

# Ecomobility, lever of Urban Innovation

Presenter : Former the Vice Mayor of Suwon Jae Joon Lee



# Hwaseong Fortress

UNESCO World Heritage



# Suwon's Urban Innovation by promoting the Ecomobility

Population and cars increase

Old downtown slum

Deterioration of transportation environment

Worsening of ecological system



## Urban innovation Method

- Reorganization of public transportation
- Car free Road
- Tram introduction
- Dissemination of Low carbon cars



Reinforcement of transportation equity



Promoting the urban restoration



Experiment of future transportation



Climate change Response

# New challenge : Experiment of future urban life in the rundown historical town



- 매표소(8개소)
- 주차장(4개소)
- 관광안내소(8개소)
- 화장실(13개소)
- 매점(6개소)
- 화성열차 승차장(2곳)
- 화성열차 중간하차장(2곳)
- 숙박시설(1개소)



호원의종 타종

화성열차승차장

화성열차승차장

국궁 활쏘기 체험

# No car-free road! Suwon mayor must go!



 Protest of opponents!

# Launch of citizen support group for ecomobility festival

(Feb. 2013)



**98% of Citizens participated through participatory governance**

# Urban change by promoting the Ecomobility-1

After



# Urban change by promoting the Ecomobility-1





# Urban change by promoting the Ecomobility-2

After



# Urban change by promoting the Ecomobility-2



# Urban change by promoting the Ecomobility-3

**After**



# Urban change by promoting the Ecomobility-3



# Urban change by promoting the Ecomobility-4

After



# Urban change by promoting the Ecomobility-4



Before



After

# Urban change by promoting the Ecomobility-5

After



# Urban change by promoting the Ecomobility-5





# Urban change by promoting the Ecomobility-6

After



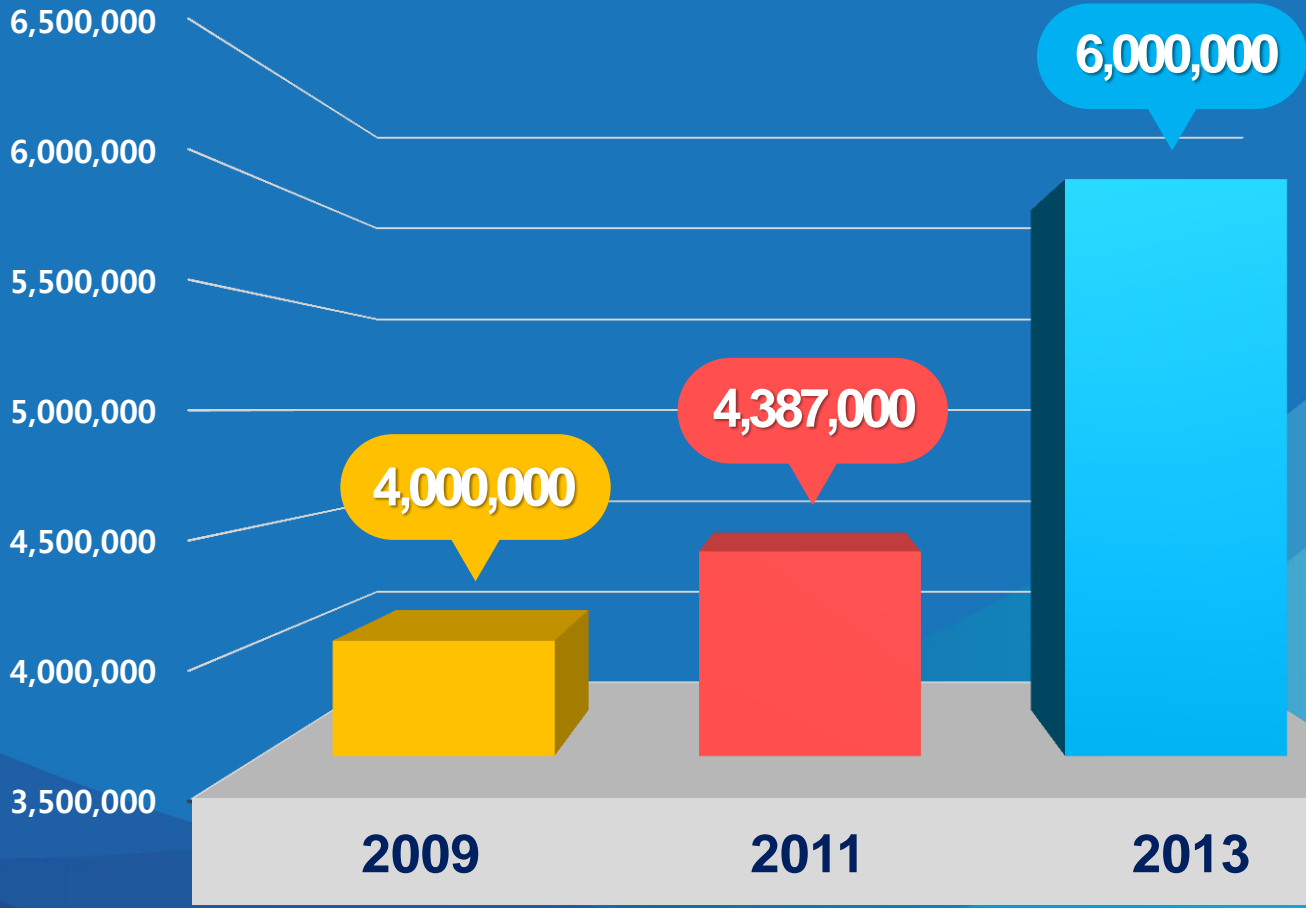
# Urban change by promoting the Ecomobility-6



