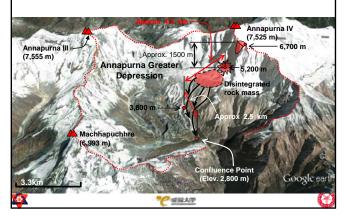
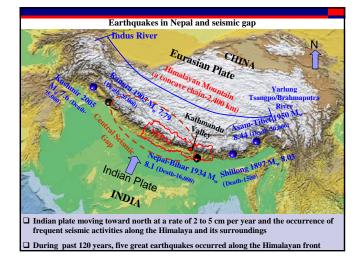




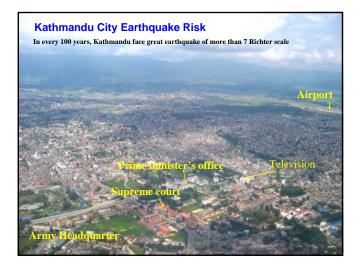
Illustrated Derbis-Flood Mechanism

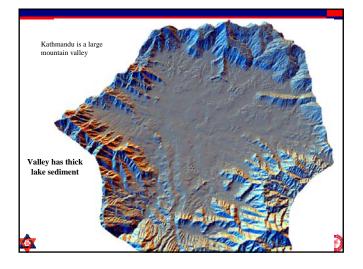


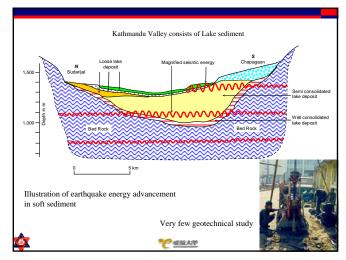


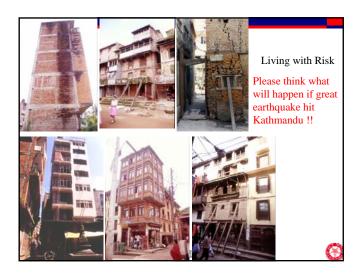


	d after BCDP, 1			1		urround		-	
Earthquakes of Magnitudes in Richter Scale No. of Events				41	6 to	•	7 to 7.5	7.5 to 8	> 8 1
					17				
Approximate Recurrence Interval, yr.				2	5		8	40	81
b. Past e	arthquakes and	damage record	ds					-	1
Year	Epicenter	Magnitude	Deaths			Houses Destroyed			
1934	East Nepal	8.1 (M _W)	8,519 people died out of			Over 200,000 buildings and temples etc.			
			which 4,296 died in Kathmandu Valley alone			damaged, about 55,000 buildings affected in Kathmandu Valley (12,397 completely			
			Kathma	andu valley al	one	destro		ey (12,397	completely
1936	Annapurna	7.0 (M _I)	Record not available			Record not available			
1954	Kaski	6.4 (M _L)	Record not available			Record not available			
1965	Taplejung	6.1 (M _L)	Record not available			Record not available			
1966	Bajhang	6.0 (M _L)	24			6,544 houses damaged (1,300 collapsed)			
1980	Chainpur	6.5 (M _L)	103			25,086 buildings damaged (12,817			
						completely destroyed)			
1988	Udayapur	6.5(ML)	721			66,382 buildings damaged			
2011	Sikkim/	6.9(ML)	6 died and 30 injury			14, 544 house damaged (6, 435 completely			
	Nepal		(2 died in Kathmandu			destroyed)			
	border		valley alone) t Magnitude						





