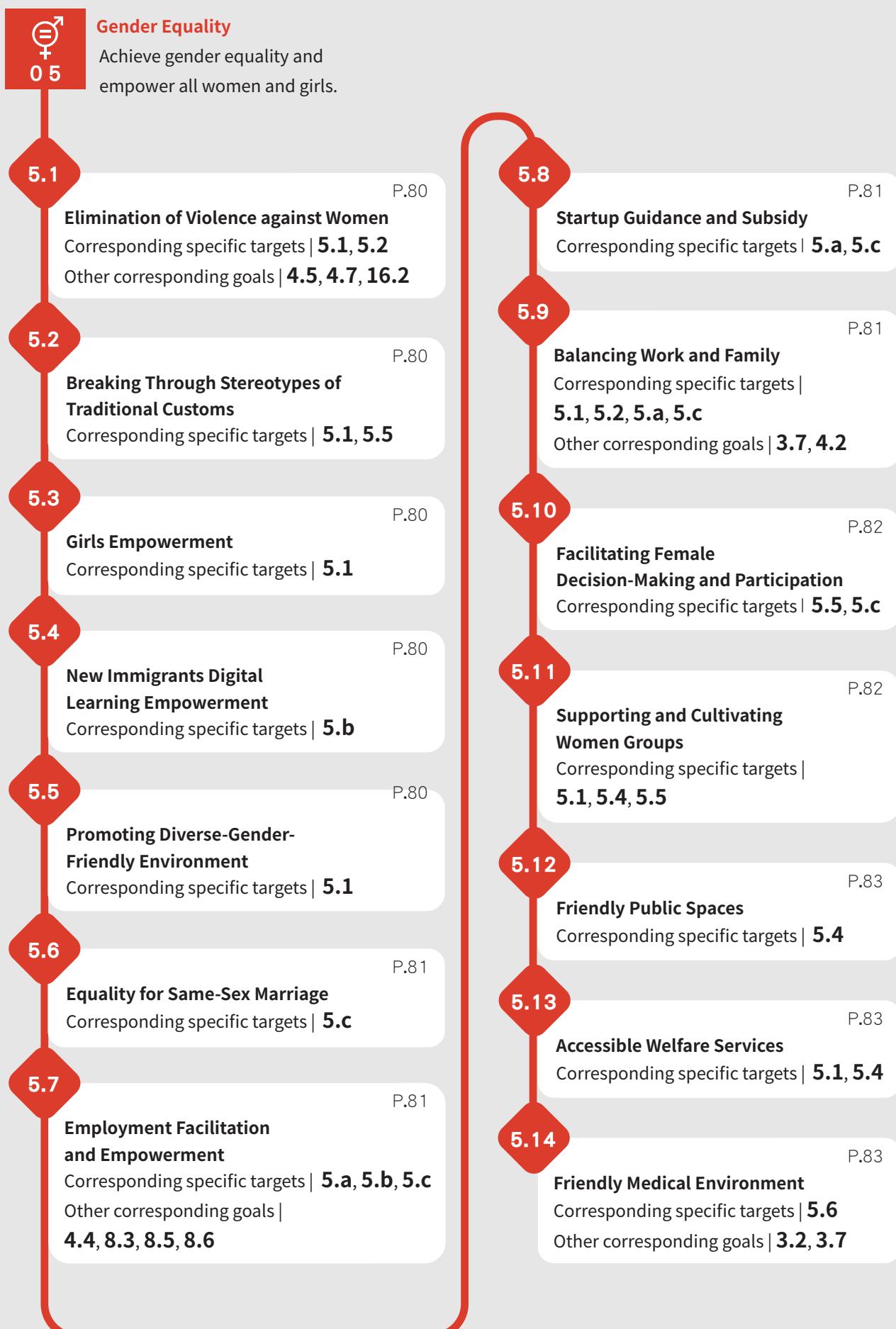
P.78

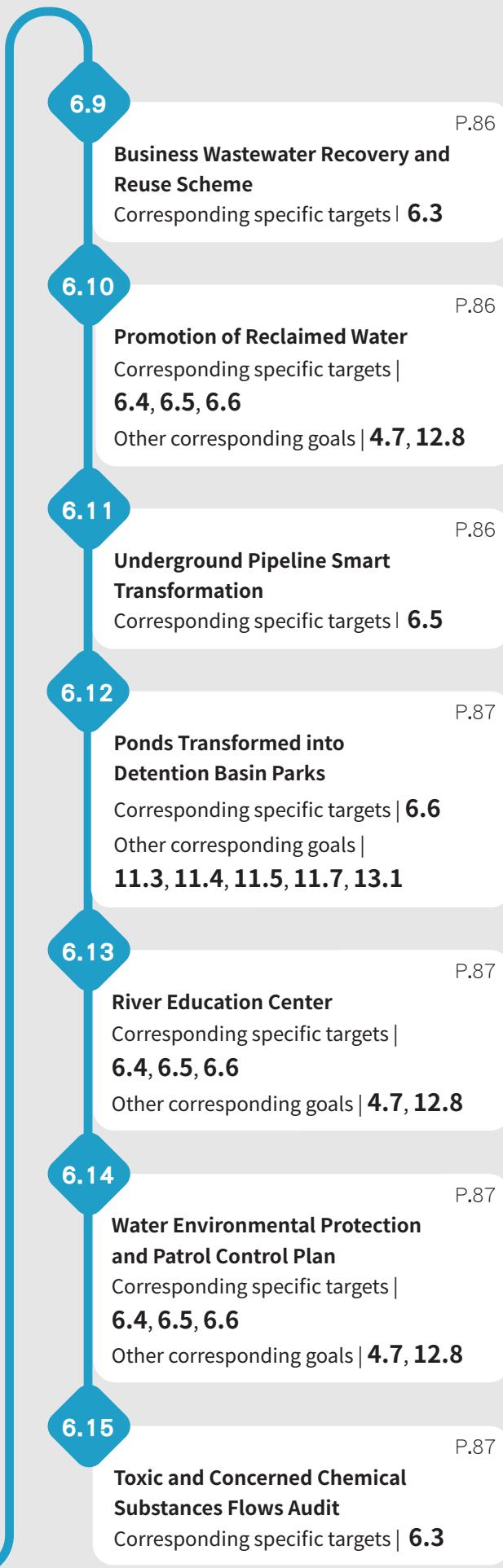
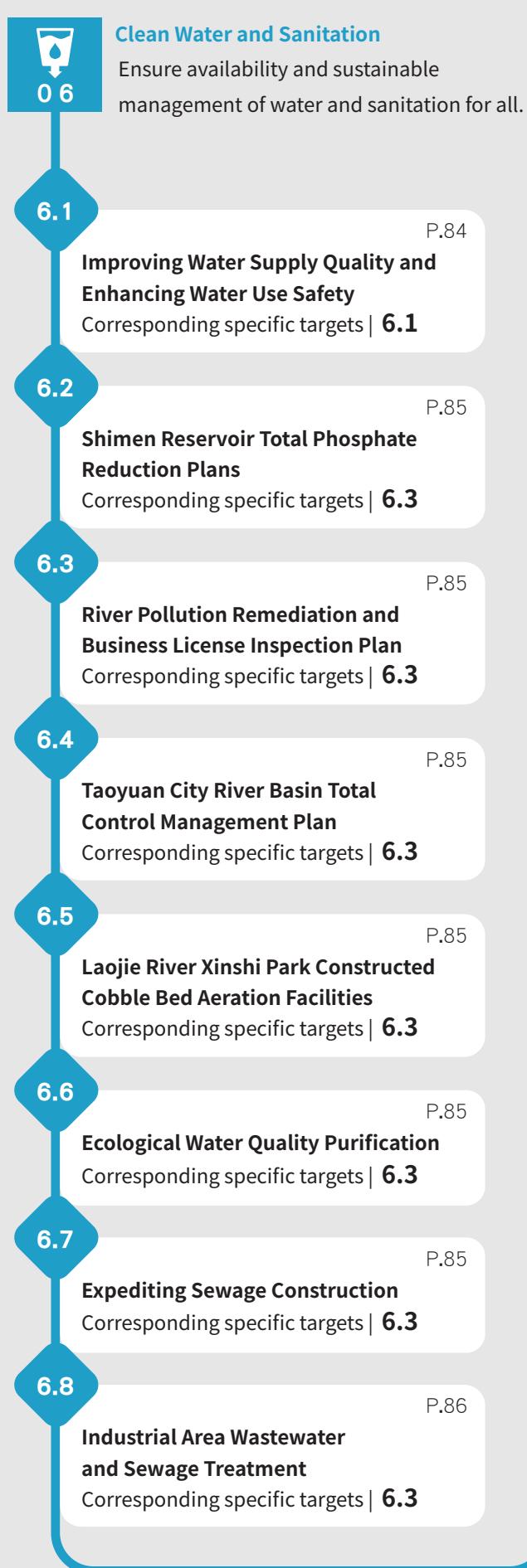
**4.30****Anti-Bullying Policy for  
Creation of Friendly Campus**Corresponding specific targets | **4.a**

