



Selvicoltura e disturbi naturali: nuove prospettive e vecchie conoscenze

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Dipartimento Territorio
e Sistemi Agro-Forestali
Università di Padova


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Marchi L, Bolzon P**

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Disturbi Naturali

Parte del sistema

Cambiamenti climatici

Alterazione dei regimi

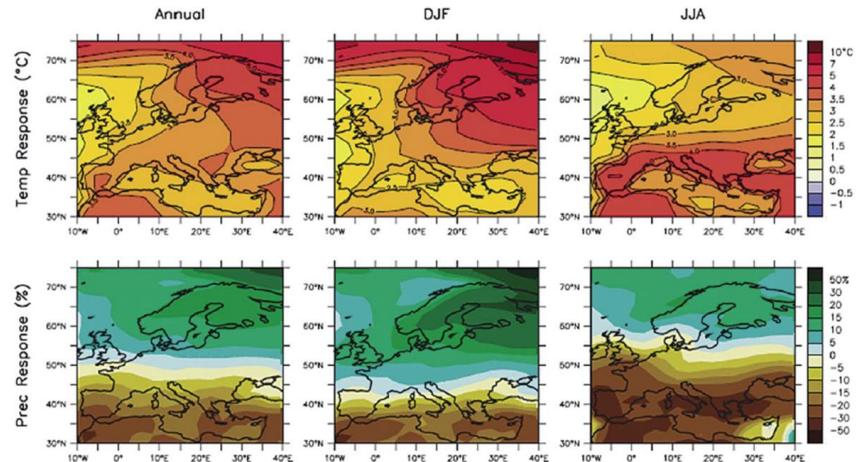
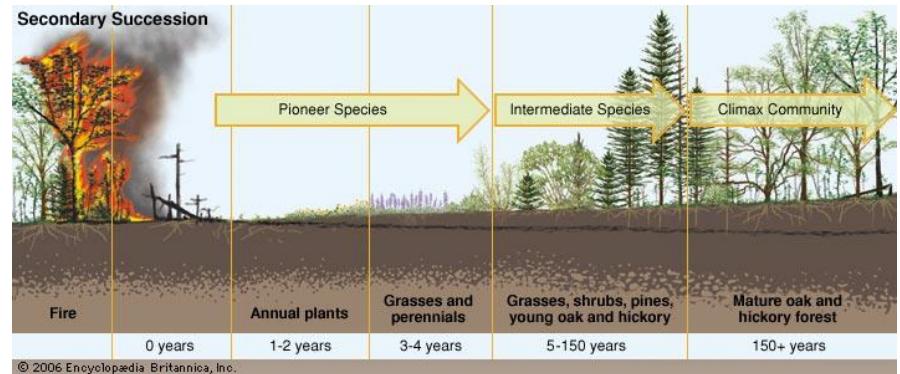


Figure 19. Simulated temperature and precipitation changes over Europe for the A1B scenario. Top row: annual mean, winter (DJF), summer (JJA) temperature change between 1980 to 1999 and 2080 to 2099, averaged over 21 models. Bottom row: same as top, but for fractional change in precipitation. Source: IPCC 4AR 2007.

Natural Disasters have Doubled since 2000

By Mikey Mathieson - 14 October 2020 @ 13:08



“From 2000-2019, 7,348 natural disasters were recorded worldwide, which was almost twice as many as between 1980 and 1999, the UN Office for Disaster Risk Reduction (UNDRR) said”

The Daily Star

Climate disasters doubled

Climate change is largely to blame for a near doubling of natural disasters in the past 20 years, the United Nations said as experts ... The UN Office for Disaster Risk Reduction said 7,348 major disaster events had occurred ... 21 ore fa



Euronews

UN: Climate emergency causes number of natural disasters to ...

Twice as many natural disasters have been reported in the past 20 years compared to the preceding 20, with climate change the main cause of ... 2 giorni fa



Aljazeera.com

Climate change spurs doubling of disasters since 2000: UN

Climate change is largely to blame for a near doubling of natural disasters in the past 20 years, a UN report said. Keep Reading. A moment of ... 1 giorno fa



TRT World

Natural disasters have almost doubled in the last 20 years

The UN's new research into disaster, has revealed that the number of natural calamities has nearly doubled in the last 20 years. Together with ... 1 giorno fa



International Day for Disaster Risk Reduction

13 October

Search Go



The continuing damage from Hurricane Dorian in the Bahamas is one of the latest examples of the increasing intensity of natural disasters. According to the UN, more than 100 million people in the Americas are at risk.



