



# 8 Traffic and Transportation

*The quality of the transportation of all citizens depends on traffic and transportation services. With its transport vision of "humanistic and sustainable transportation," Taipei City promotes environmentally friendly "green transportation" and strives to implement the social justice idea of humanistic traveling, thereby aiming to achieve the objective of building a high-quality, smart and efficient, seamless, environmentally-friendly LOHAS, and a safe and equitable transportation environment. With the progress of smart technology, the Internet and wireless cloud computing, transport quality has been raised to a higher level, allowing citizens to travel around the city efficiently and easily, while enjoying a warm LOHAS life.*



## 08/ Traffic and Transportation

To ensure the balanced development of all transportation systems, the Taipei City Government continues to give priority to public transportation, with a smart technology-aided mass rapid transport system, low-floor buses, the City Minibus and the city bicycle lane network, creating a seamless high-quality transportation environment. Also, a standardized, barrier-free design has been applied to the design of all transportation system services and facilities; “start from the heart, and create humanistic traveling,” sums up the approach, taking into account the transportation needs of all ages; a friendly and safe transportation environment is thereby provided. “Smart E-life for Traveling around Taipei” is not just a slogan; it has become a part of people’s daily lives.

### Part 1 Seamless Transfer and LOHAS Traveling

#### 1. Urban Bicycle Lane Network

By the end of 2012, there were 29 kilometers of exclusive bicycle lanes and 107 kilometers of pedestrian and bicycle shared lanes, totally 136 kilometers in Taipei City.

##### (1) The Beitou Living Sphere Bicycle Lane

In 2012, the Daye Road and Tianxinzei Park Bicycle Lanes, around one kilometer long in total, were established to link the existing Guizikeng River and Daye Road Bicycle Lanes, and also to connect the soon-to-be-reopened Dadu Road Bicycle Lane, to link the Beitou living sphere bicycle lane network.



Beitou living sphere bicycle lane



Urban bicycle-lane guide logo

##### (2) The Living Sphere Bicycle Lane Network

Over a three-year period beginning from 2012 the urban bicycle lane network will be established. In 2012, bicycle-friendly environmental improvements were made in Nangang, Xinyi, Gongguan and Wanhua living spheres, and on Section 7 of Zhongxiao East Road, Sections 1-3 of Roosevelt Road, Section 3 of Xinhai and Section 1 of Fuxing South Road pedestrian and bicycle shared lanes were added; bicycle lane guide logos have also been painted on the roadway network, including those on Zhongpo South Road, Lane 180 Dongxin Street and Lane 373 Fude Street.

##### (3) Waterfront Corridor Bicycle Lane

In coordination with the Tamsui River waterfront management policy, the Waterfront Corridor Plan was implemented and bicycle lanes were included



in the design. The Traffic Engineering Office painted bicycle guide logos on waterfront routes, including those in Nanhu, Chengmei, Nangang, Neigou River, Dalongtong, Dadaocheng, Yuquan, Yanping, Tayou, Guanshan, Guiyang, Huajiang, Xizhou, Yuying and Jingmei for 15 waterfront corridors in total.

**(4) Bicycle Guide Sign Establishment Plan**

The systematic installation of bicycle guide signs has been carried out in 2012 and 2013, connecting riverside bicycle lanes or urban roads (or bicycle lanes) riding routes. In 2012, bicycle guide sign erection was completed in the Nangang, Dazhi, Dadaocheng, Minsheng, Wanhua and Gongguan living spheres.

**(5) Bicycle-friendly Environment Accompanying Measures**

To implement the public bike rental service system and increase the interconnection of the road network and public bicycle use rate, the Department of Transportation established bicycle-friendly routes on roads near docking stations and placed bicycle guide signs docking. As of December 2012, 107 bicycle guide signs were in place at or nearby 30 bicycle rental stations.

**2. Bicycle Jiffy Stands**

In coordination with green transportation policies and the building of a bicycle-friendly environment, bicycle jiffy stands have been installed on sidewalks and off-road public car parks at bus stops and stations, urban bike lanes (including pedestrian and bicycle shared lanes),

government agencies, parks squares, schools and commercial areas and other places with high demand for public bicycle parking. As of the end of December 2012 the City Government installed 21,494 bicycle jiffy stands, including 13,455 installed and maintained by the Parking Management and Development Office, Taipei City and 8,039 installed and maintained by the Taipei Rapid Transit Corporation.

