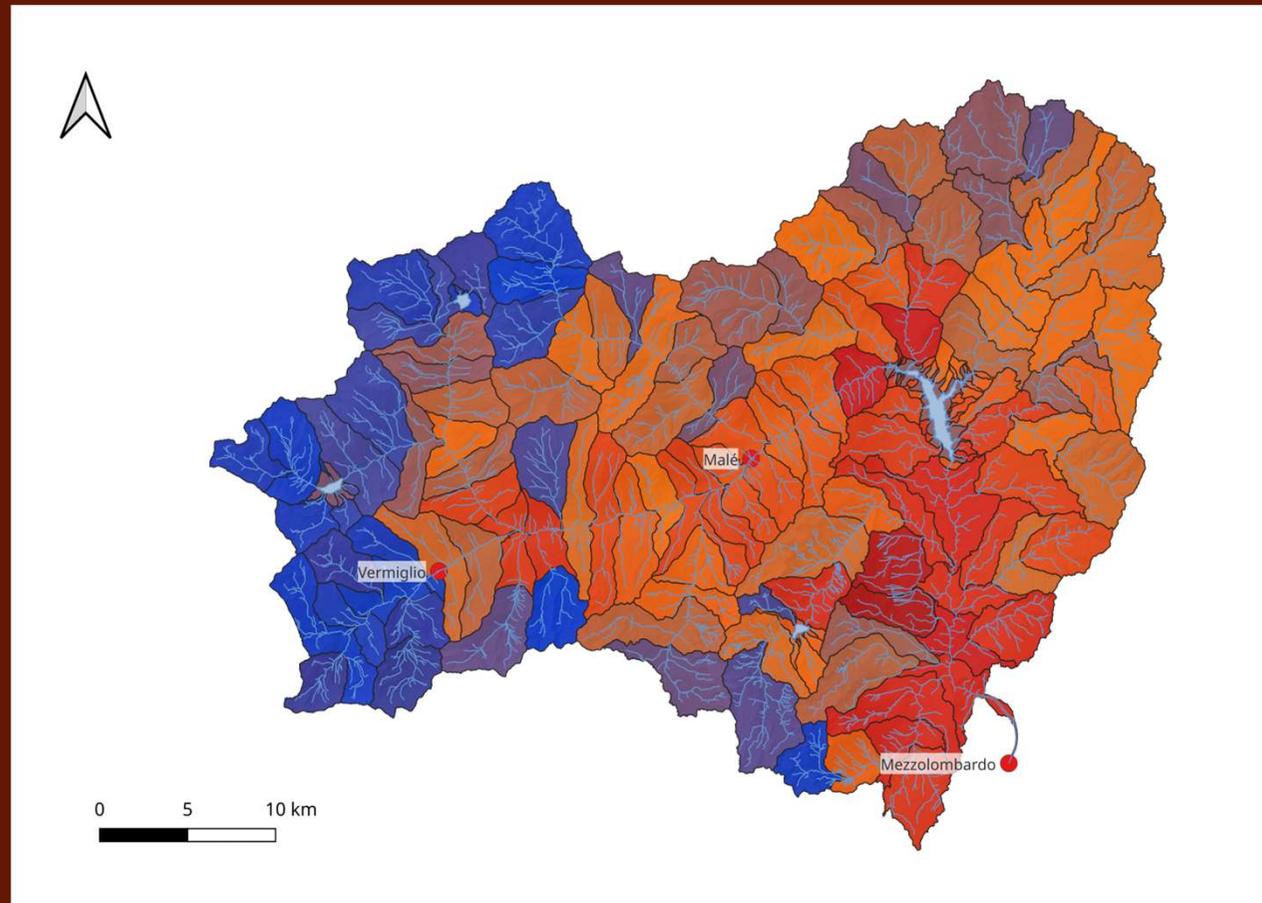


Tecnologie Abilitanti in Agricoltura

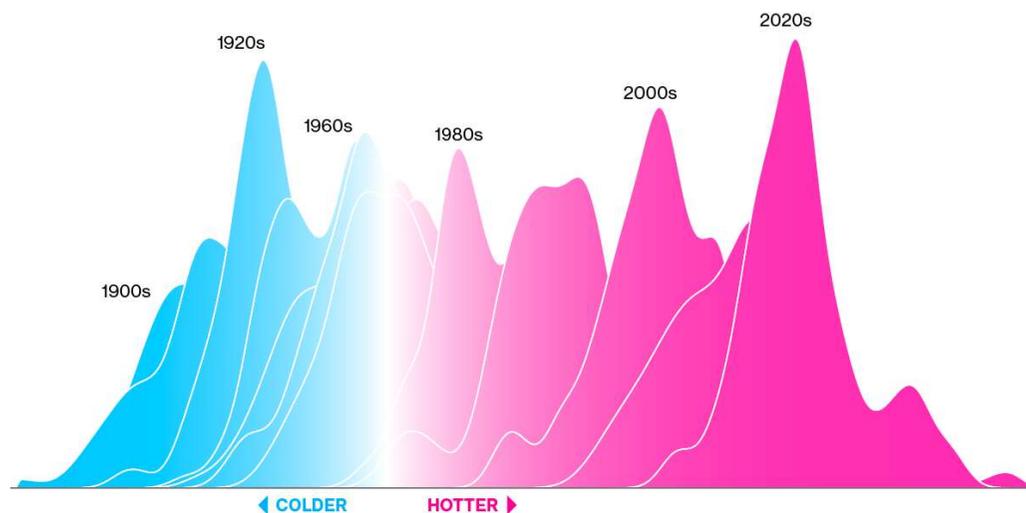
Il caso dell'acqua

Andreis et al., Soil moisture in Val Di Non Catchment, August 2022,



Riccardo Rigon, Giuseppe Formetta, Daniele Andreis, Concetta D'Amato

