

보행환경과 행태 조사분석 보고서(I)

서울시 상업지역을 중심으로

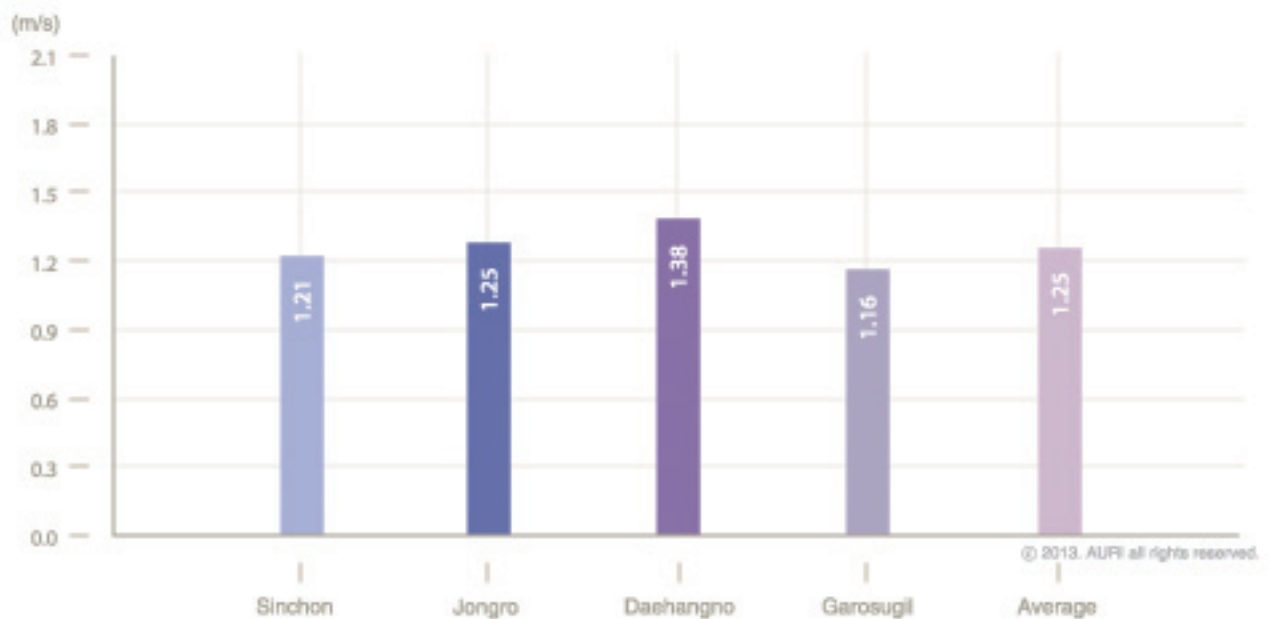
WALKING ENVIRONMENT
AND PEDESTRIAN BEHAVIOR
FIELD SURVEY REPORT(I)



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(a u r i)

