Analysis of the Need for Electric Motorbikes Based on the Internet of Things (IoT) to Improve the Economy of Individuals with Disabilities

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ABSTRACT

This quantitative research was aimed to describe the need of electric motorbikes for individuals with physical disabilities taken from *Difajek* members, which amounts to 43 respondents. Data collection was carried out using a questionnaire consisting of self (internal) conditions which included: (1) satisfaction with current living conditions; (2) satisfaction with health conditions (3) the ability of self-control; (4) controlled abilities (5) ownership of SIM D, environment: (1) satisfaction with the physical environment; (2) satisfaction with the treatment of others; (3) business facilities and infrastructure, vehicle and vehicle ownership including specifications on motorized vehicles expected by the respondent, including: (1) The steering system is located at the front; (2) The reach and height can be adjusted for the steering wheel; (3) Control in the left hand, there are horns, turn signals and headlights; (4) There is a parking brake; (5) The weight capacity of the goods is 90-105 kg; (6) 30-40cm surface dimensions of goods; (7) The item holder can be folded; and (8) the roof of the vehicle. The results showed that 74.4% of people with physical disabilities had an income of IDR 12,000,000 per year and 97.7% of respondents expected an IoT-based motorized vehicle.

Kata Kunci: *Physical disabilities,Economic conditions,Modified vehicles*