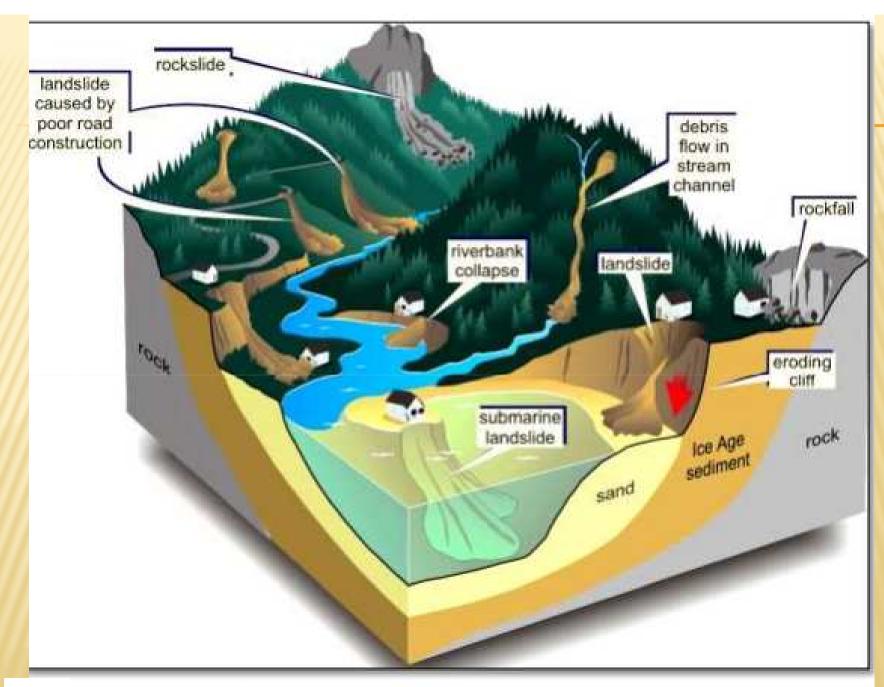
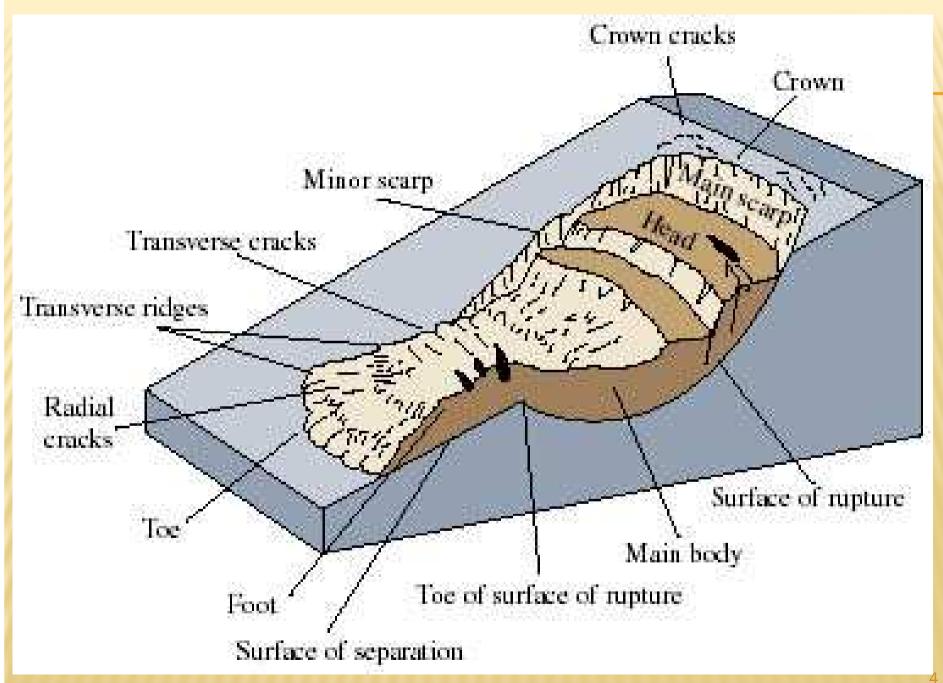
CLASSIFICATION OF LANDSLIDE

LANDSLIDE

- *The term "landslide" describes a wide variety of processes that result in the downward and outward movement of slope-forming materials including rock, soil, artificial fill, or a combination of these.
- The materials may move by falling, toppling, sliding, spreading, or flowing.