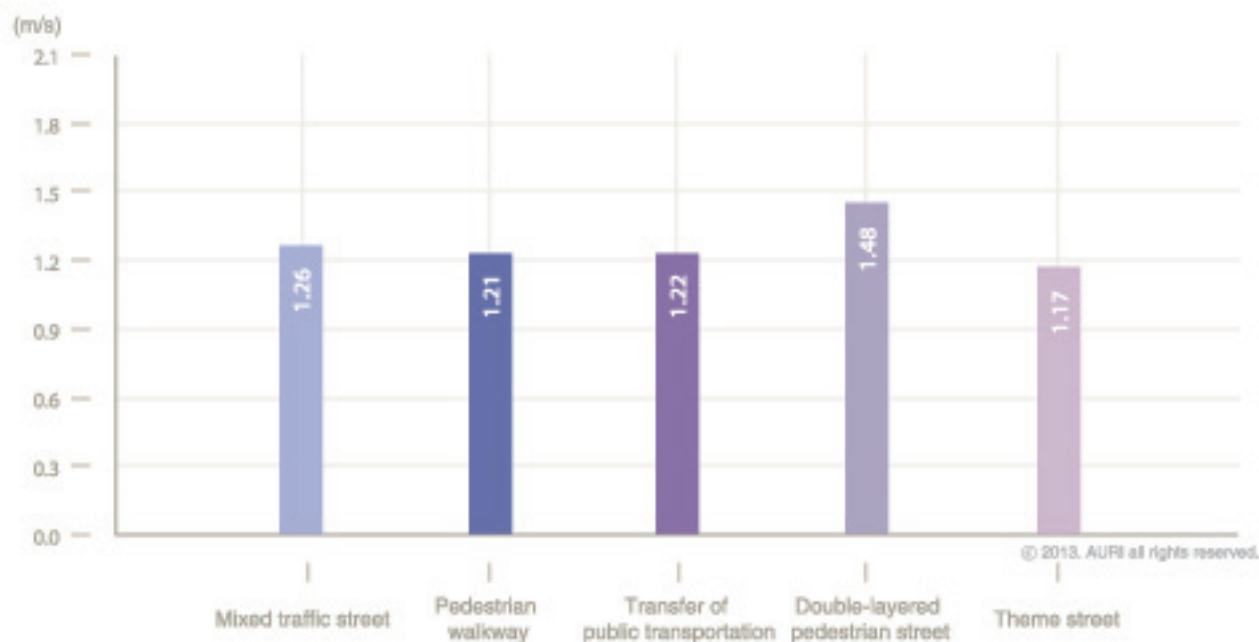
Walking Speed



- The average walking speed in commercial street was 1.25 m/s and the average walking speed ranges from minimum 1.16m/s to maximum 1.38 m/s by site.



Walking Speed

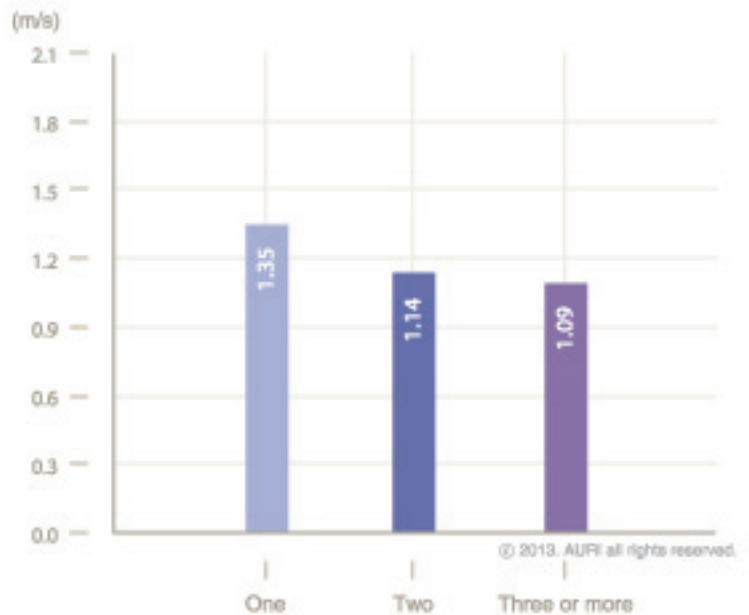
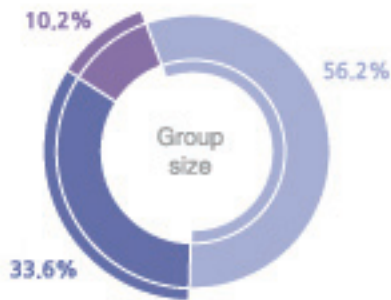


- The average walking speeds were 1.48 m/s and 1.17 m/s for double-layered street and theme street, respectively. Walking speed for pedestrians on the double-layered pedestrian street was faster than that for total average walking speed.