P.78

**4.31****Guard Volunteer Plan**Corresponding specific targets | **4.a**

P.78







### Affordable and Clean Energy

Ensure access to affordable, reliable, sustainable and modern energy for all.

7.1

#### Taoyuan Green Power City Plan

Corresponding specific targets | 7.2

P.88

7.2

#### Plan for Waste-to-Energy from Waste Treatment Facilities

- (1) BOO Refuse Incineration Plant
  - (2) Taiwan's First Three-in-One Biomass Energy Center
  - (3) Solar Energy Green Power and Renewable Energy from Public Landfill
- Corresponding specific targets | 7.2  
Other corresponding goals | 12.5

P.89

7.3

#### LED Smart Street Light Replacement Plan

Corresponding specific targets | 7.3

P.90



### Decent Work and Economic Growth

Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all.

8.1

#### Asia Silicon Valley in Taoyuan

- (1) Hutoushan Innovation Hub
- (2) Asia Silicon Valley Innovative R&D Center
- (3) Connecting Central and Local Resources
- (4) Broadening Business Opportunities in the International Stage

Corresponding specific targets | 8.3

P.91

8.2

#### Soliciting Businesses and Attracting Investment to Promote the Economy

Corresponding specific targets | 8.3

P.92

8.3

#### Plan for Localization of Maintenance Spare Parts for Rail Industry

Corresponding specific targets | 8.3

P.92

8.4

#### Civil Participation in Operations and Management of Sports Venues

Corresponding specific targets | 8.3  
Other corresponding goals | 9.c, 11.a

P.92

8.5

#### Youth Startup Base

Corresponding specific targets | 8.3, 8.5, 8.6

P.93

8.6

#### Social Enterprise Center and Social Responsibilities of Colleges

Corresponding specific targets | 8.3, 8.6

P.93

8.7

#### Youths Employment Assurance and Employment Grand-Slam Schemes

Corresponding specific targets | 8.5, 8.6

P.93

8.8

#### Providing Employment Assistance to the Underprivileged Groups

Corresponding specific targets | 8.5  
Other corresponding goals | 1.4

P.94

8.9

#### Priority Employment of Underprivileged Groups at Government Agencies

Corresponding specific targets | 8.5  
Other corresponding goals | 1.4

P.94

8.10

#### Career Reconstruction Services for Persons with Disabilities

Corresponding specific targets | 8.5  
Other corresponding goals | 1.4

P.94









## Sustainable Cities and Communities

Make cities and human settlements inclusive, safe, resilient and sustainable.

