GAR 2015 Global Assessment Report on Disaster Risk Reduction

Country risk profile

UNISDR The United Nations Office for Disaster Risk Reduction

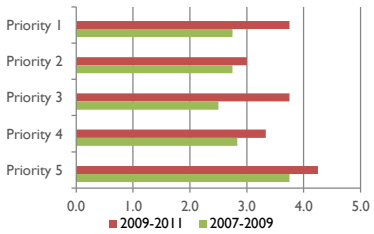
European Commission

THAILAND

East Asia and the Pacific

[16]

HFA progress



BASIC COUNTRY STATISTICS AND INDICATORS

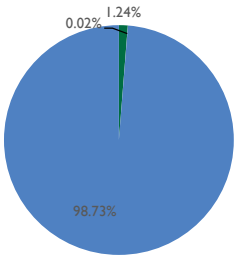
Population (million people)[1]	(2013)	67	GFCF - Gross Fixed Capital Formation (million US$)[1]	(2013)	103.524
Population density (People/km²)[1]	(2013)	131,2	Social expenditure (million US$)[3]		57.352
GDP-Gross Domestic Product (million US$)[1]	(2013)	387.252	Gross savings (million US$)[1]	(2012)	110.630
GDP per capita (US$)[1]	(2013)	5.779	Total reserves (million US$)[1]	(2013)	161.328
Capital stock (million US$)[2]	(2014)	1.378.999			

Risk drivers

Hazard Exposure			**Urbanization**		
Population growth (annual %)[1]	(2013)	0,34	Urban population growth (%)[1]	(2013)	3,0
GFCF (% GDP)[1]	(2013)	26,7	Pop living in slums (% of urban pop)[5]	(2009)	27
Poverty and inequality			Urban population (%)[1]	(2013)	47,9
GINI Index (0 - 100)[1]	(2010)	39,4	**Environment**		
Life expentancy at birth (years)[1]	(2012)	74,2	Ecological footprint (global hectares per capita)[6]	(2007)	2,37
Pov gap at national poverty lines (%)[1]	()	0,00	Environmental performance index (0 - 100)[7]	(2014)	52,8
Social expenditure (% GDP)[3]		14,81	Forest change (% - 2000-2012)[7]	(2012)	-2,5
Governance indicators			Freshwater withdrawals (% of internal resources)[1]	(2007)	25,5
Rule of law (-2.5 - 2.5)[4]	(2013)	-0,13	**Climate change**		
Government effectiveness (-2.5 - 2.5)[4]	(2013)	0,21	Electiricty production from renewable energy (% total)[1]	(2011)	2,81
Voice and accountability (-2.5 - 2.5)[4]	(2013)	-0,43	CO2 emissions (metric tons per capita)[1]	(2010)	4,45
Control of corruption (-2.5 - 2.5)[4]	(2013)	-0,33			

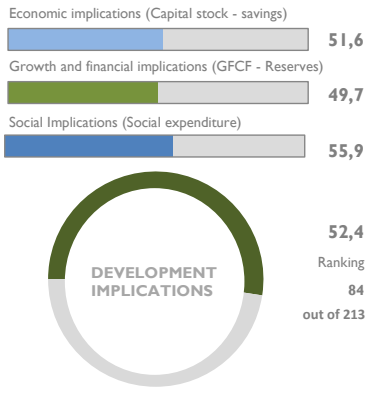
DISASTER RISK[8]

Average Annual Loss (AAL)[9] by hazard



Hazard	Value	AAL/Capital stock	AAL/GFCF	AAL/Social expenditure	AAL/Total reserves	AAL/Gross savings
	[million US$]	[%]	[%]	[%]	[%]	[%]
Earthquake	32,56	0,00	0,03	0,06	0,02	0,03
Cyclonic Wind	0,02	0,00	0,00	0,00	0,00	0,00
Storm Surge	0,10	0,00	0,00	0,00	0,00	0,00
Tsunami	0,53	0,00	0,00	0,00	0,00	0,00
Volcano		0,00	---	---	---	---
Flood[10]	2.586,19	0,19	2,50	4,51	1,60	2,34
TOTAL	**2.619**	**0,2**	**2,5**	**4,6**	**1,6**	**2,4**

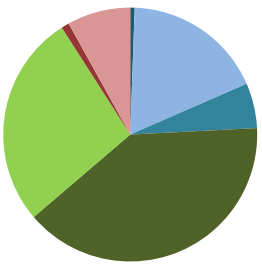
Risk and Development Implications[11]



Multihazard AAL results by sector (Earthquake and cyclonic wind)

