

**The 62nd JSCE Annual Meeting, September 12, 2007**  
**Theme of Roundtable Meeting:**  
**Sustainable Development**

**Policies for Sustainable Development**  
**Now and for the Future in**  
**Taiwan**



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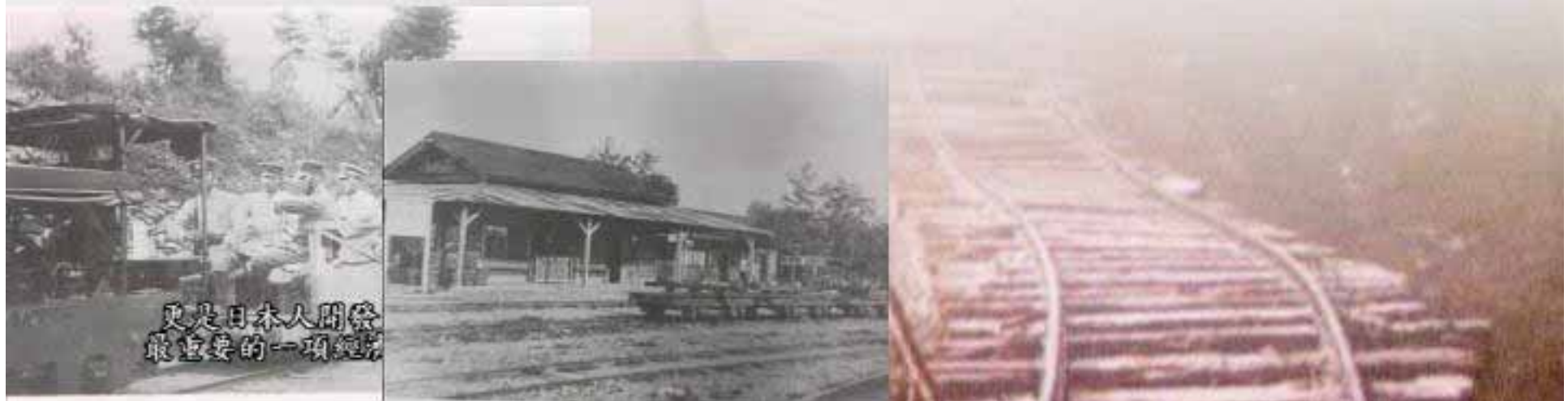
# Education and Culture (1)

- To collect data, edit and publish for “The History of Civil Engineering in Taiwan”.
- To educate, explore and extend the dignity of Civil Engineers in their honorable contributions and activities for improving the human civilization.

## Prospective goal of editing

### The History of Civil Engineering in Taiwan

1. To research and look into **the truth of historical engineering activities.**
2. To record the **honorable contributions** of civil engineers.
3. To record the **historical constructions and activities** of Civil engineering
4. To explore and summery the **valuable contributions** to civilization.





## **Education and Culture (2)**

- **To investigate and inventory Civil Engineering heritages and valuable historical constructions.**
- **The maintenance and renovation for the Civil Engineering heritages and valuable historic buildings and constructions..**

# Tunnels

- TonLoh Old tunnel(銅鑼舊隧道)





