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Issues concerning the landslide risk management: the case of Capo Noli

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This work is dedicated to the study of the problems frequently encountered in the hydrogeological risk management related to landslides characterized by a certain degree of predictability. In particular, it focuses on the case of the Capo Noli, which is located along the S.S. 1 "Aurelia", in the Province of Savona and in recent decades has been affected by numerous landslides of diverse entities, but attributable to the same mechanisms of instability:

- 1. May 1989: at entrance of Capo Noli gallery, West side, large rock-fall closed for the long term viability always in the Capo Noli Malpasso.
- 2. July 1994: at the Hotel Capo Noli, placed East area investigated, the presence of boulders on the roadway without sensitive interruption traffic.
- 3. November 1997: at entrance of Capo Noli gallery, West side, falling rocks and stones on the road without sensitive interruption traffic.
- 4. December 2000: at the entrance of the same gallery, two events with falling rubble and stones.
- 5. May 2002: large rock fall at Malpasso with interruption of the road a few days and the consequent intervention of the utmost urgency.
- 6. January 2008 and March 2009: large rock fall on the roadway in the Capo Noli with interruption of the road a few months and the consequent intervention of consolidation slope.

The events above described are attributable to landslides like Rock Fall: the only fortuitous coincidence has avoided that during the events were involved cars or road users, taking into account that the road Aurelia at the point in question often reach very high values of traffic, well over three million vehicles per year.

In this paper we analyze the costs and the inconvenience caused in the twenty years under analysis, focusing on what could have been done to contain these discomforts and such expenses in view of the fact that the disasters that are repeated over time, given the cyclical nature of the events, could largely be predicted.