

Collaboration, Communities, Well-being and Information System

**Abdul Rahman Bin Ahmad Dahlan
Muhd Rosydi Bin Muhammad**



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ABSTRACT

The paper presents the use of remote sensing to predict and reduce effect of natural disasters. Project reveals the before, during and after disaster scenario where long-distance information distribution network is established in rural areas, cities, towns, jungles and mountains with the help of UAVs for the purpose of tracking the potential risk of natural disaster and sharing the disaster related information with the government agencies. This innovative system is a far less expensive and very useful compared to the traditional remote sensing using satellite. The two concepts namely (i) Government Information Sharing and Quadruple Helix Model collaboration, and (ii) Leavitt's Organizational Change Model are crucial to the success of the whole disaster risk reduction project.

21.1 INTRODUCTION

Flood causes enormous damage all over the world. In the last decade, flood killed about 100,000 persons, and affected over 1.4 billion people (Jonkma, 2005) In addition escalating frequency, severity, and costs over and above fire suppression associated with large-scale forest wildfires include losses of human lives, homes, pets, crops, livestock, and long term environmental and infrastructure damage. Many destructive mega fires have made international news, such as the