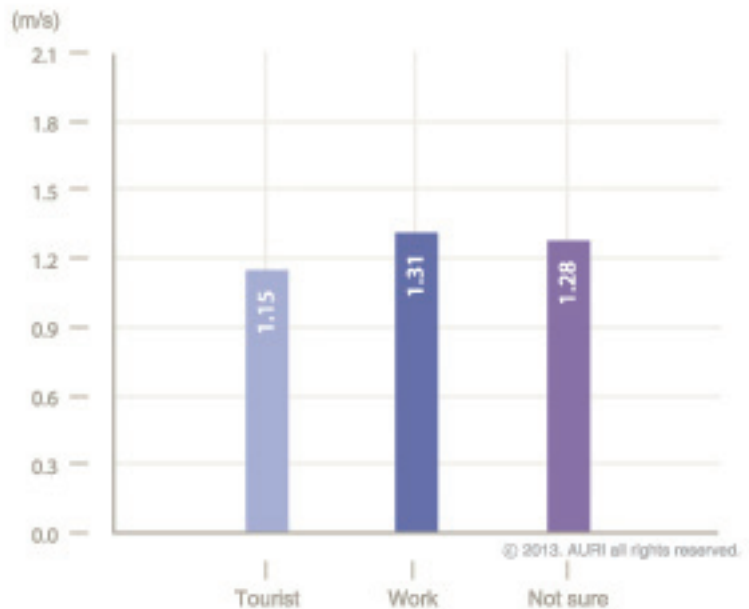
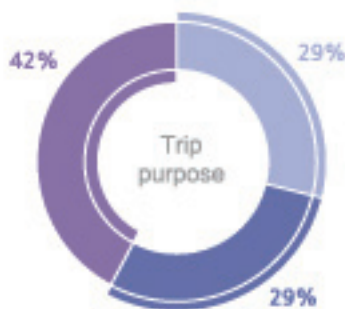


* Double-layered pedestrian street

Walking Speed

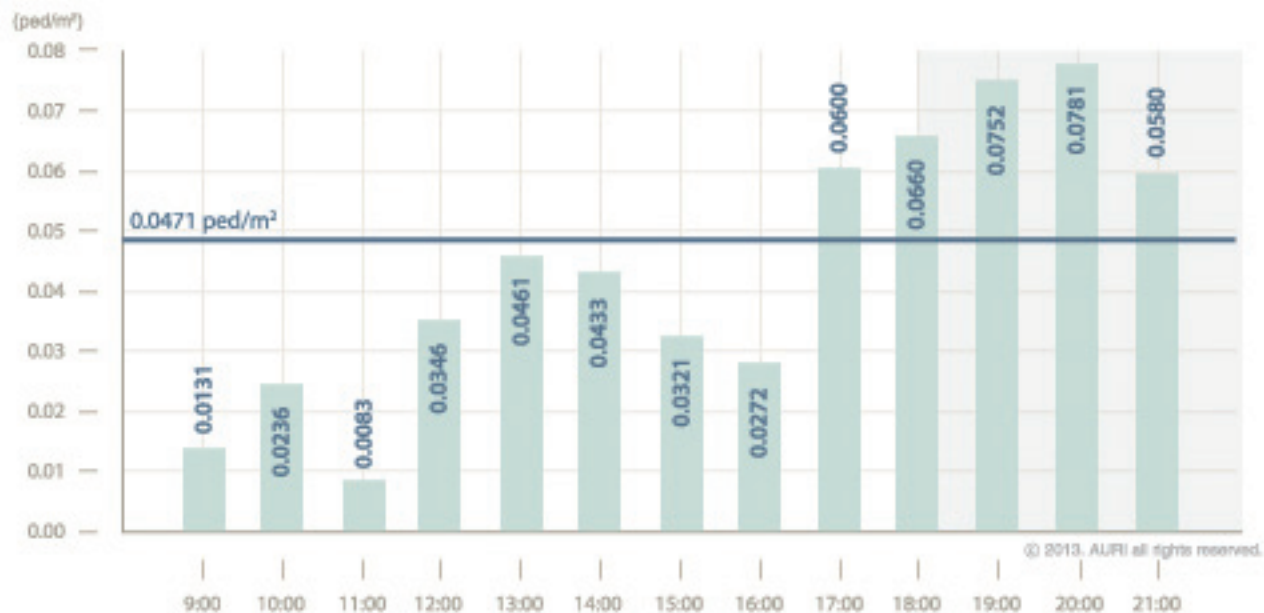


- It was observed that group of pedestrians have lower speeds than pedestrians walking alone. And, as the number of pedestrian in groups increases , the average speed decreases.



- It was observed that pedestrians whose trip purposes are work tend to walk fastest, with a average speed of 1.31 m/s. Tourists tend to walk most slowly (average speed = 1.15 m/s) and non-tourists with recreational or casual trip purposes walk just slightly faster(average speed = 1.28 m/s) than tourists.