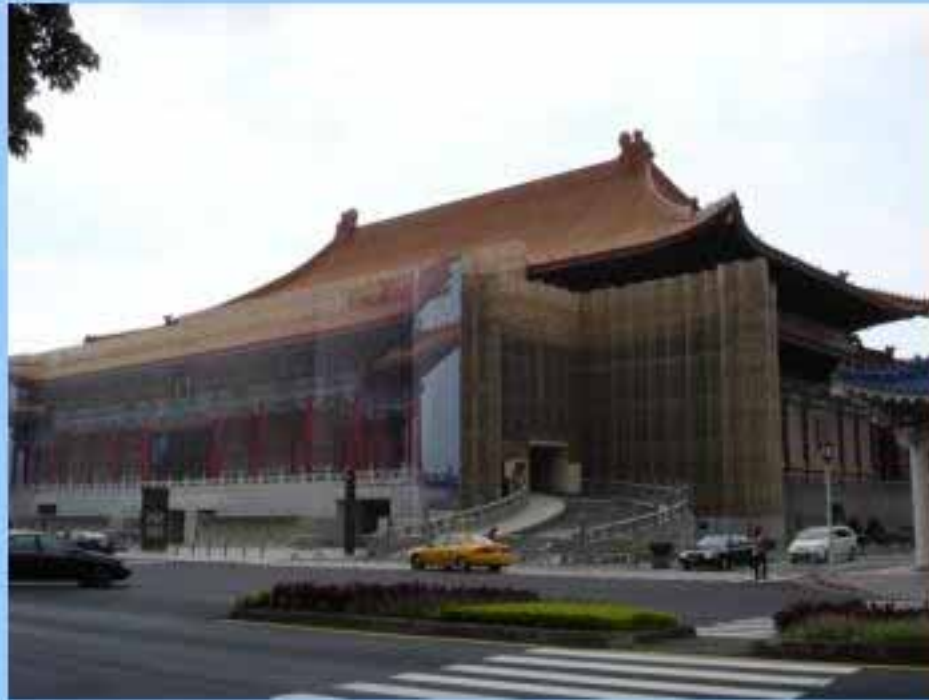
# Bridges



- KongTen Water Channel Bridge(宮田溪水橋)



# Buildings



- **Renovation for National Theater**



- **Maintenance for heritage**



- **Renovation for Temple**



# Transportation\_Railway (1)

- Improvement and renewal for the existed round island railway system.
- Constructions for elevating railway stations and underground subway rapid system in main cities such as TaiChong, TaiNan and KauHsiong.