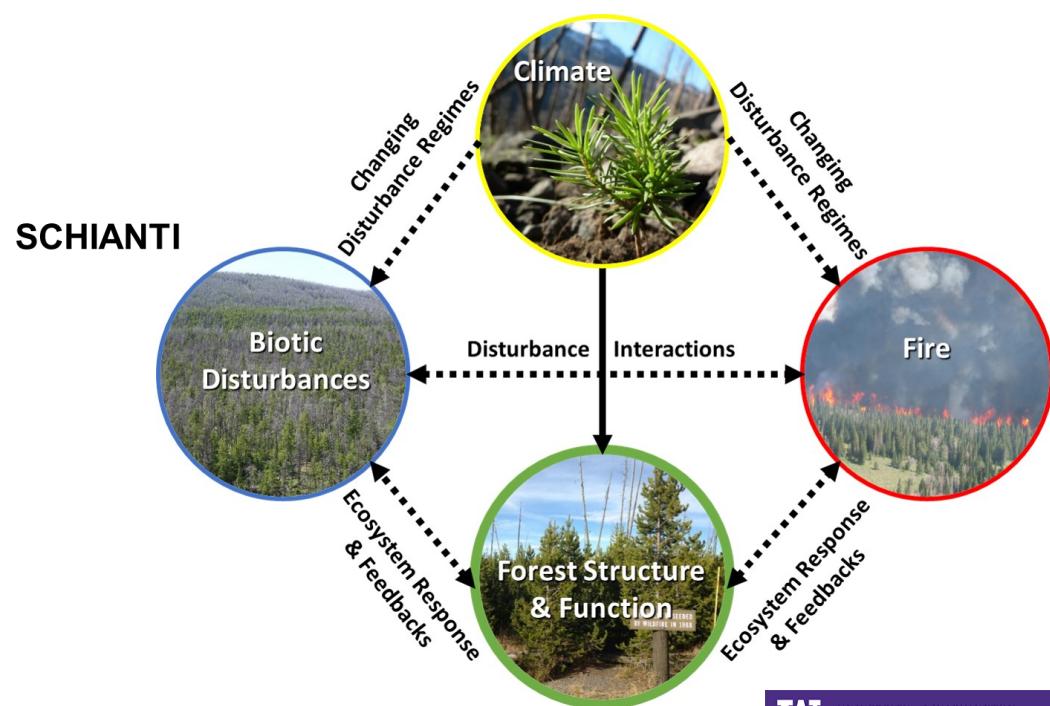
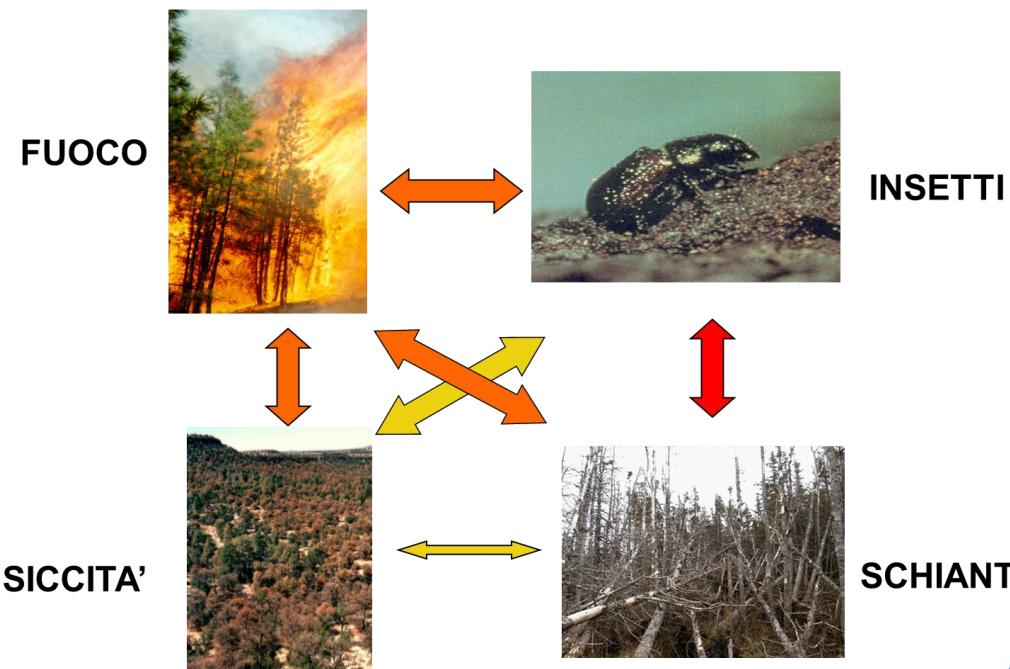
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Interazioni tra i disturbi