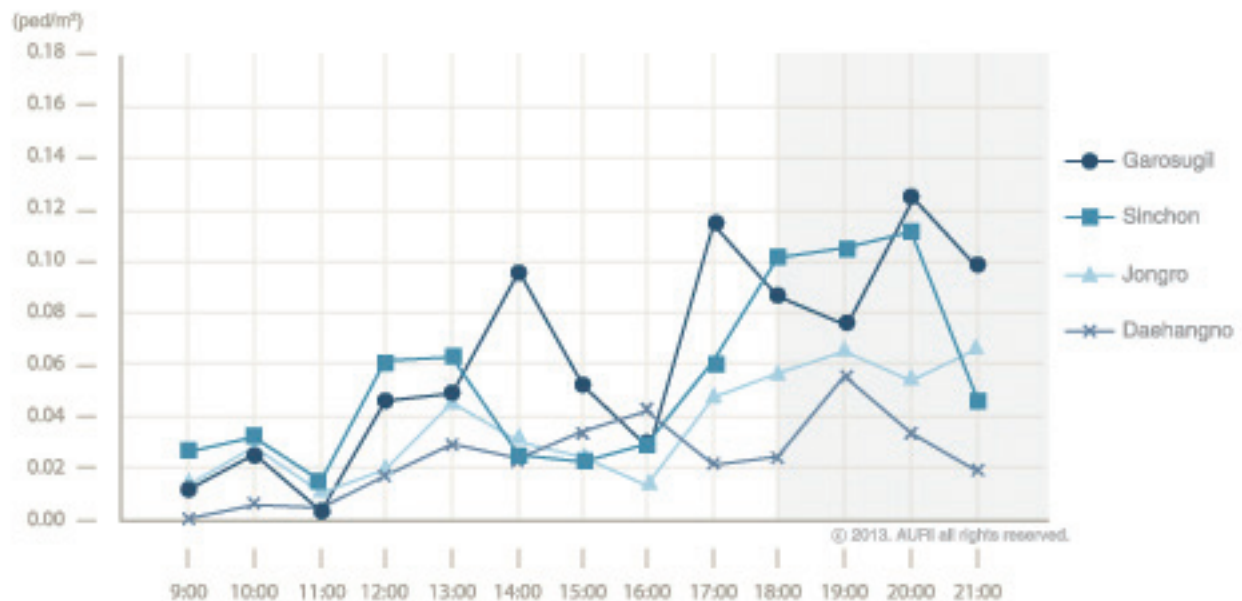
Pedestrian Density



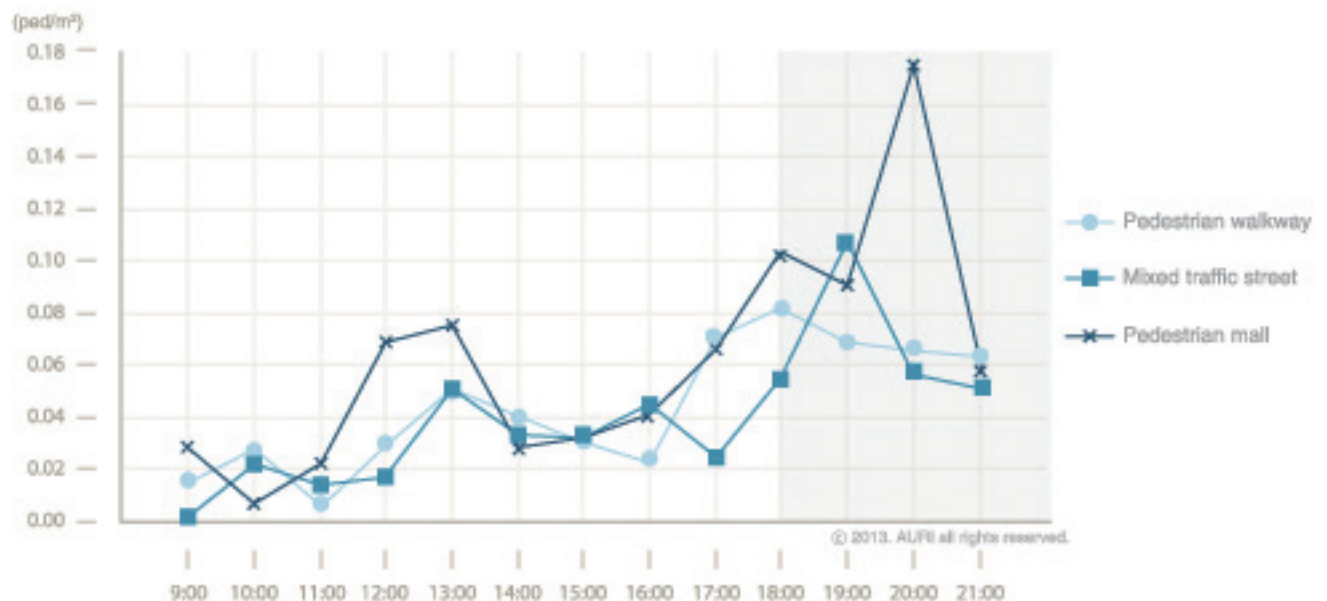
- It was observed that the average pedestrian density is 0.0471 ped/m², with pedestrian space is more than 20 m²/ped.



