

Earthquake Risk Transfer for Turkey

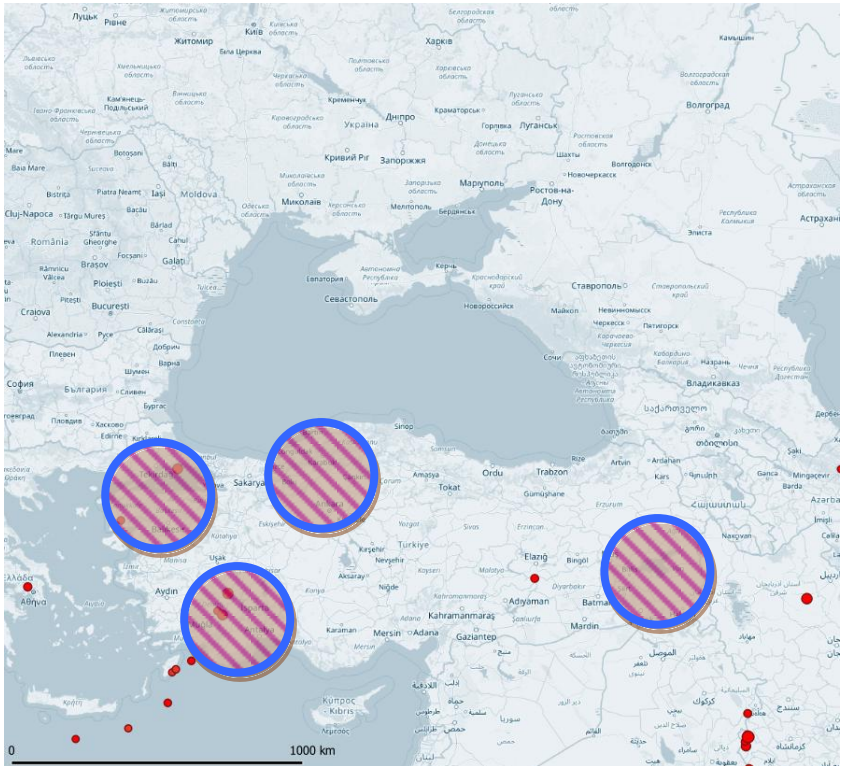


Figure 67. Earling undercover regions in Turkey.

Turkey is a seismically active area within the complex zone of collision between the Eurasian Plate and both the African and Arabian Plates. Much of the country lies on the Anatolian Plate, a small plate bounded by two major strike-slip fault zones, the North Anatolian Fault and East Anatolian Fault. The western part of the country is also affected by the zone of extensional tectonics in the Aegean Sea caused by the southward migration of the Hellenic arc. The easternmost part of Turkey lies on the western end of the Zagros fold and thrust belt, which is dominated by thrust tectonics. Earling has covered Turkey in



West, South West, North and the East of Turkey which is the high-risk region. Since 2018, most of the recent earthquakes near Ankara and South West, followed by an earthquake preparedness alert.

EPA Effect on Turkey Estimated Maximum Loss

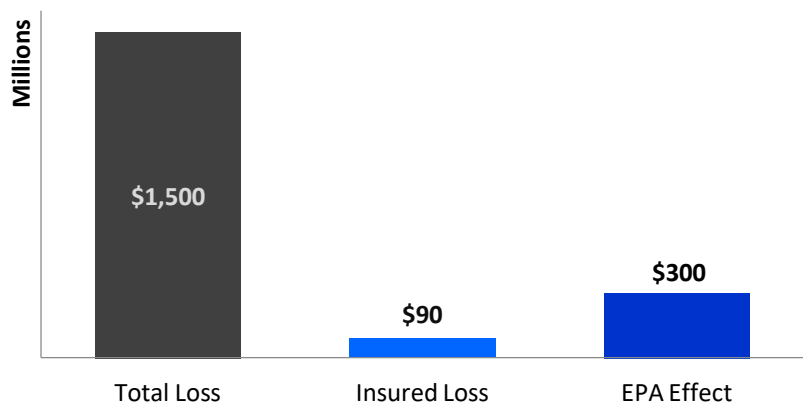


Figure 68. EPA effect on the 23 Oct 2011 Turkey earthquake insured losses.

EPA Effect on Turkey Penetration Rate

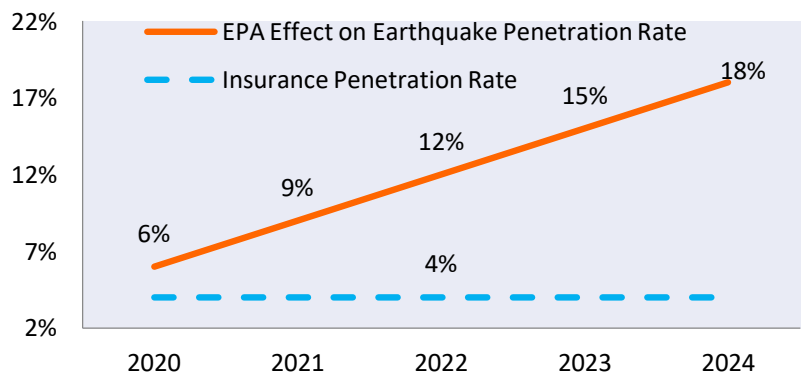


Figure 69. EPA's effect on the Turkey earthquake insurance penetration rate (SwissRe, 2012).



EPA Effect on Turkey Probable Maximum Loss

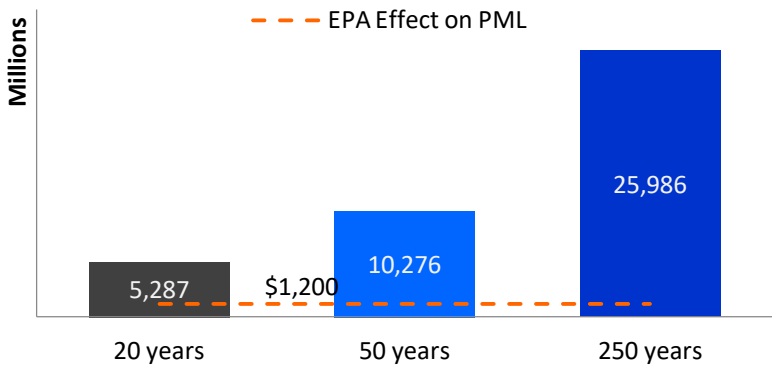


Figure 70. Probable Maximum Loss (PML) - Mean return period in years. Turkey earthquake Average Annual loss is \$2,200.39 million (Turkey Disaster & Risk Profile, 2014).

Turkey recent major earthquakes

Place	Date	Magnitude
Marmara Region	26-Sep-19	5.7
Mugla	21-Jul-17	6.6
Imbros	24-May-14	6.9
Van	23-Oct-11	7.2
Kütahya	19-May-11	5.8
Elâzig	08-Mar-10	6.1
Agri	02-Jul-04	5.1
Bingöl	01-May-03	6.4
Pülümür	27-Jan-03	6.1
Afyon	03-Feb-02	6.5
Düzce	12-Nov-99	7.2

