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INTEGRATING SATELLITE APPLICATIONS IN DISASTER RISK MANAGEMENT

Abstract

In recent years, Europe faced the consequences of several natural hazards, resulting in human and economic losses. Extreme weather events due to climate change will only increase in the future. The rapid growth in the use of satellite applications has the potential to mitigate the impact of climate change and related hazards. Earth observations, Global Navigation Satellite Systems, and satellite communications all support crucial phases of disaster risk management, from prevention and preparations to response and recovery.

This paper aims to shed light on the European stakeholders playing a role in the disaster risk management cycle and the contribution of satellite applications. It evolves around the current mechanisms to access and share international and European space-born information. An analysis of the main stakeholders will be provided, as well as their role and operative mechanisms. The research seeks to deepen the disaster risk management community among European states with regard to the integration of satellite applications. Five recent case studies on the use of satellite-based services during different disasters will be presented.