November 18, 2023



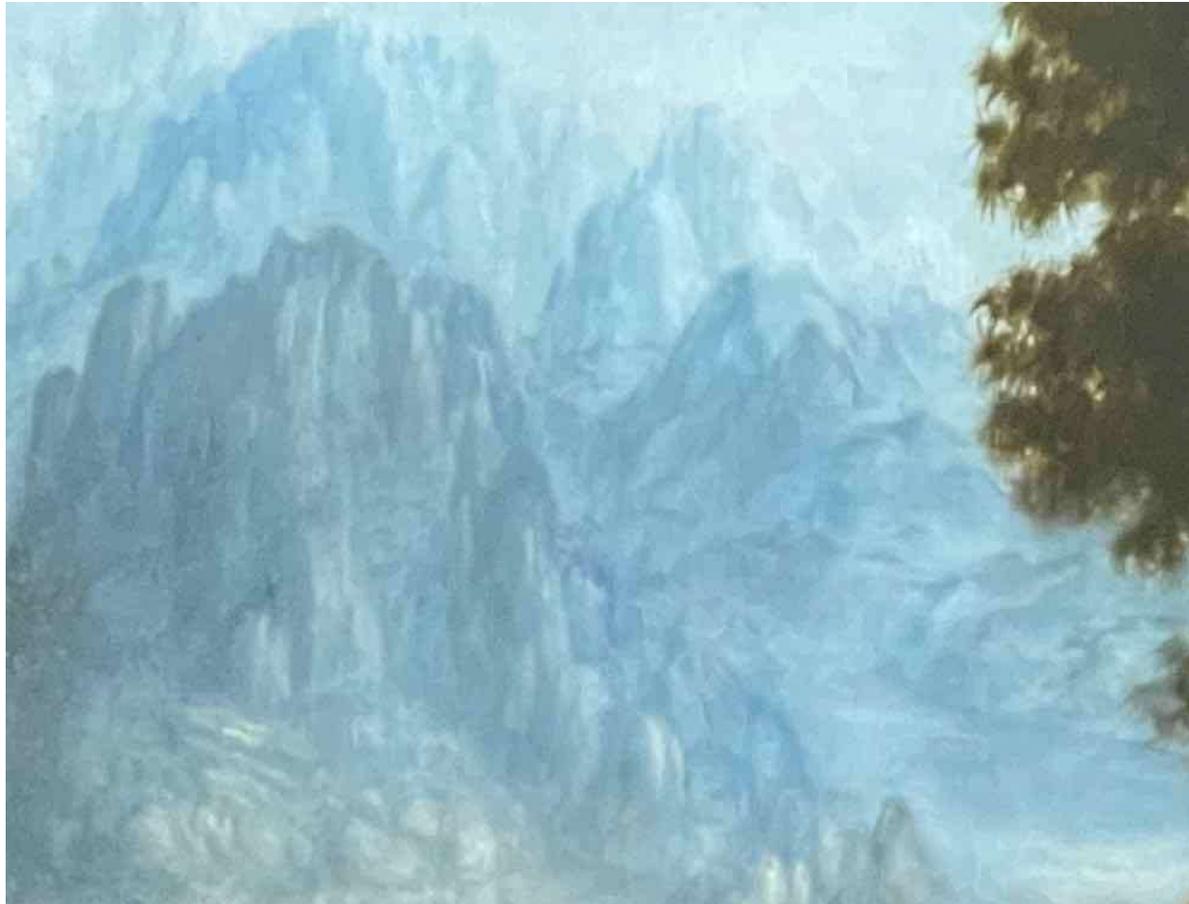
Non è solo quanto cambia, ma quanto velocemente

It's not jus how but how much fast



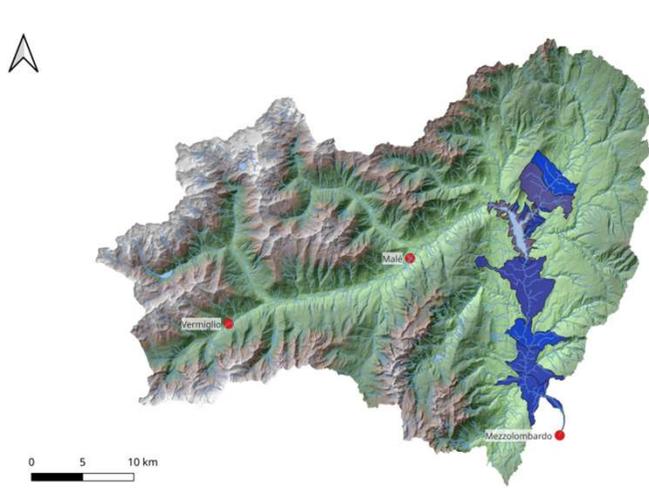
Detail of Leonardo Da Vinci's painting at Louvre, Paris

