

# Preferred Choice of Pedestrian Road Crossing in Bangkok City

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## ABSTRACT

Footpath in Bangkok, though a good indicator of livable city, is not very user-friendly due to its bumpiness, crowded street hawkers, uneven pavement, non-continuity, obstruction from public utilities, etc. Street crossing even at zebra cross is not always safe for pedestrian. Pedestrian bridges are available at crowded areas but some avoid using them because of the high climb and choose instead the zebra cross at their own risk with high accident rate. Whereas very few (2) tunnels are existing in Bangkok city, probably due to the higher investment cost and long-time perception of theft and sexual molestation incidence in a tunnel some 40 years ago.

A study based on interview of approximate 400 persons who had experience using all three types of the Bangkok street-crossing facilities showed that the tunnel was the obvious preferred choice, with a score of 2.57 out of 3.0, while those of pedestrian bridge and zebra crossing were 1.90 and 1.50, respectively. The similar scores were achieved from both sexes, all age groups, various occupation and different income levels. It is evident also that pedestrian bridge scored negatively the highest (2.89) in terms of fatigue, to be followed by tunnel (1.96) are zebra crossing (1.15). These data are suggested to be used by city planners and mayors for future development. SROI or Social Return on Investment of the tunnel crossing was also recommended for future study.

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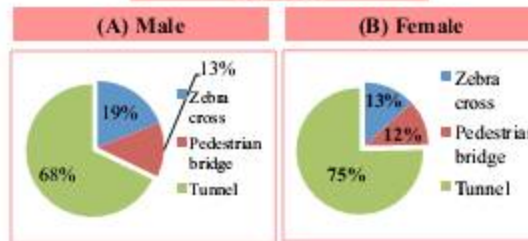
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## Option gained the highest score ( $\bar{x}_T$ ) in different factor

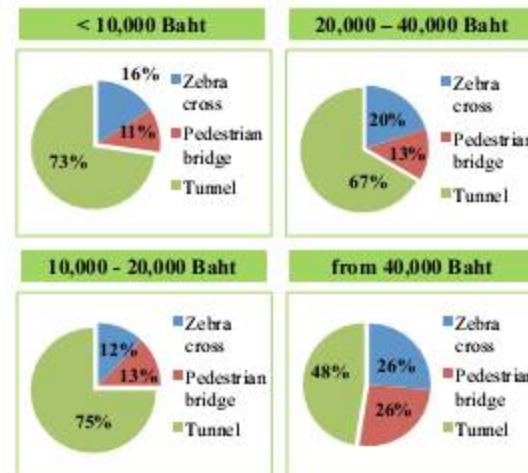
	Distance	Convenience	Security	Fatigue	Height	Sheltered option	Investment cost
<b>Age</b>	Tunnel	Tunnel	Tunnel	Pedestrian bridge	Pedestrian bridge	Tunnel	Tunnel
$\bar{x}_T$	2.52	2.36	2.56	2.89	2.94	2.89	2.85
<b>Sex</b>	Tunnel	Tunnel	Tunnel	Pedestrian bridge	Pedestrian bridge	Tunnel	Tunnel
$\bar{x}_T$	2.53	2.39	2.57	2.91	2.95	2.92	2.85
<b>Occupation</b>	Tunnel	Tunnel	Tunnel	Pedestrian bridge	Pedestrian bridge	Tunnel	Tunnel
$\bar{x}_T$	2.55	2.37	2.56	2.87	2.90	2.87	2.84
<b>Income</b>	Tunnel	Tunnel	Tunnel	Pedestrian bridge	Pedestrian bridge	Tunnel	Tunnel
$\bar{x}_T$	2.53	2.35	2.49	2.90	2.92	2.89	2.86

Percentage of the most preferred choice in various categories : age/sex/income

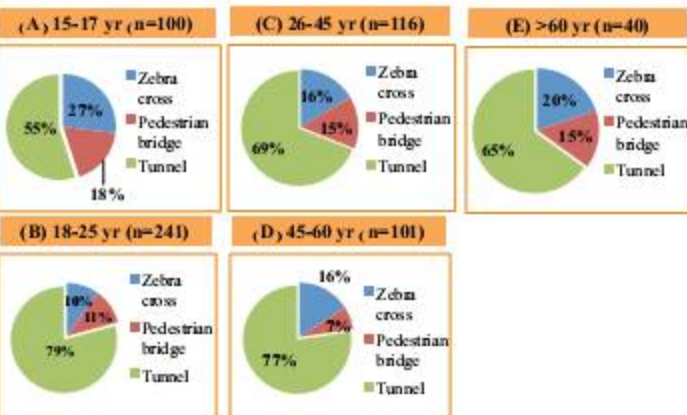
### By Sex



### By Income



### By Age



Answering the question in sequential preference; 3 (the most), 2 (intermediate), and 1 (the least)

- At equivalent distance, which option will you prefer to street crossing?  zebra cross  tunnel  pedestrian bridge  
Reason.....
- What is the most convenient option to street crossing?  zebra cross  tunnel  pedestrian bridge  
Reason.....
- What is the most security option to street crossing?  zebra cross  tunnel  pedestrian bridge  
Reason.....
- What is the most fatigue option to street crossing?  zebra cross  tunnel  pedestrian bridge  
Reason.....
- What is the most sheltered option to street crossing?  zebra cross  tunnel  pedestrian bridge  
Reason.....
- Which option will you consider the height?  zebra cross  tunnel  pedestrian bridge  
Reason.....
- What is the most expensive option to construct?  zebra cross  tunnel  pedestrian bridge  
Reason.....
- What is your most preferred choice? (one option please)  zebra cross  tunnel  pedestrian bridge  
Reason.....
- Suggestions (if any) .....