ABSTRACT

Cycling is one of the activities that is popular with many people, especially the Indonesian people. Many Indonesian people have a hobby of cycling in Indonesia, not only the hobby of cycling, it can also be used to go to work, exercise, and go to their destination by bicycle. The Institute for Transportation and Development Policy (ITDP) survey said that during the pandemic, the use of bicycles has increased 10 times more than usual compared to October 2019. One of the most important things when cycling is safety. Cycling safety both from yourself and other riders. Cycling safely will make cyclists comfortable by itself, therefore cyclists should use cycling equipment such as helmets. In Circumstances surrounding cycling fatalities in Canada 2006 to 2017, conditions affecting visibility such as darkness, rain and glare accounted for 21% of fatal cycling events. Therefore, the author wants to develop a helmet with innovations in the form of lights and reflectors that have 3 modes, one of which is anti-collision lights. In developing this helmet, qualitative and quantitative methodologies were used to obtain data based on these problems. In development, the authors also use two approaches, namely aspects of the function and aspects of appearance and the use of SCAMPER as a development analysis technique. From this development, it was obtained in the form of a helmet design that has these innovations to give alternate solution to solve those problems at night, especially for cyclists.

KEY WORDS : Cyclist, Cycling, Night ride, Bike Helmet