ADDING a SOFTWARE LAYER

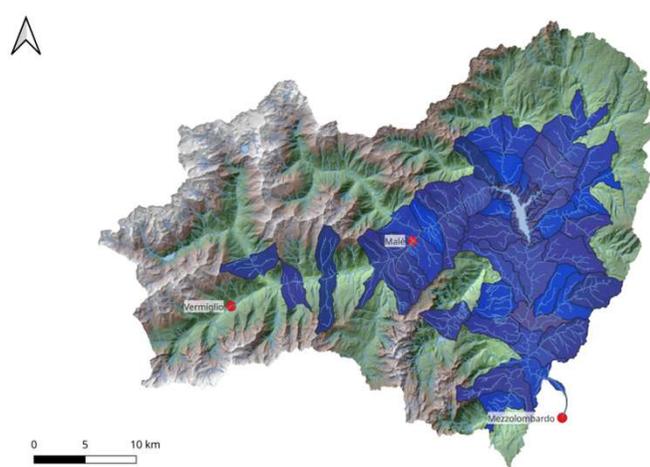


EXPLOITING NEW WAYS TO DO SOFTWARE

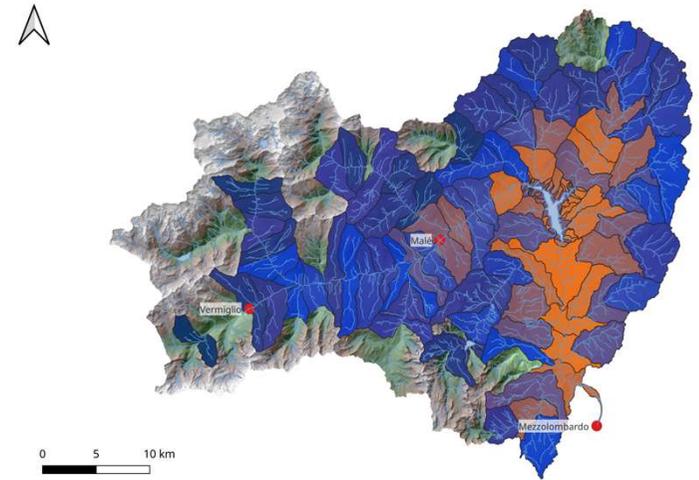
One of the stories: la Val di Non secondo Daniele