W UNIVERSITY of WASHINGTON

Spesso un disturbo prepara il campo per un altro disturbo

Disturbo naturale

vs

Pericolo naturale



Disturbo naturale

vs

Pericolo naturale

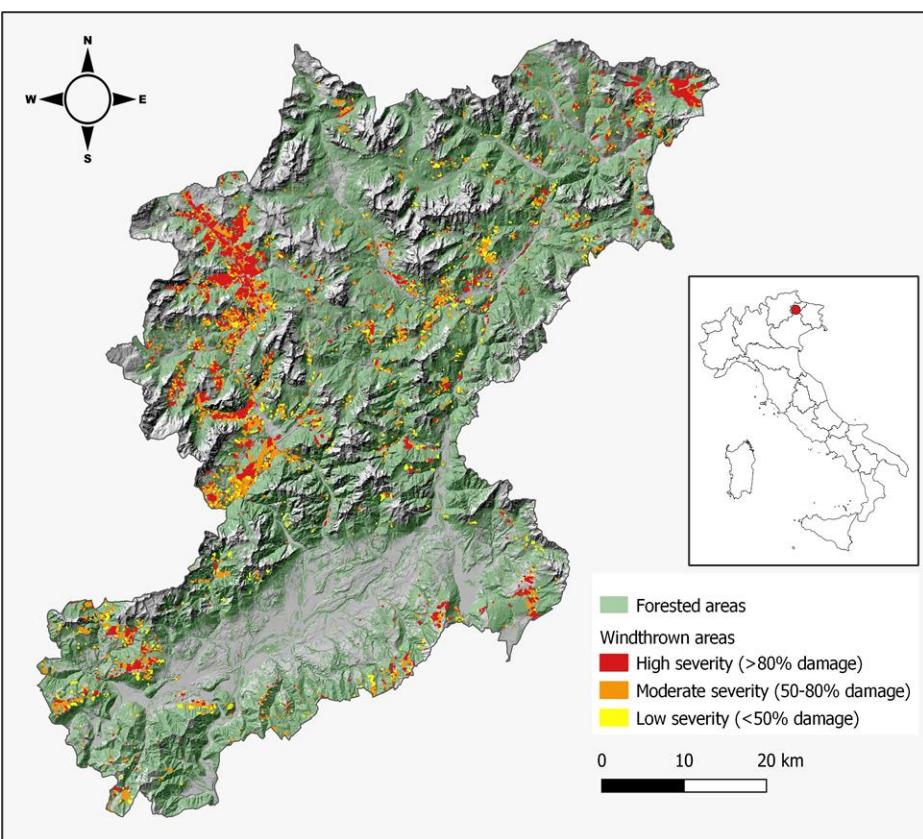


Veneto in ginocchio (on line)

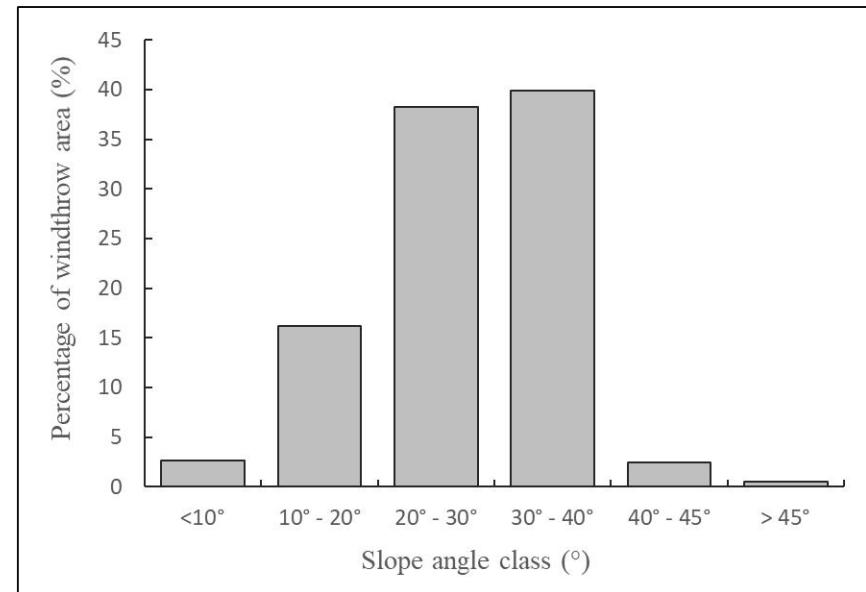
Interventi post-disturbo



Disturbi in ambiente alpino



Vaia 2018



Possibili aree predisponenti
ai pericoli naturali gravitativi



Martini

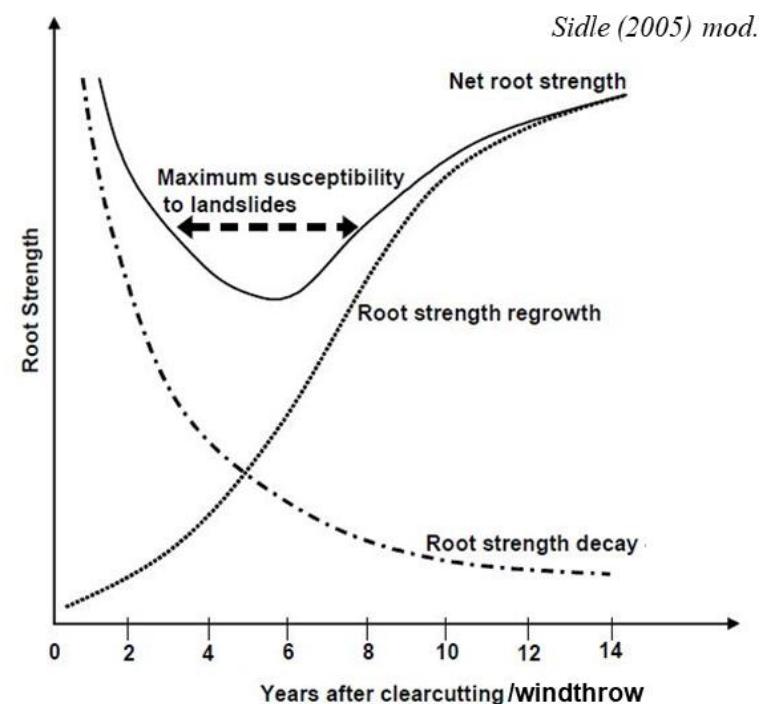


Dorren e Schwarz (2017)



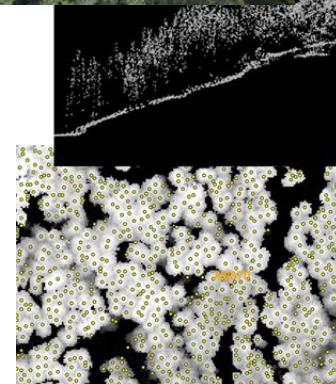
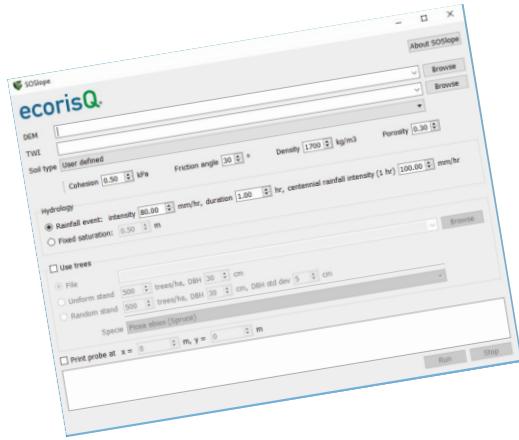
Frane superficiali innestate in aree schiantate prevalentemente nella finestra tra i 3 – 17 anni post disturbo

