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**TERRACED SLOPE INSTABILITY:
CONTROLLING FACTORS
FOR THE RISK DEFINITION AND EVALUATION**

ALPTER

Terraced Landscapes of the Alpine Arc



MEETING INTERNAZIONALE

3-4 Novembre 2005 Sondrio (SO) – Italy



Strada dei Vini - SO

Foto Vaccari - Teglio



Sassella - SO

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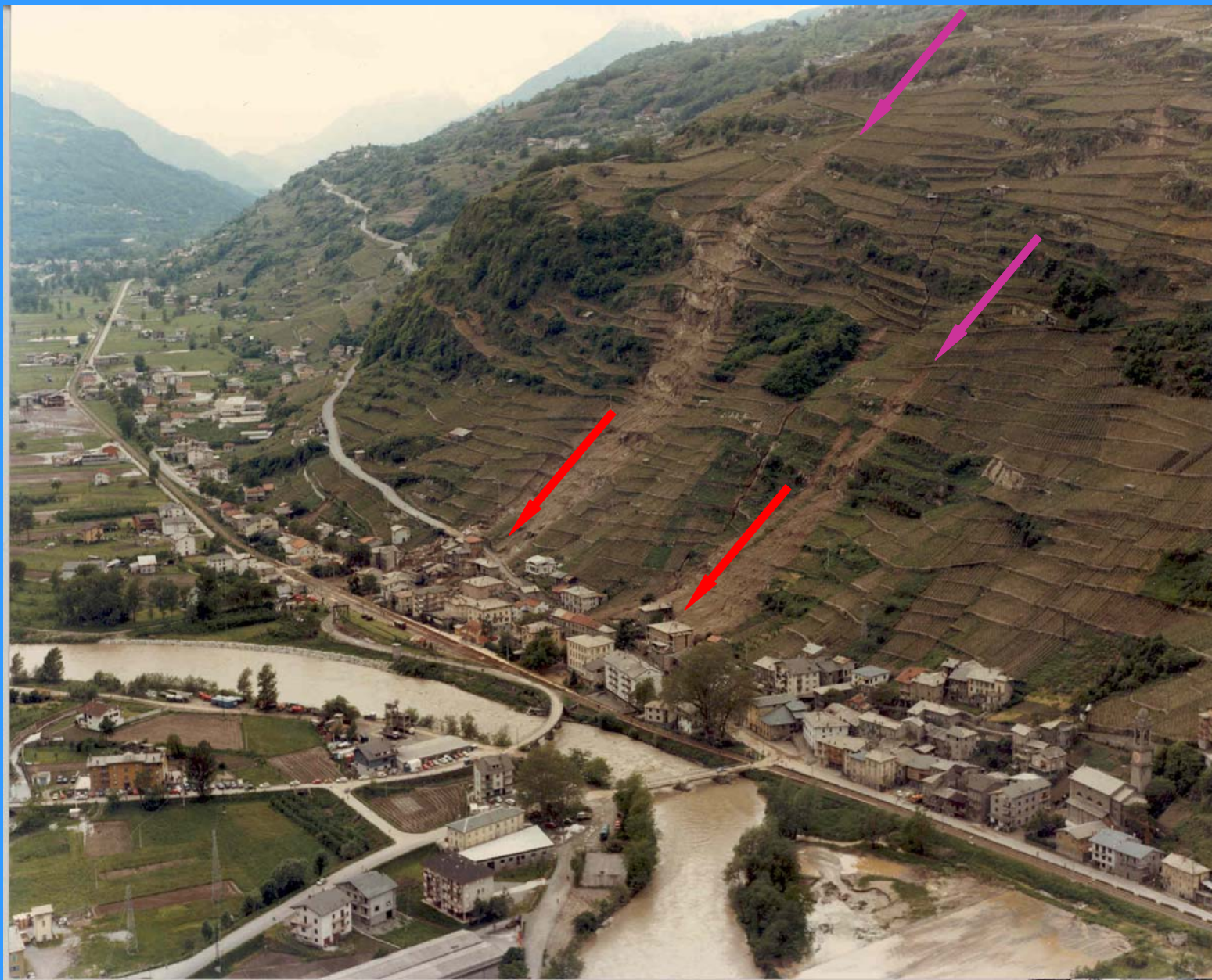




