Development of Tainan City Intermodal Stations and Optimization of Transfer in TRA Stations

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Intermodal Stations Transfer in TRA Stations

Core mission of **Rapid Transit Systematization** in Tainan City

- The key point of evolution from Bus Transit System to Advanced Transportation System

- Enhancing feeder systems between Railway and Buses, connecting Xinying, Nanke and CBD, and balancing development between towns and cities.
DEVELOPMENT OF TAINAN CITY INTERMODAL STATIONS
The **Vision:**

Public transport evolves **from single service to a comprehensive network.**

Construct a **30-min** public transport **social circle** in Tainan.
The **Mode**:

- Baonan
- Shanhua
- Madou
- Guanmiao
- Xinying
- Intermodal Transfer Station
- Xinying Bus Station
- Xinhua
- Yujing
- Jiali
- Baihe
- Rende, Kaiyuan, Heshun
- Pingshih, Tainan, Mingshen, Anyi

**Subsidize operators to refurbish**

**Tainan City Intermodal Stations**

**Built by Government**

**BOT**

**Intermodal Stations**

- Baonan
- Shanhua
- Madou
- Guanmiao
- Xinying
- Intermodal Transfer Station
The Progress:

2013-2015
Subsidize operators to refurbish

- 2013: Xinying Bus Station, Xinhua, Yujing transfer station constructed.
- 2014: Jiali transfer station constructed.
- 2015: Baihe transfer station constructed.

2014-2016
Built by Government

- 2013: Baoan transfer station constructed.
- 2014: Shanhua transfer station constructed.
- 2015: Madou transfer station constructed.
- 2016: Guanmiao transfer station constructed; Design and planning for Xinying Intermodal Transfer Station.

105-107年
BOT

- 2016: Initiating Bot of Rende, Kaiyuan, and Heshun Intermodal Transfer Station.
- 2017: Launch the feasibility evaluation project of Pingshih, Tainan, Mingshen, Anyi Intermodal Transfer Station.
The Achievements:

**Xinying Bus Station**
- Inaugurated on Aug. 29, 2013
- Total budget: NT$ 3.6 mil.
  (with 1.5 million subsidized by TNCG)
- Capacity: Buses 305 runs; TRA 136 runs per day

**Yujing Transfer Station**
- Inaugurated on Mar. 22, 2014
- Total budget: NT$ 3.86 mil.
  (with 1.5 million subsidized by TNCG)
- Capacity: Buses 272 runs per day
The Achievements:

Xinhua Transfer Station
- Inaugurated on Mar. 22, 2014
- Total budget: NT$ 5.05 mil. (with 1 million subsidized by TNCG)
- Capacity: Buses 316 runs per day

Jiali Transfer Station
- Inaugurated on Nov. 13, 2014
- Total budget: NT$ 3.36 mil. (with 1 million subsidized by TNCG)
- Capacity: Buses 350 runs per day

Baihe Transfer Station
- Inaugurated on May 22, 2015
- Total budget: NT$ 5.06 mil. (with 2.48 million subsidized by TNCG)
- Capacity: Buses 162 runs per day
The Achievements:

Baoan Transfer Station
- Inaugurated on Dec. 20, 2013
- Total budget: NT$ 12.09 mil.
- Capacity: Buses 59 runs; TRA 146 runs per day
- Merge the impression of police station during the Japanese-occupied period

Shanhua Transfer Station
- Inaugurated on Nov. 13, 2014
- Total budget: NT$ 16 mil.
- Capacity: Buses 154 runs; TRA 109 runs per day
- Rebuilt the station front for seamless transfer between TRA and buses.
- Book-shaped.
The Achievements:

Madou transfer station
- Inaugurated on Sep. 14, 2015
- Total budget: NT$ 32.71 mil. (with 1.5 million subsidized by MOTC)
- Capacity: Buses 169 runs; Inter-city Buses 277 runs per day
- First transfer station operated by private.
- Multi-purpose development.

Guanmiao transfer station
- Inaugurated on May. 24, 2016
- Total budget: NT$ 35.07 mil. (with 5.07 million subsidized by MOTC)
- Capacity: Buses 250 runs
- Activate the idle facilities and benefit.
- Pineapple and bamboo shoots characteristic.
Executing projects: Xinying Intermodal Transfer Station

- **Scale:** 1.02 ha.
- **Allocation of landownership:** Specific sold after urban land consolidation.
- **Total budget:**
  - NT$ 137 mil. (95.4 mil. strive for subsidies from MOTC)
- **Capacity:**
  - Buses 169 runs ;
  - Inter-city Buses 277 runs ;
  - Freeway Buses 48 runs per day.
- **Facilities:**
  - Seats : Inter-city Bus 13; Buses 4; Taxis 8
  - Parking lots: Car 68; Scooter 93.
- **Design and contract out in 2017; Inaugurated in 2018.**
**Executing projects:** BOT

**Rende Intermodal Transfer Station**

- **Scale:** 2.74 ha.
- **Allocation of landownership:** TNCG
- **Investment promotion date:** Oct. 12, 2016
- **Investment amount:** NT$ 3 billions.
- **Transfer facilities:**
  - Passenger service space: 2,000 m²
  - Capacity: Buses 180 runs;
    - Inter-city Buses 764 runs per day.
    - Advanced Transportation System-route blue.
  - Seats: Inter-city Buses 15; Buses 3.
  - Parking lots: Car 2,700; Scooter 2,500.
- **Commercial development:**
  - Wholesale store, department store, hotel.
  - Maximum floor area: 133,812 m²
Executing projects: BOT