Esperienza Svizzera a seguito delle tempeste
Vivian (1990) e Lothar (1999) Bebi et al. 2019

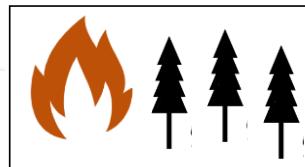
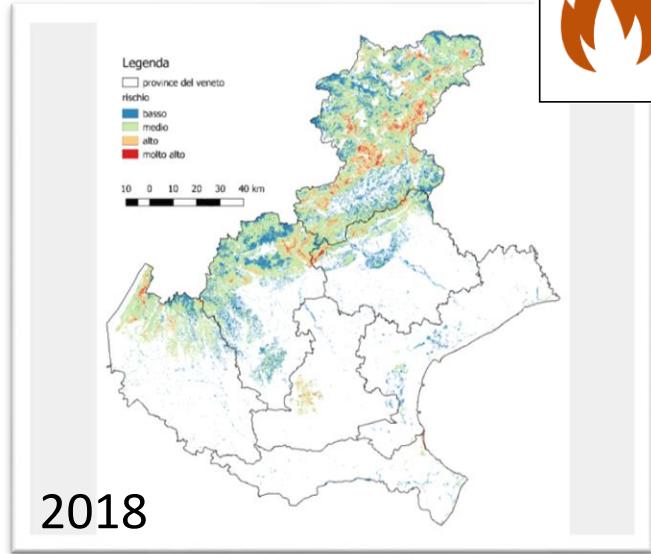




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Rischio incendio

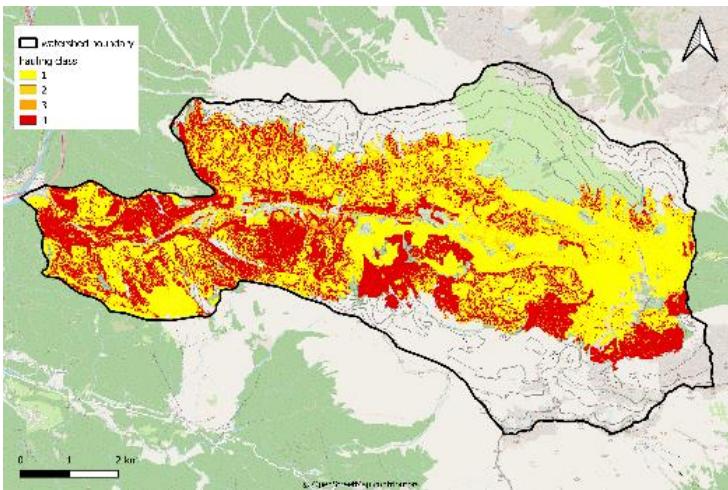
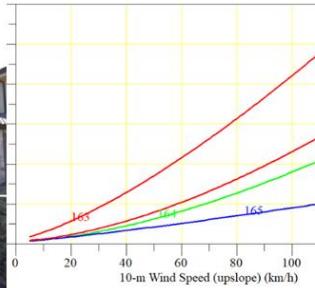
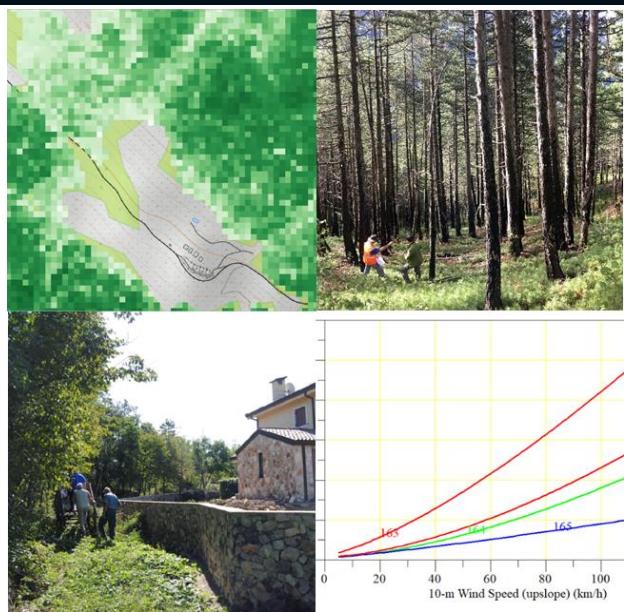
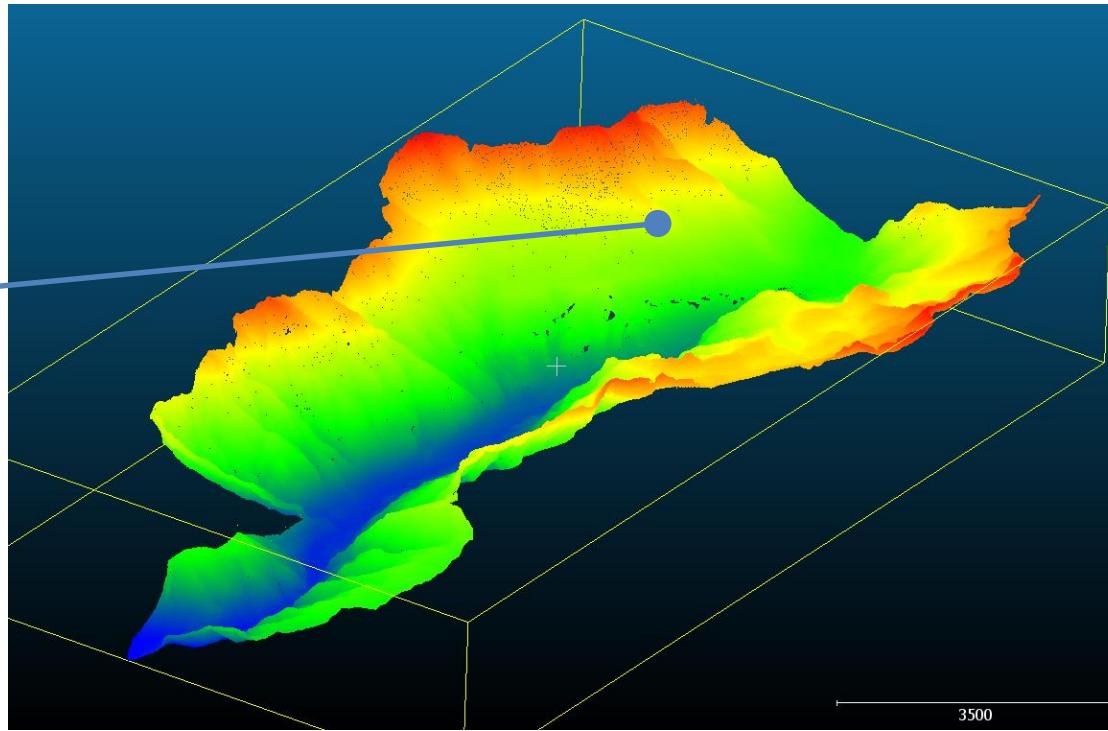