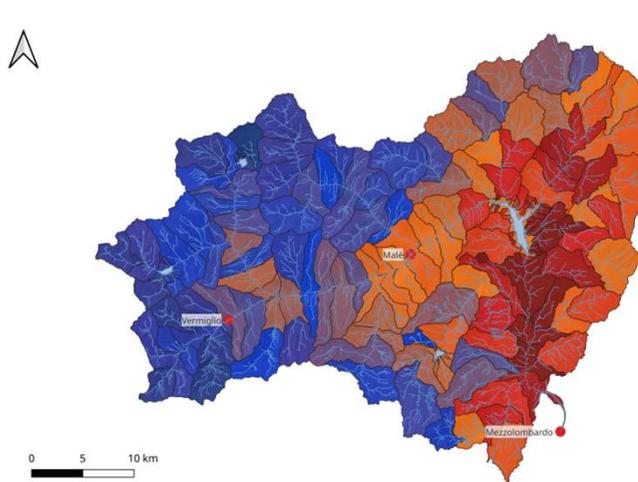
Febbraio 2018



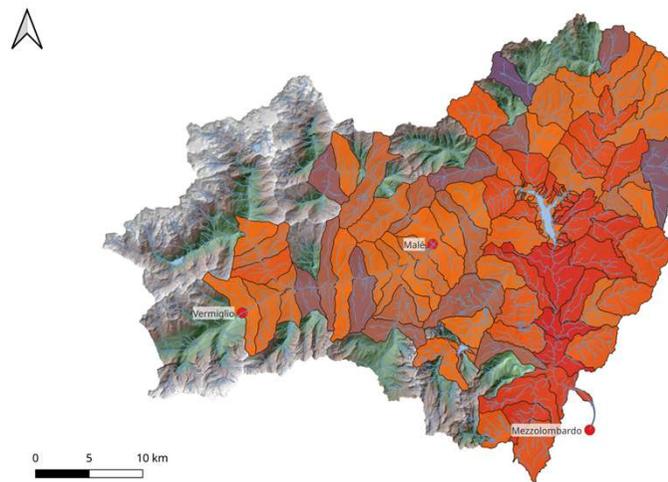
Aprile 2018



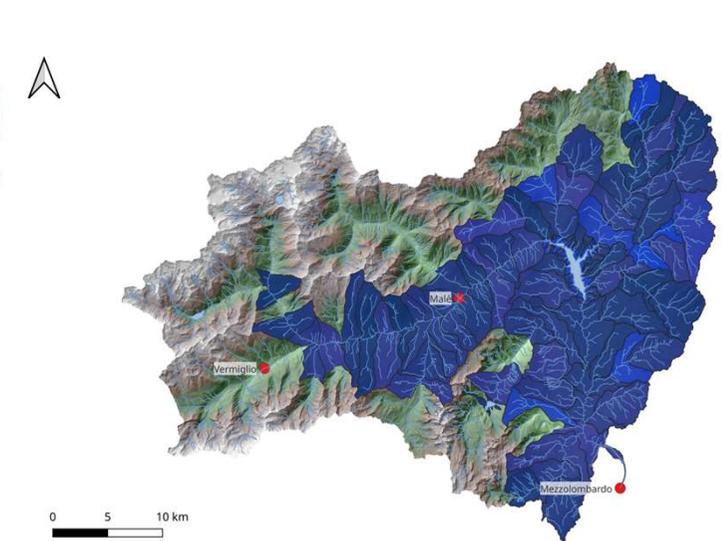
Maggio 2018



Agosto 2018

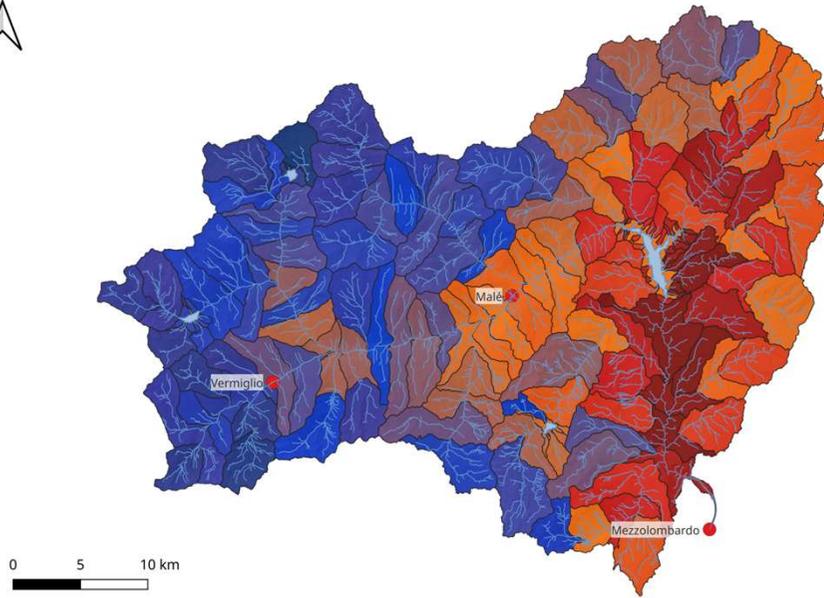


Ottobre 2018

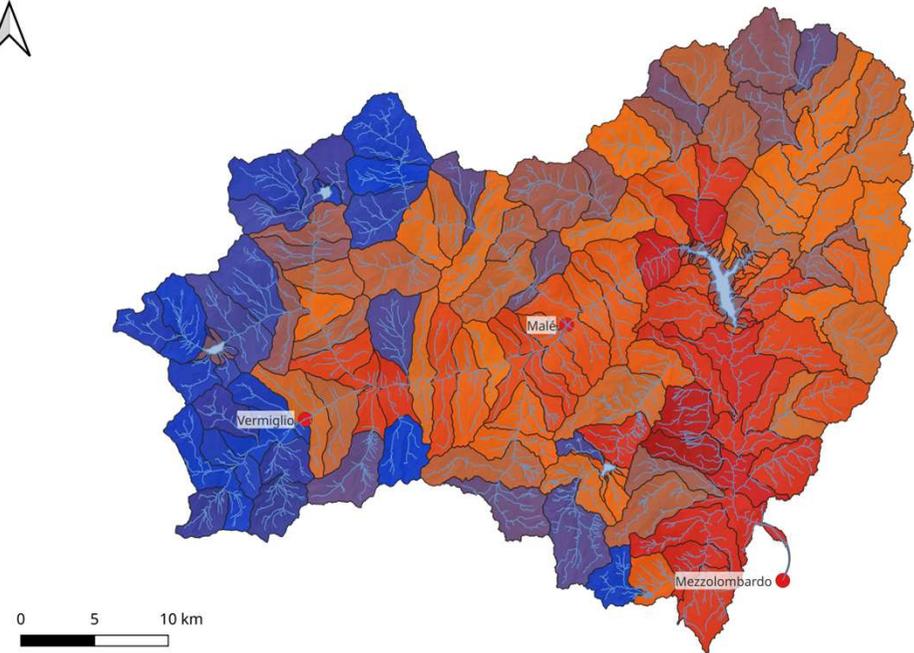


Novembre 2018

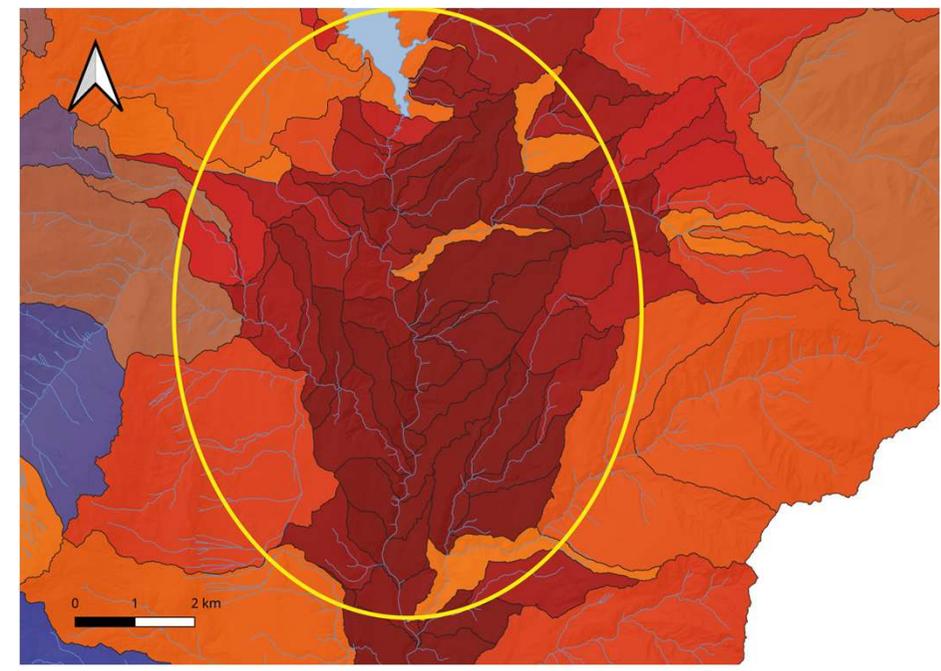
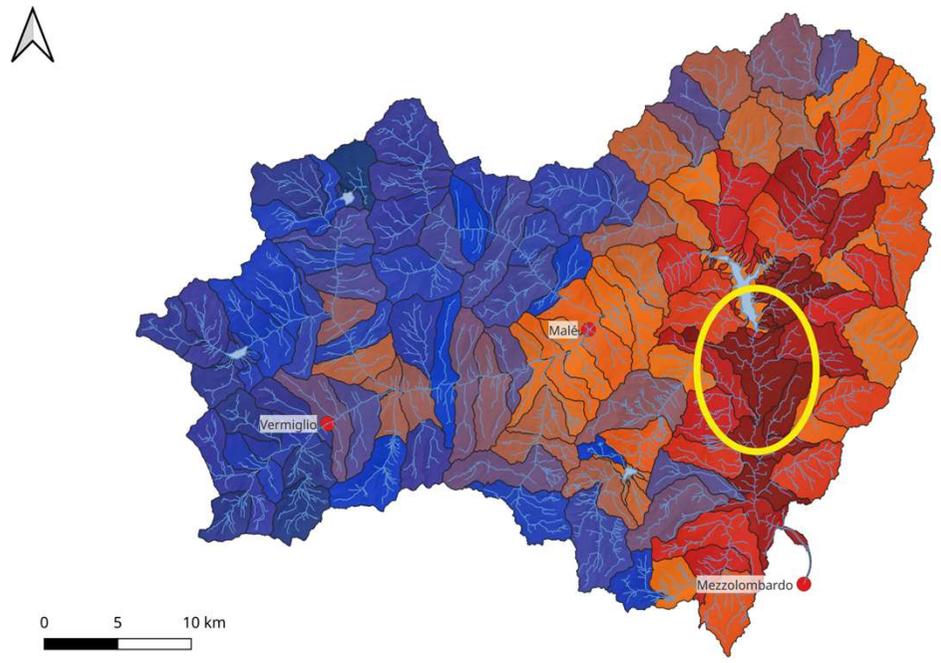
<https://abouthydrology.blogspot.com/2015/07/theory-and-practice-of-reproducible.html>



Agosto 2018



Agosto 2022



Agosto 2018

TYPES OF DROUGHT



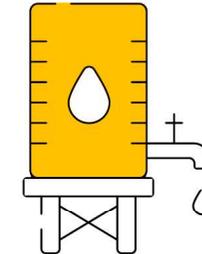
AGRICULTURAL

Occurs when there isn't enough moisture to support average crop production on farms.



METEOROLOGICAL

Occurs when there is a prolonged period of below average precipitation, which creates a natural shortage of available water



HYDROLOGICAL

Occurs when water reserves in aquifers, lakes, and reservoirs fall below an established statistical average.

