



Landslides in Sri Lanka

Nearly 20% of the land area from 65,000Sq. km of total area in Sri Lanka was identified as landslide prone. These landslide prone areas are spread over in Badulla, Nuwara Eliya, Kandy, Matale, Ratnapura, Kegalle, Kalutara, Galle, Matara and Habantota districts.

NBRO-LSSI

Due to bad land use practices, Cutting failure incidents are increasing at Gampha and Colombo districts



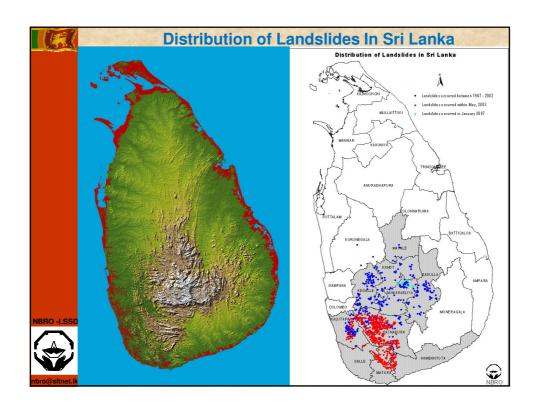
Present Situation of Landslides in Sri Lanka

Incidences and frequency of Landslides are growing. The present landslide density is estimated to be on the order of 1-2 landslides per sq.km

Each and Every rain it is common to have a one or two landslides or cutting failures.

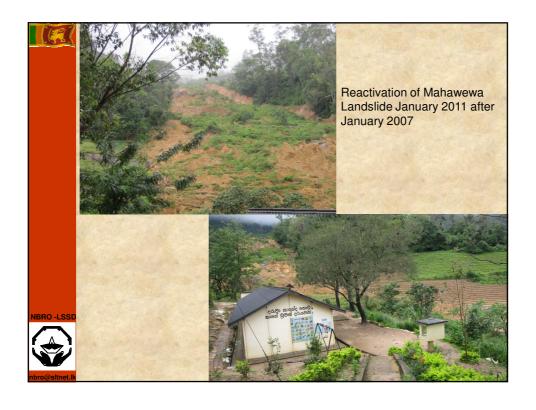
Landslides in Sri Lanka occurs due to natural causes as well as due to man made causes