HAZARD




RISK



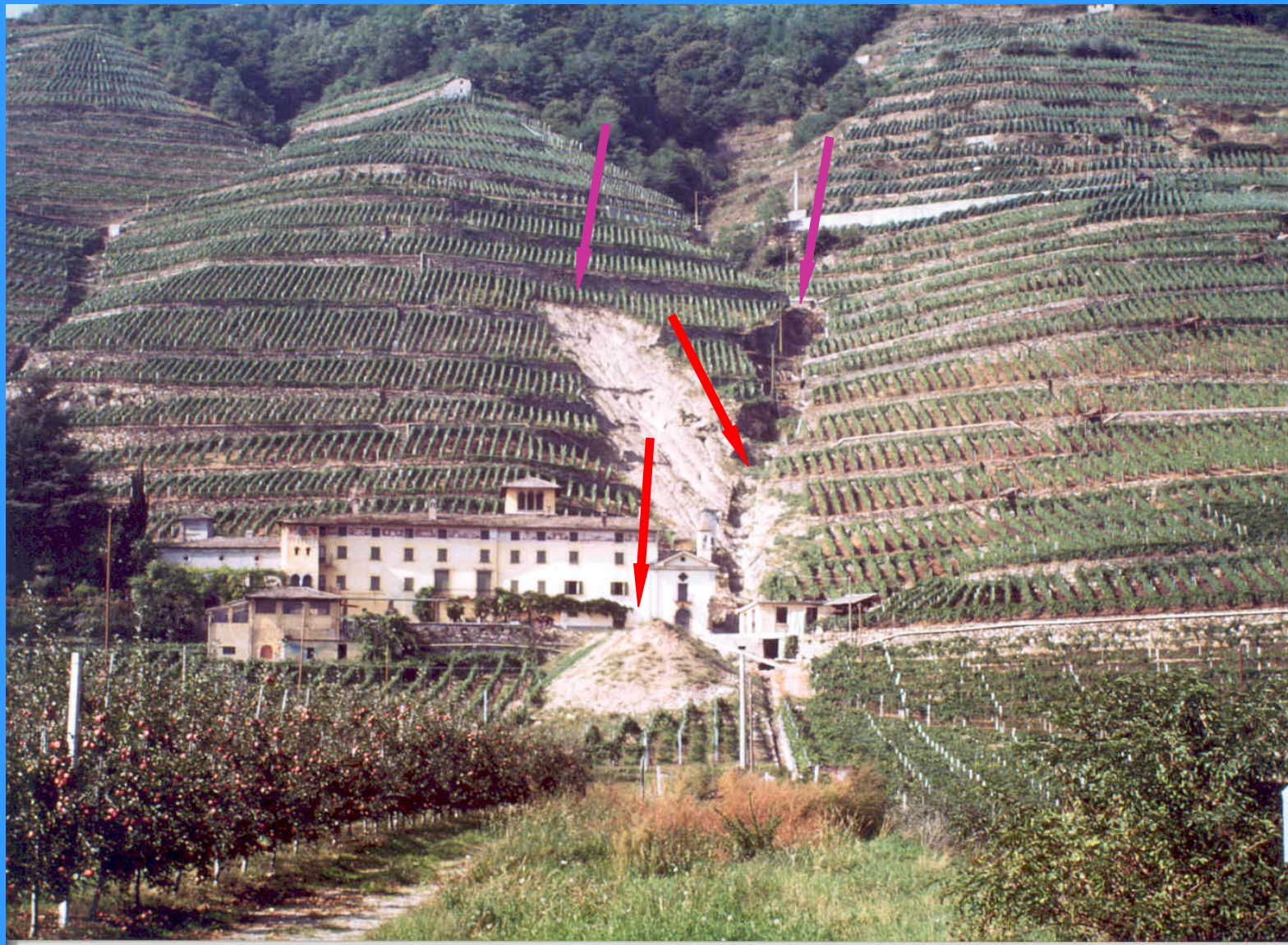
HAZARD

RISK



