

EcoMobility World Festival and Congress 2017



Smart Mobility & Smart Transportation in Tainan

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Outline

I. Introduction

II. Smart Transportation in Tainan

III. Smart MaaS in Tainan

IV. Conclusion





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About Tainan





Area	2,191 km ²
Population	1.88 m
Density	859 /km ²
Num. of cars	630 K
Num. of motorbikes	1.29 m
Vehicle / person	1.02/person
Travel by foot	4.8%
By bicycle	4.7%
By car	24.8%
By motorbike	57.4%
By public transportation	6.7%



Capital of Delicacies

Capital of High Technology



生態文化園區

Challenges & Opportunities



IBM Smart City Challenges

4G Smart City Projects 2014 : In the "smarter cities challenge" launched by IBM, the experts recommended: "Define software architecture for smart traffic management center".

2015 : Tainan city government in partnership with FarEasTone telecommunication company to practice "4G Broadband Smart City Project".





ICF Smart 21

2017 : The "Smart 21" award from ICF contest.





The Smartest Ancient Capital





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1. Anping Easy Go





2. Integrated Regional Traffic Control System



3. 4G Smart Bus Service





4. Virtual Smart Bus Stop





13

smart phones

G17

25 mins

5. Smart Beacon Information System



- Provide in-App bus information automatically, instead of querying by users.
 - 400 Beacons onboard.
 - 3,600 Beacons at almost all bus stops.
 - "Push" information to Tainan City Bus App automatically.

Profit

Practice

- Provide real-time bus operation information such as detours or service changes.
- Service extension to tourism information, coupons, vouchers and further applications.



Beacons onboard and at bus stops



Information pushed by beacons

6. Bus Priority System for Non-exclusive Bus Lane



7. Smart Roadside Parking Management



 Reduce human resource 	s in charging.	
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- Increase turnover rate of parking spaces.
- Provide real-time parking space information.

Purpose

Practice

Profit

- A smart parking meter in each parking space.
- Each parking meter equipped with license plate recognition and telecommunication devices which will upload data to management center.
- Locate the parking spaces and APP payment.
- 120% turnover rate increasing.
- 220% parking revenue growth.

Concept of Parking Detection



8. Smart Off-Road Parking Management



- Non-token accessing service.
- Parking guidance and intelligent car locating.
- Purpose Real-time parking lots information.
 - Multiple payment solutions.



- License Plate

 Recognition
- License plate recognition and e-Tag reading system.
- Parking space detection and intelligent car locating
 - Parking lots searching, available parking space and multiple payment services through APP.
 - 8mins saving in average from parking space.
 - 160% turnover rate increasing.

Profit

• 120% parking revenue growth.

9. Smart Bike Sharing





10. Smart Integrated Cloud Information Platform





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Framework of Smart MaaS







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大道之行也,天下為公

Integrating all public transport modes as a whole for public using and personal sharing

選賢與能, 講信修睦

Choosing the best efficient tour for the harmony of transportation system

故人不獨親其親,不獨子其子,使老有 所終,壯有所用,幼有所長,鰥寡孤獨 廢疾者皆有所養;男有分,女有歸

Providing customized travel packages to meet personal travel demand

貨惡其棄於地也不必藏於己,力惡其不 出於身也不必為己

謀閉而不興,盜竊亂賊而不作,故外戶 而不閉 Lessing personal vehicle utilization and creating transportation resources sharing

proving seamless transportation services through the coordination between different modes in the transportation system



Culture in the Heart, Smart for the Future







Tainan is a good place for having dreams,working ,falling in love, getting married and enjoying a leisurely life. - Mr. Ye Shitao, eminent Taiwanese writer

Thank you for listening감사합니다Gracias.감사합니다Gracias.SalamatBedanktTerima kasih외국지대로謝謝DankeありがとうございますCảm ơn bạn



