

# E-bus Monitoring System



# The introduction of e-bus

- The natural resource is very scarce, not as abundant from we used to know, especially on the oil reserve. The basic idea of the e-bus system is meant to solve the problem on this issue.
- The system is the most accurate, most advance system that can provide real time information useful in the daily life of the ever changing cities around the world.



# Current status

Main problems Taipei Transportation Department are facing using Web-GIS system

- Monitoring system can not easily track vehicles current position and current status.
- Monitoring system has executing efficiency problems.
- Owners does not have control on bus repair schedule.
- The real-time route, over speed and unusual stop of bus can not be record correctly.
- The dispatch of vehicles in the system can not be hold instantly by owner.

# Solution

GIS Database

Position enquire

Online Repair Report

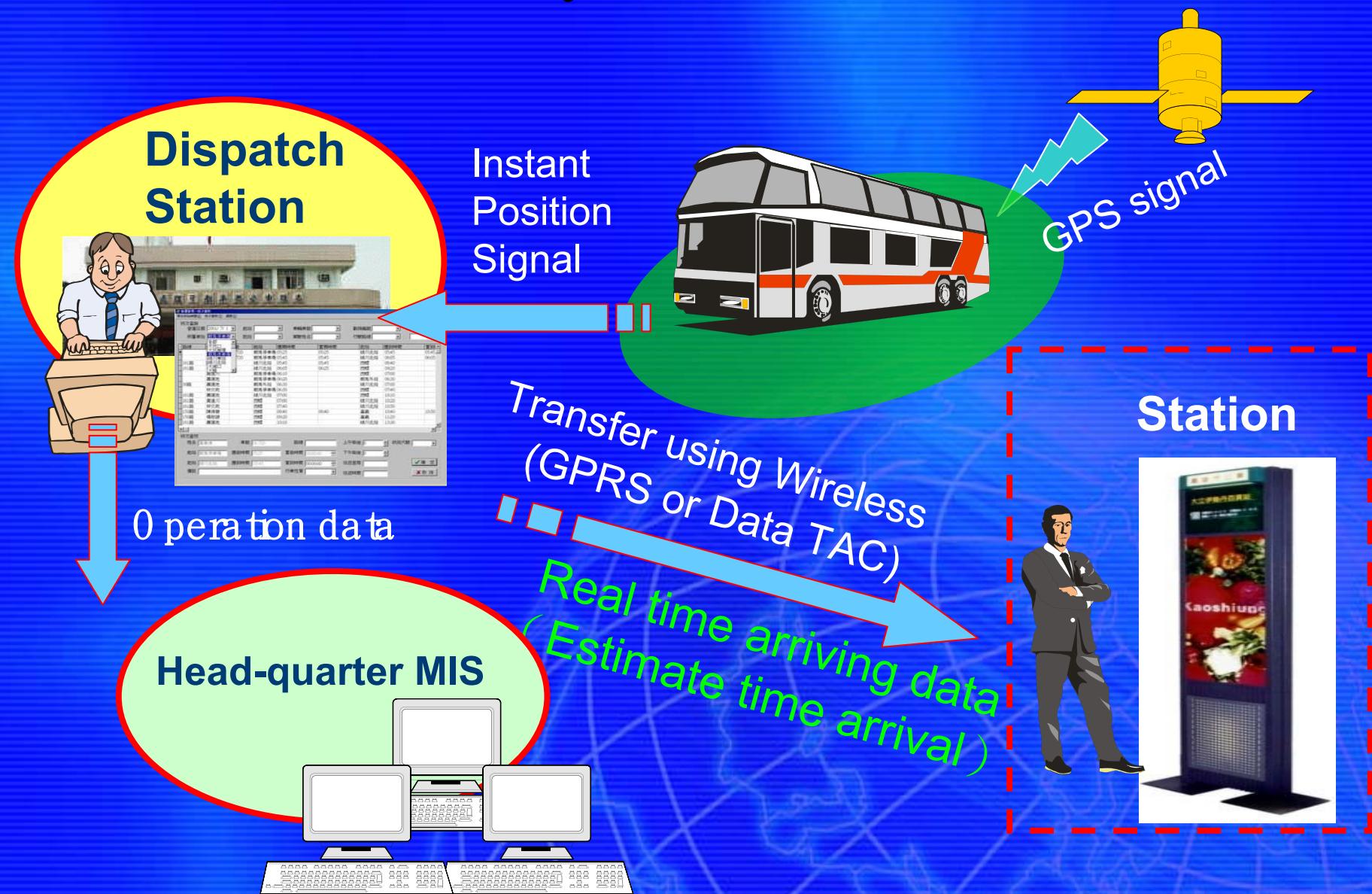
Bus monitoring system **Web** platform

Bus tracking device integrate module

GPS  
Positioning

GPRS  
Communication

# E-bus System Structure



# Dep. of Transportation's monitoring system

後端監控系統

台北市交通局

地圖標位 | 站牌編修 | 監控單位 | 歷史軌跡查詢 | GPS訊號報表

全監控 | 單車監控 | 多車監控 | 路線監控

上一頁 | 下一頁 | 測量距離 | 縮圖 | 列印

即時監控

Full monitoring mode

緯度: 25.081046° North 濰度: 121.410469° East  
比例尺: 0 ~ 2公里

# Dep. of Transportation's monitoring system

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地圖標位 | 站牌編修 | 監控單位 | 歷史軌跡查詢 | GPS訊號報表

B 歷史軌跡查詢

歷史軌跡查詢

查詢車行 首都客運

調度站查詢 汐止站

查詢車號 550-FB

時間間距查詢

開始 2007-04-22 20:55:29