Pedestrian Density

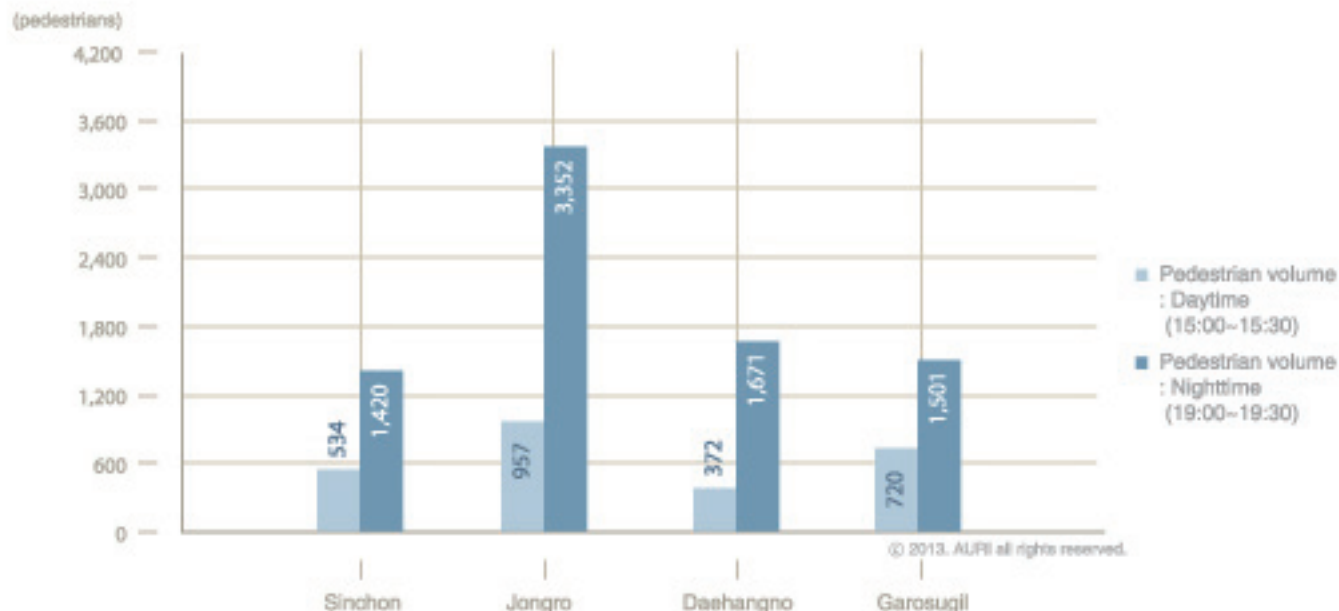


- The pedestrian density on the Garosugil was higher than that for other site. And pedestrian density values for daytime(9 a.m. to 6 p.m.) were lower than those for nighttime(after 6 p.m.).