In terms of bicycle management, the random parking of bicycles obstruct pedestrians and there is a need to clear away abandoned bicycles. From 2010 to 2012, the Parking Management and Development Office, in conjunction with the Taipei City Police Department, removed 1,867 illegally parked bicycles. From January to December 2012, the Department of Environmental Protection of the Taipei City Government cleared away 5,887 abandoned bicycles in response to the reports by various units and members of the public.

**3. Taipei Bus/E-bus Route Map**

The Taipei bus/E-bus route map is being implemented on a trial basis from August 17, 2012 in the Xinyi Commercial Center and from October 31 at the MRT's Dongmen Station. The map was posted in gallery type bus shelters, on integrated bus stop signs, in ordinary bus shelters and in transfer bus stations. As well as providing bus routes for each stop and destination information, stops, schools, scenic spots and main buildings within a 300 meter radius are also marked.

The Taipei Bus route map on trial in the Xinyi Commercial Center shows the overall planning



Front-wheel bicycle stand (suited for relatively wide pavements)



Γ-shape bar bicycle stand (suited for relatively narrow pavements)



Marked-bicycle parking area (suited for places with relatively high use and roads)



Height-differentiated bicycle stand (neat and space-saving)

of the area and lists the bus routes of the area and position of all stops marked. In the Taipei City Government transfer bus station, department stores and other places in the Xinyi Commercial District, leaflets are made available to the public. The maps placed at MRT's Dongmen Station mainly feature the position of stations on bus lanes and nearby pedestrian areas and were later posted on all the gallery shelters along the bus lane on Xinyi Road.

In the future, in accordance with the outcome of the aforementioned trails, Taipei bus route maps will be placed at main transfer bus stations, scenic spots and stops with frequent bus services in the 12 districts of Taipei.



Ordinary bus shelter bus route map

#### 4. Taxi-sharing and service evaluation

To encourage taxi-sharing, the Department of Transportation of the Taipei City Government has established the Taipei City Taxi Sharing Operations Examination Team, responsible for examining taxi-sharing routes and charges. A meeting was held to review applications from operators on August 3, 2012. Initially two routes, Shilin-Tianmu and Shilin-Yangmingshan, were approved. When charges are approved, the routes will be announced and implemented.

In 2012 an evaluation of the quality of taxi service was carried out. The targets of the evaluation were taxi companies with a dispatch function (including radio and satellite); in total, one wireless taxi company and 19 satellite taxi companies were evaluated. The following six companies were listed as "Good": Taipei Star, Chihying, Da Ai, Crown, Fu Xie, and Blue Angel.

As well as awarding operators that achieved a positive outcome in the evaluation of the Golden Wheel Award, the results were also announced on the City Government Website for use as reference by the public when choosing a taxi company; operators with poor results were given strengthened guidance to increase overall taxi service quality.



Gallery shelter bus route map



The Gold Wheel Award commends taxi firms that are rated “Excellent” for the service evaluation.

## Part 2 Smart, Intelligent and High-Quality Transportation

### 1. Taipei E-Bus

To continue the establishment of the e-bus system, extending the 2011 Smart Bus Project, an e-bus Movement Back-end Auditing System was established to carry out bus back-end management and check bus operators’ punctuality rate and a number of other services. By upgrading and integrating the existing competent agency-end auditing system and across-the-board monitoring of e-bus movement and management of abnormal events, service quality has been increased, operators’ operating costs lowered and the e-supervision of public bus operations achieved. The establishment of the e-bus Movement Back-end Auditing System was completed in June 2012, allowing operators to upload schedules to the system to be audited by the competent agency.

The establishment of the e-bus Movement Information Voicemail System was completed in 2006. After feedback from the public concerning poor recognition rate, a change of voice system was completed. The system can be adjusted in coordination with bus routes; it has a prerecorded voicemail renewal function, reduces the gap between actual operations and information enquiry and provides New Taipei City bus route information.

### 5. Convenient City Minibus and Transfer Discounts

Taipei City’s promotion of the City Minibus is demand-oriented; the community takes part in the planning of routes and determining timetables. The minibuses provide a last-mile community transportation service to public transport stations (MRT and bus stations), thus improving the transport for communities that are inadequately served by public buses and making the City Minibus an important part of the public transport network. The New City Minibus No. 15 service began operating on August 4, 2012, serving the area between the MRT’s Kunyang Station and Nangang Exhibition Hall. Between 2007 and 2012 services have been established on 12 routes. The number of minibuses has increased to 30 and the number of daily services to 265 bus-times on weekdays and 188 bus-times at weekends and holidays; the service area is provided in Beitou, Shilin, Nangang, Xinyi, Daan, Wenshan and Neihu Districts.