11.1

P.112

### Promoting Diverse Social Housing

- (1) Expediting Social Housing Constructions and Supplies
- (2) Supported with Diverse Rental Subsidy Resources

Corresponding specific targets | 11.1, 11.3

Other corresponding goals | 10.4

11.2

P.112

### Indigenous and Tribal Land

#### Use Zoning Rectifications

Corresponding specific targets | 11.1, 11.a

11.3

P.112

### Dahan River Urban Indigenous Tribes Creation

Corresponding specific targets | 11.1, 11.3

11.4

P.112

### Cadaster Clearance and Ancestry Protection Plan

Corresponding specific targets | 11.1

11.5

P.113

### Land Administration Information Internet Services

Corresponding specific targets | 11.1

11.6

P.113

### Cadaster Quality Improvement Operations

Corresponding specific targets | 11.1

11.7

P.113

## Construction of Three Hubs and Six Lines Rails

- (1) Route Network Planning
- (2) Valuing Preservation of Cultural Assets
- (3) Green Building Design and Wasteland Management
- (4) Use of Reclaimed Water and Wastewater and Sewage Treatment

Corresponding specific targets | 11.2, 11.4, 11.a

Other corresponding goals | 3.6, 6.4, 6.5, 12.4, 12.5

11.8

P.114

### MRT Facilities Planning

- (1) Raising Traffic Volume and Optimizing Services
- (2) Steady and Safe Train
- (3) Introducing the Intelligent Energy-Saving Design
- (4) Enhancing Capabilities of Emergency Response

Corresponding specific targets | 11.2, 11.5, 11.6

Other corresponding goals | 7.3, 7.a, 9.c

11.9

P.115

### Parent-Child Friendly Trains

Corresponding specific targets | 11.2

11.10

P.115

### Bus System Planning

Corresponding specific targets | 11.2

11.11

P.115

### Encouraging Riding Mass Transportation

- (1) Marketing Plans for Encouraging Rides on Airport MRT
- (2) Bus Ride Offers

Corresponding specific targets | 11.2

**11.12****Promoting Shared Electric Vehicles**

- (1) Electric Car and Motorcycle
- (2) Public Bicycles

Corresponding specific targets | **11.2**  
Other corresponding goals | **13.2**

P.115

**11.15****Urban Land Readjustment Development**Corresponding specific targets | **11.3**

P.118

**11.13****Accessible Transportation Environment**

- (1) Accessible Transportation Environment
- (2) Transportation Fare Concession for the Underprivileged Groups
- (3) Transportation Services Friendly to Elderlies and Persons with Disabilities
- (4) Enhancing Accessibility of Remote Areas via Transportation
- (5) Sidewalk Quality Enhancement Plan
- (6) Smoothening Arcade Floors
- (7) Cable and Utility Poles Undergrounding Plan
- (8) Traffic Calming Zones

Corresponding specific targets | **11.2**

P.116

**11.16****Zone Expropriation Plan**Corresponding specific targets | **11.3**

P.119

**11.17****Urban Renewal Promotion Plan**Corresponding specific targets | **11.3**

P.119

**11.18****Public Idle Lands Revitalization**Corresponding specific targets | **11.3**

P.119

**11.19****Good Household Registration****Neighbor-Turnkey Electronic Service Plan**Corresponding specific targets | **11.3, 11.a**

P.119

**11.14****Development of Taoyuan Aerotropolis**

- (1) Introduction of Three-Low-and-One-High, EcoLogistics, Green and Innovative Industries
- (2) Promoting Intelligent and Resilient City with Philosophy of Circular Economy
- (3) Preservation of Existing Cultural Assets
- (4) Proper Settlement of Existing Residents and Plants
- (5) Focusing on Citizen Participations