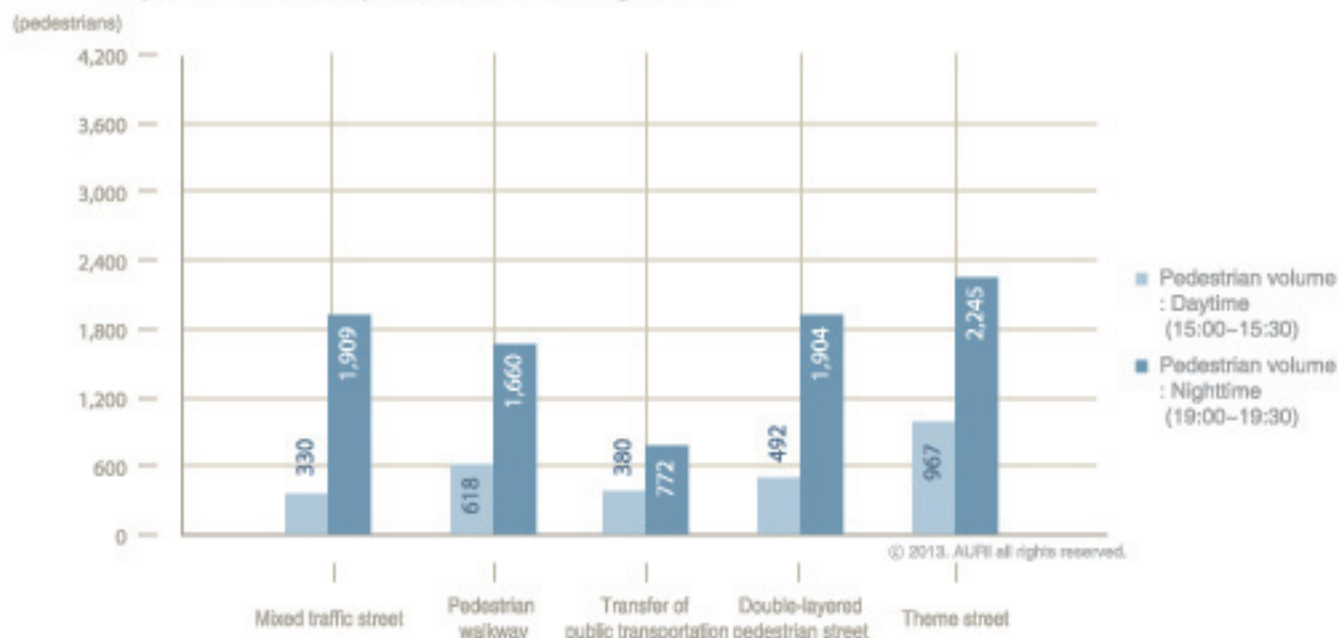


- The pedestrian density on the pedestrian mall was higher than that for other street type.