Additionally, to advocate public transport system ridership and encourage the public to use the City Minibus, transfer discounts between the minibus system and public buses were launched on a trial basis starting on December 21, 2011; also, holders of an Easycard can enjoy a 50% discount on the price of a single section public bus ticket within one hour. Usage has increased from 20,000 person-times in November 2011 to 27,000 person-times in December 2012. City Minibus transfer volume and changes in passenger volume will now be observed.



City Minibus of Danan Bus Co.

### 雙北公車到站時間語音查詢

語音專線：(02)2728-5284 (二七二八-我愛巴士)

**數字開頭路線**

請按1 (例如：241路線)  
→按鍵輸入「公車號碼#」(例子：241#)

**捷運接駁紅、藍、棕、綠、橘線**

請按2 (例如：橘13路線)  
→紅線請按1 藍線請按2 棕線請按3  
綠線請按4 橘線請按5  
→按鍵輸入「公車號碼#」(例子：13#)

**其他路線**

請按3  
→市民小巴請按1 內科專車請按2  
小字號路線請按3 幹線及其他公車請按4  
→依語音指示操作按鍵輸入，或說出公車路線  
(例如：信義幹線、三鶯先導公車)

**簡碼快速查詢**

撥打語音專線  
(02)2728-5284  
(二七二八-我愛巴士)

直接輸入「# 簡碼」

例子：284號線往實中400站  
簡碼方向：簡碼為18764  
直接輸入#18764

站牌代碼查詢方式：  
1. 請於語音專線系統查詢後，依語音指示按下「字」  
2. 臺北9284網頁  
(網址：www.284.com.tw)  
新北公車動態資訊服務網  
(網址：bus.mtc.gov.tw)  
3. 造1999查詢

說出站牌名稱  
→系統提供預估到站時間

依語音操作指示，按下「#」字號，即可辨識「#」簡碼。



Taipei City/New Taipei City bus arrival time voice enquiry



Multi-route intelligent bus stop sign.

To provide the public with a convenient real-time bus information service the number of intelligent bus stop signs are being expanded; by the end of 2012, the number of Taipei City's intelligent bus stops reached 700.

## 2.The ATIS Web

Taipei City's ATIS Web became operational on April 4, 2006. After additions and revisions over the years, ATIS now provides the latest news from the home page of Taipei City's Department of Transportation, the e-bus system and route information, directions planning, parking space availability, road conditions, TRA and Taiwan High-speed Railway timetables and aircraft arrival time, as well as YouBike information and other information such as road speed,

changeable message signs (CMS), closed-circuit television (CCTV), National Highway travel time, intersections in Taipei City that are frequently the site of accidents, travel themes and weather information. In 2012 bus/e-bus route maps and road speed maps were added to make reading easier for the public. Since it began operating, the website has been used over 5 million person-times.

## 3.Convenient multiple-fee payment channels

### (1) Online Parking Fee Payment

In July, 2012 Taiwan's first online parking fee payment service was established. The public can instantly check the amount to be paid for roadside parking in Taipei and pay through ebill. (<https://ebill.ba.org.tw>) Payment is made by smart debit card. This method frees citizens from the trouble of having to go to a convenience store or gas station to pay fees, and now they do not have to worry about losing their receipt.

By using a smart card reader at home, the public can access the Parking Management and Development Office, Taipei City's parking inquiry system (<http://www.tcgpmo.nat.gov.tw>) or through ebill inquire about unpaid parking fees (including payment reminders and demand); then the parking ticket to be paid can be selected (single or multiple); outstanding fees can be paid by instant smart debit card online transfer.

### (2) Traffic Violation Fine Debit Card Transfer Service

Originally citizens could only pay fines for traffic violations through voice mail or online debit card transfer through Chinatrust, Taipei Fubon Bank, Bank of Taiwan, Land Bank, JihSun Bank, Mega International Commercial Bank, Cathay United Bank and the Post Office. To provide more payment channels, after coordination between Taipei City's Traffic Adjudication Office and Financial Information Service Co., Ltd, from July 12, 2012 individuals have been able to pay using debit cards of the FISC's 300 member banks (including farmers and fishing associations and credit unions.)