## Complex station for TR, HSR and MRT(台鐵高鐵捷運車站共構)



## ChiDu Railway Station Renewal (七堵車站更新工程)



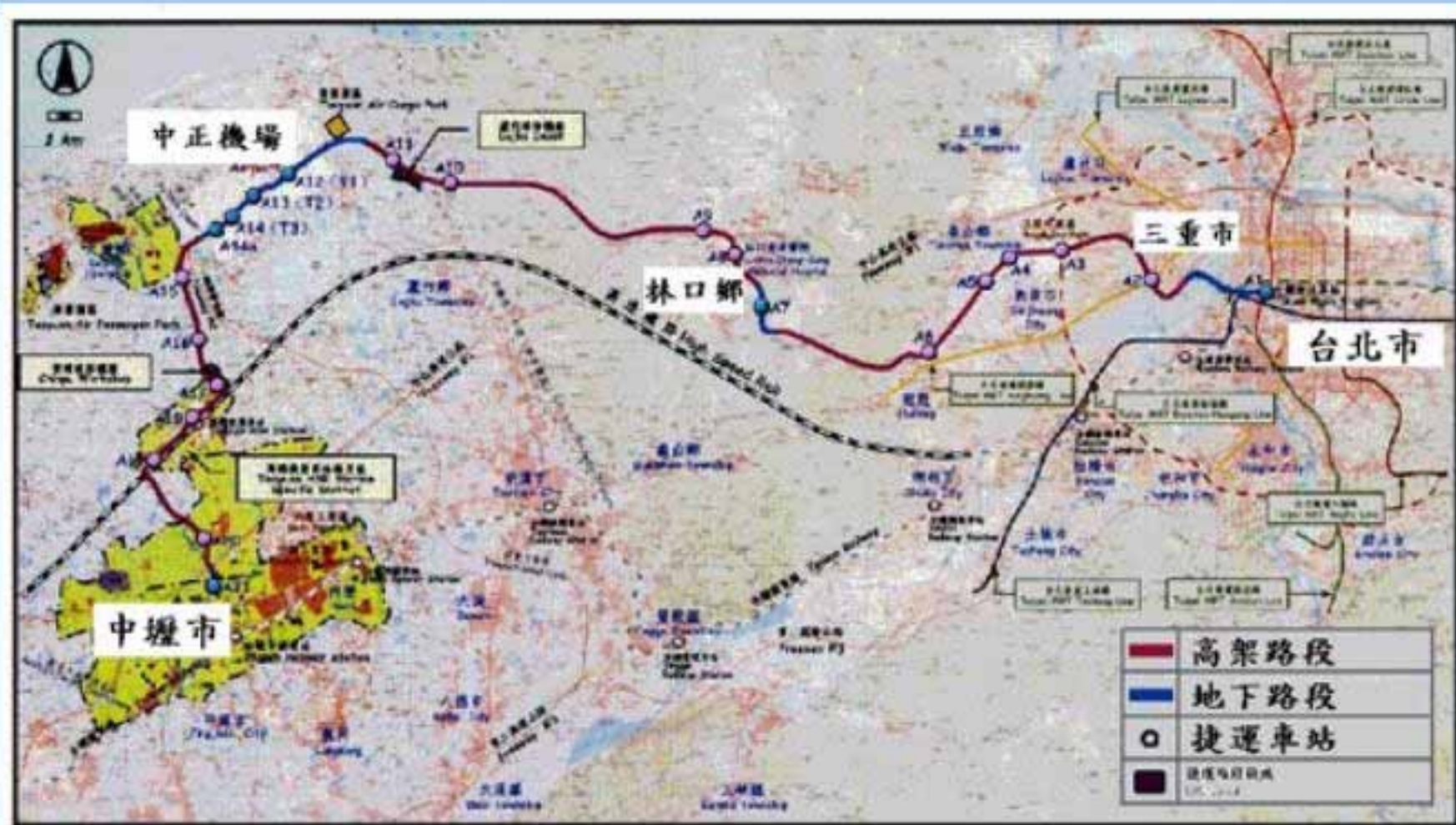


# Transportation\_Railway (2)

- **Constructions for rapid transit system between Taipei city and Taipei international airport.**



