MR.B&B in Taichung

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Welcome to Taichung
The Most Livable City in Taiwan
– Apr. 13th 2016 by CNN
**Taichung City Profile**

**Geography**
- The Second Largest Municipality in Taiwan
- Taiwan’s Central Core
- 2,215 km²

**Population**
- The Second Largest Population in Taiwan
- No.2
- 2,778,182 people

**Industry**
- Six Industry
- Machinery
- Precision machinery
- Optoelectronics
- Machine tool
- Bike
- Aerospace

**Traffic**
- HSR + Intl. Airport & Harbor
- 1,060,518
- 1.12 per household
- 1,665,116
- 1.76 per household
4-hours voyage from Taichung Intl. Airport covers 90% main cities of East-Asia

- Cross-strait Airlines
  26 waypoints; 44 flights/per week
- International Airlines
  10 waypoints; 88 flights/per week
Great Taichung

Before

After 2010

Now we have 29 districts

Degree of Urbanization

Small Taichung

Density
- more than 10,000/km²
- 4000~8000/km²
- 1000~4000/km²
- less than 1000/km²

Variant Development

Large Area

Balanced Development
Urban Structure Reinforcement by Connecting CBDs through **Green Line** and **Railway**

**ONE**
**TAICHUNG Circle Railway**
- Upper Taichung Yamamote Line
- Lower Taichung Yamanote Line

**TWO**
**INTERNATIONAL PORTS**
- Port of Taichung
- Taichung Airport

**THREE**
**SUB-CBDs**
- Wuri
- Fengyuan
- The Two Ports

**MRT and Railway**
- Green Line
- Elevated Railway
- Taichung City Hall
- New Taichung Station
Our Challenges

- Traffic Congestion
- Road /Parking Space
- Cars & Motorcycles
- Air Pollution

Down into the Negative Cycle!!

80% high Utilization
WE FIND THE SAVIOR

Integration & Share

• Intermodal Transportation
• Combined with T.O.D.
• Green and Smart Transport
WHO is MR. B&B?
Green Alliance

VS

The Axis of Evil

Bike、Walk、Taxi、…
Intermodal System

Smart Traffic Cloud Platform

8 Transfer Stations

Bus

MR.

B&B

Bike
Target of Public Transport Utilization

2020
• Metro Green Line open to operate
• Zhuifen-to-Chenggong double-track complete
• Shuinan, Fengyuan Transit-Center operate

Now, 2017

2025
• The Dual Ports Line operate
• Daqing-to-Wuri Elevated Railway complete
• 8 Transit-Center complete

2030
Initial Rail Network complete
Metro & Rail Network

Under Construction
- **MRT GREEN**

Planning
- **Loop-line Rail**
- **MRT BLUE**
- **MRT GREEN EXT.**

In the Future
- **Dual Port Line**
- **LRRT EXT.**
- **MRT BLUE EXT.**
Railway Stations integrated with Bus Lines

Bus Line  23/30(Travel Time/Peak-Hour headway)
579 Commuting Bus Lines

- Operation during the peak hour
- Passengers increased by 10%
- Time savings of 10-15 min
DRTS: Taxi-Bus for Rural areas

- The operating loss subsidy is reduced
- The average number of passengers is increased

Before  Bus 222  Now  DRTS Taxi-Bus Yellow 1

- Low occupancy rate
- High transportation cost
- Routes: 2 (more routes continuous)
- Dial: reservation line to book
- Vehicle: vehicle identification of car side
- APP: reservation by smart phone in the future
Bike is the public bike

ANYWHERE YOU WANT TO GO

School
Market
Work
Sport
Relax
Travel
...

Elders  Adults  Children
iBike 369

300 Stations • 600 km lane • 9000 bikes

Riderships

1-100 stations

101-200 stations

201-300 stations

Stations
Schools
Parks
Official Places
Sightseeing spots


0 1M 5M 10M 12.3M
Architecture of Smart Traffic

- Analysis and Prediction Management System
- Information Service System
- Network Management System
- Smart Bus System
- Even Response Management System
- Smart Bike System
- Smart Parking Management System
- Smart Scooter System
- Cross-regional Traffic System
- Activities Traffic Management System
- Specific vehicle Management System
- Parking Violation Towing System
MaaS in Taichung

- Real-time Traffic Conditions
- Bus / iBike
- Parking Area / Taxi
- Time Table of HSR / Railway
- Red-Light Violation Speed-Measuring Apparatus / High Risk Intersections
- Latest News
Civil Participation & Cooperation

✓ Build the Eco System of Smart Traffic
Closing Remarks

Cross-Systems and Departments integration to offer door to door Public Transportation Services

- The most advantage of private transport is **door to door** seamless services. With convenient and seamless services, users will have the will to transfer to public transport.

- On the basis of railway backbones and TOD, we could achieve **MR. B&B** through well integrated among network, timetable, electronic ticketing and information.
Thanks for listening.