La Gatta - Bianzone - SO

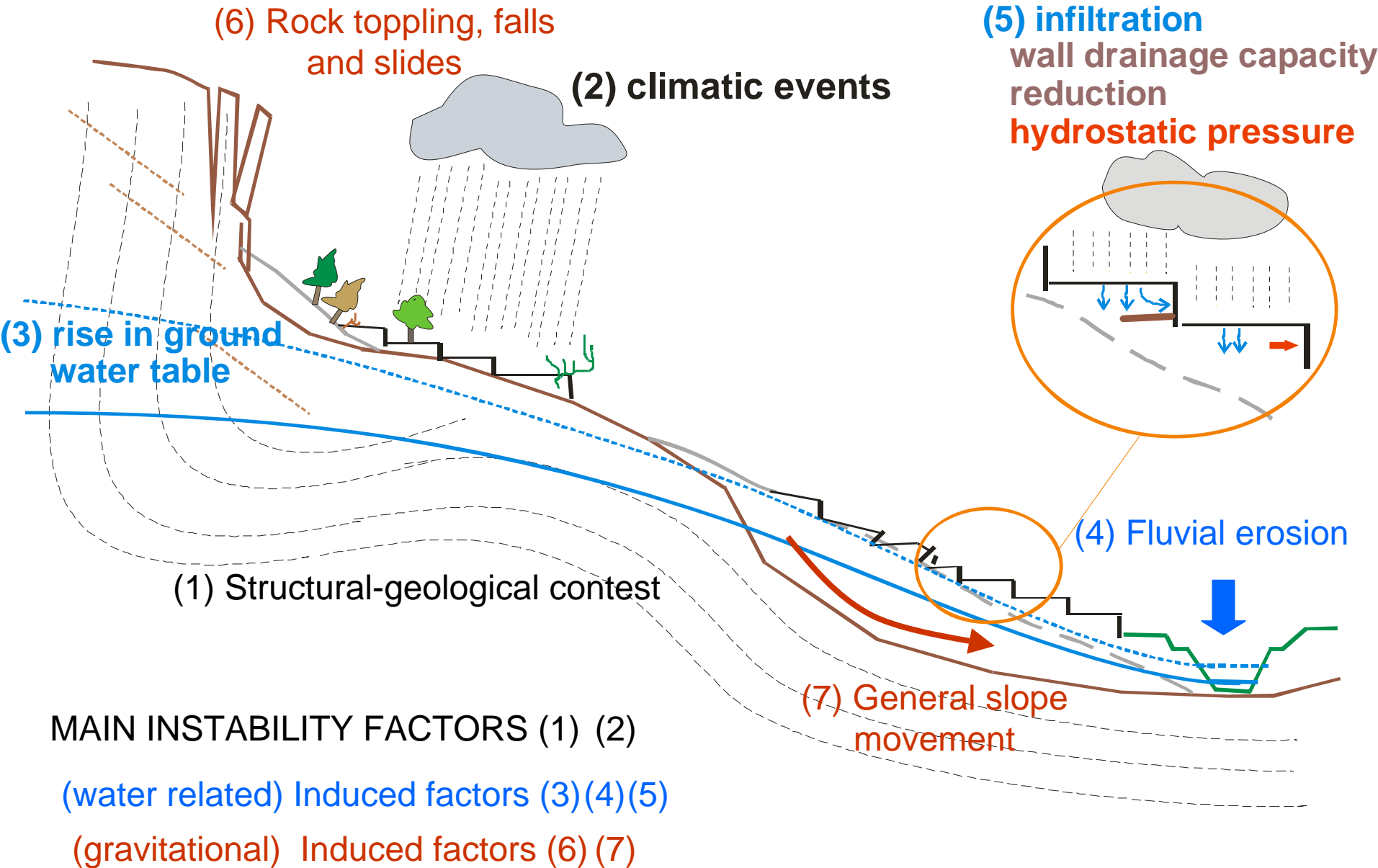