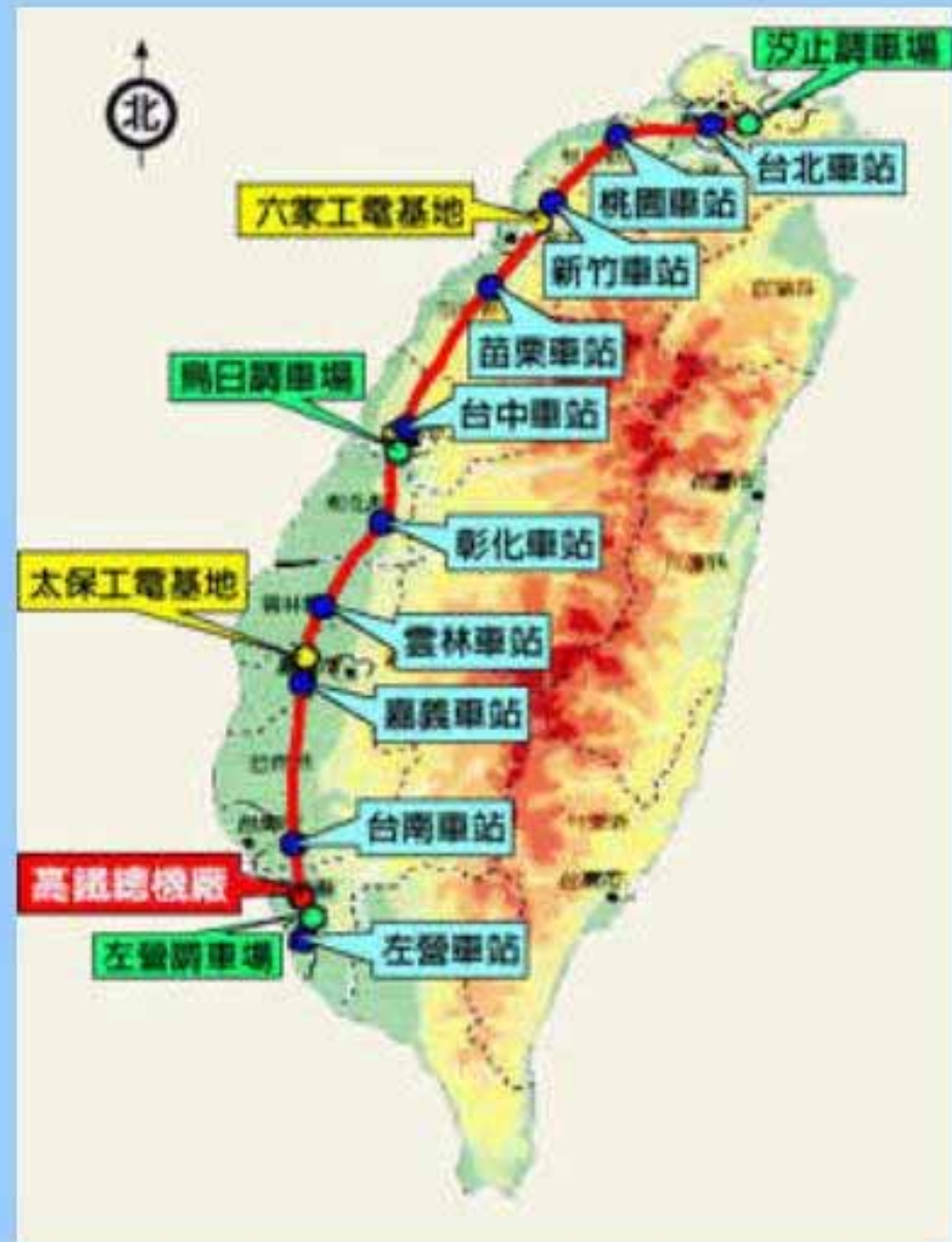
# Map of MRT between Taipei City and International Airport



中正國際機場聯外捷運系統路線圖



- Constructions for the additional stations for HSR at ChangHua(彰化), YunLin(雲林) and MewLi(苗栗).



# Transportation\_Highway

- **Improvements and renewals for the highway and free-way systems.**
- **Maintenance and renovation for the aged bridges .**





- Construction for new branch free way to east part of Taiwan.



# Disasters Mitigation <sup>(1)</sup>

- Flood control constructions and system for the main rivers in west Taiwan.
- Slope protections and land-slide preventions
- Settlement preventions in west coast area of Taiwan near TaiShi(台西) will be focused on.





Land slide, slope protection

Flood, Settlement

# Disasters Mitigation (2)

- Inspection and aseismic strengthening works on buildings will be continued.





- **Inspection and aseismic strengthening for old bridges.**



ShiaTanShue Bridge since 1917



ShiLoh Steel Bridge since 1953

# Urban Renewal

- Urban renewal projects will be started in very near future in main cities of Taiwan such as in Taipei, TaiChong, TaiNan and KauHsiung.



Urban Renewal Project near Taipei main station





Before renewal



After renewal



# Energy\_Power Generation (1)

- Research and development on ocean current power generation along Kuroshio current (黑潮洋流).





- Renewals the existed hydraulic power plants along rivers.



# Energy\_Power Generation (2)

- **Constructions for wind power plants**





- **Developments for solar power generation.**



### **Solar power plates on roofs**

- **To demolish or terminate the aged nuclear power plants, and to store the wasted nuclear fuel safely.**

# Ecological Engineering

- To promote and educate the planning, designs and constructions for the development of ecological engineering and ecosystem in harmonious with environment.











*Thank You for  
Your Kind Attention*