**Carico di combustibile
Modello di combustibile**

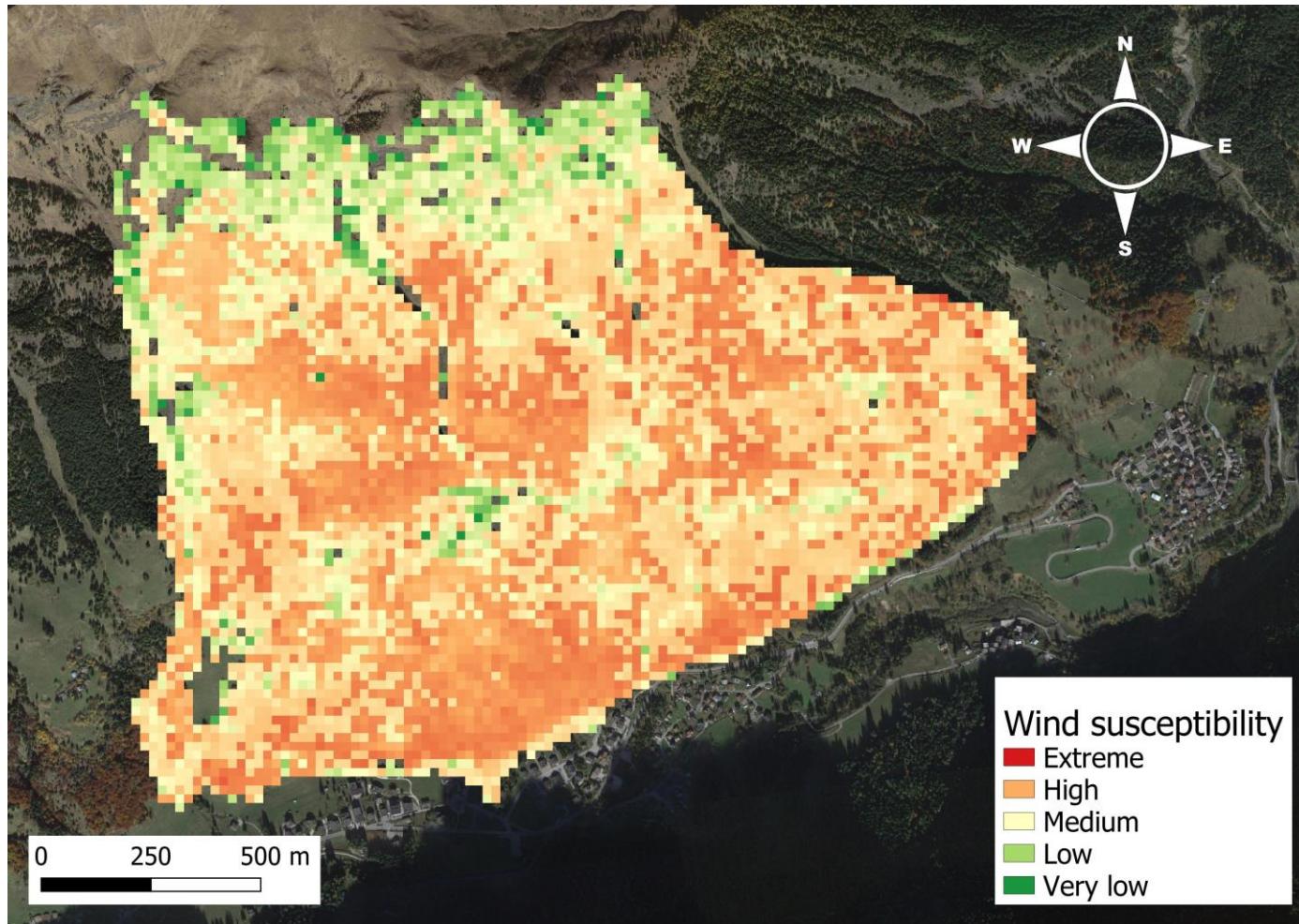


**Comportamento del
fronte di fiamma**

Rischio incendio

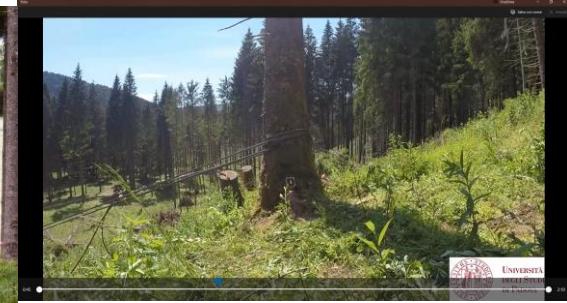
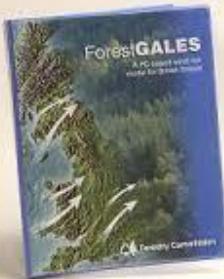


Prevenzione e mitigazione



Bosco Verde - Rocca Pietore (BL)