Pedestrian Volume

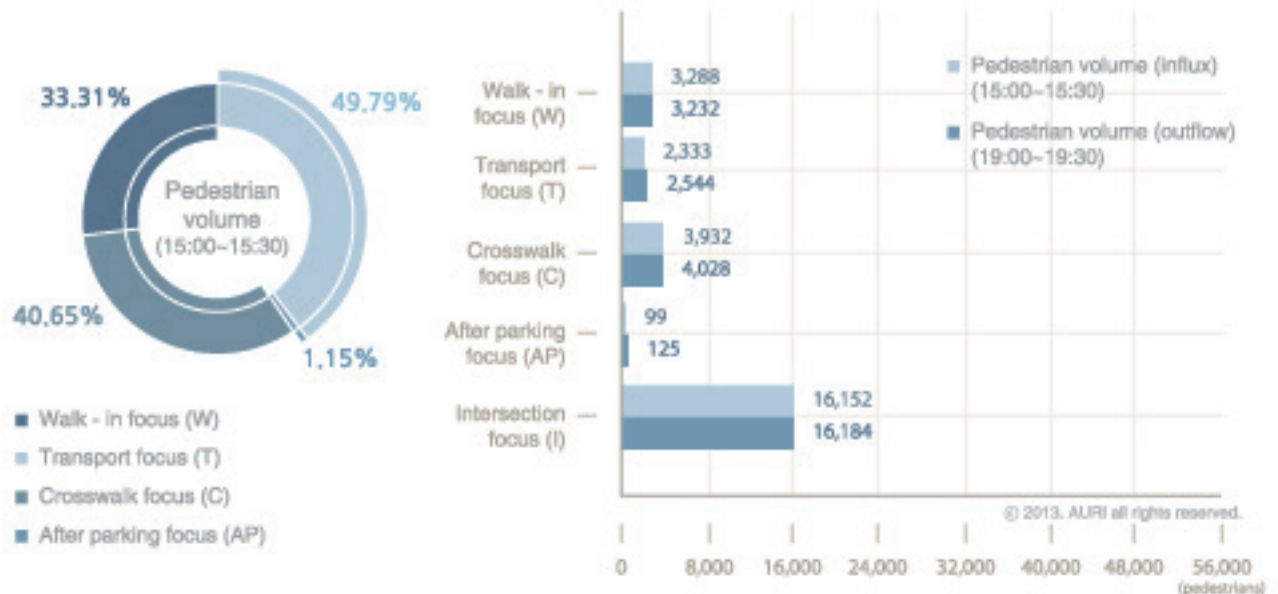


- The number of pedestrians on daytime counted 2 to 3 times more than that of on nighttime, while high amounts of pedestrians were observed on Jongro with a count of just over 3,352 pedestrians on nighttime.

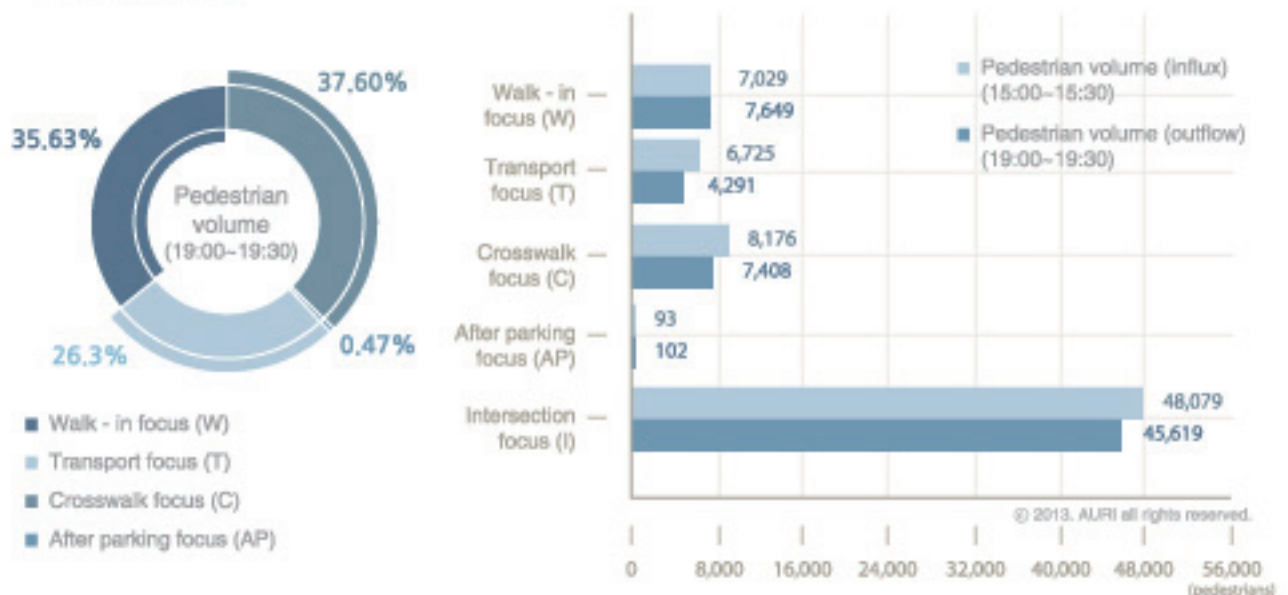


- Generally, the number of pedestrians on daytime counted 3 to 6 times more than that of on nighttime, while a large number of pedestrians were observed on the theme street where pedestrian mall is included on nighttime.