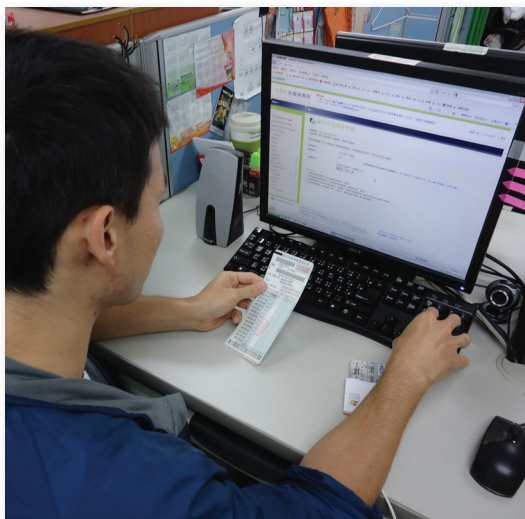
#### 4. Taipei Parking Information System

To allow existing off-road parking information to be fully used and reduce the time spent by drivers looking for parking spaces, Taipei City has established the Taipei Parking Information System; it instantly provides parking information and allows drivers to check the real-time number of free parking spaces by using a smart phone. Other information is provided as well, thus reducing the number of traffic problems caused by drivers looking for parking spaces, reducing the load on roads and improving the urban environment.

As well as expanding and upgrading the existing fee collection system's number plate recognition system in 2012, a function was added that identifies vehicles that owe parking fees or are stolen and carries out outstanding parking fee notification and stolen vehicle reporting work in real time. Also, to give drivers a full grasp of parking information, a new full parking space alternative parking information instant notification function was added in May 2012.

To meet the need of drivers to be able to enquire about parking spaces, Parking Management and Development Office, Taipei City has brought out the smart phone apps "Convenient Parking in Taipei City" and "Convenient Parking

in Taipei City QR." These apps allow drivers to enquire about parking spaces that are currently available, and their motorcycle and car parking fee payment status. They also provide a QR-Code car finding service for the City Government Plaza and Daan Forest Park underground car parks. In 2012, a current position GPS route planning function, car park entrance position marking, car park entrance height limit and cross-administrative district car park information browsing functions were added.



Ebill Parking charge payment screen

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Online payment public information poster

## Part 3 | I Love Taipei : Barrier-free Life

### 1. Low-floor Buses

Facing a society that is aging and providing transportation services for people who are mentally and physically challenged, as well as adjusting the mass transport system in a timely way, the Taipei City Government should make efforts in the direction of unification of transport facilities. In recent years the Taipei City Government has actively promoted low-floor buses and other barrier-free transport vehicles. As of the end of 2012, the city employed 1,592 low-floor buses, allowing more aging and infirm



Event to celebrate the number of low-floor buses in Taipei breaking the 1,000 barrier



Taipei City rehab mini-bus.

individuals children and mentally and physically challenged people to enjoy the convenient, humanistic, safe and comfortable barrier-free transportation environment that the low-floor buses provide, increasing the service quality of Taipei's public buses.

### 2. Rehab Mini-buses

To meet the transportation requirements of mentally and physically handicapped individuals, Taipei City is actively promoting the rehab mini-bus transportation service, allowing the physically challenged to get around conveniently and make up for the lack of barrier-free facilities on public transport vehicles; the fleet of vehicles is being continually expanded; by the end of 2012, Taipei had 228 rehab mini-buses providing over 50,000 journeys and transporting 93,000 person-times per month.

Taipei City will continue to increase the number of rehab mini-buses as well as encouraging the public make donations for rehab mini-buses to allow the quality and capability of service to be increased. By making use of a diverse and innovative service, Taipei City can create a friendly and caring barrier-free transportation environment to improve the lives of our disabled people.

### 3. Clearing Motorcycles from Covered Walkways and Sidewalks

To improve the situation in which motorcycles



East side of Jilin Road, Zhongshan District (Lane 150-132 Songjiang Road) before



East side of Jilin Road, Zhongshan District (Lane 150-132 Songjiang Road) after

occupy covered walkways and sidewalks in Taipei City, put a “humanistic traveling” concept into practice and return a comfortable and safe walking environment to pedestrians to help create a quality living environment, the “Clearing Motorcycles from Covered Walkways and Sidewalks Plan” was implemented in 1999. By 2012, the plan had been implemented on 726 roads in Taipei, the length totaling 523.9 kilometers.

In 2012, in coordination with the opening of the MRT’s Dongmen Station, “Clearing Verandas of Motorcycles and Straightening Sidewalks”, measures were implemented and, on roads on which these measures had already been implemented (around Sun Yat-sen Memorial Hall and the roads around the MRT’s Dongmen Station) signs encouraging motorcycles to keep out of covered walkways were put up on a trial basis, the aim being to remind the public

of the “Clearing Verandas of Motorcycles and Straightening Sidewalks” measures and to thank them for making a contribution to the improvement of the city’s walking space. As of the end of 2012, signs had been put up on 118 roads, for a total of 24.59 kilometers.