# Growth of tourist arrivals



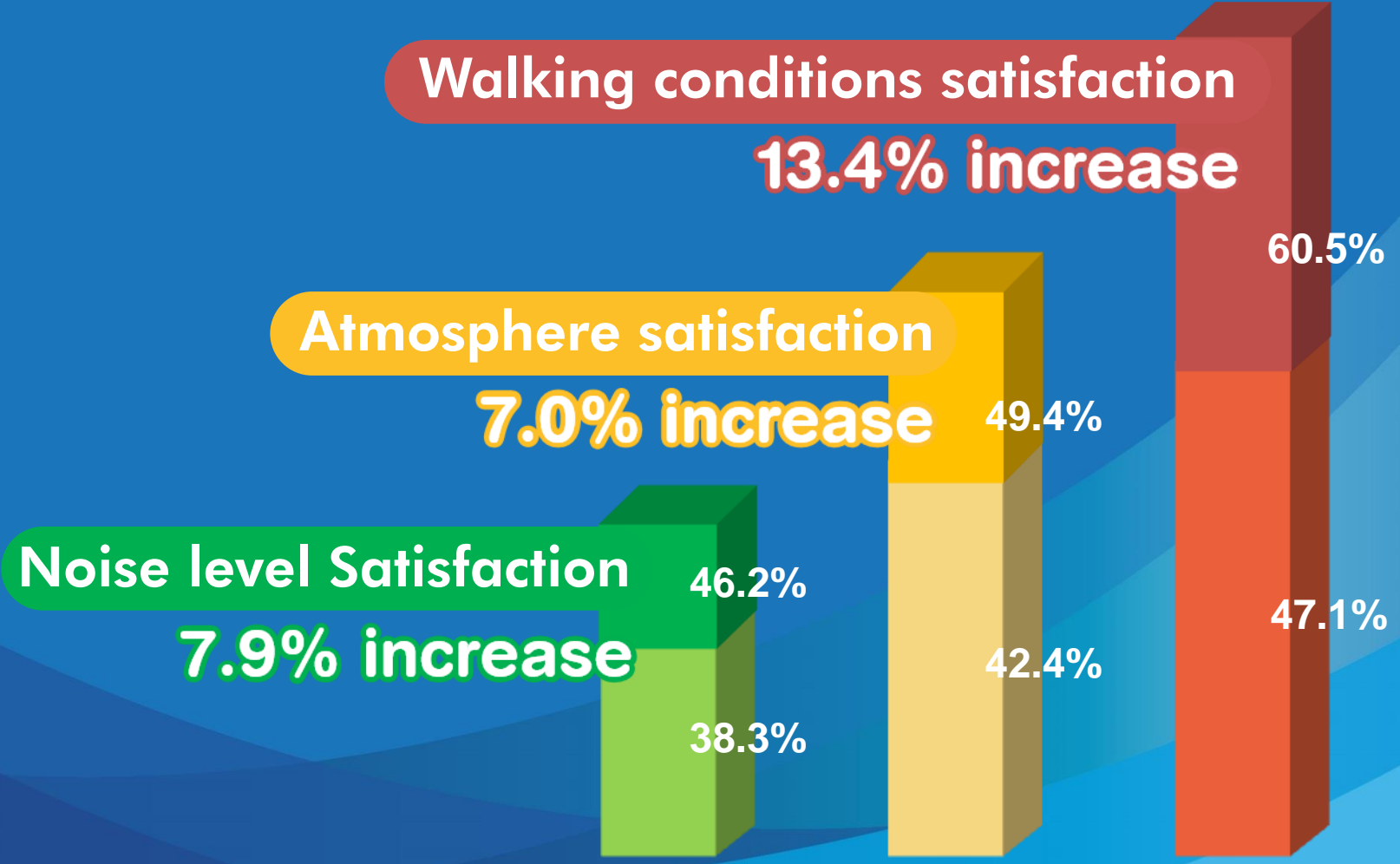
## Growth of tourist arrivals



# Improvement in resident's satisfaction



## Resident's satisfaction



# Environmental, economic benefits

## Reduction of CO<sub>2</sub> emissions