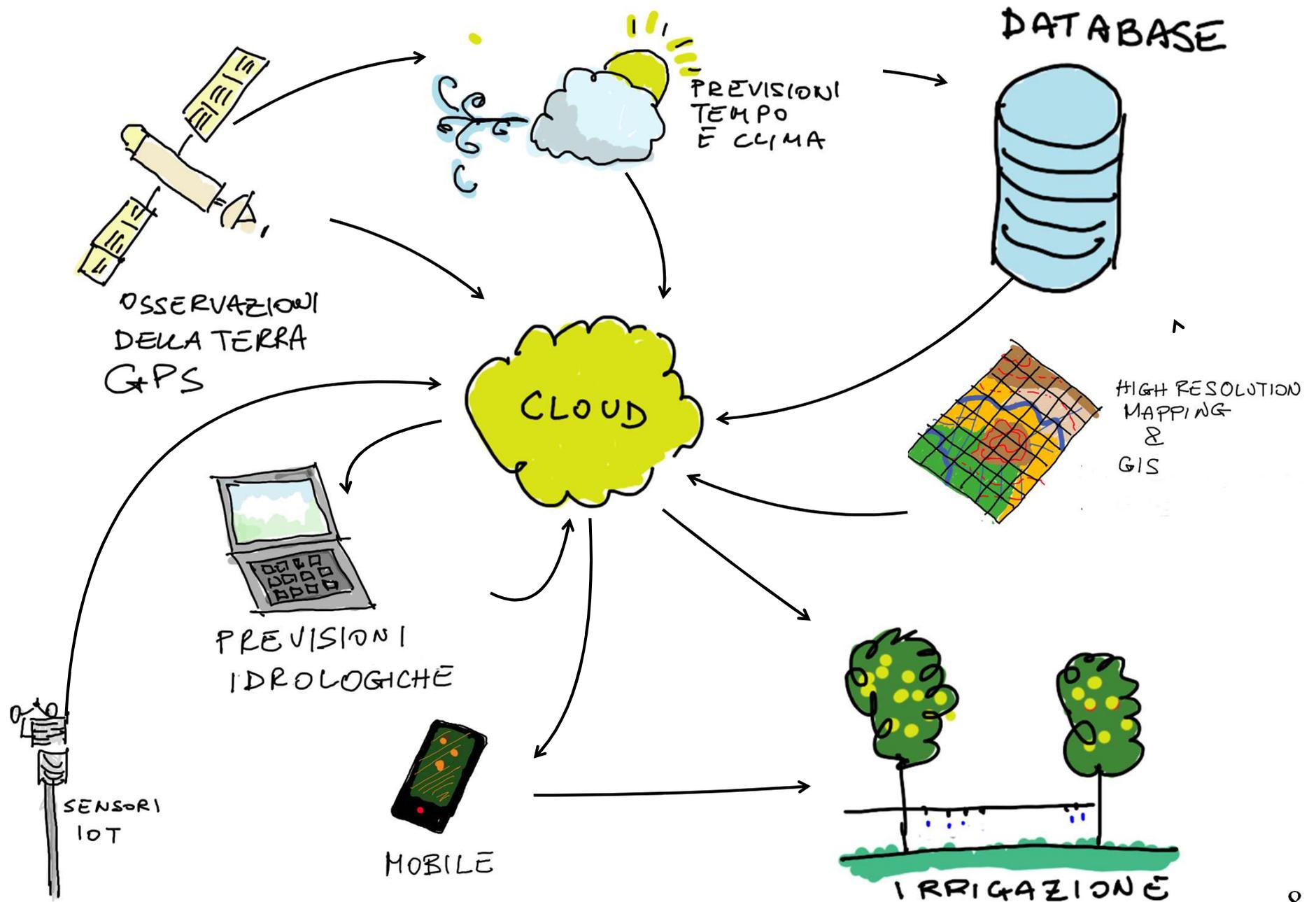


SOCIOECONOMIC

Occurs when the demand for an economic good exceeds supply as a result of a weather-related shortfall in water supply.

Solidaridad

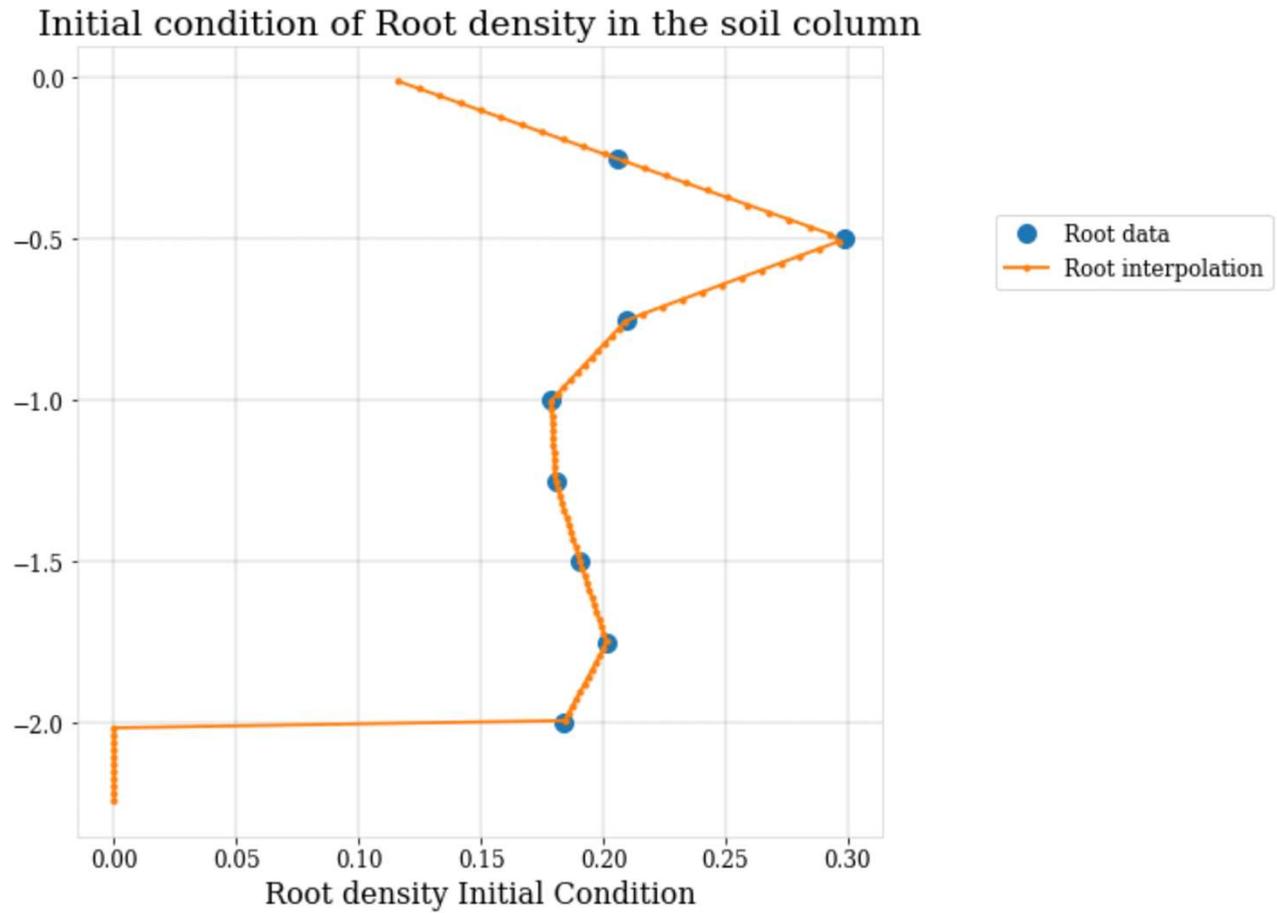
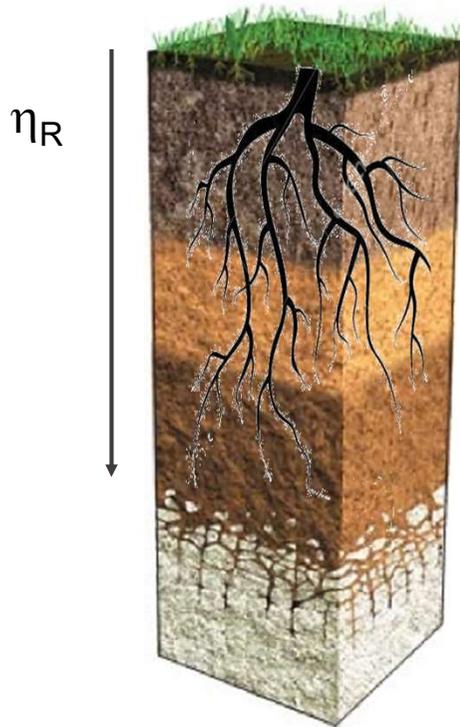
https://twitter.com/Solidaridad_SAF/status/1265600775482376192