#### 4.Promotion of Priority Parking Spaces for Pregnant Women

In coordination with the Happy Pregnancy policy, priority parking areas for pregnant women have been established for pregnant drivers or vehicles carrying pregnant women. These areas are near emergency buttons, staircases, lifts or main entrances/exits. The adjacent walls and pillars of such parking spaces are painted pink to distinguish them; signs have also been put up in car parks to make the parking areas in which pregnant women have priority easy to find.

As of the end of December 2012, 282 priority parking spaces for pregnant women had been established in city-government-run vertical and underground car parks, the various district administrative centers, hospitals, department stores and transfer bus stations. Also, a survey indicated that 76% of those having used priority parking spaces for pregnant women were satisfied, showing a high level of affirmation. In the future, priority parking spaces for pregnant women will be established in new public car parks to expand the scope of service.

#### 5.Bus Shelters

To provide the public with a comfortable place in which to wait for buses and improve the overall appearance of the city, Taipei City has taken into account past experience of promoting bus shelters by establishing the “Taipei City Public Bus Renewal and Promotion Plan.” A review of the needs of each bus stop was carried out and appropriate shelters were erected. By the end of 2012, 706 standard bus shelters and 406 street shelters had been erected.

Also, to remedy the problem of the awnings on bus lane shelters being too short, thereby providing only limited protection from the rain and sun, five corridor-type shelters were erected



Corridor-type bus shelter on Xinyi Road's bus lane

on the bus lane platform on Xinguang Road in Wenshan District. In coordination with the MRT Xinyi Line and Songshan Line lane layout renovations, gallery shelters will be erected on all bus lane platforms. Twelve were erected in 2012 and it is projected that 35 will be erected in 2013. These improved bus shelters will allow the public to enjoy quality public bus system service from the moment they enter the shelter, extending service from inside buses to outside and making buses the preferred means of transport among citizens.

Safe Passage Environmental Improvement Plan was implemented at Xingtian Temple, Rongxing Park, Taipei Confucius Temple and Baoan Temple, places with relatively high rates of accidents involving elderly people chosen from 15 parks and 9 relatively large temples.

In the future, scheduled improvements will be carried out; enforcement will continually be strengthened, and the effectiveness of improvements assessed. Through systematic improvements a transportation environment suitable for senior citizens will be built, making the public attach more importance to the traffic safety of senior citizens, and reducing the occurrence of accidents involving senior citizens.

## Part 4 Peace of mind, protection, considerate service

### 1.Safe Passage Environmental Improvement Plan for Senior Citizens

Around 30% of people killed or injured in traffic accidents in Taipei are elderly. In 2011, with senior citizens in mind, the Taipei City Department of Transportation established the Senior Citizens' Safe Passage Demonstration Area around Taipei Youth Park; after making improvements the results were good. Then, in 2012, the Senior Citizens

### 2.Traffic Safety Public Education

#### (1) Give Pedestrians the Right-of-Way

Through continual strengthening of enforcement and diverse promotional efforts to increase public awareness, review of road safety facilities, education and public information, and engineering 3E, the concept of giving way to pedestrians is being strengthened to build a humanistic traveling transportation environment, making the concept "Give Pedestrians the Right-of-Way" part of the driving culture of Taipei City.

With respect to enforcement, the penalizing of re-regulation breaches and order preservation are being strengthened; in terms of education, traffic



Standard bus Shelter



A barrier-free ramp installed in Rongxing Park

safety education is being strengthened for every level of school; in terms of public information, a series of friendly driver activities are being held and the "Traffic Safety Protector Corps" was established to give lectures in the community; faded zebra crossings have been repainted and the green man time suitably adjusted at pedestrian crossings near schools; also, engineering methods have been used to improve the Senior Citizens' Safe Passage Demonstration Areas at Xingtian Temple, Rongxing Park, Bao-an Temple and Confucius Temple, serving to improve pedestrian safety.

## (2) Promoting Motorcycle Safety

In 2012 the Department of Transportation of the Taipei City Government introduced various innovative measures to promote motorcycle

safety. In conjunction with private driving schools, the "18 year old Coming of Age" plan was implemented on a trial basis, jointly promoting heavy motorcycle pre-driving test training; 192 people took part. Media reports led to a positive response from the MOTC and, from 2012, two hours of road safety training before taking the test have been compulsory.