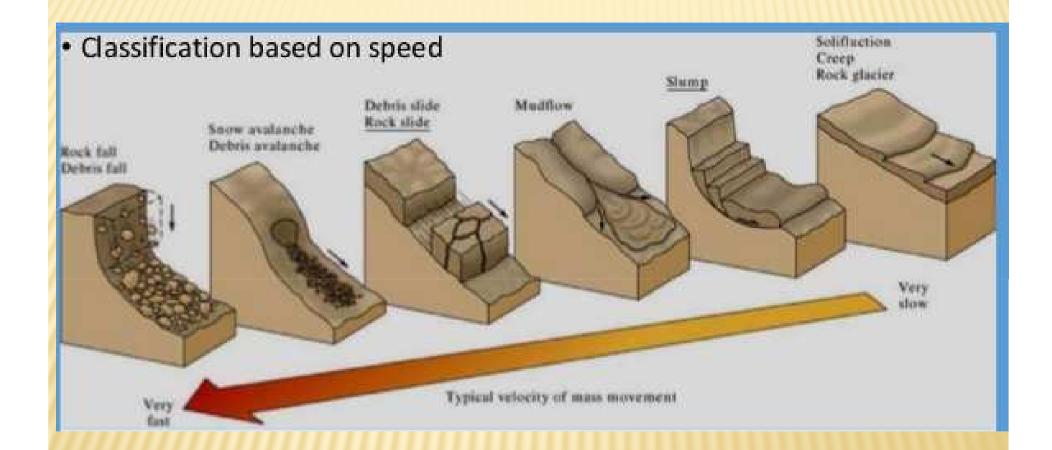


Landslide in hilly terrain (Source: http://web.viu.ca/geoscape/images/landslides.jpg



CLASSIFICATION???

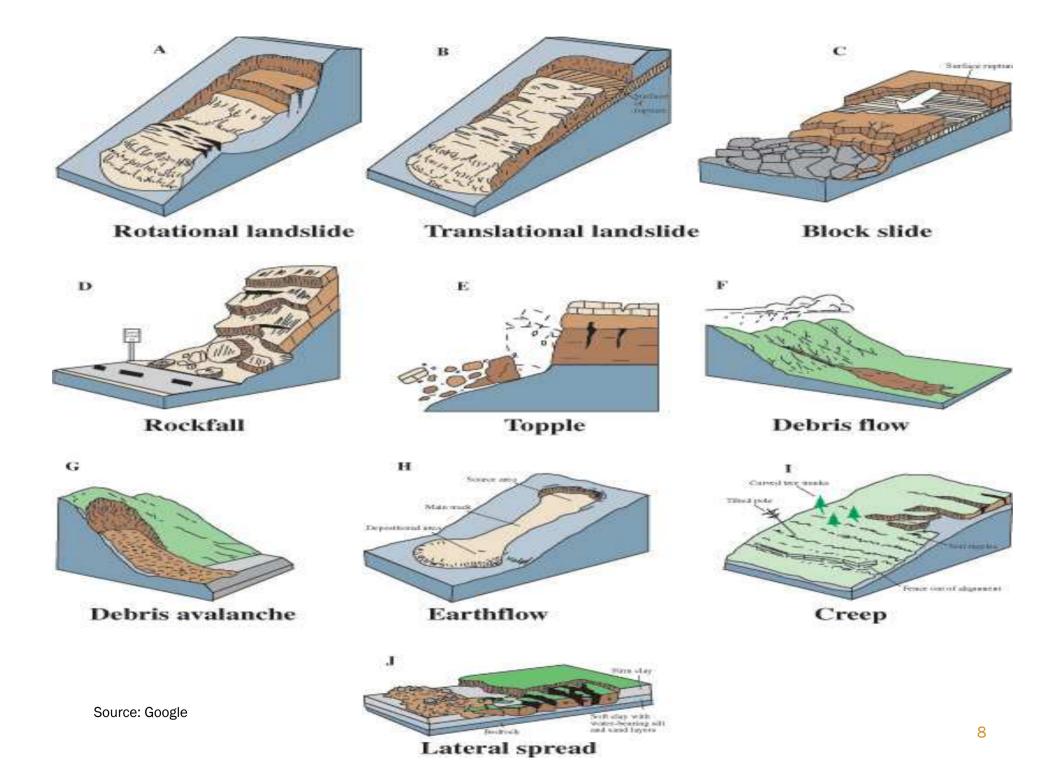
- The various types of landslides can be differentiated by the kinds of material involved and the mode of movement.
- Other classification systems incorporate additional variables, such as the rate of movement and the water, air, or ice content of the landslide material.



Classification of Landslides suggested by Varnes (1978)

Type of movement			Type of material		
Bedrock				Engineering soils	
				Predominantly coarse	Predominantly fine
Falls			Rock fall	Debris fall	Earth fall
Topples			Rock topple	Debris topple	Earth topple
Slides	Rotational	Few units	Rock slump	Debris slump	Earth slump
	Translational	Many units	Rock block slide	Debris block slide	Earth block slide
Lateral spreads			Rock slide Rock spread	Debris slide Debris spread	Earth slide Earth spread
Flows			Rock flow (deep creep)	Debris flow	Earth flow (soil creep)
Complex Combination of two or more principal types of movements					

Source: Google



CATEGORIES OF LANDSLIDES IN INDIA BY NIDM

- *CATEGORY I: Landslides of large dimensions that is located over or in close vicinity of inhabited areas like urban settlements or fairly large rural settlements. Activity on these slides can result in loss of human lives, dwellings on large scale.
- CATEGORY II: The landslides that may occur on the fringes of inhabited areas and result in limited loss of life and property.

- *CATEGORY III: Landslides which are fairly large and affect infrastructural installations like strategic and important highways and roads, rail routes and other civil installations like various appurtenant structures of hydroelectric and irrigation projects
- CATEGORY IV: Landslides of small dimensions that occur away from habitations and do not affect either humans or their possessions.

Source: Google 10