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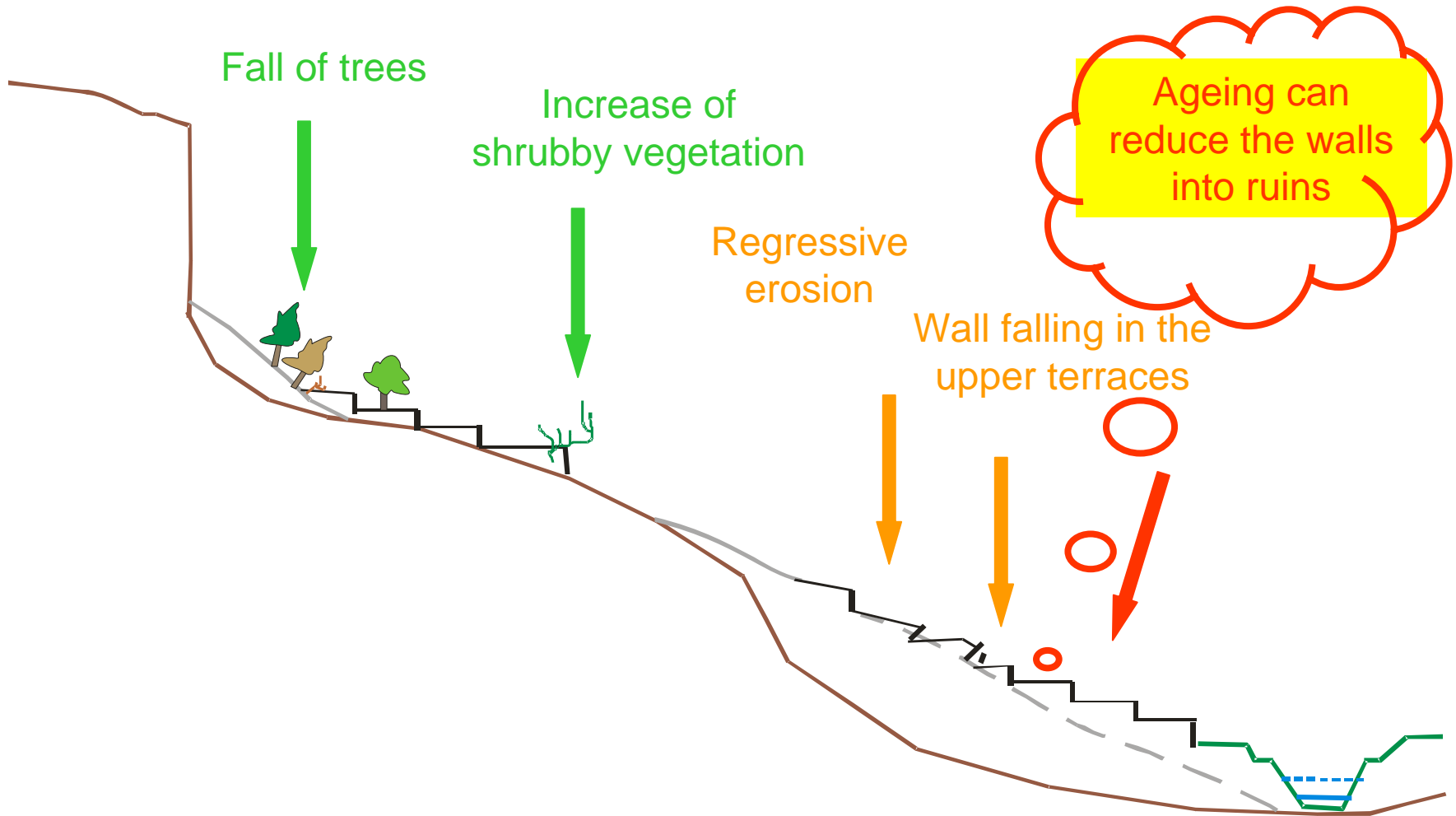
HAZARD

