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Finapp S.r.l

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Environmental monitoring

Early warning system for **landslides** and **fires**.

What?

Finapp has installed two probes along the road connecting Belluno and Cortina d'Ampezzo, in the care of ANAS. It is Italy's first Smart Road and will be the gateway to the Milan - Cortina 2026 Winter Olympic Games.

Why?

The **purpose** of these installations is to **provide early warning for the risk of landslides and fires**.

How?

Alert levels are calculated from a characterisation of the site (geological, hydraulic, statistical), from soil moisture measurements provided by the soil moisture measurement provided by Finapp probes installed on site and the weather forecast for the following days.

The CRNS method relates the count of neutrons from cosmic rays striking the soil, with the water content of the soil. Knowing soil moisture is one of the pillars on which on which to build an appropriate irrigation strategy.
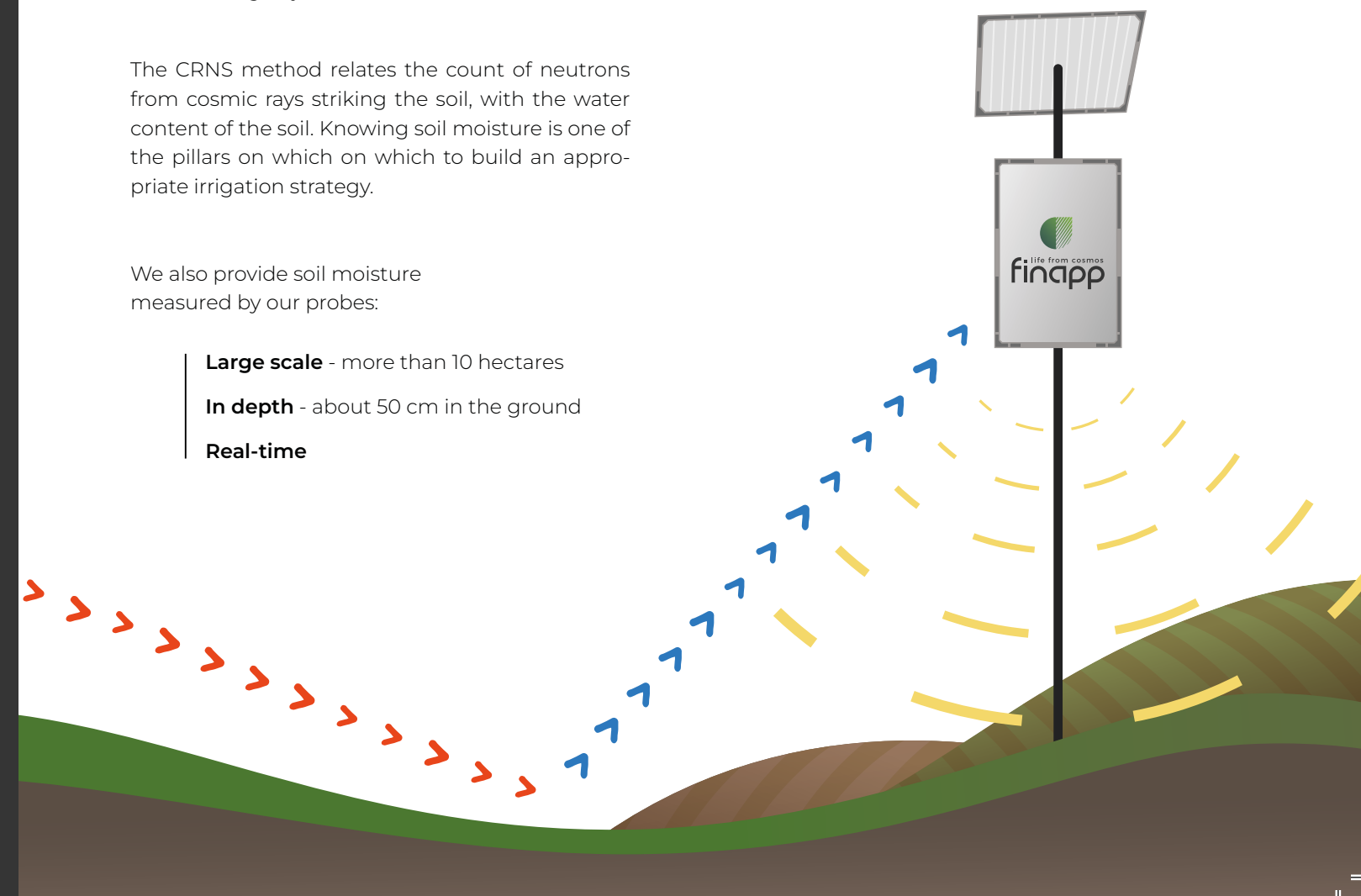
We also provide soil moisture measured by our probes:

