Assessment of Sidewalk Problems and Their Remedial Measures: Case Study of Dire Dawa Town Kebele 02 Sidewalks, Ethiopia

Authors : Abdurahman Anwar Shfa

Abstract : A Road sidewalk provides benefits, including safety, mobility, and healthier communities by facilitating the movement of goods and people. It enables increased access to daily living and programs in the country. But, these increases in access may be affected by many factors that pose a great challenge in the individuals' daily activity, ranging from minor injury to death. Those problems are construction roads without sidewalks, using sidewalks for selling purposes, potholes, and west and trees on sidewalks. In this case, our objective is to identify problems related to sidewalks, assess the accessibility of sidewalks to all users, including pedestrians with disabilities, propose appropriate countermeasures for these problems, and prepare the indicator map. This study was undertaken to investigate the performance problems associated with sidewalk, particularly focusing on specified areas of Dire Dawa city kebele 02, to show the main problems and suggest that important consideration should be given to road sidewalk. To meet the objective of research, it is believed to collect data, review sidewalk construction practices and performance problems reported from ERA manual, and carry out a field reconnaissance. This research encompassed a variety of activities regarding sidewalk, including problems and accidents that occurred due to this problem. The purpose of this research is to identify the type of risk to pedestrians who are walking along a roadway and the reasons for those risks. So, based on our study, the sidewalk of Dire Dawa City kebele 02 is not enough. Those sidewalks are not accessible for all pedestrians, including disability.
Keywords : GIS, ERA, GPS, sidewalks way, asphalt road
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