結束 2007-04-23 20:55:33

確定 重設

全景 向北 平移 放大 缩小 上一頁 下一頁 測量距離 傳回 列印

Historical route tracking

緯度: 25.062528°North; 經度: 121.596248°East  
比例: 0 — 1.029公里

# Taipei E-bus system

**TAIPEI Taipei e-bus system**

臺北市公車動態資訊系統

[News](#) [Introduction](#) [Real-time Bus Information](#) [City Guide](#) [Links](#) [Guestbook](#) [Home](#)

[Red line](#) [Blue line](#) [Brown line](#) [Green line](#) [Regular line](#)

R2 R3 R5 R7 R9 R10 R12 R15 R19 R29 R30 R31 R32 R33 R34 R35

**TAIPEI Taipei e-bus system**

**R2**

Beifeng  
MRT YuanShan Station

Grand Hotel  
Yanshan  
Bihashanzhuang  
Marty's Shrine  
Beian Rd.  
Language Center  
Jiuquan St.  
Zhongshan N. Rd.  
Central Building System  
MRT YuanShan Station

Beian Apartment  
Dazhi  
Dazhi High School  
Zhijian Xincun  
Xihu Market  
Xihu Library  
Neihu Vocational High School  
Lishan St.  
Neihu Rd.  
Shude High School of Home Economics and Commerce  
TST AD

Ziqiang Tunnel  
Ziqiang Tunnel 1  
Jiantan temple  
Wenhu Elementary School  
Xikang Li  
Neihu High School  
Ziyang Li  
Huguang Public Housing  
Xihu Market  
Neihu Vocational High School  
Lishan High School  
Dahu Park (1)  
Dahu Park  
Jiuting Rd. Estate  
Huguang Market  
Chenggong Rd. Sec. 3  
Neihu High School  
Kangning Community  
Dahu  
Kangning Rd.  
Huangshigong Temple  
Kangning Memorial Hospital  
Kangning Junior College of Nursing  
Minghu Elementary School  
Kangning Rd. Sec. 3  
Wufen Community  
Beifeng Li  
Mulan Colliery  
Business Park  
Beshan Li  
Dongdu Elementary School  
Kangning St.  
Qingxiang Xincun  
T61-AD  
BeiFeng Dispatch Station