Calibrazione modelli

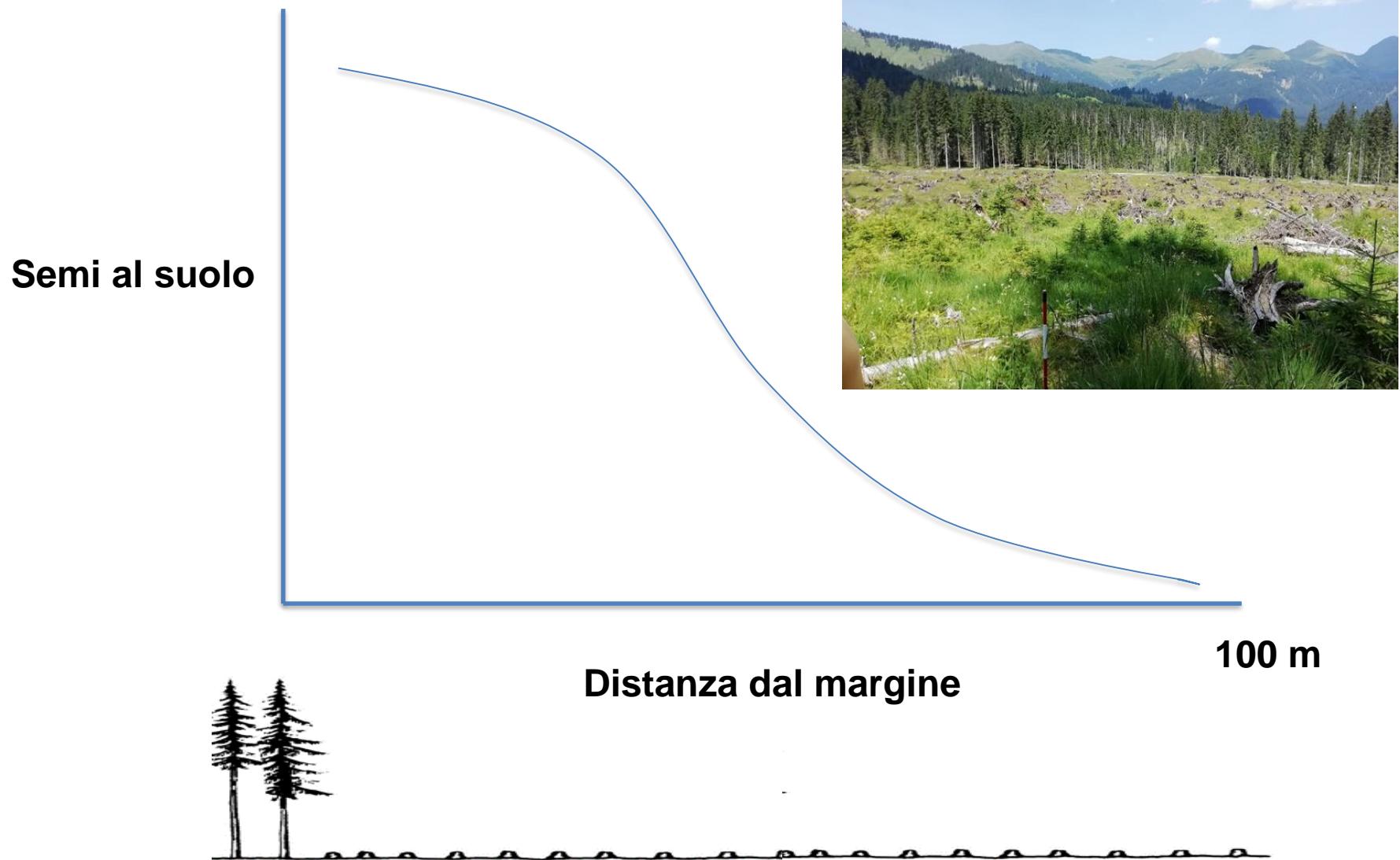


Pendenza

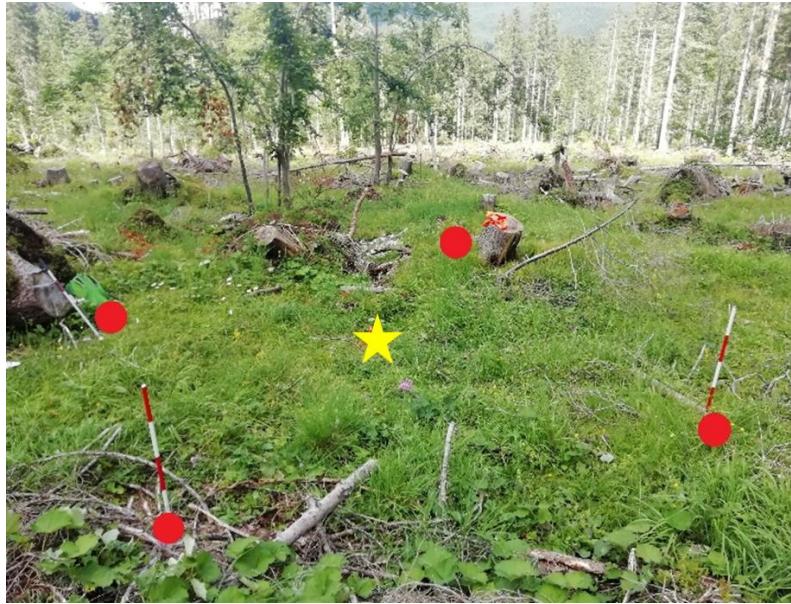
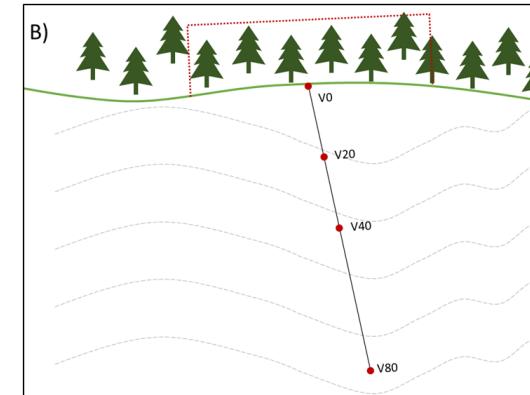
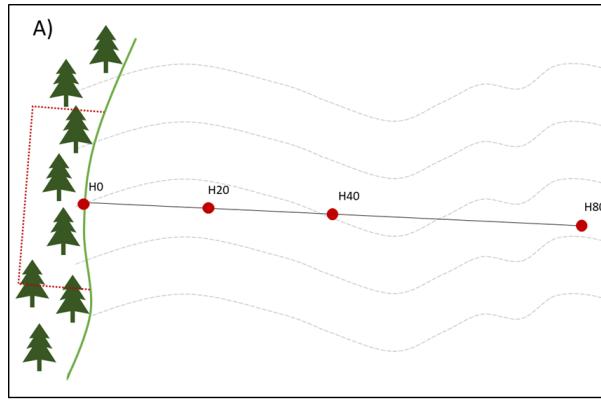
Dimensioni reali