Corresponding specific targets |

**11.3, 11.4, 11.7**

Other corresponding goals |

**6.6, 8.2, 8.3, 8.9, 9.1, 17.17**

P.117

**11.20****Premium Public Building**Corresponding specific targets | **11.b**

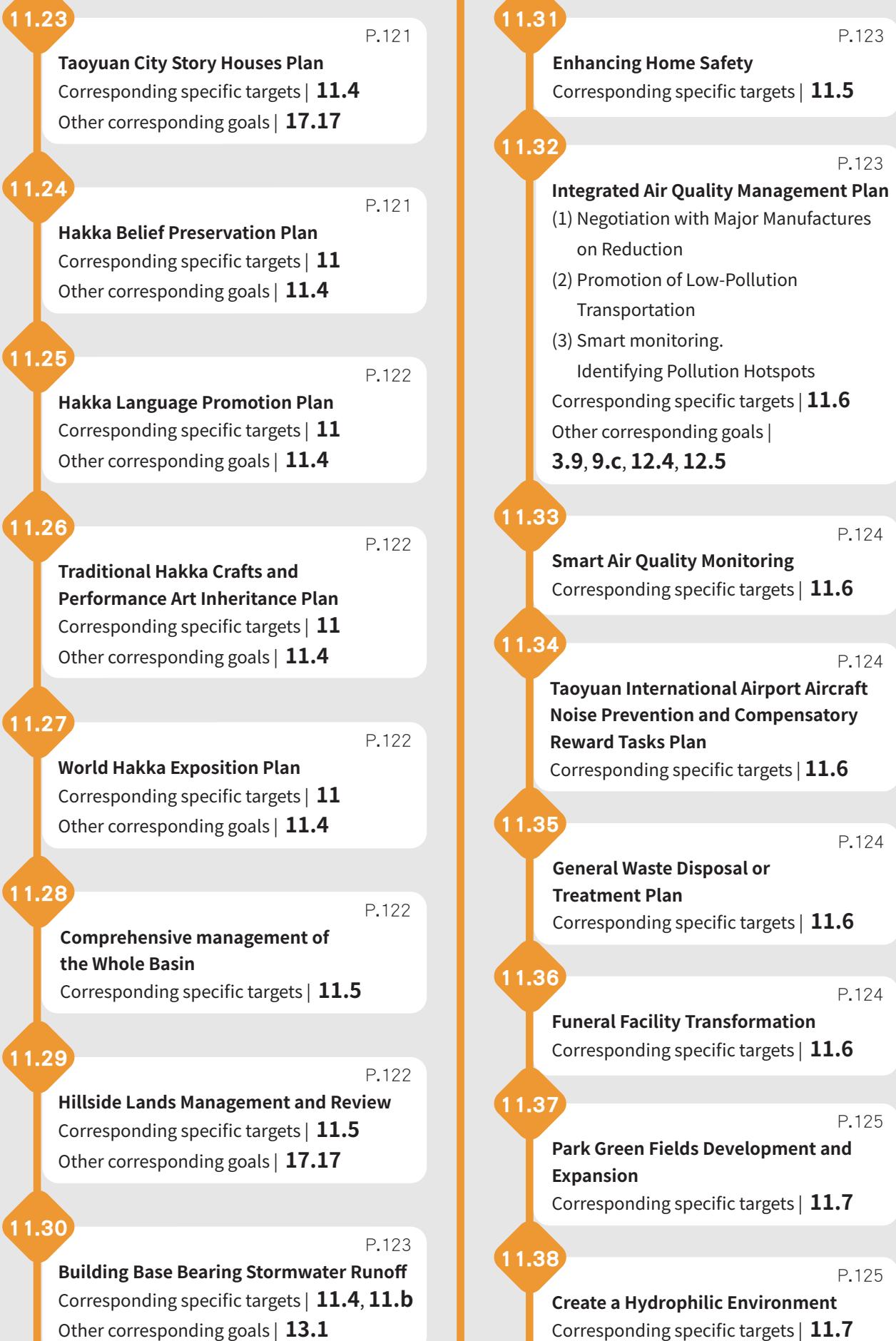
P.119

**11.21****Promotion of Taoyuan Ponds and Stone Weir Preservation and Sustainable Development Plan**Corresponding specific targets | **11.4**

P.120

**11.22****Historical Building Restoration Plan**Corresponding specific targets | **11.4**

P.120







## Climate Action

Take urgent action to combat climate change and its impacts.