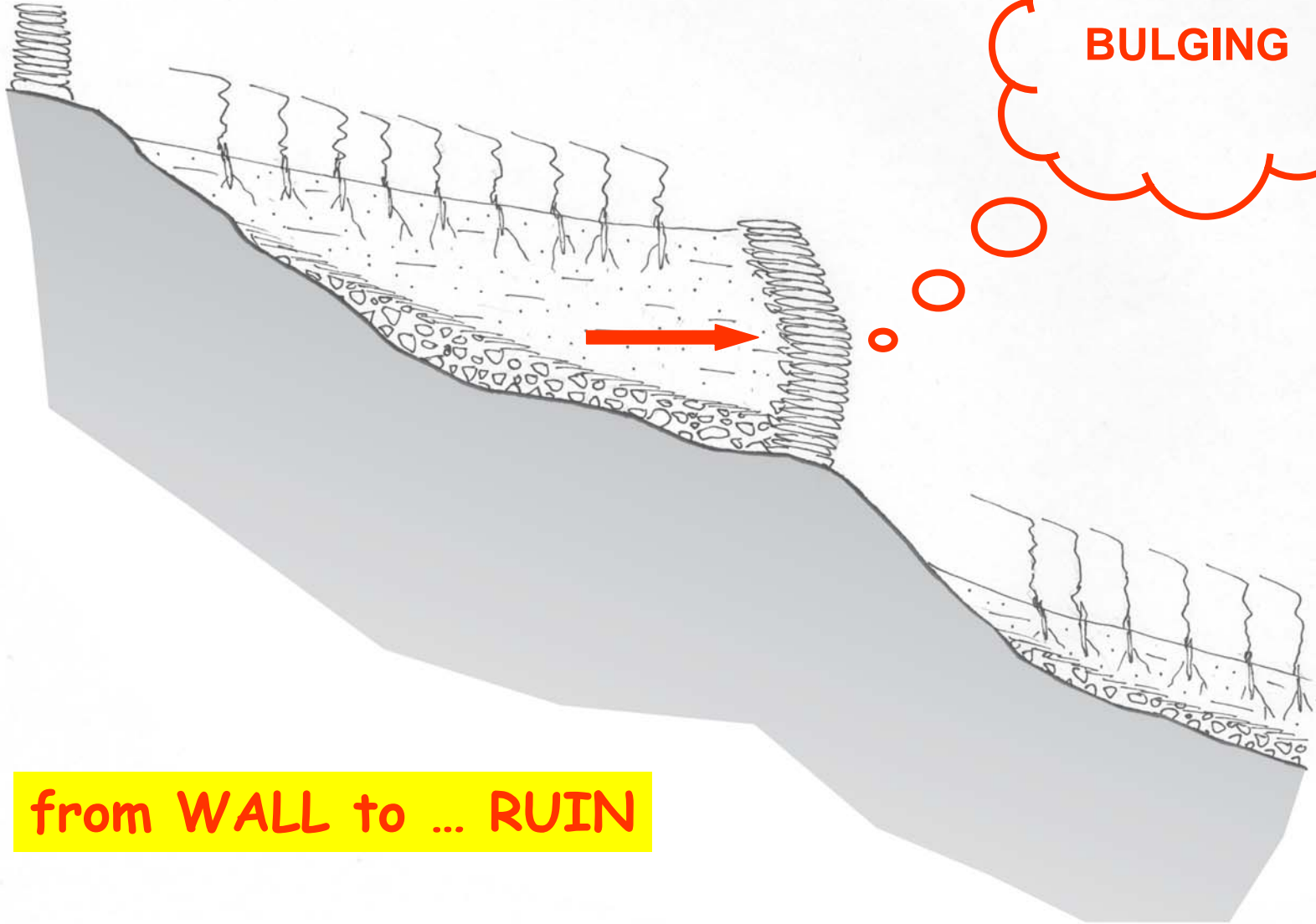
RISK

NATURAL CAUSES OF TERRACED SLOPE INSTABILITY