Caratteristiche
tecnologiche

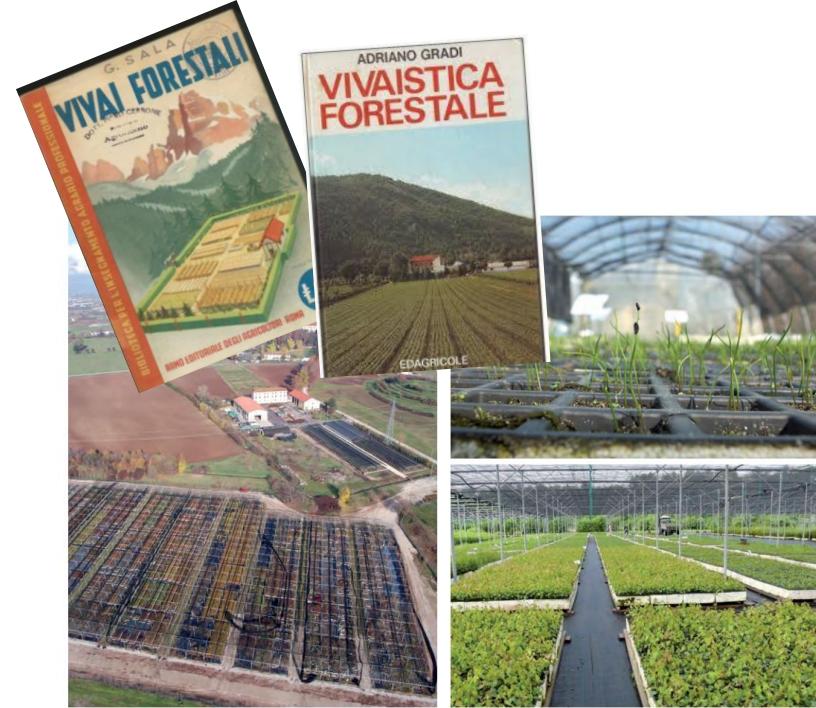
Rinnovazione naturale



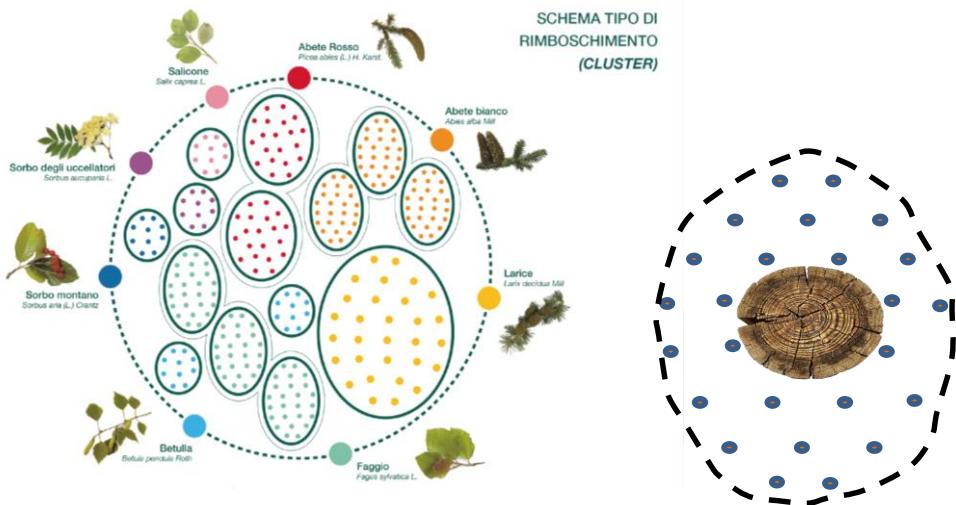
Monitoraggio rinnovazione naturale



Rinnovazione artificiale



Resilienza & Resistenza



Conclusioni

Sistemi **complessi** necessitano di un approccio **multidisciplinare**.

Nuove **tecniche** potenzialmente permettono di avere informazioni in tempo reale o quasi e di **aggiornare** rapidamente i dati territoriali.

Le scelte strategiche e gli approcci tecnici non possono non considerare tutti questi aspetti nell'implementazione di