**190 tons of co<sub>2</sub> emissions per month by 2200 households** (equivalent to planting 470,000 pine trees)

## Economic benefit



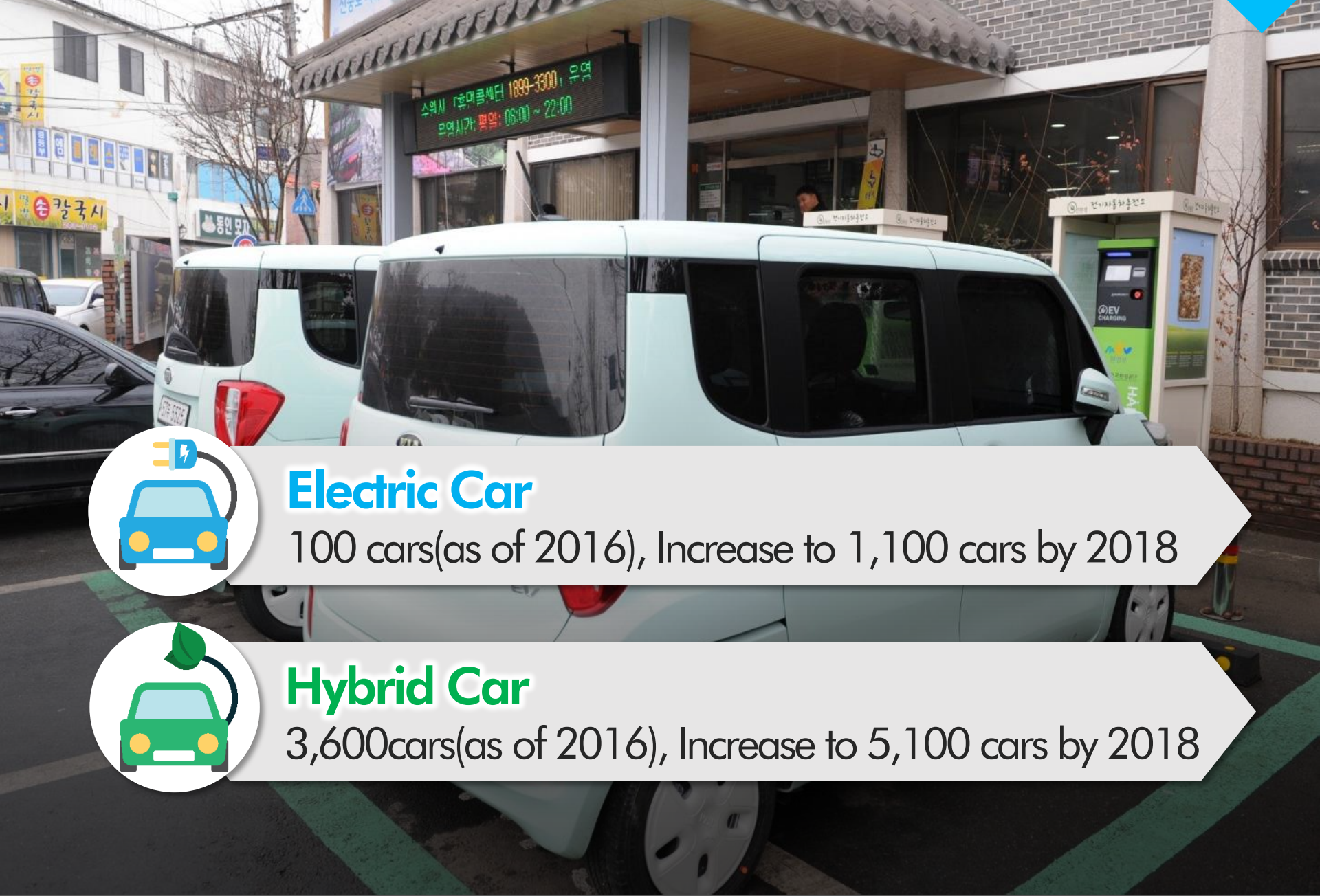
**Approx. 90million dollars of economic benefit** (equivalent to creating 1,500 jobs)