Large scale - more than 10 hectares
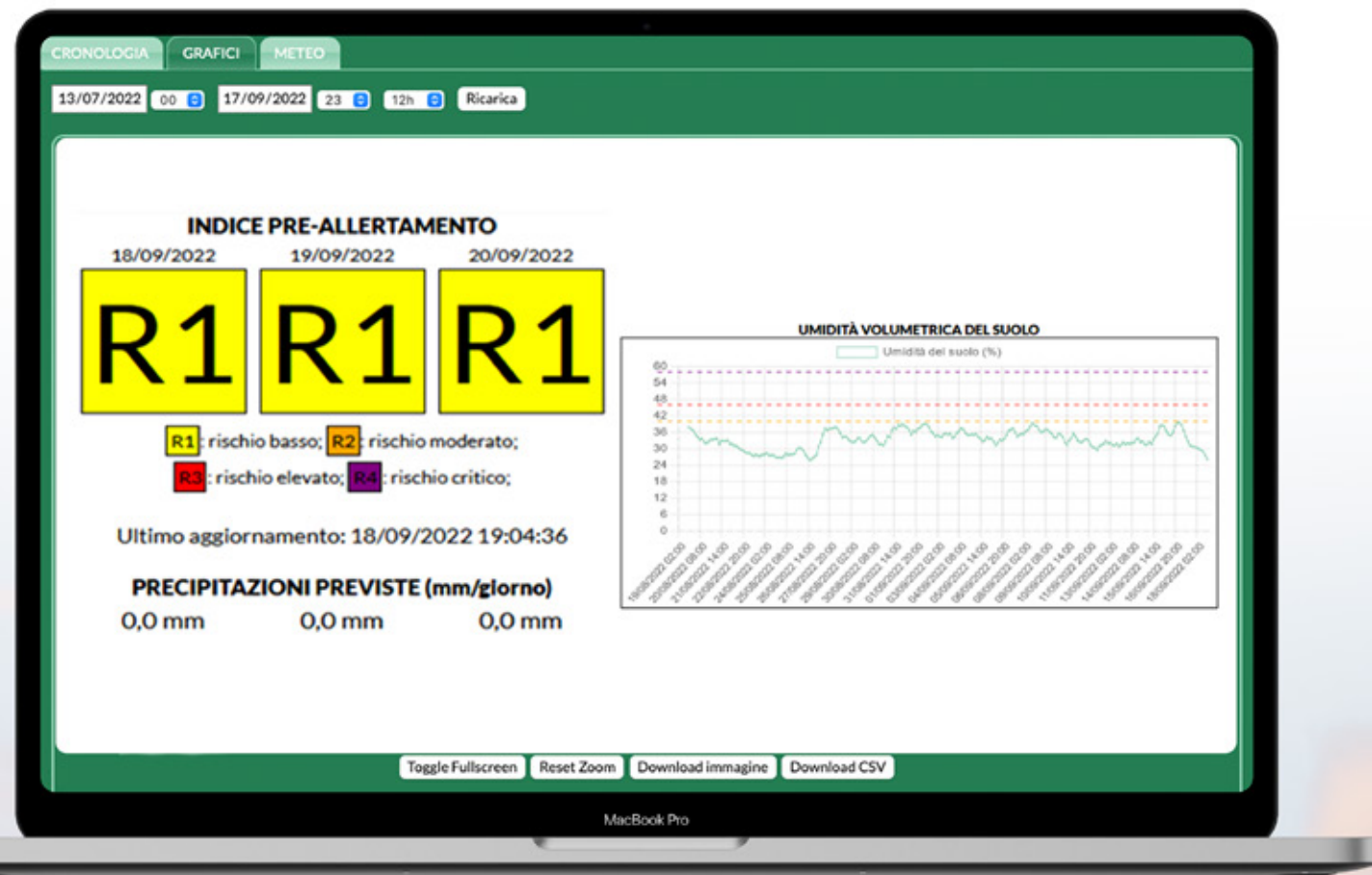
In depth - about 50 cm in the ground

Real-time

The result is **an alert level from 1 to 4, immediately readable**.

Obtained informations

CRONOLOGIA **GRAFICI** METEO

13/07/2022 00 ⏷ 17/09/2022 23 ⏷ 12h ⏷ Ricarica

INDICE PRE-ALLERTAMENTO

18/09/2022	19/09/2022	20/09/2022
R1	**R1**	**R1**

R1: rischio basso; **R2**: rischio moderato;
R3: rischio elevato; **R4**: rischio critico;

Ultimo aggiornamento: 18/09/2022 19:04:36

PRECIPITAZIONI PREVISTE (mm/giorno)
0,0 mm   0,0 mm   0,0 mm

UMIDITÀ VOLUMETRICA DEL SUOLO
Umidità del suolo (%)

Toggle Fullscreen   Reset Zoom   Download immagine   Download CSV

MacBook Pro

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Benefits

The early warning provided by Finapp represents a significant evolution of the classical warning bulletins. Firstly, knowing the **level of soil saturation, representative on a large scale and in real time**, is a fundamental aspect in defining the level of risk.

Secondly, the **specialties of a single site and not of an entire province or macro-area are taken into account**, both as a geological, hydraulic and statistical study of past events and as future weather forecasts.

> The road manager can therefore have a proactive approach to risk risk mitigation.

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life from cosmos