13.1

**Low-Carbon Green City Plan**  
Corresponding specific targets | **13.2**

P.130

13.2

**Water Retention at Roads of Green Transportation**  
Corresponding specific targets | **13.2**

P.131

13.3

**Fenghe Disaster Prevention Park**  
Corresponding specific targets | **13.2**

P.132

13.4

**Agriculture Disaster Prevention Plan**  
(1) Agriculture Disaster Prevention  
(2) Agricultural Insurance  
(3) Subsidies for Tea Plantation  
    Irrigation Facilities  
Corresponding specific targets | **13.2**  
Other corresponding goals | **2.4**

P.132

13.5

**Great Barn Plan**  
Corresponding specific targets | **13.2**  
Other corresponding goals | **12.4, 10.4, 12.1**

P.132

13.6

**Plan of Bees and Snakes Catching Services for Civilians**  
Corresponding specific targets | **13.3**

P.133

13.7

**Intelligence Transformation of Disaster Prevention Management**  
Corresponding specific targets | **13.3**  
Other corresponding goals | **11.a**

P.133

13.8

**Mobile Dispatch 119-The New Era of Smart Rescue**  
Corresponding specific targets | **13.3**  
Other corresponding goals | **11.a**

P.133

13.9

**Fuxing District Mobile Telephony Platform for Disaster Prevention and Rescue**  
Corresponding specific targets | **13.3**  
Other corresponding goals | **1.5, 9.c, 11.5**

P.133

13.10

**Disaster Prevention Education**  
Corresponding specific targets | **13.3**  
Other corresponding goals | **4.7**

P.133

13.11

**Water Safety Advocacy on Campus**  
Corresponding specific targets | **13.3**  
Other corresponding goals | **4.7**

P.134

13.12

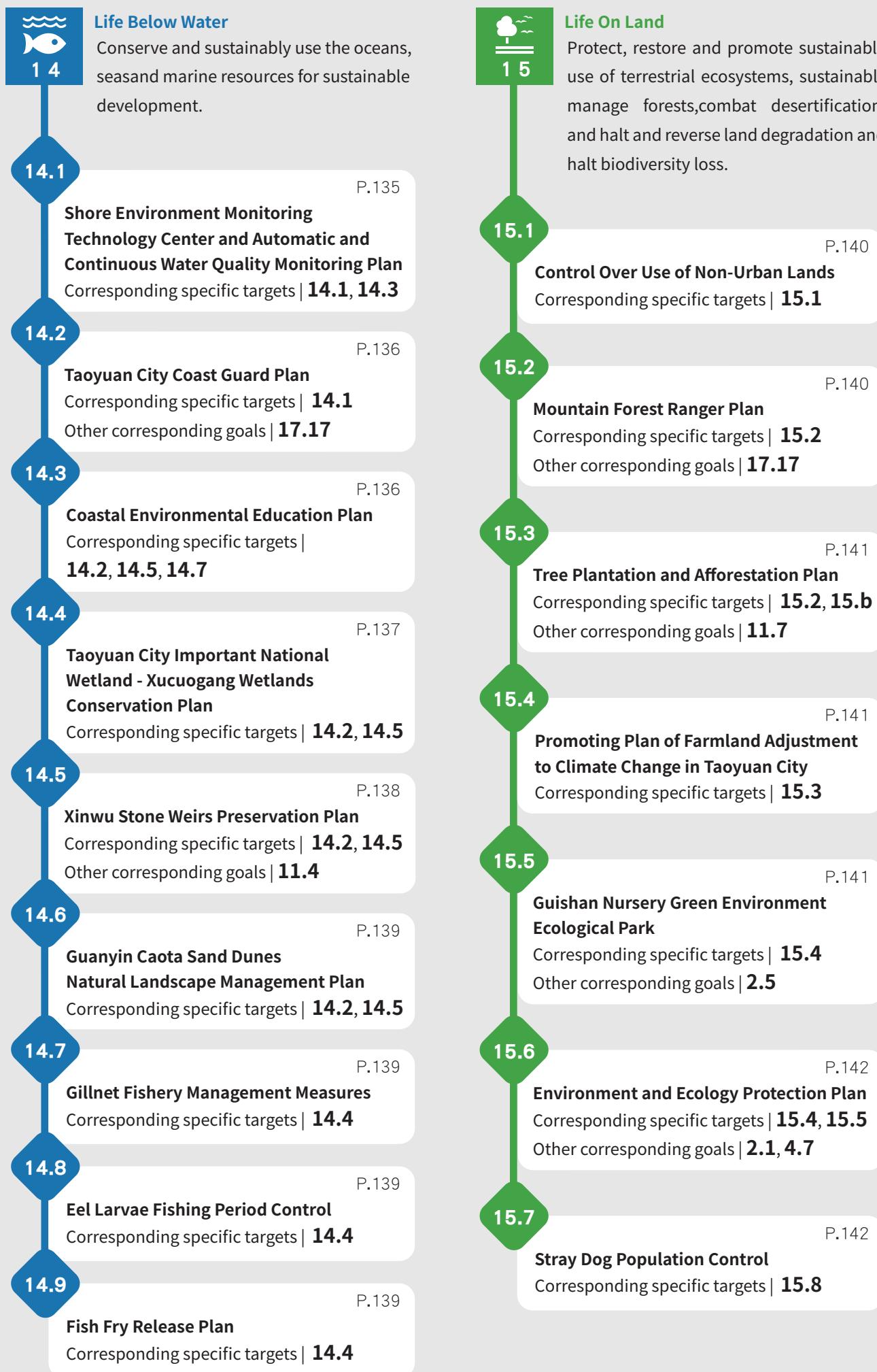
**Self-Initiated Disaster Prevention in Communities**  
Corresponding specific targets | **13.3**