Kaiyuan Intermodal Transfer Station

- **Scale:** 1.06 ha.
- **Allocation of landownership:** ROC, cooperate with National Property Administration
- **Investment promotion date:** Oct. 31, 2016
- **Investment amount:** NT$ 2 billions.
- **Transfer facilities:**
  - Capacity: Buses 264 runs per day.
  - Seats: Buses 3.
  - Parking lots: Car 600; Scooter 400.
- **Commercial development:**
  - Wholesale store, department store, hotel, restaurant.
  - Maximum floor area: 41,520 m²
  - Adopting Jheng-sin Park and set up urban oasis
Executing projects: BOT

Kaiyuan Intermodal Transfer Station

- **Scale:** 1.98 ha.
- **Allocation of landownership:** Specific sold from MOI.
- **Investment promotion date:** Oct. 31, 2016
- **Investment amount:** NT$ 2 billions.
- **Transfer facilities:**
  - Passenger service space: 1,500 m²
  - Capacity: Buses 107 runs per day; Advanced Transportation System-route red.
  - Seats: Buses 3; Temporary parking for tourist coach 2 seats.
  - Parking lots: Car 1,000; Scooter 650.
- **Commercial development:**
  - Wholesale store, hotel, baseball museum.
  - Maximum floor area: 81,442 m²
Future Prospects

Pingshih、Mingshen、Anyi Intermodal Transfer Station.
Coordinate with the Advanced Transportation System priority network.

Tainan Intermodal Transfer Station
Coordinate with Tainan Railway Underground Project.

Anyi Intermodal Transfer Station
Mingshen Intermodal Transfer Station
Tainan Intermodal Transfer Station
Pingshih Intermodal Transfer Station
OPTIMIZATION OF TRANSFER IN TRA STATIONS
The Vision:

- TRA, regarded as the trunk through Tainan city, will be the foundation to develop Advanced Transportation System.

- Achieving 1 trunk, 3cores, and ubiquitous spokes.

- Reach seamless transfer by integrating railway and buses.
The Mode:

Directorate General of Highway, MOTC

Tainan City Government

Taiwan Railway Administration

Financial aid.

Designing, constructing and financial aid.

Free land
The **Progress:**

- **2015:** Xinying Train station.
- **2016:** Linfengyin Train station, Sinshih Train station.
- **2017:** Houbi Train station.
- **2018:** Yongkang Train station, Longtain Train station.
The Achievements:

Xinying Train station.

- Inaugurated on Oct. 02, 2015.
- Total budget: NT$ 6.11 mil.
  (with 1.83 mil. subsidized by TNCG, 4.28 mil. By MOTC)
- Capacity: Buses 316 runs; TRA 136 runs per day.
- Benefits:
  - Maintain order of traffic.
  - Activation station plaza.

Linfengyin Train station

- Inaugurated on May. 05, 2016.
- Total budget: NT$ 2.26 mil.
  (with 0.67 mil. subsidized by TNCG, 1.58 mil. By MOTC)
- Capacity: Buses 40 runs; TRA 76 runs per day.
- Benefits:
  - Newly-built bus booth.
  - Elevate the service of buses.
  - Create new local image
The Achievements:

**Sinshih Train station**
- Inaugurated on Dec. 06, 2016.
- Total budget: NT$ 14.01 mil.
  (with 4.2 mil. subsidized by TNCG ,9.81 mil. By MOTC)
- Capacity: Buses 78 runs; TRA 103 runs per day.
- Benefits:
  - Newly-built bus booth and shelter.
  - Strengthen links between TRA and Buses.
  - Create new local image

**Houbi Train station.**
- Total budget: NT$ 26.69 mil.
  (with 3.8 mil. subsidized by TNCG ,8.88 mil. By MOTC)
- Capacity: Buses 72 runs; TRA 81 runs per day.
- Benefits:
  - Newly-built bus booth and taxis seats.
  - Elevate the service of buses.
  - Renew the station facilities.
Future Prospects

**Longtain Train station**
- Total budget: NT$ 15.14 mil.
  (with 4.54 mil. subsidized by TNCG, 10.6 mil. By MOTC)
- Capacity: Buses 12 runs; TRA 87 runs per day.

**Yongkang Train station**
- Total budget: NT$ 25 mil.
  (with 7.5 mil. subsidized by TNCG, 17.5 mil. By MOTC)
- Capacity: Buses 102 runs; TRA 130 runs per day.
Innovative marketing:

Experiment marketing and Public participation

**2014-Discovering Transfer Station**

- Check in and photograph with Xinying Bus Station, Xinhua, Yujing, and Baoan transfer stations and get gifts.

**2015-Makin Wish in Transfer Station**

- Delivery wishing cards in Xinying Bus Station, Yujing, Jialim, Xinhua, and Baihe transfer station.

**2016-Taking Photo in Transfer Station**

- Shoot a picture for Baoan, Guanmiao, Baihe, Linfengin, and Madou transfer stations.
Accomplishment:

Awards Record

• Madou transfer station
  • Yuan-Yie Awarding Public Buildings (Landscape Award)
  • Fiabci-Taiwan real estate excellence award (Planning and Designing Category)

Citizen identification

• Satisfaction Survey of Tainan City Buses – Hardware Category
  • Public satisfaction in the effect of service quality is 91.3%

• 2015 Satisfaction Survey of Tainan City Buses – Hardware

- 7% Satisfied
- 2% Dissatisfied
- 91% Very Satisfied
Conclusion:

- Subsidizing operators to refurbish, developing public private partnership and creating advantages.
- Activating idle spaces, Retrenching government expenses and blooming benefits.
- Merging local element, shaping aesthetic concept and opening regional portal.
- Introducing multi-purpose use, initiating commercial business opportunities, and prospering local economy.
- Integrating central and local government, and strengthening links between TRA and Buses.
Thanks for Your Participation.