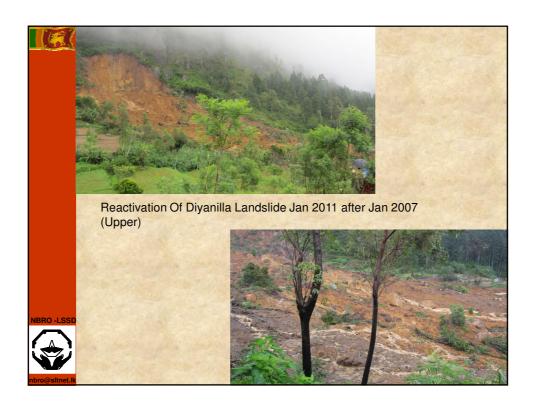


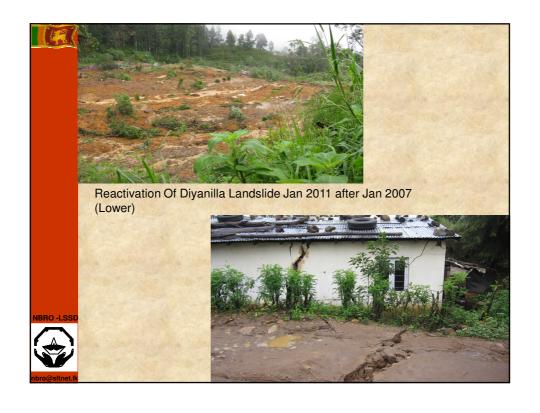


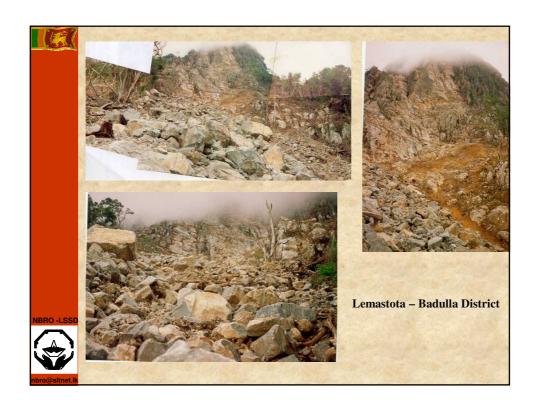


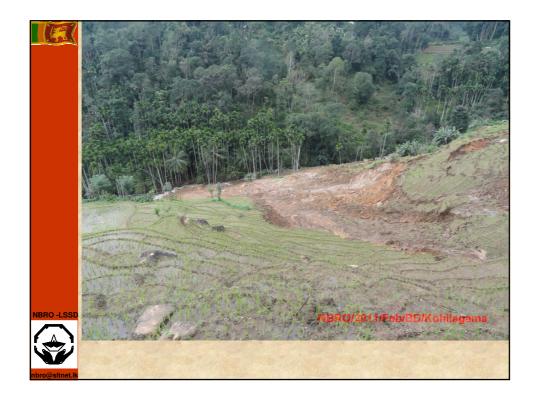








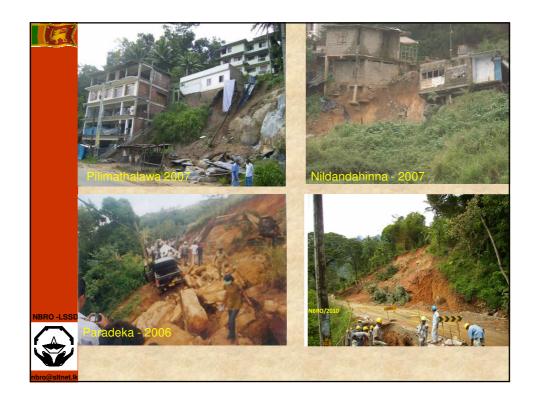




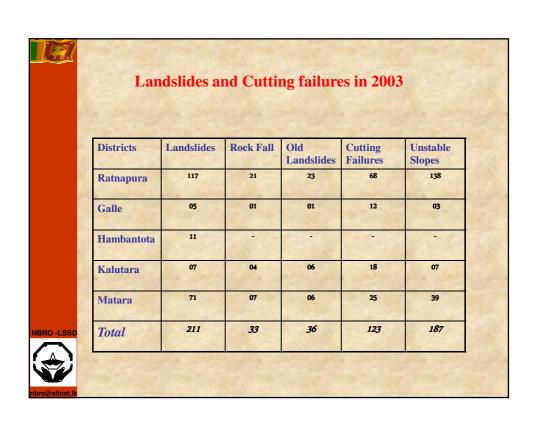




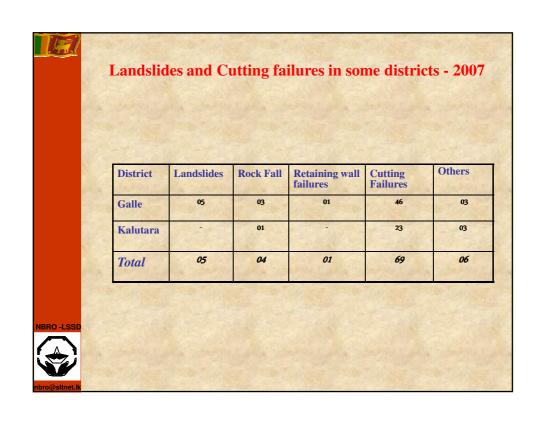