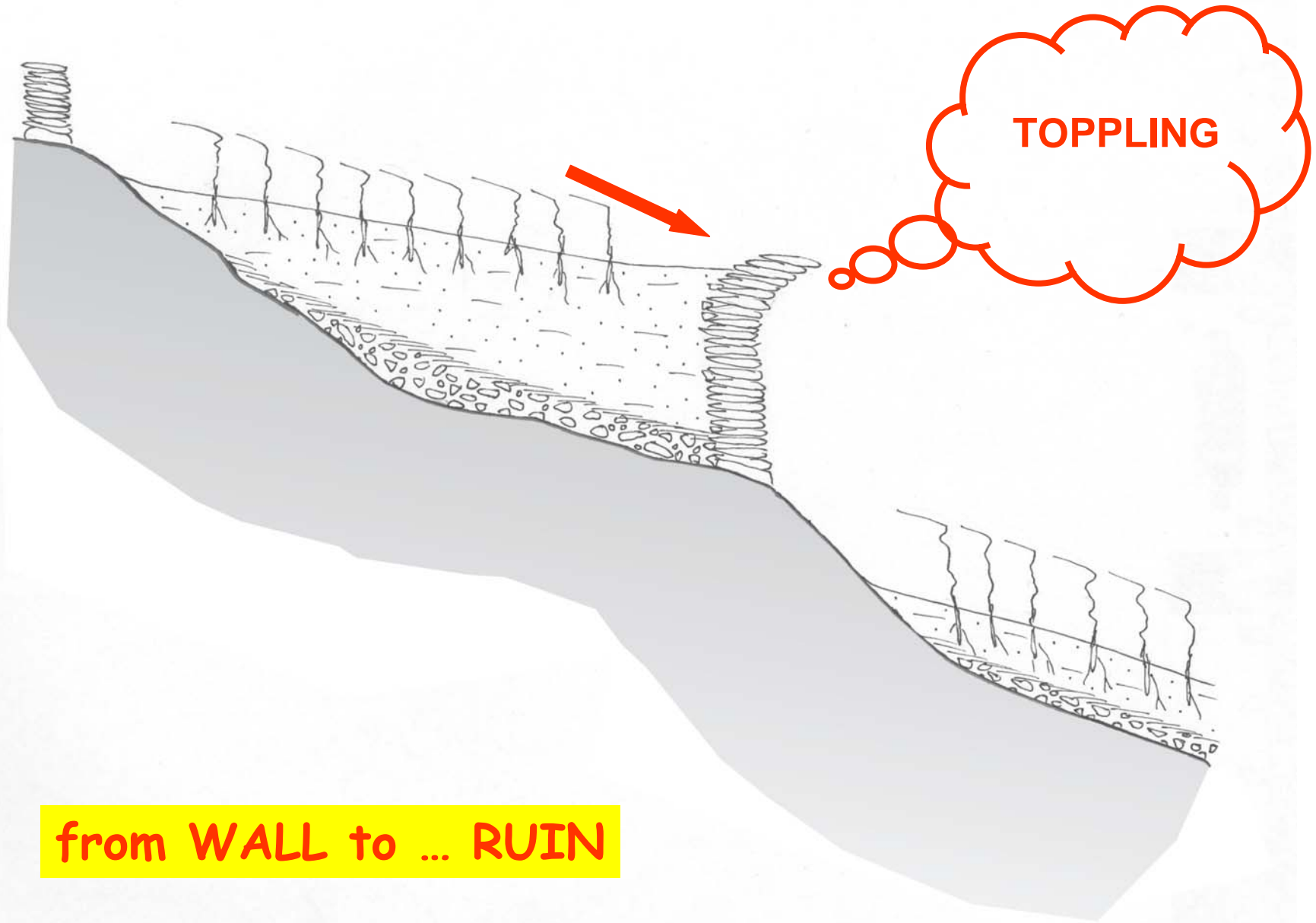
NATURAL CAUSES OF TERRACED SLOPE INSTABILITY



