

# Earthquake Risk Transfer for Afghanistan

## Overview

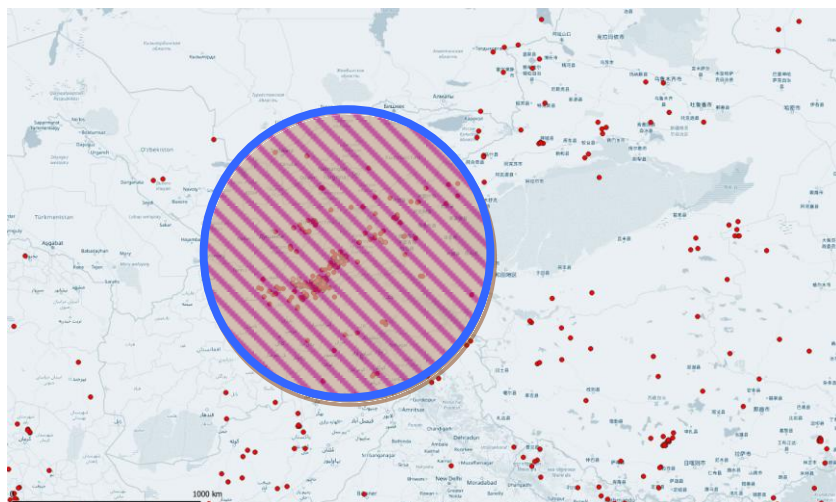


Figure 98. North East of Afghanistan is covered by Earling EPA.

Afghanistan is situated in a geologically active region of the world with an ever-present threat of strong earthquakes. The location of the country is on the boundary where two tectonic plates, the Iranian Plate and the Eurasian Plate, meet. To the south of Afghanistan, the Indian Plate moves northwards and to the north, the Eurasian Plate moves south-eastwards. The collision resulting from the movement of the plates has been underway for 50 million years. Due to this, Afghanistan is vulnerable to earthquakes. Both the Iranian Plate and the Eurasian Plate consists of continental crust, which can neither sink nor be destroyed. As a result, the rocks between the two plates are forced upwards to form mountains. The constant movement of the Iranian Plate increases pressure. The earthquake on February 4, 1998, was caused by this increase in pressure.



## EPA Effect on Afghanistan Earthquake Insured Loss

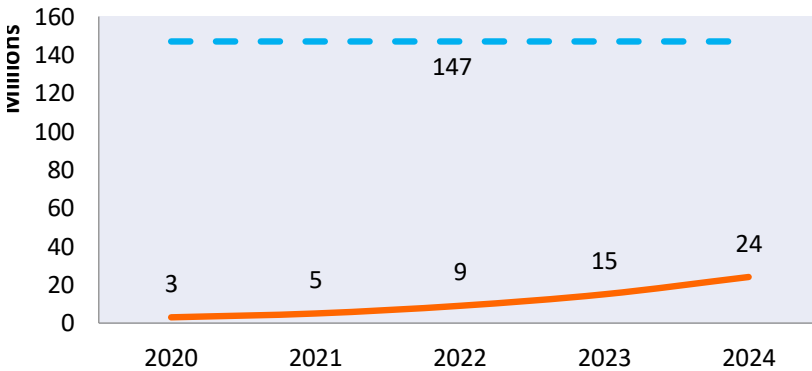


Figure 99. EPA effect on insurance average loss (26 October 2015 Badakshan Afghanistan and Pakistan Earthquake Disaster Risk Reduction Situation Report) (26 October 2015 Badakshan Afghanistan and Pakistan Earthquake Disaster Risk Reduction Situation Report, 2015).

## EPA Effect on Afghanistan Earthquake Insurance Penetration Rate

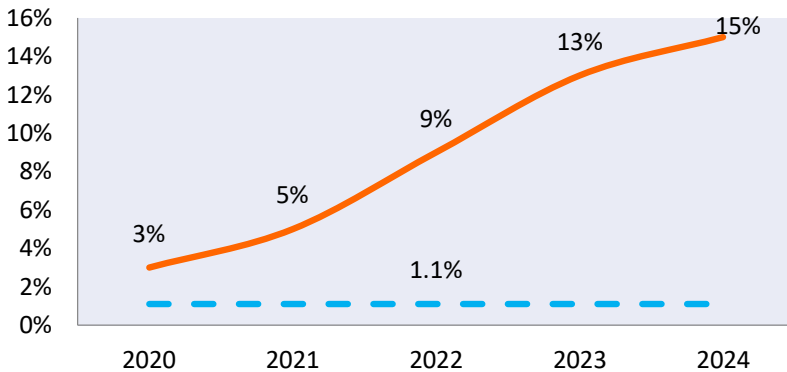


Figure 100. EPA effect on improving Afghanistan earthquake insurance penetration rate for the undercover region mostly in North East of Afghanistan.



## EPA Effect on Afghanistan Probable Maximum Loss

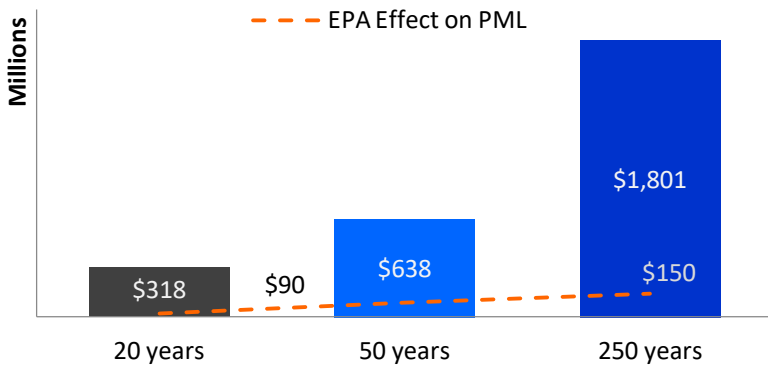


Figure 101. Probable Maximum Loss - Mean return period in years. EPA can help to expand the earthquake insurance penetration rate. But EPAs those are not supported by First Notice increases insurance loss. Afghanistan earthquake Average Annual Loss is \$146 million (Afghanistan Disaster & Risk Profile, 2014).

## Afghanistan recent major earthquakes

Place	Date	Magnitude	Severity
Hindu Kush	31-Jan-18	6.1 Mw	IV
Ishkashim	10-Apr-16	6.6 Mw	IV
Hindu Kush	26-Oct-15	7.5 Mw	VII
Jalalabad-Mehtar Lam	24-Apr-13	5.5	
Baghlan	11-Jun-12	5.4, 5.7	
Samangan	18-Apr-10	5.6	
Hindu Kush	22-Oct-09	6.2	
Near Kabul	16-Apr-09	5.2 Mw	V