P.134

13.13

**Low-Carbon and Sustainability Demonstration Community**  
Corresponding specific targets | **13.3**

P.134





## Peace, Justice and Strong Institutions

Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels.

**16.1**

### Intensive Surveillance and Video-Recording Systems

Corresponding specific targets | **16.1**

P.143

**16.2**

### Execution Plan for Comprehensive Inspection by Anti-Gun and Ammunition

Corresponding specific targets |

**16.1, 16.2, 16.4, 16.a**

P.144

**16.3**

### Evaluation Plan for Inspection of Gangs

Corresponding specific targets |

**16.1, 16.2, 16.4, 16.a**

P.144

**16.4**

### Execution Plan for Disposal of Street Mutual Fights

Corresponding specific targets |

**16.1, 16.2, 16.4, 16.a**

P.144

**16.5**

### Plans for Emergency Handling of Violent and Major Man-Made Hazardous Events or Terrorist Attacks

Corresponding specific targets |

**16.1, 16.2, 16.4, 16.a**

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**16.6**

### Execution Plan for the Juvenile Guidance through Dispatch

Corresponding specific targets | **16.1**

P.144

**16.7**

### Execution Plan for Community Security Meetings

Corresponding specific targets | **16.7**

Other corresponding goals | **17.17**

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**16.8**

### Consumption Disputes Treatment

Corresponding specific targets | **16.3**

P.145

**16.9**

### Reinforcing Correctness of Administrative Sanctions

Corresponding specific targets | **16.3, 16.b**

P.145

**16.10**

### Mediation Mechanism

Corresponding specific targets | **16.3, 16.b**

P.145

**16.11**

### Mediation over Performance Disputes in Government Procurement

Corresponding specific targets | **16.3, 16.b**

P.146

**16.12**

### Taxpayer Rights Protection

Corresponding specific targets | **16.3**

P.146

**16.13**

### Honest Governance Risks Control

Corresponding specific targets | **16.5**

P.146

**16.14**

### Governmental Data Openness Project

Corresponding specific targets | **16.10**

P.147

**16.15**

### Smart Customer Service for Tax Affairs-i Tao Xi

Corresponding specific targets | **16.6**

Other corresponding goals | **3.9, 11.6, 13.3**

P.147

**16.16**

### Budget Support for Sustainable Development

Corresponding specific targets | **16.6**

Other corresponding goals | **5.1, 5.a, 10.2**

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**16.17**

### Statistics as Support to Decision Making

Corresponding specific targets | **16.6**

Other corresponding goals | **1.1, 5.1, 5.a**

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# SUSTAINABLE DEVELOPMENT GOALS

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TAOYUAN CITY GOVERNMENT