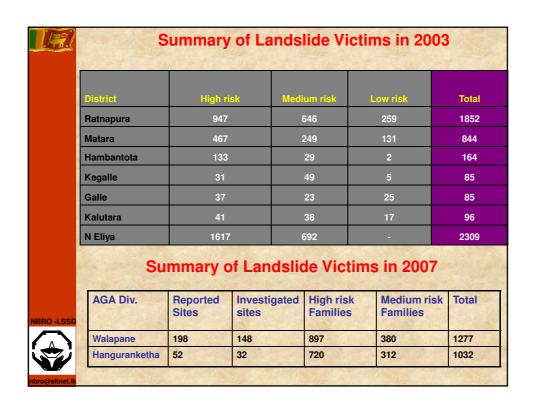


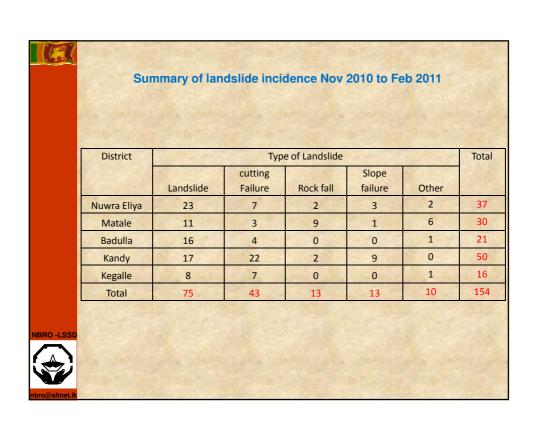




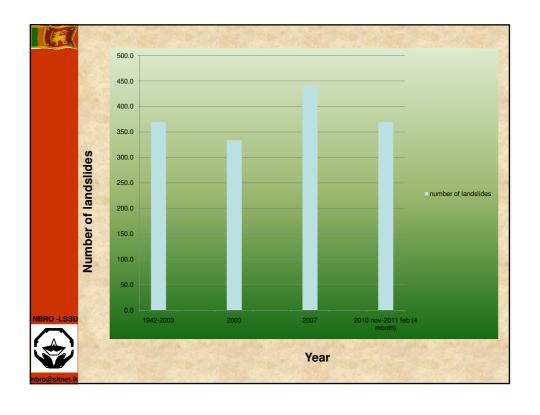


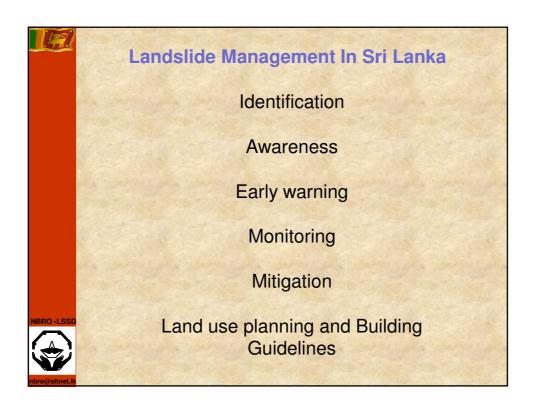


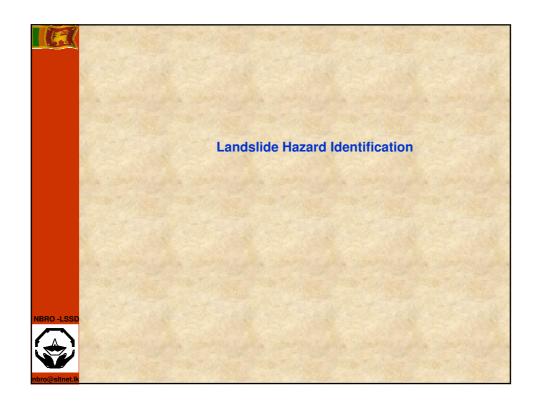


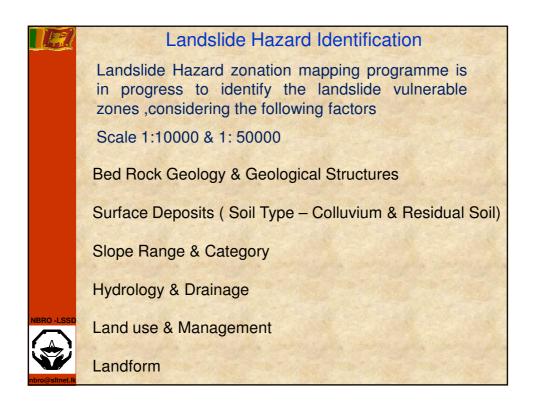


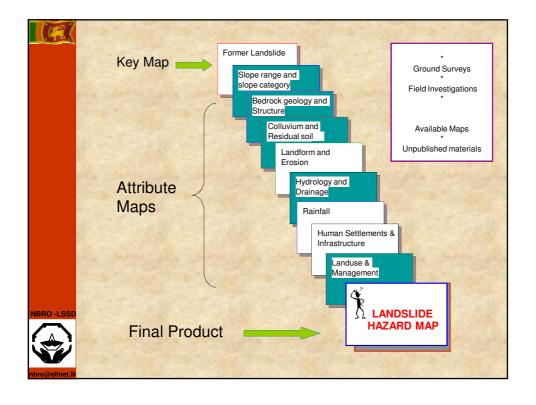
Four people of	died due to lands	slide incidents	
Divisional	No of Landslide	No of families in high	No of families in
Secretariat	events	hazard area	Medium hazard
Galigamuwa	33	36	54
Bulatkohupitiya	07	24	00
Kegalle	06	00	01
Warakapola	17	08	08
Deraniyagala	03	04	05
Dehiowita	03	01	00
Yatiyantota	06	05	06
Total	75	78	74

