




<p style="writing-mode: vertical-rl; transform: rotate(180deg);">ENTITY</p>	<p style="text-align: center;">National Emergency and Crisis Management Authority – Abu Dhabi</p> <p>P.O. Box 11811, Abu Dhabi, UAE Phone: +971 (0) 2 4177000 Fax: +971 (0) 2 6670668 E-Mail: info@ncema.ae www.ncema.ae</p> <div style="text-align: right;">  <small>الهيئة الوطنية لإدارة الطوارئ والأزمات National Emergency and Crisis Management Authority</small> </div>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Abstract</p>	<p>Established in May 2007, NCEMA is responsible Coordinate all national efforts to save lives, preserve national properties and assets by hindering the effect of emergencies and crisis, and coordinate the national recovery efforts. This includes the development of a National Response Plan (NRP) and procedures and in charge of training and auditing for all crisis and emergency management related activities. Establish National, Regional and Local Operation Centers (NOC-ROC-LOC) and ensure preparedness of all UAE organizations involved in the management of emergency and crisis by conducting periodic training and exercises.</p> <p>Vision: Excellence in emergency and crisis management.</p> <p>Mission: Strengthen United Arab Emirates capabilities in emergency and crisis management, and to develop requirements to ensure business continuity and fast recovery through preparation and joint planning by using all means of coordination and communication on federal, local and private level, in order to preserve human lives and properties.</p>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">GIS Profile</p>	<p>The GIS function in NCEMA is presently under development as a component of an overall development of a national spatial infrastructure for the whole country which, will be maintained by NCEMA to support all emergency and crisis operations. Currently, the strategic plan and data model is to be initiated soon and will reflect all the requirements of NCEMA users and its interactions with other establishments.</p> <p>The system will support emergency planning, mitigation, response, and recovery and maintain all related activities and spatial data. At present, NCEMA utilizes an emergency management system that supports the national operations center on its mission to carry out its daily operations. GIS is to support the effective management of existing data and utilize its analytical and modeling capabilities to support the generation of new information, and permit the integration of data from multiple sources. GIS is an integrated information system in order to access accurate and up-to-date data which is used in the activities of research, planning, management, control, and application units from the related resources. GIS technology effectively improves the workflow in all phases of emergency management and supports the requirements of the emergency management. Emergency management organizations are government agencies at different (federal, state, and local) levels that are charged with reducing community vulnerability and establishing capabilities to manage and quickly recover from emergencies.</p>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">SDI Involvement</p>	<p>NCEMA and AD-SDI started cooperating in May 2009 and joined the SDI community in June 2009. NCEMA is currently working closely with AD-SDI, MSD, DMA, and federal agencies in accessing and using spatial data.</p> <p>GIS will support and provide data to address emergency operations in different areas and will be used in areas such as:</p> <p>Risk Assessment: GIS applications primarily fall within the assessment process, in which identified hazards and threats are Analyzed in their spatial context, which supports vulnerability and risk assessments. Spatial Analysis might identify risks by overlaying data and evaluate its location relative to resources or facilities and its impact.</p> <p>Emergency Planning: GIS technology provides the capability to map and analyze hazards of all types and visualize their potential impacts. When hazards are fused with critical infrastructure, population densities, and other community values, vulnerabilities can be observed, modeled, and better understood. Based on the potential impact of any particular hazard to critical values, priorities for mitigation can be established.</p> <p>Resources Mapping: Identification and mapping of key tactical and strategic facilities; Hospitals, Public safety facilities, Suppliers to support response (food, water, equipment, building supplies, etc.) This information is essential to respond to emergencies and crisis in order to save lives and protect properties.</p> <p>Emergency Response: Provide warnings and notifications to the public and others of pending, existing, or unfolding emergencies based on the location or areas to be impacted by the incident. Determine appropriate shelter activations based on the incident location and optimum routing. Establish the capability to share information and status with regional, state, and federal agencies.</p>
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