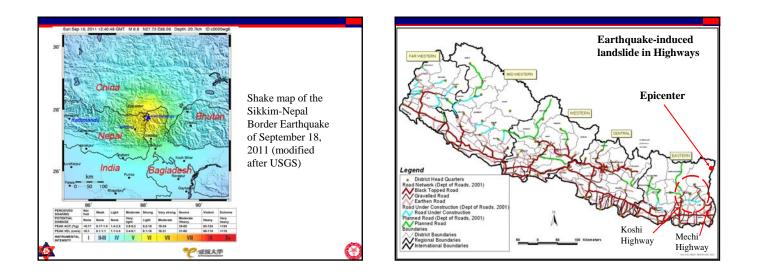










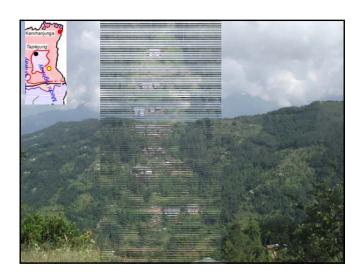






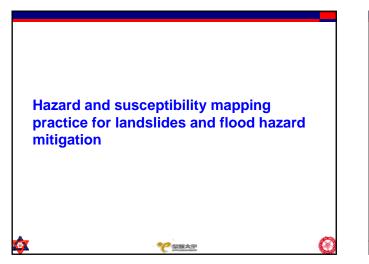


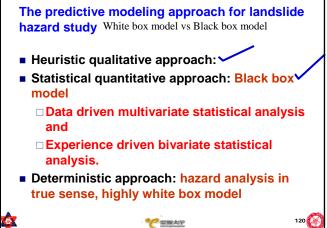




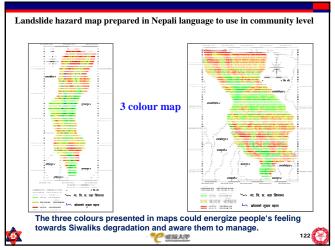


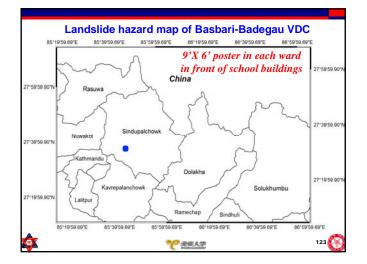




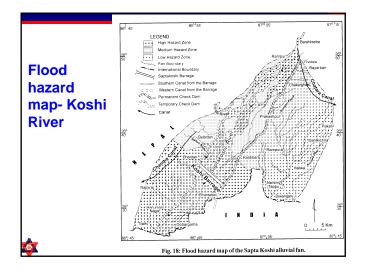


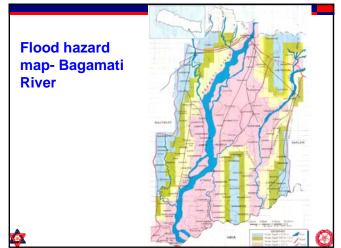


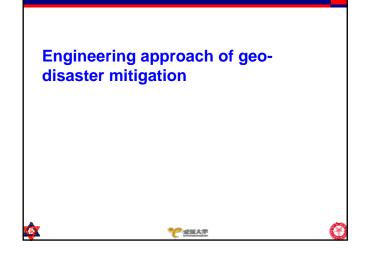




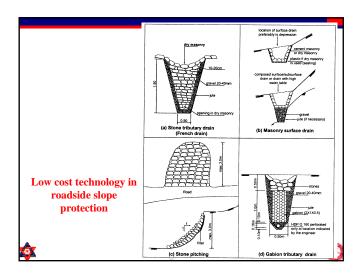




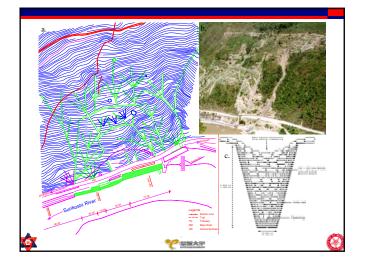








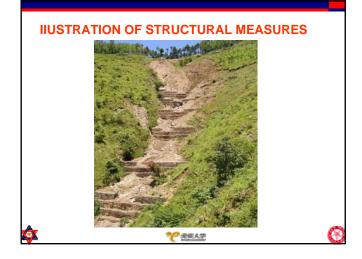


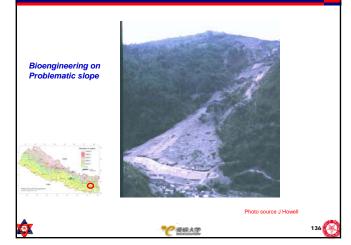




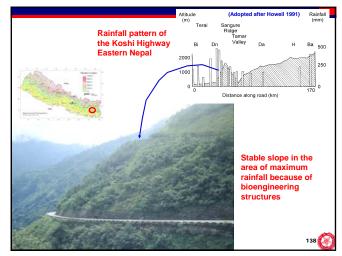


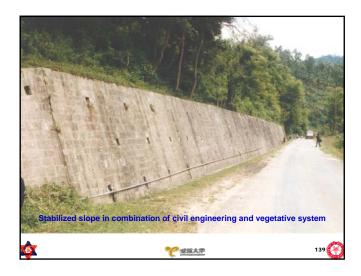










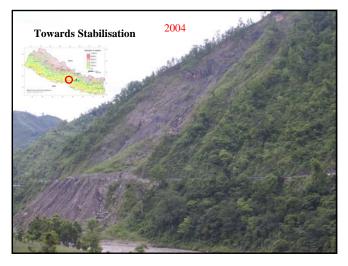






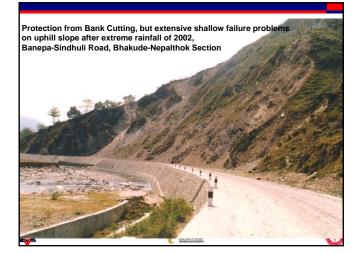


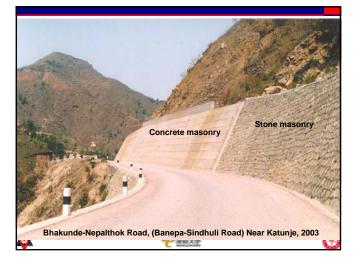




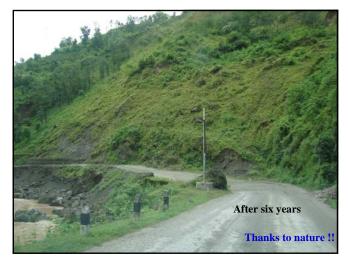




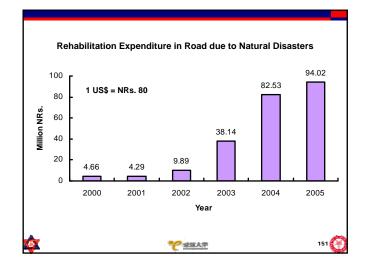








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Concluding remarks

- Highly dynamic physical processes dominate the mountainous terrain of Nepal, and therefore, mitigating geo-disaster is a challenge.
- Monsoon rainfall is the main trigger of landslides and floods in Nepal
- Construction, maintenance and rehabilitation of infrastructure under the unique Himalayan condition require innovative and more pragmatic approach compared to less critical terrains in other parts of the world.
- Land management code should be implemented in coordination with landslide and flood hazard zonation map of the area
- "Low cost" infrastructure is not always right for low income countries like Nepal

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Concluding remarks contd. Over the years, Nepal has gained both good and bad experiences in geo-disaster mitigation: □ in design and survey of geo-disaster mitigation programs, □ in the fields of hazard and risk assessment, □ in low cost rural road engineering – how much bad and how much good in community based river training work, and □ in slope maintenance incorporating indigenous techniques. The governmental agencies involved in geo-disaster management must change their status from implementer to facilitator. Thank you very much for Government should enhance institutional capacity building at local level to enable local bodies to undertake the immense responsibility of geo-disaster mitigation. your kind attention !! Positive people perception for geo-disaster mitigation and community participations in mitigation program are very important for geo-disaster management in Nepal *****