Also, the Traffic Safety Protection Corps made up of retired volunteers, instructors from the Taipei City Police Department precincts and the Traffic Division of the Taipei City Police Department visited schools and enterprises to give lectures. In all, 69 lectures were held, attended by 100,236 people. The Motorcycle Safety Handbook was also compiled and printed and presented to young riders; after spending just 30 minutes readers



The Motorcycle Safety Handbook for novice Scooter riders.



A meeting for 18-year-old citizens' Coming of Age Present Trial Plan results announcement

could gain an understanding of the three main aspects: people, bike and road, and also learn about potential dangers and accident prevention. From the viewpoint of "reflection" a Motorcycle riding safety marketing plan competition was held, going into schools to tap creativity. Receiving creative ideas from those benefiting from safety promotion work enables marketing plans with youthful thinking that young riders can identify with to be formulated.

### 3. Taipei MRT Caring Service

#### (1) Taking care of groups with special needs, providing all-the-way guide service for the visually impaired

To care for the visually impaired, in January 2012 the Taipei Rapid Transit Corporation (TRTC) began providing an MRT station entry guide service that can be booked by phone; by calling 02-218-12345 10 minutes before arriving at a station entrance/exit 24 hours a day, the visually-impaired can arrange to be guided by station staff. This service was used 398 times in 2012. The TRTC is also cooperating with the Taiwan Railways Administration and Taiwan High Speed Rail in providing a seamless guide service at the three joint stations. (MRT Taipei Station, Banqiao and Nangang)

#### (2) Implementation of peace-of-mind measures for women, ensuring the personal safety of female travelers

The establishment of the Waiting Zone for Female Passengers at Night, intercoms in carriages and on platforms, and checking for pinhole cameras in toilets by the Taipei Rapid Transit Corporation allow female MRT passengers to "wait at night", "take trains" and "use the toilet" without worry. Moreover, in July 2012, the "Leave the station safely" measure was introduced; this involves handing out cards with taxi firm information outside various MRT stations. In the event of an unusual situation, station staff can be requested to accompany a female passenger to an exit to wait for a taxi and record the taxi number.



Visually-impaired passenger telephone-booked station guide service



MRT station nursing room

#### (3) Barrier-free flow line improvement, raising the level of barrier-free service efficiency and quality

The Taipei Rapid Transport Corp. and the Department of Rapid Transport Systems have jointly planned and carried out work to improve barrier-free flow lines (elevators) at the Taipei Station. Work began in July 2011. Three new lifts and the rebuilding of one lift are planned; after completion the maximum distance to be traveled by a wheelchair user will be 630 meters, making movement to and from the Taiwan High-speed Railway, Taipei Railway Station, and Taipei Bus Station more convenient.

#### (4) Establishment of friendly and complete nursing rooms: Satisfying the needs of mothers

To provide considerate service to nursing mothers, 24 nursing rooms have been established



in MRT stations, the Maokong Gondola and the Taipei Arena. The rooms are equipped with sofa chairs of a suitable height with armrests, a small table for convenient feeding, a 110V socket, a wash basin, a nappy change table, a cold and hot water dispenser, an intercom and a help button so that each mother can use the room in safety and with their mind at ease and the baby she is nursing will be happy.

#### 4. Drunk Driving Public Awareness Campaign and Substitute Drivers

Taipei City is the first to introduce a comprehensive substitute driver service. Together with taxi companies a transparent reference upper limit for the substitute driver service was formulated and this service was introduced by 10 taxi firms in 2012: Taiwan Taxi, New Capital Taxi, Chihying Taxi, Qingxi Taxi, M-Taxi, A-Taxi, Fu Xie Taxi, Daai Taxi, Xinshenghuo Taxi and Fan Ya Wireless Taxi. The service is provided mainly by phone booking, on-site waiting and booking through the 7-11 ibon system.

From September to December 2012, 638 businesses assisted with the promotion of the “designated driver” concept. Taxi companies have provided the substitute driver service on 1,428 occasions, around 12 per day, up from the six per day before the setting of the reference service fee and public awareness campaign.

#### 5. Car Park Construction Plan

The Parking Management and Development Office of Taipei City is actively turning land reserved for public facilities and land designated for use as car parks into off-road car parks; it is also using urban park use land to build new or rebuild school sports grounds, and it is building underground car parks in accordance with the public facility multiple-use method to increase parking spaces. In 2012 the building of seven car parks was completed, providing 2,039 parking spaces for cars and 927 for motorcycles, easing parking space shortages in some areas and increasing parking quality.

