

## SUMMARY

**Irene Dhita Pratiwi**, Urban and Regional Planning, Faculty of Engineering University of Brawijaya, Agustus 2016, *The Arrangement of Pedestrian Ways Based on the Walkability Concept on Merdeka Street Malang City*, Advisors: Imma Widyawati Agustin, ST.,MT., Ph.D dan Dr. Ir. Budi Sugiarto Waloea, MSP

Merdeka street is a commercial area and public open space that becomes a big attraction and encourages the movement of the public including pedestrian in Malang city. A high pedestrian movement should be balanced with the availability of adequate facilities and infrastructure, this is to create a walkable pedestrian ways that is pedestrian ways can provide comfort, safety and sociability for pedestrians. The main function a pedestrian ways is a place where pedestrians can move from one place to another safely, comfortably and without fear either against fellow walkers as well as to the vehicle. Pedestrian ways should consider width, pavement and facilities that support such as street lighting, dustbin, and other complementary facilities. The main purpose of the research is providing a plan of pedestrian ways which is based on the concept of walkability.

This research used guidelines from Permen PU number 03/PRT/M/2014 to know the level of service pedestrian ways by calculating the flow, density, space pedestrian ways and ratio  $v / c$  and standard of the US Department Health and Human Service to find out index of walkability and Importance Performance Analysis (IPA) to know the priority improvements of pedestrian ways. Walkability assessment is done based on pedestrians perception and standard. Parameters used consisted of 9 is the availability of pedestrian ways, pedestrian conflict, crossing, maintenance, measurement of pedestrian paths, buffers, accessibility, aesthetics and shade with each parameter has a different weight.

The results showed that Merdeka Selatan street and Merdeka Timur street has the worst level of service is B on the weekday while on the weekend, Merdeka Timur street has the worst level of service is E. Pedestrian ways on Merdeka street has index of walkability is quite walkable with score 40-69. The planning of restructuring pedestrian ways on Merdeka street has a different priority repair every street, the addition of priority restructuring is in lighting, trash and disability paths. This is because the condition of existing is still not there are facilities yet.

Keywords: pedestrian-ways, walkability, malang-city.

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