

The Algerian Digital Seismic Network (ADSN): towards an earthquake early-warning system

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In 2006, Algeria has installed a digital seismic network, which has been constantly developed until reaching 70 seismic sensors (20 broadband sensors, accelerometers 20, 50 short period sensors), on which is based the rapid response system in operation by the CRAAG that provides an alert after a few minutes after the occurrence of an earthquake in giving precise information on the origin of the earthquake (geographical coordinates, depth and magnitude), later, were added new developments in both fields, GIS, and alert broadcasting, by the use of new web services that have allowed the alert sharing to a large population via an android application,

This system responds to seismic post needs but is not adapted to the constraints and measures to be applied in real time with the arrival of shock waves, especially at the Dams and other installations vulnerable to earthquakes (lines railways, power plants etc ...)

New approaches are in development to the algerian digital seismic networks (ADSN) in order to optimize the seismic alert triggering towards an early warning that will be integrated in the Algerian seismic monitoring system.