# Increase of Car-free area



**12 Districts, 70 thousands citizens Participation  
20 Districts Expansion Plan by 2018**

# Low-Carbon cars



## Electric Car

100 cars(as of 2016), Increase to 1,100 cars by 2018



## Hybrid Car

3,600cars(as of 2016), Increase to 5,100 cars by 2018

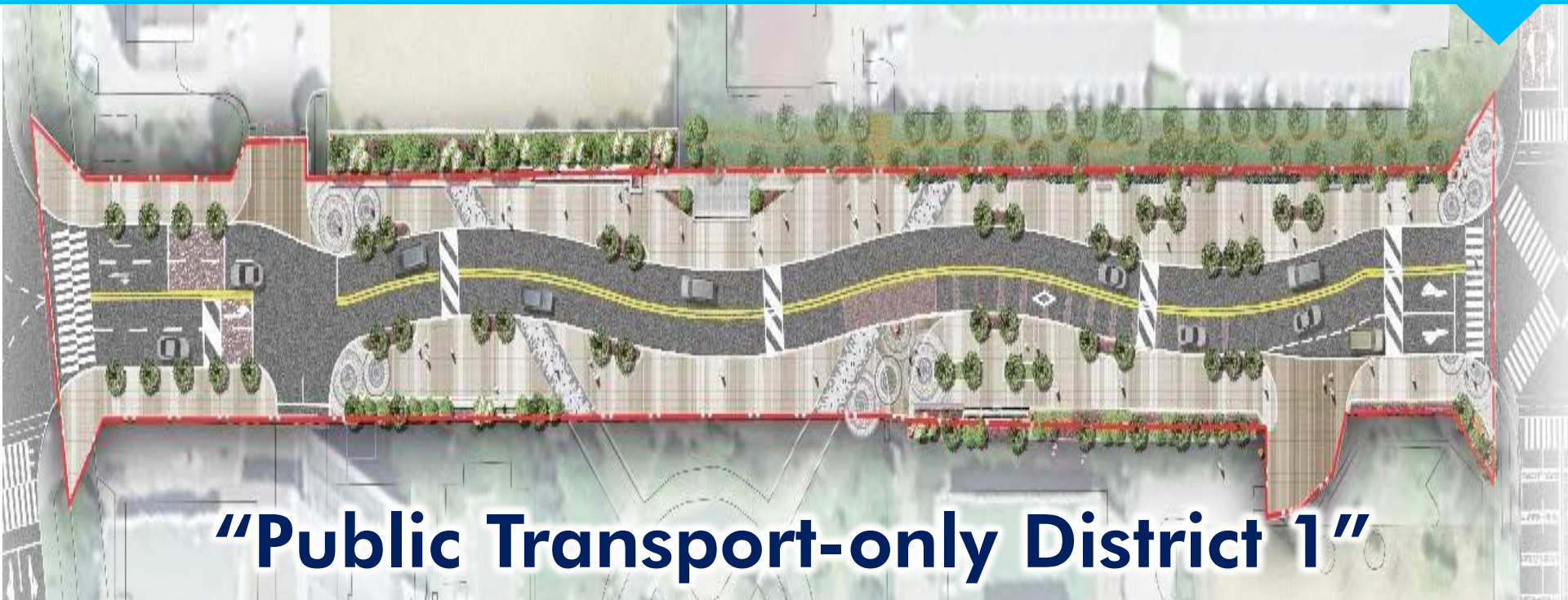
# Introduce city bikes system

**Supply 3,700 city bikes / 290 bike stations by 2019**



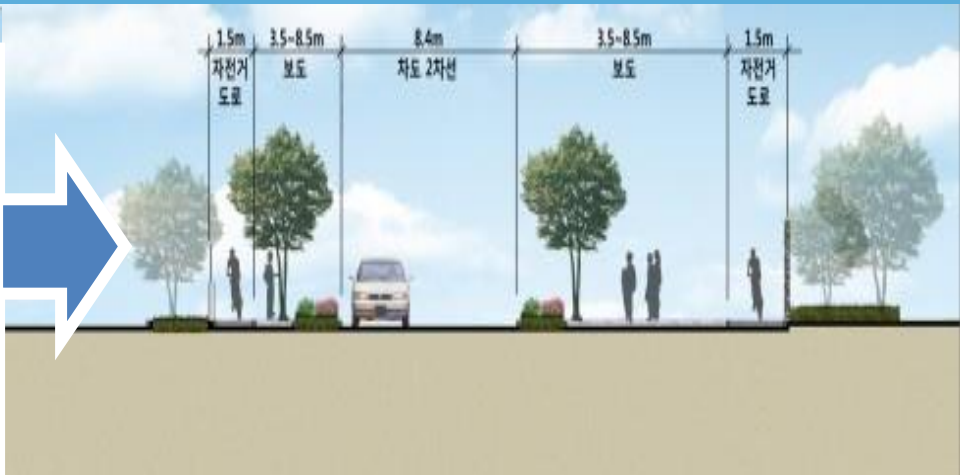
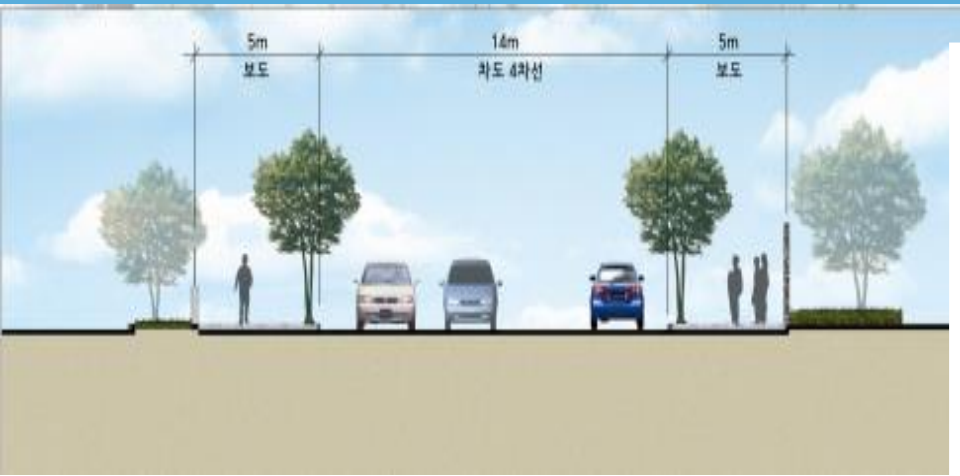


