EcoMobility World Congress Kaohsiung, Taiwan, October 2~4, 2017

Future Mobility: Personal or Shared?

S.K. Jason Chang Professor, National Taiwan University Director, Advanced Public Transport Research Center, NTU skchang@ntu.edu.tw



Agenda

- Policy for Sustainable Urban Mobility
- Discussions on Personal and Shared Mobility
- Conclusions

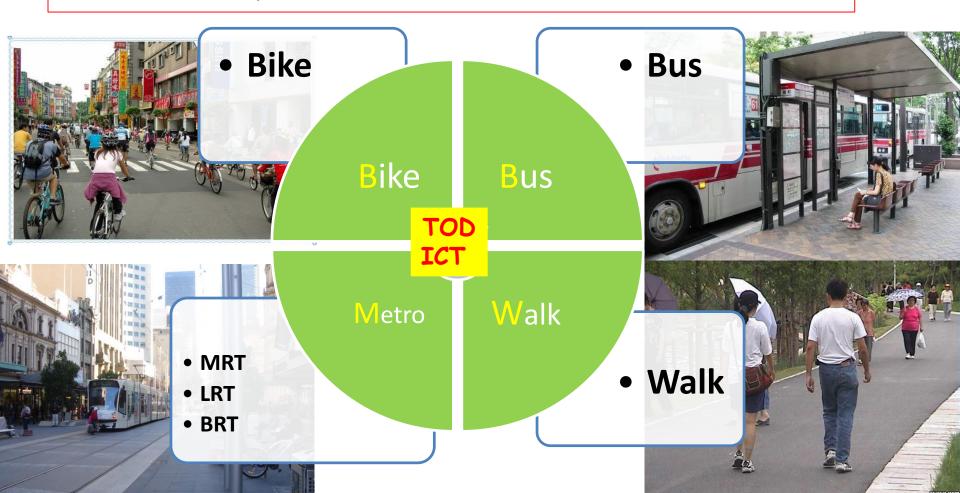


Policy: EcoMobility + MultiModality

BBMW + SHARED MOBILITY

TOD: Smart design of cities

• ICT: Seamless services



Sharing Systems of Scooter / Car and National Plan











source: car2go

- Coordinate with car purchasing limitation and public housing
- Rental stations at public housing and public parking lots
- Electric cars

Challenges.....





http://michaelturton.blogspot.com

Full Trip Cost

- Total Trip Cost and Social Equity
 - usage, facility, time, external cost (Pollution, Public Health, Congestion, Safety...)
- Actually Paid/Should Pay

Walk: 100.0%

Bike: 96.6%

Scooter: 34.8%

Car: 59.6%

Taxi: 67.8%

Bus: 81.6%

Metro: 89.7%



Motorized vehicles are heavily subsidized by the public resources

Answer for Personal Mobility or Shared Mobility?

 Quick Answer by the KEYWORDS "Livable, Shared, and Intelligent"...



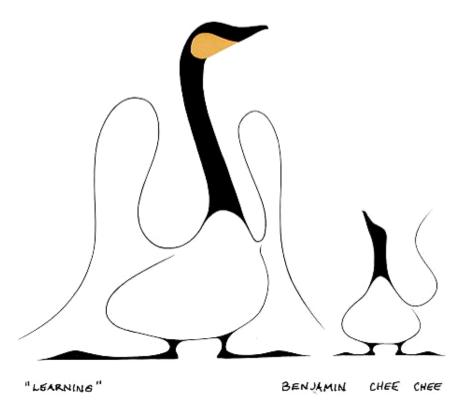
Public Transport + Active Mobility + Shared Mobility

- We have shared our space, infrastructure, and information....
- But, most of motorized vehicles do not pay what they should pay
- Applications of ITS and advanced Technologies for achieving the goals of livable cities by:
 - having users paid for it
 - sharing limited resources

Concluding Remarks

- BBMW + Shared Mobility
- Research on Full Trip Cost for Shared Mobility and AEVs
- Smart Design of City + ITS Technologies
- National Plan and Strategies
- International Collaborations





Thank You

SK Jason Chang skchang@ntu.edu.tw

