

Human Factors	Physical Factors		
Nepal is an extremely poor country and therefore cannot afford to build earthquake resistance homes Poor leadership in the country means they have poor preparedness	Nepal is the 11th most earthquake prone country in the world Nepal lies on a convergent plate boundary where the Indian plate is being subjected beneath the overriding Eurasian Plate. The area is very mountainous with the Himalayas making landslides a secondary hazard. Terrain makes the reliefs efforts harder, especially remote, isolated locations		

TECTONIC HAZARDS

Explore: how the effective management of hazards is dependent on a range of factors.

Research: the management of a range of hazardous events in both developed and developing countries.

CASE STUDY: April 2015 Nepal Earthquake

Level of economic development: (Low income, developing country)

GDP US\$: \$21.195 billion GDP US\$ per capita: \$743.323 HDI: 0.558 Population: 28,513,700

Source: World Bank Data

Background Information

- A magnitude 7.8 earthquake struck on the 25th April 2015
- The earthquake occurred at a depth of 15km, and was 80km northwest of Kathmandu.
- The Kathmandu valley was raised by 1m and the Kathmandu itself was raised by 80cm

		Factors influencing the management	of this hazardous event		
Link to Model	BEFORE (modify human vulnerability, modify the event, modify the loss)	DURING (modify the loss)			AFTER (modify the event, modify human vulnerability, modify loss)
Parks (1991)	Pre-Disaster¹	Relief ¹	Rehabilit	tation ¹	Reconstruction ¹
Disaster Management Cycle (Warfield, 2008) Expand-Contract Model	¹ Despite the earthquake having a high magnitude, only 9,000 people were killed with 23,00 injured. This indicates that the buildings were sturdier than expected. ² In order to modify the event many hospitals in Nepal were retrofitted with seismic belts and roof bracings. This prevented collapse in the earthquake and meant that they could continue to provide healthcare after the quake.	 After the earthquake the immediate response came from people in damaged areas helping to remove people from the rubble. 125,000 ex-servicemen from the Gorkha regiments army were recalled from rescue operations The government made an international relief appeal and release 500 Nepal rupees for relief. Specialist teams with health kits were deployed with help from the WHO, as well as food to remote areas The relief efforts were majorly hampered by landslides from the earthquake as well as bad weather making remote villages inaccessible. 	Rehabilitation ¹		- One of the main aims for Nepal is to build resilience in its economy and governance so that the vulnerability in the country is removed In order for Nepal to be better protected there are three main things that need to be embedded in their reconstruction: - the development a better, more extensive seismic network as well as landslide mapping tools - Enforcement of building codes so that buildings are more resilient to ground shaking. This links to educating people better about how to build earthquake proof homes - Greater control by the government of the buildings, especially on marginal land and unsafe land areas. Finally Nepal needs to adopt a 'Build Back Better' strategy so that the new buildings built are more resistant to earthquakes
DRE Disaster Risk Equation	Frequency/magnitude of the hazard¹	Level of vulnerability ¹		Capacity of the population to cope ¹	
Degg Model, (1992)	Nepal is the 11th most earthquake prone country in the world so therefore is used to frequent earthquakes.	Many people living in Nepal are living in poverty meaning that they have little funds to help protect themselves during an earthquake. There is also gender inequality in the country. As males move out of the country it leaves women to shoulder responsibility. The inequality though means that they are not educated enough to do so.		The population of Nepal has poor capacity to cope as they have little preparedness strategies in place in order to respond to a major disaster	
				Nepal also have poor governance meaning that in the event of a disaster the country is not equip to deal with the disaster.	



² (no author given) 2015, <u>un.org</u>, Nepal's emergency preparedness saved lives in earthquake aftermath – UN health agency