# Districts dedicated to public transport

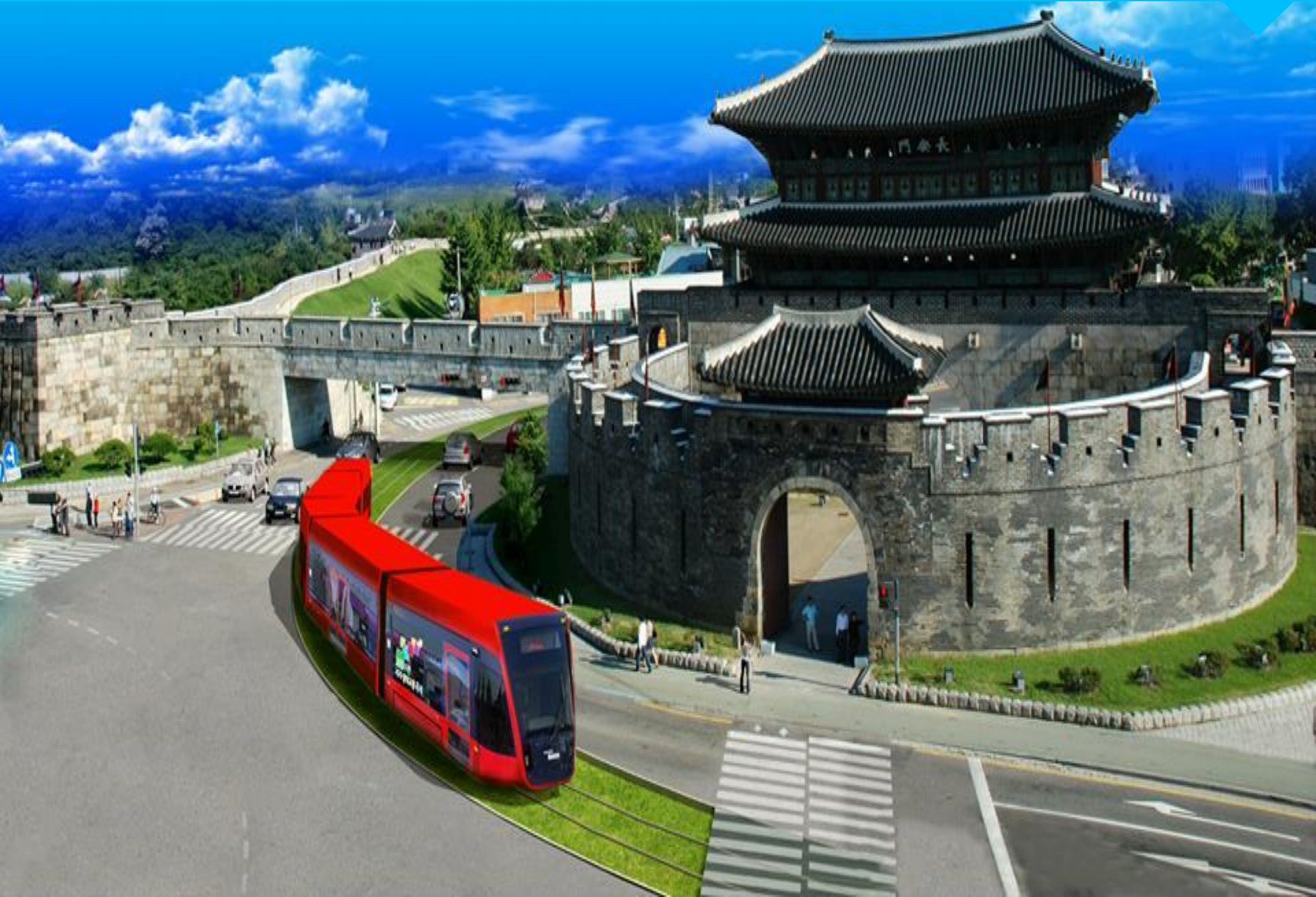


## “Public Transport-only District 1”

### Before and After Road Section drawing



# Introduce Urban rail transit , Tram



# City Solution-1

## Suwon(2013)

: Ecomobility + Urban regeneration (Contribution in the Compact City)



## Johannesburg(2015)

: Ecomobility + Social intergration

(Racial Discrimination, the conflict of the rich and the poor)



## Kaohsiung(2017)

: Ecomobility + Urban regeneration (Cognition change of the Road environment, Pedestrian Bicycle centered Road improvement)



# Suwon's Ecomobility model

## a New Paradigm for Urban Transport

