

Integration of Seismic Data of IMS for Sustainable Cities and Communities

Usage of data from seismic stations of the unique network of the CTBTO can be very useful for seismologists to derive realistic information about the earth's core and layers. Especially contribution of the stations at teleseismic distances (>1000 km) is significant for each country. As a result of such studies, realistic urban transformations and immediate emergency responses can be obtained. Therefore, sustainable cities and communities can be achieved which is the 11th goal of the sustainable development. Moreover, living in strong buildings both secures lives and lets people to continue to live in their homes during secondary events. In addition, immediate interference after a disaster can save health and supply well-being, contributing to the 3th SDG. Furthermore, urban transformation requires not only construction of stronger buildings but also new infrastructures. Hence, new industrial areas also may be generated and the 9th SDG may be achieved. Also, by renewing old and vulnerable structures, where people with weak economic conditions live in, everyone can live in safe buildings in equal conditions which can contribute to the 10th SDG. Consequently, open use of seismic data of the CTBTO can be very important for the four the sustainable development goals.

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