Sector	Sub Sector	Capital stock [million US$]	Average Annual Loss (AAL) [million US$]
Residential (income)[12]	Low	18.658	0,26
	Middle low	256.804	8,24
	Middle high	103.016	2,64
	High	0	0,00
Services	Commercial	489.117	18,20
	Industrial	351.053	12,52
Education	Private	28.117	0,46
	Public	132.252	3,71
Health	Private	431	0,00
	Public	1.131	0,00
Public buildings		0	0,00
National		1.380.580	46,03
Fiscal[13]		152.041	3,97

Distribution by sector



Probable Maximum Loss - PML[14] (million US$)

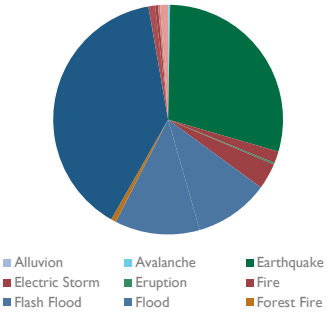
Hazard	Mean return period (years)[15]				
	100	250	500	1000	1500
Earthquake	545	1.422	2.630	4.527	6.017
Cyclonic Wind	0	0	0	0	0
Storm Surge	3	4	4	5	5
Tsunami	0	3	13	48	138

Earthquake — Storm Surge — Tsunami — Cyclonic wind

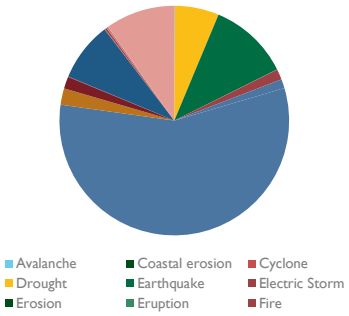
DISASTER LOSSES[17]

INTERNATIONALLY REPORTED LOSSES

Mortality



Total damages ('000 US$)



10-year moving average

2005 - 2014

DataCards	105
Deaths	11.573
Economic Losses	46.213.101

1 World Bank Development indicators. http://data.worldbank.org/ More information can be found in "Indicators definitions and sources".

2 Global Exposure Database 2014. Di Bono (2014)

3 International Labour Organisation, ILO: Total Social Protection expenditure (2011), Public Health Care expenditure (2011), World Bank Development indicators, Public Education expenditure (2012)

4 World Bank Governance indicators. http://data.worldbank.org/

5 Indicadores de los Objetivos del Desarrollo del Milenio http://mdgs.un.org/unsd/mdg/SeriesDetail.aspx?srid=710

6 Global Footprint Network www.footprintnetwork.org

7 Environmental Performance Index, Yale Center for Environmental Law and Policy, Yale University and Center for International Earth Science Information Network (CIESIN), Columbia University http://epi.yale.edu

8 UNISDR Global Risk Assessment 2015. This section is based on technical countries risk profiles : World summarized catastrophe risk profiles: summary by country on the results from the Global Risk Model, CIMNE&INGENIAR (2015).

9 AAL: The Average Annual Loss is the expected loss per annum associated to the occurrence of future perils assuming a very long observation timeframe. It considers the damage caused on the exposed elements by small, moderate and extreme events and results a useful and robust metric for risk ranking and comparisons.

10 AAL Flood results are provisional. These results give an overview of the risk associated with river flooding. Factors other than the deth of the water also have a considerable influence on loss, which means that there is greater uncertainty compared with other hazards.

11 Risk and development implications index. This index is useful to provide a ranking of the countries based on the ratio of the expected Average Annual Loss (AAL) with relation to a set of relevant macroeconomic, financial, and social development variables. It attempts to reveal the weight of the AAL with respect to the social expenditure, the capital formation (domestic investment) and reserves (financial capacity), and the produced capital or capital stock (assets at risk) and savings (treasury) of each country. It reflects, in adverse conditions, growth and social constraints for the country as a result of potential future disasters.

12 The fiscal portfolio is composed by the government buildings, public education and health buildings, and low income residential private buildings.

13 PML: The Probable Maximum Loss (PML) is a risk metric that represents the maximum loss that could be expected, on average, within a given number of years. PML is widely used to establish limits related to the size of reserves that, for example, insurance companies or a government should have available to buffer losses: the higher the return period, the higher the expected loss. PML always have associated a mean return period.

14 Mean return period of 100, 250, 500, 1000 and 1500 years means the 5%, 2%, 1%, 0.5% and 0.3% probability respectively of exceeding those losses in 5 years.

15 Residential buildings are classified according to the population by income level, using the GINI curve for income distribution and the countries classification limits from the World Bank. See CIMNE et al. 2013a

16 Source: OCHA/ReliefWeb. ochavisual@un.org

17 D. Guha-Sapir, R. Below, Ph. Hoyois - EM-DAT: International Disaster Database – www.emdat.be – Université Catholique de Louvain – Brussels – Belgium.