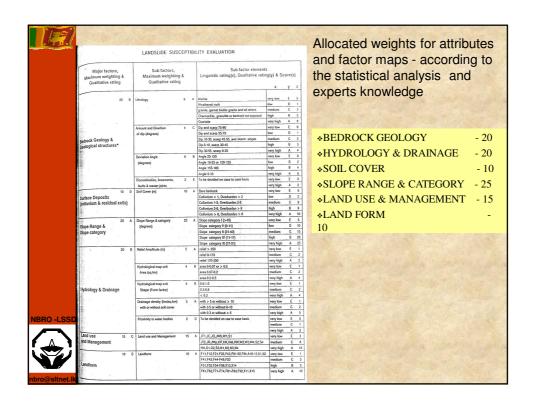




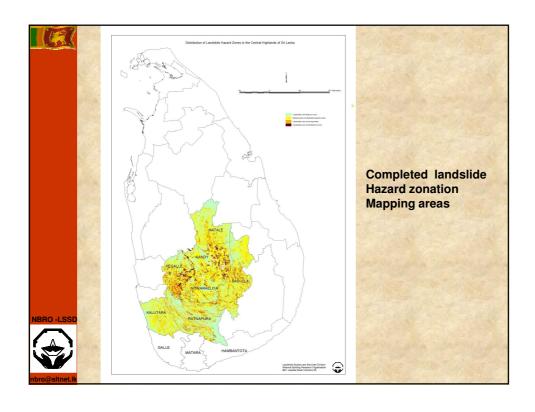


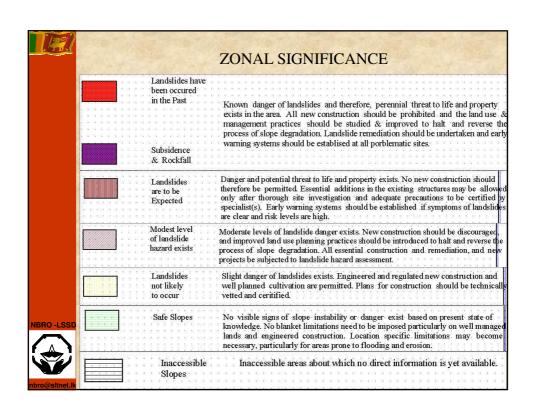


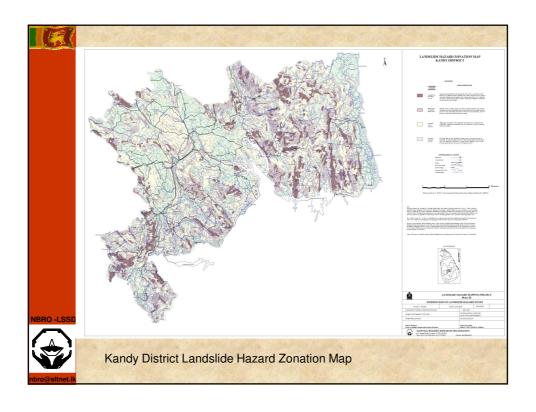




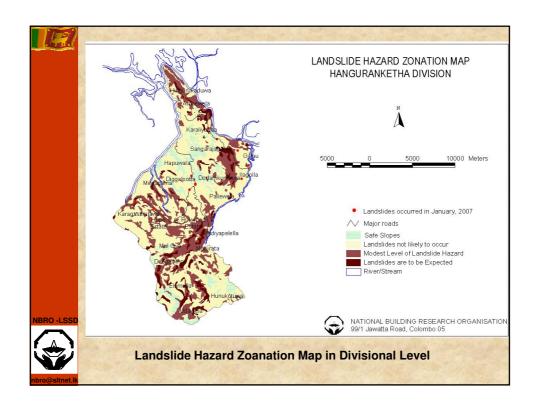


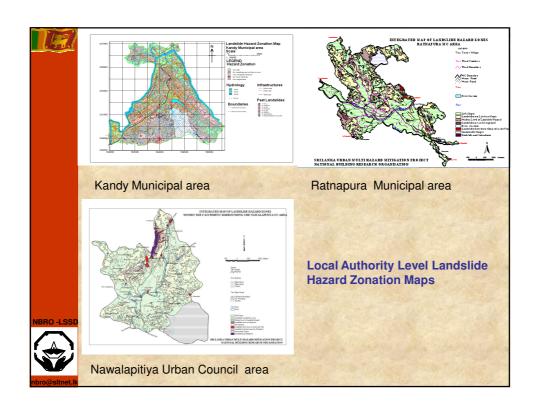


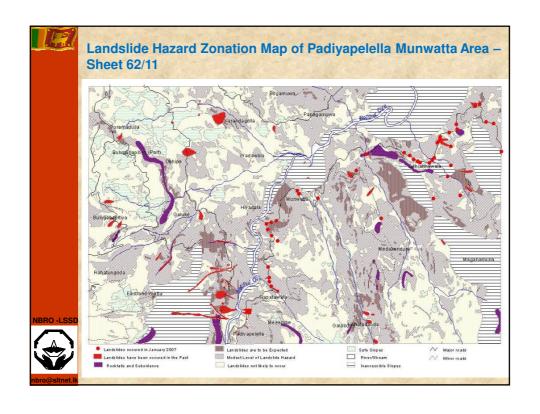


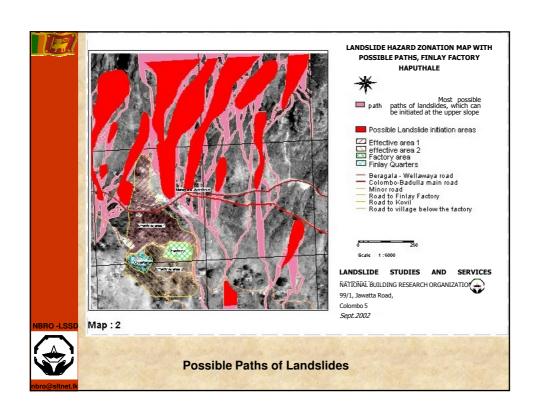


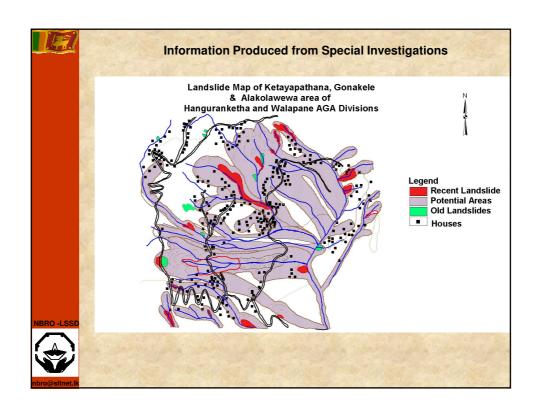








