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Defining Community Disaster Preparedness as a Resilience Factor for Earthquake Risk Assessment in Istanbul

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The natural events such as earthquakes turn out to be disasters as a result of not only the poor conditions of the built area and infrastructure, but also affected by the socioeconomic fragility and lack of resilience of the community exposed. Likewise, resilience factors play role in increasing the ability of people to cope with hazards. Social resilience is the capacity of social groups and communities to recover from, or respond positively to, crises. Emergency management plans must recognize and build on this capacity, and that improved indicators of social resilience should receive priority consideration in the application of these plans.

The physical risk factors and their damage assessment have been pointed out in previous earthquake risk assessment and scenario studies conducted by Bogazici University and OYO International. A rational assessment of the risk aggravating factors is essential in order to reach to a more complete coverage of the overall risk. It would also introduce the social factors that need to be reduced or strengthened through public policies and actions in order to increase the resilience of the community.

With experience from several social studies conducted under CENDIM, Kandilli Observatory & Earthquake Research Institute's Disaster Preparedness Education Unit, and research of the studies conducted by several other national and international institutions, we are defining the community disaster preparedness as an indicator for resilience. Social resilience is understood to have two important properties: resistance, recovery. Resistance relates to a community's efforts to withstand a disaster and its consequences whereas recovery relates to a community's ability to coming back to its pre-disaster level of "normalcy". Researches also indicate that the need for local-level and community-based approaches is recognized in achieving sustainable hazard risk reduction.

We will conceptually discuss the description and assessment of the community disaster preparedness as an indicator for social resilience.