una gestione forestale che includa la **prevenzione**, la **mitigazione** degli effetti dei pericoli naturali e l'eventuale **ripristino**.

Maggior **trasferimento** tecnologico e di conoscenze tra istituti di ricerca e enti gestori.

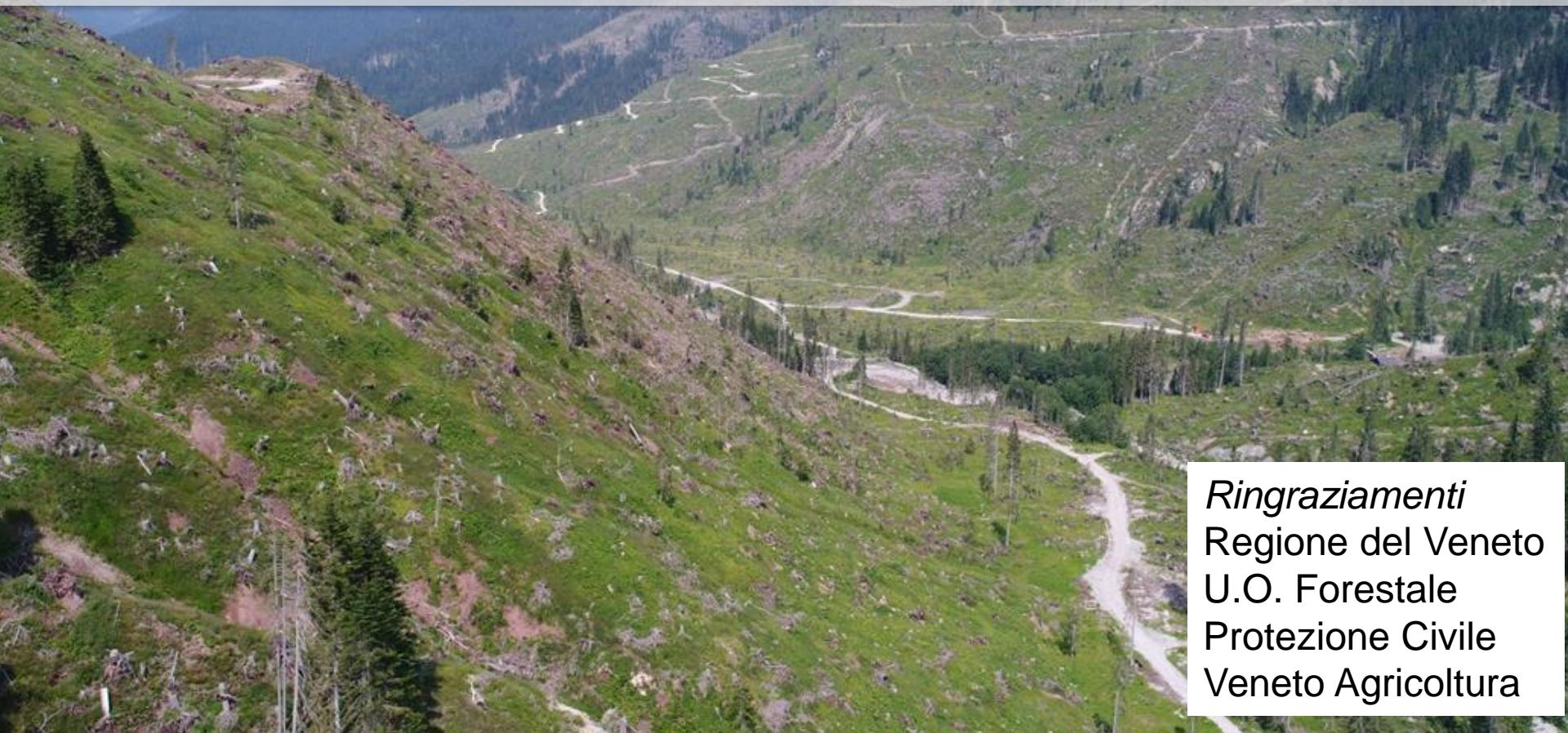
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Grazie per l'attenzione

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Ringraziamenti
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U.O. Forestale
Protezione Civile
Veneto Agricoltura

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