In addition, in coordination with the opening



Wanxing Elementary School underground car park

of public car parks, the management of off-road parking is carried out to rectify parking order on sidewalks and in lanes around car parks. By marking sidewalks, removing roadside motorcycle parking spaces, and painting lines and signs prohibiting parking, the congestion of vehicles and pedestrians caused by roadside parking in narrow lanes has been eased, the time required to find parking spaces shortened, and access for large fire engines and public safety improved.

Also, the functions of the original fee collection via number plate recognition system have been expanded, and the functions applied to instantly identify whether a vehicle owes parking fees or was stolen. If it is identified as such a vehicle, a warning will be transmitted to the car park management office and on-site personnel will then carry out outstanding fee notification or make a stolen vehicle report, respectively. By the end of 2012, the installation of the number plate recognition system had been completed in 56 public off-road car parks in Taipei City.

## Part 5 Green, Low Carbon and Sustainable City

### 1. International Car-free Day

In 2012 the Taipei International Car-Free Day reached its 11th year. A series of activities were held under the theme “It’s not my carbon,”



Taipei International Car Free Day Event-Taipei Car-free Fun press conference

including an essay competition, the Looking for low-salaried young men and women game, Taipei Car-free Fun and green transport seminars to encourage people to make public transport part of their everyday lives and make low-carbon living not just a slogan but something to which everyone makes a contribution so that the city's overall carbon emissions can be reduced.

A city carnival was held on the day on Shifu Road, the climax of which was a car-free fun assembly. A phone survey found that 82.6% of citizens support the Car-Free Day's environmental message and 83.7% said that after taking part in the event they would attach more importance to energy saving and carbon reduction and are willing to use public transport more often. The Department of Transportation also measured air quality in the event area and found that air quality was better than on ordinary days, showing that the car-free day really does improve the environment and reduce air pollution.

## 2. Blue Highway Development Plan

As of 2012 Taipei City had 10 blue highway routes. Passengers can take a boat from five piers (Dadaocheng, Dajia, Guandu, Meiti and Xikou). Over 850,000 have enjoyed a boat ride on a Blue Highway route.

To strengthen the promotion of the Blue Highway and carry out river environment education, in 2012 the Let Children Experience the Blue Highway Program was implemented. By giving

schoolchildren a chance learn by having fun by taking a boat trip on a river, they are introduced to Taipei City's river ecology and its riverside scenery. From 2008 to 2012 over 20,000 children took boat trips under this program. Also, in 2011 the first Citizens Experience Tamsui River Rectification Achievements Program was implemented, and was combined with activities in various communities. After receiving an enthusiastic public response the program was implemented again in 2012; so far over 28,000 people have taken boat trips under the program. Also, in August 2012 a Blue Highway Carnival that was promoted online was held; distinctive sailings were provided, and attention attracted to the Blue Highway, making it a talking point and attracting more people to take a Blue Highway boat trip.

## 3. Management of Roadside Parking Fees (including outsourced)

Taipei City's roadside parking charge collection policy takes into account roads over eight meters wide on which pay-to-park parking spaces have not been painted. After confirming that the compulsory purchase of road-use land had been completed and surveying the fee collection personnel situation, assessment of suitability of introducing pay-to-park parking to maintain parking order and fair use was assessed.

To realize the twin objectives of "off-road parking primary, roadside parking secondary," by the end of December 2012, 93 pay-to-use roadside car parks had been added, with 1,728 newly created pay-to-use car parking spaces and 85 pay-to-use motorcycle parking spaces. In the future, priority assessment of the suitability of charging for parking at roadside parking spaces that are currently free to use on main roads, near public car parks and on public transport routes will be carried out.

Also, to respond to changes in the Taipei City car parking management environment, such as the successive completion of off-road car parks and the increase of pay-to-park road sections, and the shortage of government manpower, private capital and manpower have been introduced to carry out the issuing of roadside



parking tickets. In 2012, 867 pay-to-park parking spaces were added in the Da-an District. Also, the open tender method was used to select a company to carry out the issuing of roadside parking tickets in the Xinyi and Nangang areas after the existing supplier's contract expired. The contract was issued on August 19, 2012. The number of car parking spaces covered by the contract is 3,960 and the number of motorcycle parking spaces in 436; suitable and quality service will continue to be provided to citizens.