Pedestrian Volume

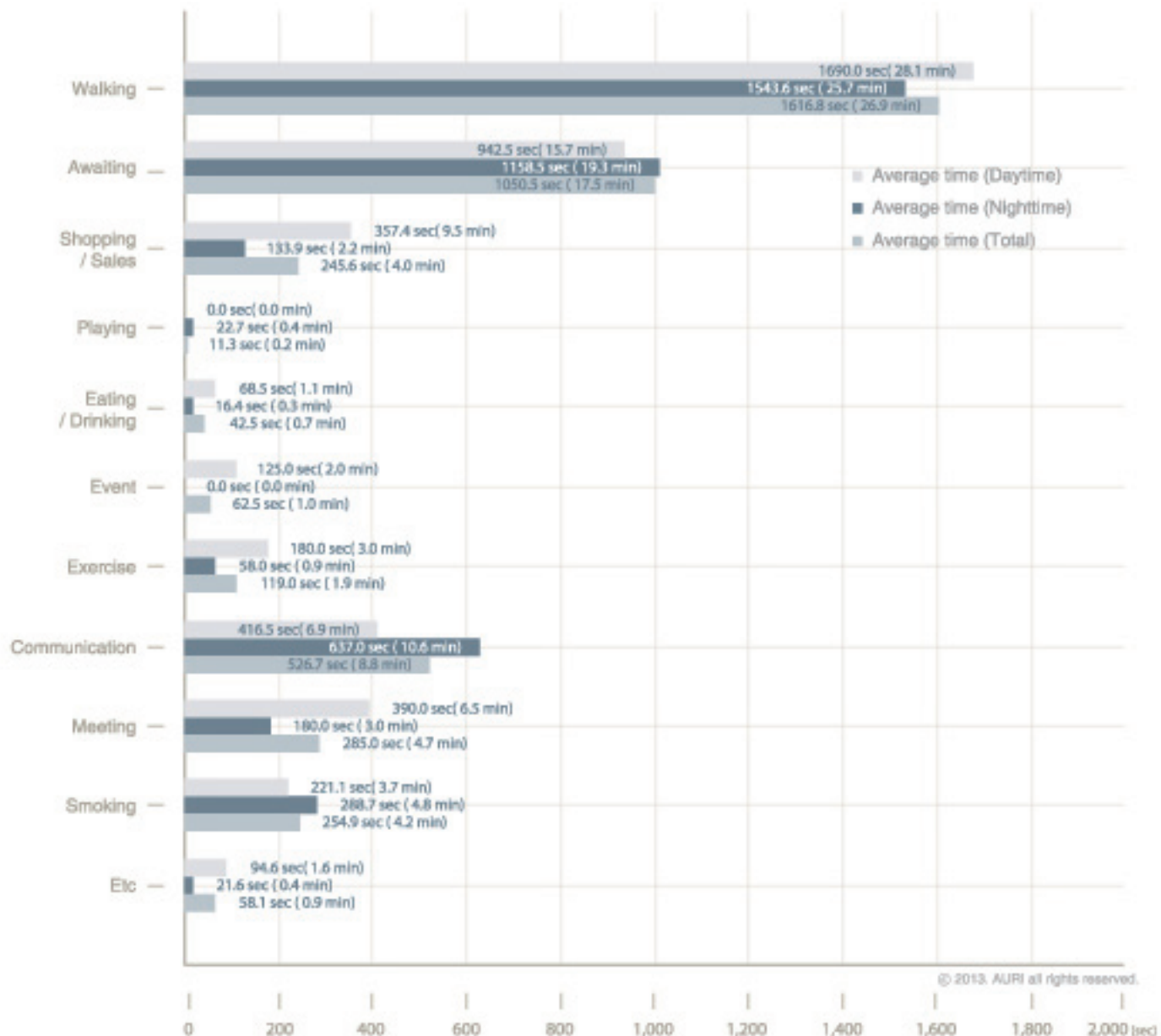


- Pedestrians flowed into the sites from public transportation during the daytime was figured 49.79%, which ranked the highest pedestrian volume, while the number of pedestrians departing and approaching through crosswalk increases as it reaches to the nighttime.



- When the same analyses are performed with pedestrian volume data from daytime peak and nighttime peak, respectively.

Pedestrian Activity



- Walking activity patterns, mainly happened in the commercial district, can be classified into 11 categories and analyzed each activity duration.
- The activities that generated most actively were essential activities such as walking and awaiting, and social activities such as communication, meeting, smoking follow