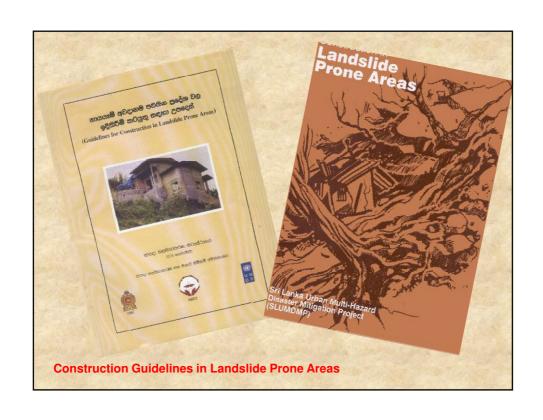
















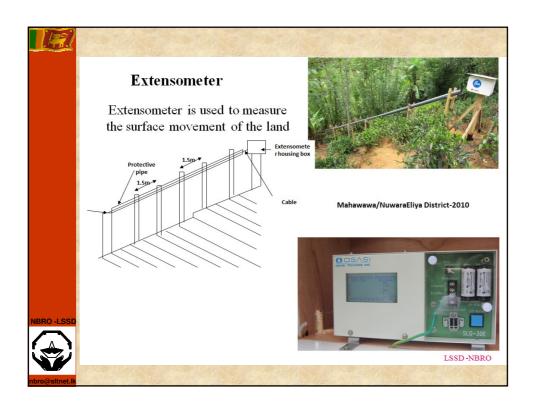


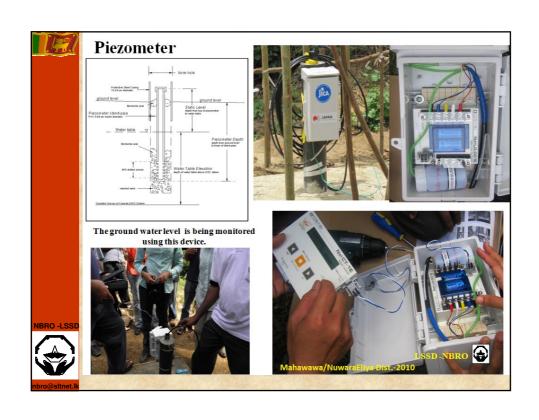


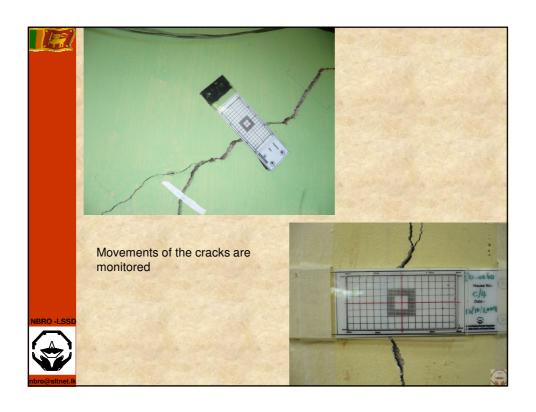








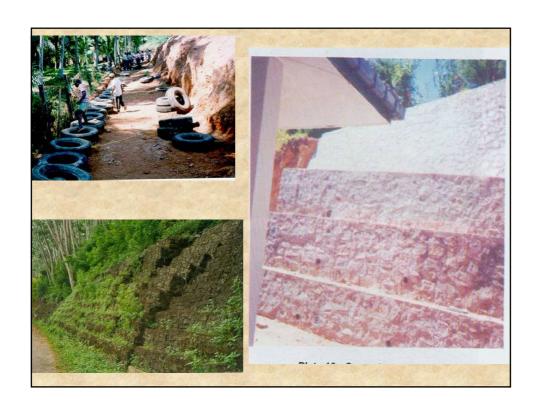






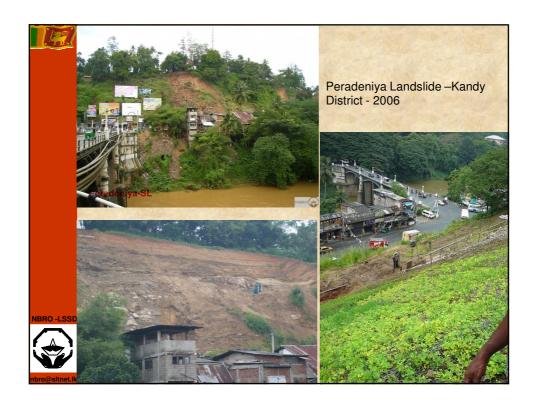










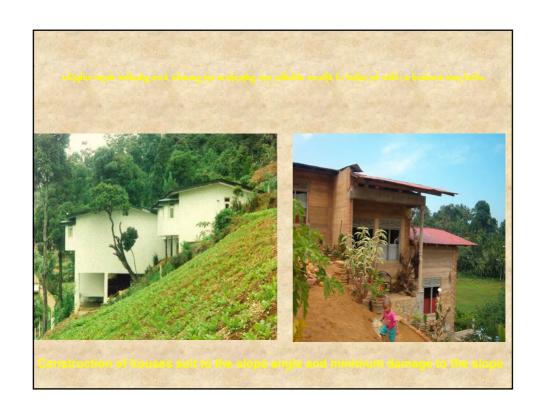








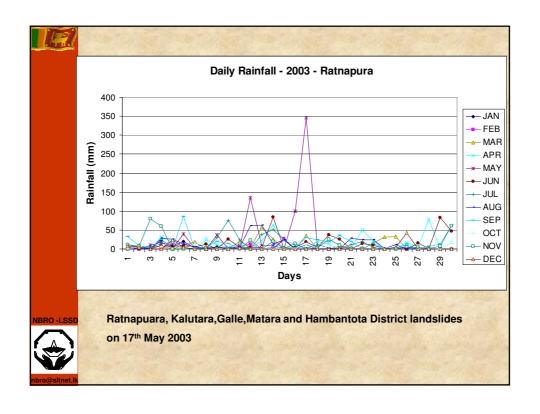


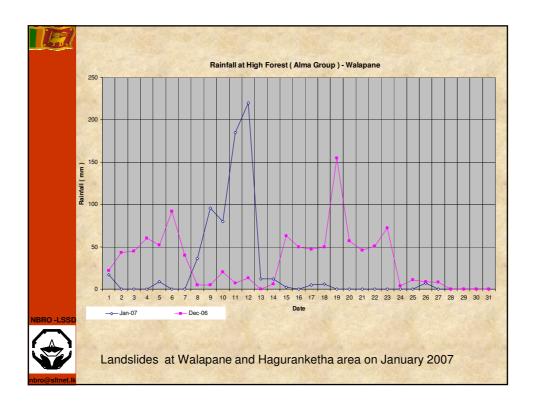