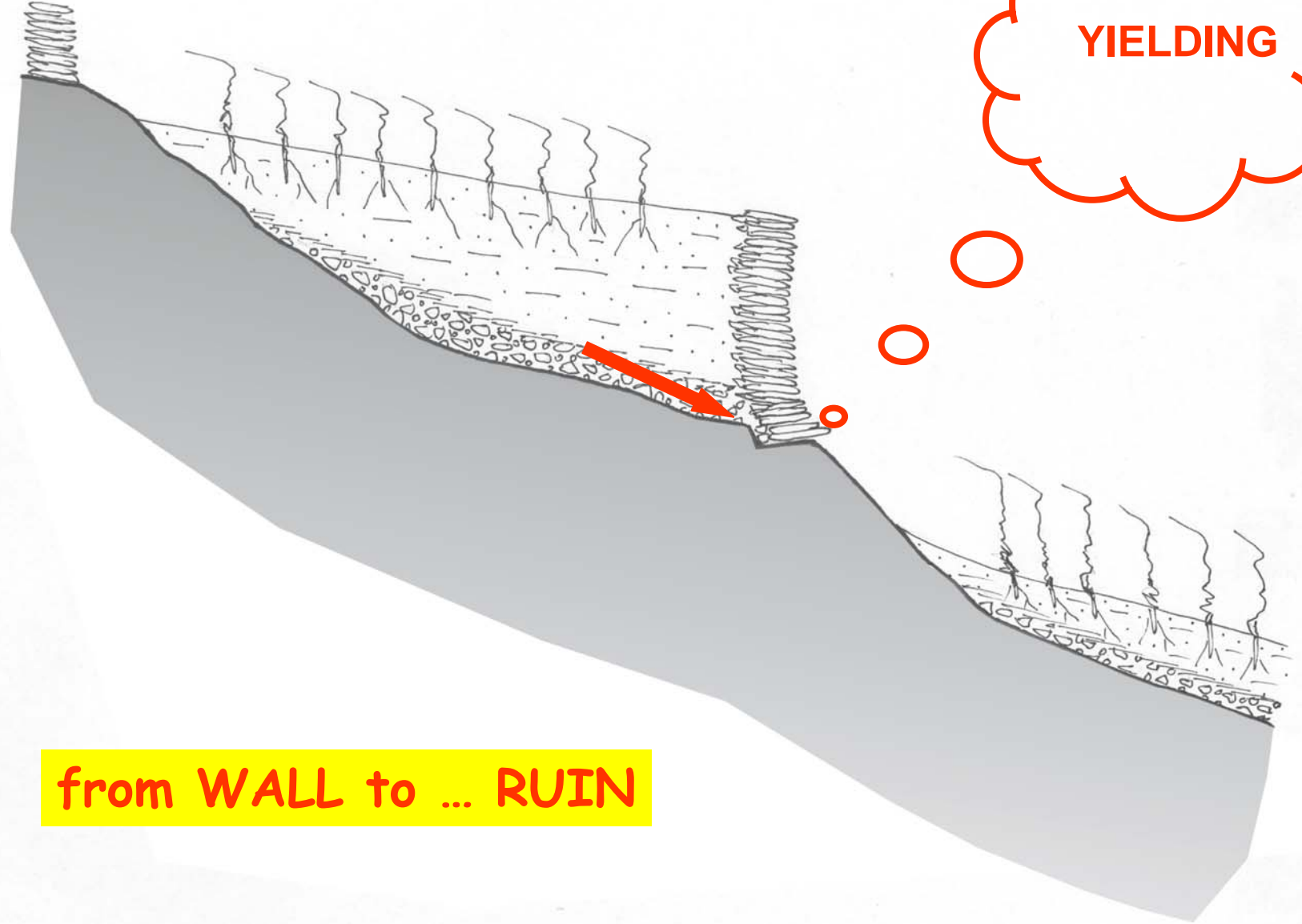


BULGING

from WALL to ... RUIN



from WALL to ... RUIN



from WALL to ... RUIN

$$\text{RISK: } R = W * V * H$$

W = WORTH ELEMENTS (€ , \$, £ ...)

V = VULNERABILITY (0 ÷ 1)

0 = NO DAMAGE

1 = TOTAL DAMAGE

H = HAZARD (0 ÷ 1)

0 = EVENT WITH A TOO LONG RECURRENCE TIME

1 = SURE EVENT

Gabriele Cola & Luigi Mariani

(Dipartimento di Produzione Vegetale - Università degli Studi di Milano)

CLIMATE AND MANAGEMENT OF ALPINE TERRACES

Roberto Comolli

(Dipartimento di Scienze dell'Ambiente e del Territorio - Università degli Studi di Milano Bicocca)

SOIL AND MAN-MADE TERRACES IN SONDRIO REGION: PILOT AREA OF PIANAZZOLA

Marco Masetti & Tiziana Apuani

(Dipartimento di Scienze della Terra - Università degli Studi di Milano)

INFILTRATION PROCESS IN TERRACED SLOPES: MONITORING AND NUMERICAL MODELING