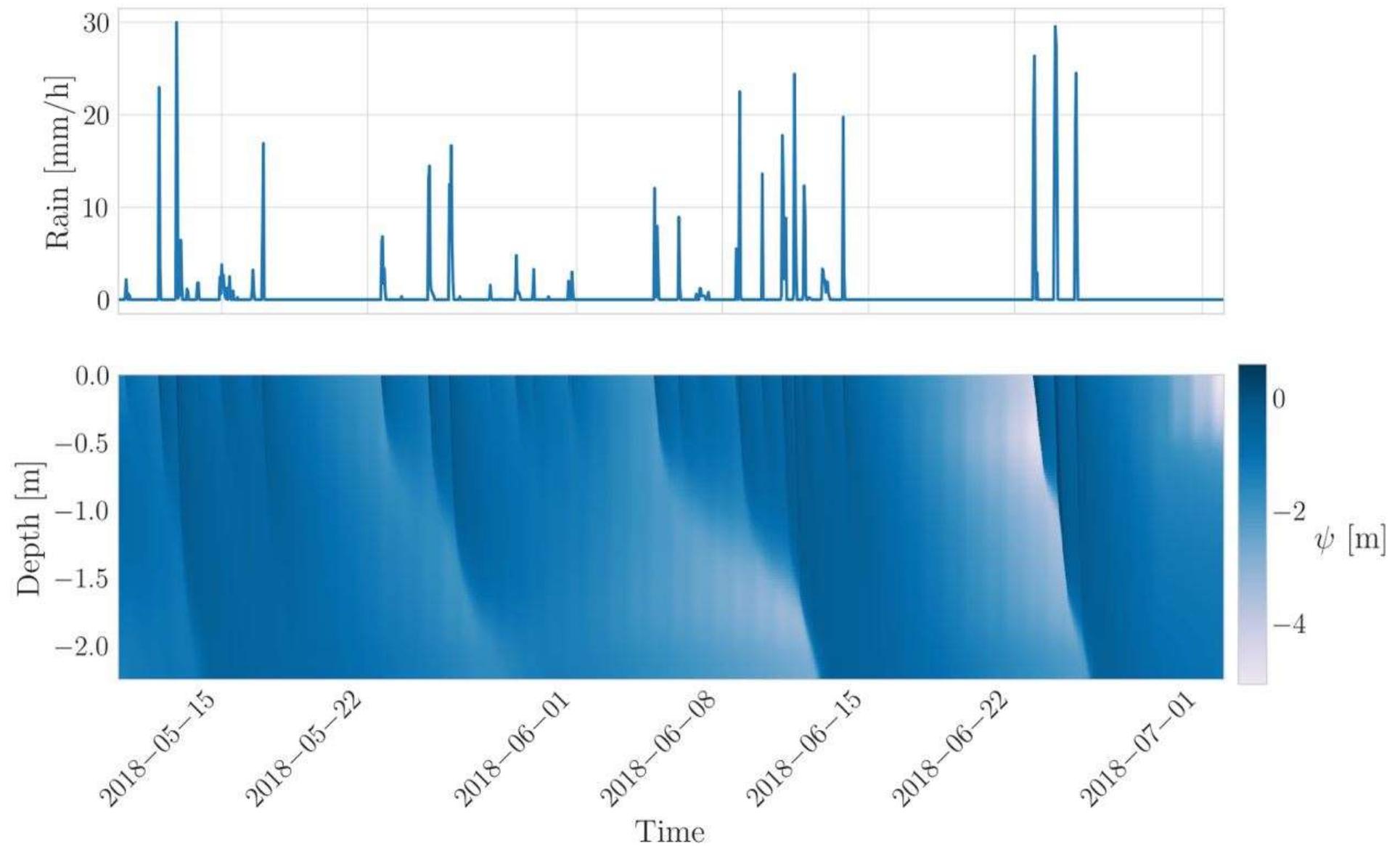
<https://www.guadoalmelo.it/en/roots-the-underground-life-of-the-grapevine-1/>



