Updating of Istanbul's Tsunami Hazard and Vulnerability Analyses – (completed at 2018)

Tsunami Action Plan – (Expected by the end of 2019)

The bathymetry and spatial data of Istanbul has been analyzed in various studies throughout history, and it has become a center of trade, economy, and culture with its historic and strategic location in terms of its historical, cultural, and regional importance. Besides, as a result of climate change, reduced water flow, and sediment accumulation, and possibly earthquakes, Istanbul is exposed to different threats such as floods, landslides, and coastal degradations. When we look at the records of the previous period, it is seen that the earthquakes in the Mediterranean basin have caused significant damage to Istanbul. Moreover, the Tsunamis generated by these earthquakes in historical and recent times caused significant damage to coastal areas in Istanbul. Among the other threats, the Tsunamis caused by large submarine earthquakes, which are inevitable in Istanbul due to its location, affect the coastline in the creation of active tsunami areas. For these reasons, it is considered that these threats are irremediable. According to historical records, 25 of the 55 tsunami events affecting the coast of Turkey occurred in Istanbul Basin. Especially, 9 of these events were generated in the Mediterranean basin, and the rest events were generated in the Black Sea. These tsunami events caused significant damage to Istanbul in the past, and the Ministry of Culture and Tourism conducted the Istanbul Basin Tsunami Mitigation Project (Istanbul Basin Tsunami Mitigation Project, 2018) to date. Moreover, as a result of new experiments gained from the 2011 Tohoku-Oki and 2011 Tohoku-Oki Typhoon, tsunami disasters have been managed in both software and hardware technologies in numerical tsunami modeling tools. Based on these new developments, tsunami analyses were carried out in 2018 with high quality, and it was shown that it was necessary to evaluate and take action with regard to the Istanbul Basin's future tsunami events.

1. Stakeholder Analysis
   - Determination of the responsible institutions and organizations related to the evaluation of potential tsunami threats in Istanbul Basin
   - Identification of responsible institutions and organizations, and assets are expected to be assessed
   - Supporting a collaborative workshop for determining the potential impact of the Istanbul basin tsunami risk in bilateral
   - Determination of stakeholder surveys in order to prioritize the significant and non-sustainable high-risk levels that constitute the current risk.

2. Compilation of Scientific Studies – Summary of KAR
   - Compilation of all scientific studies related to the evaluation of potential tsunami threats in Istanbul Basin
   - Determination of potential tsunami threats in Istanbul Basin
   - Determination of tsunami-related studies and related topics
   - Determination of tsunami risk reduction measures

3. Lessons Learned from Past Tsunami Events
   - Compilation of the factors that determine level of losses, losses, and exacerbation of damage based on the Istanbul Basin’s tsunami risk

4. Risk Reduction Campaign – (Beginning from 2020)
   - Risk reduction efforts constitute the first step of the SUREIST Campaign. It is designed to increase the awareness of the Istanbul Basin’s residents and the general public through various measures such as education materials and events. The activities of the Istanbul Basin Tsunami Action Plan and the Istanbul Basin Tsunami Risk Reduction Campaign are presented in the Istanbul Basin Tsunami Action Plan. These activities are expected to increase public awareness and understanding of the risks associated with tsunami events.

5. Creation of Application Guidelines
   - Guidelines are designed for stakeholders to provide the necessary steps for each action.
   - The guidelines are designed for the implementation of the Istanbul Basin Tsunami Action Plan.
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   - Determination of the measures adopted by the institutions and organizations for reducing the tsunami-related risk, and the actions they have taken and the implementation guidelines
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7. Determination of Risk Reduction Actions and Implementation Areas
   - Determination of risk reduction actions and implementation areas
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8. Implementation of the Istanbul Basin Tsunami Mitigation Project
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9. Determination of the Istanbul Basin Tsunami Mitigation Project
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10. Istanbul Basin Tsunami Mitigation Project
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