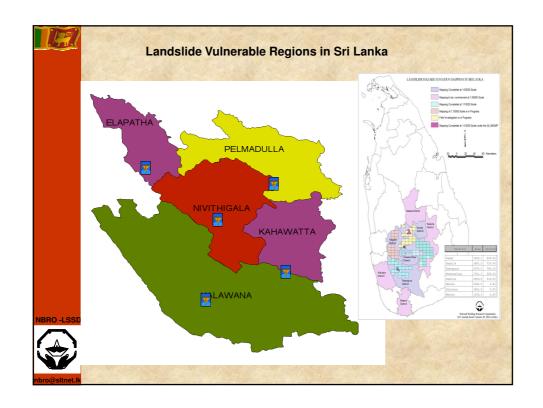
Real time forecasting/ Warning from the Landslide Hazard Zonation Maps

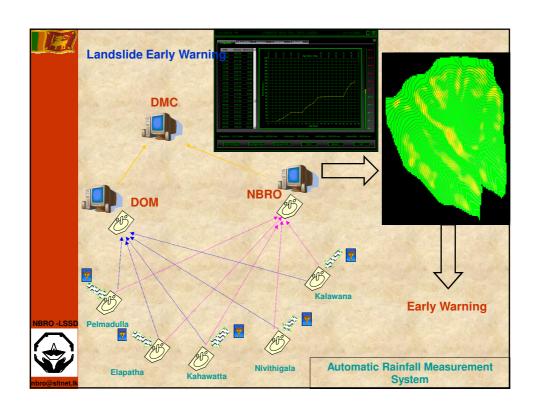
Introduction of an additional layer on real time precipitation rates

From this development we hope to achieve

- a. A much accurate improved real time location specific forecasting
- b. Identify safe locations and evacuation routes for victims