#### 4. The Planning of MRT Routes

By year end 2012, 98% of the Xinzhuang MRT Line and the Luzhou MRT Line construction was completed; 95.01% of the Xinyi Line, 79.68% of the Songshan Line, 75.49% of the Taiwan Taoyuan International Airport MRT Line (Sanchong-Taipei section, the part being undertaken by DORTS); 39.58% of stage one of the Circular Line; 65.49% of the Dingpu Extension on the MRT Tucheng Line and 23.61% of the Taichung Wuri Wenxin Beitun MRT Line had also been completed.

##### (1) Summary of the MRT Construction Project

A. The Xinzhuang Line and the Luzhou Line (26.1km)

On September 30, 2012 the section of the Xinzhuang/Luzhou MRT Line thru the Zhongxiao Xinsheng Station, Dongmen Station and the Guting Station opened. The New Taipei City section on the Xinzhuang Line (Huilong to the Taipei Bridge Station) was partially opened on January 5, 2012 because the Xinzhuang Depot has not been completed. (Taipei Bridge Station, Cailiao Station, Sanchong Station, Xianse Temple Station, Touqianzhuang Station, Xinzhuang Station to Fu Jen Catholic University Station).

B. Xinyi Line (6.4km)

Civil Engineering and mechanical and electrical engineering are expected to be completed in February 2013, after which Xinyi Road environmental and road improvement work and stability testing will be carried out; after passing initial inspection the line will be opened.

C. The Songshan Line (8.5km) is expected to open in March 2014.

D. The Taiwan Taoyuan International Airport MRT Line Taipei City section (between Sanchong and Taipei City) is 4.1 kilometers long and is expected to open in December, 2014.

E. Stage-one of the Circular Line (15.4km) is expected to open in 2016.

F. The Dingpu Extension (2km) on the MRT Tucheng Line is expected to open in December, 2014.

G. The Taichung Wuri Wen Xin Beitun MRT Line (16.7 km) is expected to open in October 2016.

H. The Wanda (Zhonghe) Shulin Line is expected to open at the end of 2018.

I. The Xinyi Line Extension is expected to open at the end of 2017.

##### (2) Continued Planning of the MRT Network in Metropolitan Taipei

So far, planning includes: the Wanda-Zhonghe-shulin Line, the East Extension of the Xinyi Line, the Minsheng-Xizhi Line and peripheral land development, the northern loop on the Circular Line, and land development projects surrounding the southern loop, the north-south line, the San-Tying Line, the Ankeng Line, and the Shezi/Shilin/Beitou light railway network and the provision of assistance in the planning of an MRT network in Taoyuan and its basic design. Related feasibility plans, budgets and environmental assessments are being presented for review. The Taipei City Government is also working to win approval and funding assistance from the Central Government for these construction projects.

#### 5. Maokong Gondola Operation Management

In 2012, the Gondola transported over 2.3 million passengers, averaging 8,568 riders a day. The average system usability rate in 2012 was 99.83%, showing the high level of stability of the system's operation. On April 2, 2012 Jean Souchal, the CEO of the French manufacturer of the Gondola POMA, sent a letter to the Taipei Rapid Transit Corp., saying that the 99.90% usability rate recorded by the Gondola in 2010 and 2011 was the highest of any of its POMA gondola systems in the world.



The first Overhaul of important equipment began on May 2, 2012

On May 2, 2012 the first overhaul of Maokong Gondola's main equipment began. Due to the high level of difficulty involved, the Gondola's operation was stopped for 31 days and was restarted on June 1, 2012. During this down time the TRTC painted 147 of the gondola's cars in animal patterns to add to the Gondola's appeal. Also, to make taking the Gondola more convenient an online booking system was activated on December 28, 2011. In 2012, 66,078 people booked rides on the Gondola's Crystal Car, with a weekend booking rate of 52.1%. Also, to inject vitality into the Maokong area travel market, as well as to give free rides to tour guides or group leaders, special offers have also been provided to travel companies; in 2012, 106 travel companies took advantage of the special offers, bringing 8,651 passengers to the Maokong Gondola.

## Conclusion

"Move towards the world and build dreams in Taipei". Taipei Intelligent City will continue to grow sustainably. The key to continuing growth is people-first passion and caring, grasping the pulse of technology and smart communications and promoting green transportation in step with the world, continually improving and innovating on the basis of the core value of safety. In the future we will build a transport system centered on the MRT system, low-floor buses, City Minibuses and other forms of public transport and will complete the last mile of seamless connection by bicycle and on foot, moving towards a green-sustainable, a safe and orderly, and a comfortable living environment.