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## **Brief History of KOERI Seismic Network and Waveform Data Processing-Handling System**

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We will try to give some real information about how disasters effect on science, especially how earthquakes make positive improvement on earth science, and here our unique sample is Kandilli Observatory and Earthquake Research Institute (KOERI). In 21<sup>st</sup> century may be the well known disaster in Europe is 17 August 1999 Earthquake that is happened in Marmara region. After the Earthquake turning point had began for KOERI. Before the Earthquake, KOERI just had zero digital station, now KOERI has 130 digital stations and 80 of them equipped with broad-band sensors with a satellite communication. Furthermore, they developed their own earthquake processing software and publicly available waveform data distribution system. Their user friendly and easy configurable processing software become the most preferred software for a great number of researchers around Turkey, because of both visually manual processing and automatic background capabilities and also conversion utilities for most known seismic data formats. KOERI is going ahead of one step and carry out their time eating problems like 3D source inversion problems to the European parallel computing system SEE-GRID. In this case almost real time, in 3D conditions, Fault Plain Solution could be really possible. Real abstract is what KOERI was and what KOERI is.