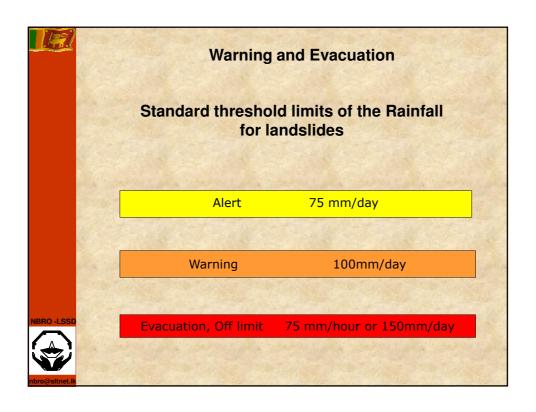




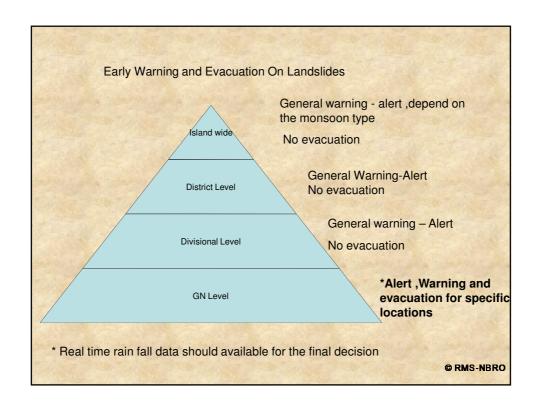


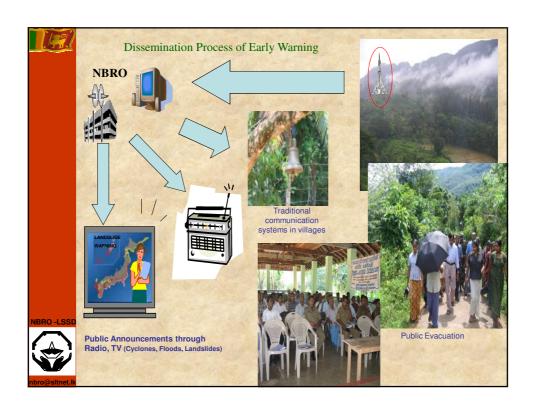


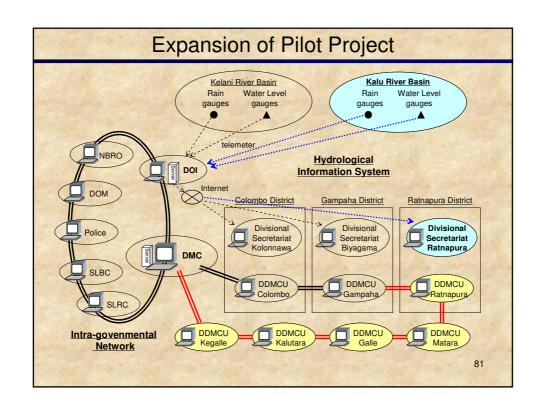














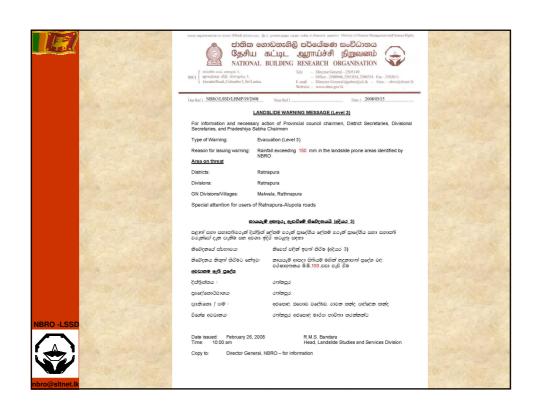
Early Warning (Technical Agency) Part 1

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Early Warning (Technical Agency) Part 1

According to the Met dept., Walapane Divisional secretariat area of NuwaraEliya District has received more than 70mm of rainfall during the past 24 hours. According to the studies carried out by the National Building Research Organisation, there is a threat of landslide occurrences in Galaboda, Hegasulla, Katandura, Udamadura, and Walapane Grananiladari divisions. If the rain continues during the next few hours, Divisional secretaries, Municipal Councils Chairman, Grama Niladaries should follow the instructions given by NBRO









SOP 2 (A) NBRO - Meteorological Department, Divisional Secretaries, Chairpersons of Pradeshiya Sabha, Grama Niladhari, DMC Coordinators

NBRO should create awareness among above stake holders on how to read and use landslide hazard zonation maps to locate areas with higher landslide potential

NBRO should educate the communities of safe areas and suitable evacuation routes to be used during an evacuation.

NBRO should make communities aware of identification of pre warning signals of landslides

Met Department should make communities aware on installing a simple rain gauge and measuring rainfall using such rain gauges





SOP 2 (B) NBRO - Meteorological Department, Divisional Secretaries, Chairpersons of Pradeshiya Sabha, Grama Niladhari, DMC Coordinators

As soon as NBRO issues Part 1 of Early Warning, above officers should pay special attention to the areas as identified as high or medium potential to landslides for any development of pre warning signals

Continue to measure rainfall using a simple rain gauge



If rainfall reaches 100 mm, inform the communities to get ready for evacuation under a short notice If rainfall reaches 150 mm, evacuate the people to safer locations