Bound for MRT YuanShan Station→Beifeng  
Bound for Beifeng→MRT YuanShan Station

Zhong Xing Bus Co. Ltd The customer service : **0800-002277**

# Kinmen County E-bus system

Chinese | Home

**Bus Management Office of Kinmen**

News | About KCBFMO | ebus | Information | Service | Online

Jincheng : 06:00 ~ 07:00 ~ 08:10 ~ 09:05S△ ~ 09:45 ~ 10:15 ~ 10:40 ~ 11:20 ~ 12:00 ~ 12:30 ~ 13:05 ~ 13:35 ~ 14:05 ~ 15:00 ~ 15:15 ~ 16:00S△ ~ 16:45 ~ 17:00 ~ 17:45 ~ 18:10 ~ 18:40 ~ 19:25  
Shanwai : 06:20 ~ 06:30 ~ 07:00 ~ 07:20 ~ 08:30S ~ 09:20 ~ 10:05S△ ~ 10:20 ~ 10:35 ~ 11:10 ~ 12:00 ~ 13:00S ~ 13:35 ~ 14:05 ~ 14:35S△ ~ 15:30 ~ 15:45 ~ 16:10S△ ~ 16:50 ~ 17:10S ~ 17:35 ~ 18:30

S : Siahou-an △ : Jincheng city centre

**① Jincheng Station ↔ Shanwai Station**

Icon :  
Shanwai → Jincheng  
Jincheng → Shanwai  
Return One Way

Two-segment Tickets : Segmentation point Jincheng→Guoxiao ● Shanwai→Shuiku ●

# Online Repair Report

 **臺北市公車線上報修平台** 

未上線車輛報修

報修申請

工單印製

報修狀況維護

查詢報修與維護狀況

報修與維護統計

基本資料維護

登出

**未上線車輛**

日期	車輛	原因	處理方式	
060114	225-AB	已報修	線上報修	原因註明
060114	FS-801	ddad	線上報修	原因註明

[回上頁](#) [關閉](#)

**報修申請**

日期	2007年3月27日
公車業者	台北客運
調度站	新店站
路線別	綠1
故障情況	無語音播報
車號	FT-909
申訴方式	線上報修

問題描述

備註

[確定](#) [取消](#)

業者：立皓科技股份有限公司  
調度站：松商站  
維護人員及聯絡方式：

工單號碼	申請日期	路線別	車號	故障情形	維護情形	備註
T0900-10930-0124-0001	2007-01-24 19:47:13Z	藍21	AH-699	衛星訊號不良		

調度站人員簽名：

**台北市公車動態資訊系統車機維護單**

業者：立皓科技股份有限公司  
調度站：南港站  
維護人員及聯絡方式：

工單號碼	申請日期	路線別	車號	故障情形	維護情形	備註
T0200-10230-0327-0001	2007-03-27 21:46:14Z	紅32	989-FE	無顯示螢幕		

調度站人員簽名：

**台北市公車動態資訊系統車機維護單**

業者：大有客運  
調度站：民生站  
維護人員及聯絡方式：

工單號碼	申請日期	路線別	車號	故障情形	維護情形	備註
T0900-10910-0124-0001	2007-01-24 21:33:00Z	藍10	AF-837	無語音播報		

調度站人員簽名：

[回上頁](#) [關閉](#) [列印](#)

# System Benefit Result

- Monitor bus real-time location and status.
- Provide cross intersections and stations instant finding.
- Estimate bus arrival time.
- Instant monitoring system precisely handle single or multi-bus's tracking.
- Bus historical route dynamic enquiry and display. Finding bus instant GPS signal and check unusual reports.
- Provide PDA / Cellular functions – estimate bus arrival time.
- Online platform provide repair report enquiry and relate tables.