D'Amato, Tubini e Rigon, 2022



Tubini, Niccolò, and Riccardo Rigon. 2022. "Implementing the Water, HEat and Transport Model in GEOframe (WHE



Wang, Wendi, Eugenio Straffellini, Anton Pijl, and Paolo Tarolli. 2022. "Sustainable Water Resource Management in Steep-Slope Agriculture." *Geography and Sustainability* 3 (3): 214-19. <https://doi.org/10.1016/j.geosus.2022.07.001>.

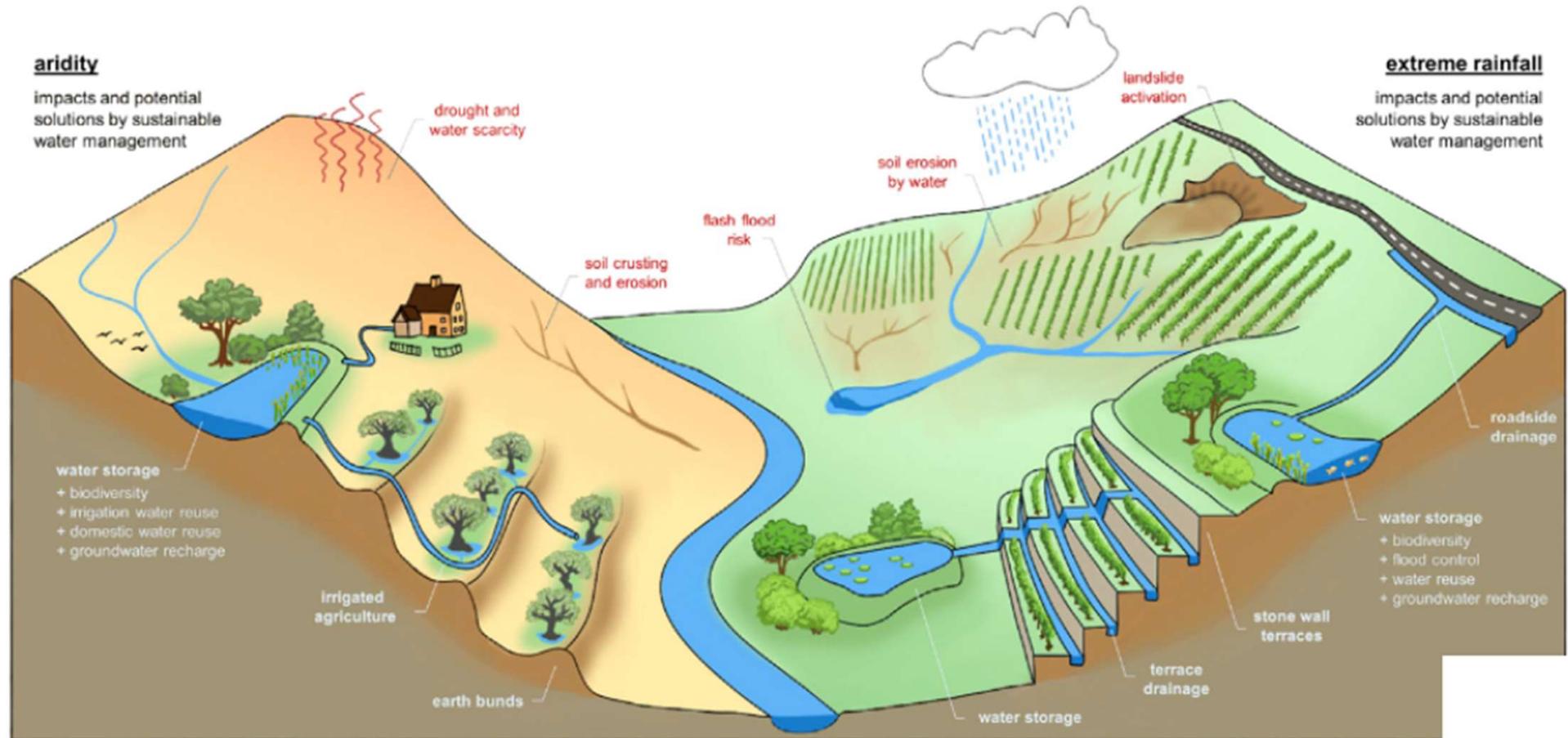


Fig 2 Illustrazione di due sfide climatiche nell'agricoltura di versante: aridità (a sx), eccessive precipitazioni a dx. In rosso gli impatti, in blu esempi di azioni sostenibili e mitigatrici.

Infos @



G.Ulrici, 2000 ?



This presentation



**Reproducible
Research**



Earth's digital twins



GEOTop essentials



GEOframe essentials



OMS3 essentials

This presentation @ <https://osf.io/s7gnb>