A COMPARATIVE STUDY ON ACCEPTANCE AND IMPLEMENTATION OF PARKING POLICY AND LOCAL EARMARKED PARKING TAXES

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Outline

1.Parking policy in downtown 2.Objectives of the paper

3. Transport and parking policy in Perth 4. Transport and parking policy in Niigata

5.Acceptability of parking tax in Niigata 6.Conclusions

Parking policy in downtown/CBD

Parking has a role in helping achieve broad urban policy objectives such as a strong and vibrant economy, better accessibility, a high quality urban environment, a safe and secure environment, and a more equitable society (Marsden, 2006).

■ Best practice parking policy and management is now undergoing a paradigm shift from the concept of "predict and provide" to "optimality and sustainability" (Litman, 2006).

■ Parking space levy and the set of related measures implemented in Perth, Australia is a parking TDM best practice since the purpose is not just raising revenue but to achieve a set of broader land use and transport objectives in relation to the CBD (Brown and McKellar, 2001).

Objectives

A comparative study of parking policy and management; between Perth, Australia and Niigata, Japan. Perth: Best practice of parking policy Niigata: same city size & CBD parking

■To investigate the social acceptability of introducing local earmarked parking taxes in Niigata in a hypothetical manner.

CASE STUDIES - Basic comparisons							
	Perth, Australia	Niigata, Japan					
Metro	1.4 million, 5423km ²	1 million, 730 km ²					
Region	2.7 per ha	15 per ha					
Urban	1.26 million,1035km ²	0.52 million, 231 km ²					
Area	12 per ha	23 per ha					
CBD	10,500, 825 ha	49,000, 503 ha					
(Central)	13 per ha	97 per ha					
Trips to	Car 62 – 76 %	Car 58%, Public 18%					
CBD(%)	Public 33 -19 %,	(Rail 10%, Bus 8%)					
	B/W 4 -3 %	B/W 24%					
CBD	58,000 bays	41,000 bays					
parking	69 bays per ha	81 bays per ha					



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Parking in Central Perth

A strategic perspective

Department for Planning and Infrastructure Government of Western Australia Perth Metropolitan Region

Over 1.6 million people1.2 million in Perth Urban Area.

1.2 million motor vehicles of all kinds including 750,000 private cars

- 4.7 million trips per day
- Over next 20 years population growth estimated to be 1.3% to 1.5% and vehicle growth about 2% per year





Governe Strategic Policy Context

1950's to 1990's - Segregated land uses, at low density & private car based transport, predict & provide infrastructure							
1990's on - Paradigm Shift – mixed land use, greater use of "green modes", higher density, travel demand management							
Metropolitan Transport Strategy	1995						
Perth Parking Management Act & Policy 1999							
TravelSmart TDM program	1999 ongoing						
Air Quality Management Plan	2000						
State Sustainability Strategy	2003						
Network City	2003 ongoing						
Capital City Perth (draft)	2005						
New 80km commuter rail line	2007						







Natural asset: WA should make the most of the Swan River's beauty.



Growth Parking Supply in Central Perth

Source – DPI, G. Brown





Bepartment for Planning and Infrastructure Government of Western Australia New Approach to parking

- Change the Policy setting from "pro car" to "manage the car".
- Recognise that for about half of all car trips there is no alternative means available therefore parking must be provided
- Provide alternative access to city centre by means other than private cars –public transport, bicycle and walking



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New Approach to parking

- Move from minimum to maximum levels of parking for office developments
- Prioritise access in CBD public car parks to short stay users, not commuters.
- Locate commuter car parks to the fringe of CBD.
- Tax parking used and direct revenue stream to provision of "free public transport" in central city.
- Create a new culture -"park once and walk or use free public transport" for journeys in the central city.

Has it worked

Combined CAT & FTZ Passenger numbers in millions

Year	Clipper	FTZ	CAT	Total	Growth
1992	1.8			1.8	
1997		2.6	3.5	7.1	
2000		3.2	4.2	7.7	8.5%
2004		3.6	6.3	9.9	28.5%
2007		4.0	6.85	10.85	10%

• During this period central area working population grew from 91,000 to 125,000



Population : 49,000, density 97 per ha. Parking: 41,000 bays, 81 bays per ha



How people move in Niigata?





Transport policy after 2000

- 2002-2005 Regional transport plan
- 2000-2004 TDM projects
- 2007-2010 Omnibus town plan & project
- 2007-2008 Public transport strategy plan
- 2007-2017 Elevated JR railway project for the central station

Parking policy ?

- In 2005, parking demand is met by the supply, then no need to revise Parking Improvement Plan.
- Decline of commercial activities in CBD due to competition with suburban shopping centers.
- No intention to introduce alternative parking policy to mitigate traffic problems and revitalize downtown.

Hypothetical introduction of parking taxes to downtown/CBD in Niigata to increase public transport use and revitalize downtown

A questionnaire survey about the attitudinal acceptability of parking tax in April 2007.

232 effective samples.
Men 58%, Women 42%
59% are more than 60 years of age.
Employees 43%, Non-employees 57%.
37% live in CBD, 63% in non-CBD.
Commuting: 46% by car, 23% by transit.

Attitude responses to traffic and parking issues



Traffic congestion is related with parking supply.

Attitude responses to parking taxes



Parking tax for funding transit: accepted by 38~57%



Conclusions: Parking policy in Niigata

- Local earmarked parking taxes for funding public transport is accepted by 38~57%.
- Need to introduce some measures to control traffic flow, manage parking, and improve public transport.
- Have to make the paradigm shift in transport and parking policy that has started to emerge in Perth.
- Parking management would be a promising measure for downtown revitalization.
- Earmarked taxes are one measure that can affect positively people's attitudes.