



Transforming **U**nsustainable management of soils
in key agricultural systems in EU and China.

Developing an **i**ntegrated platform
of alternatives to reverse soil degradation

Il progetto TUdi per migliorare la qualità dei suoli

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CNR-STEMS



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Colture di copertura

Studio in vigneto
(Rocchetta Ligure 2023)



Vegetazione
spontanea



Colture di
copertura

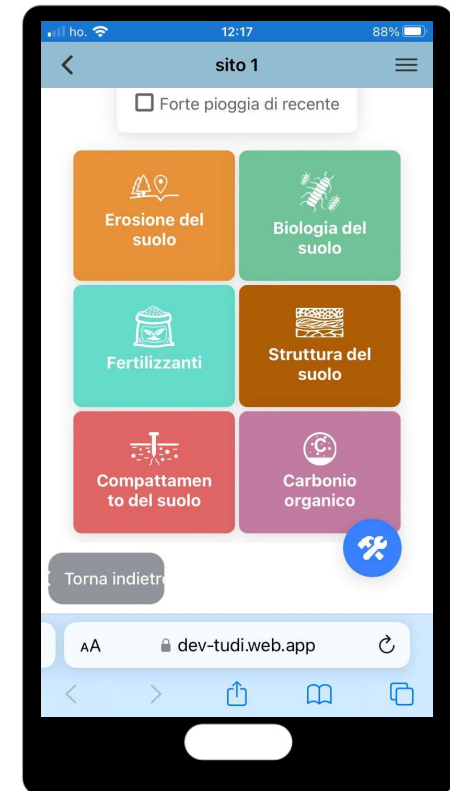
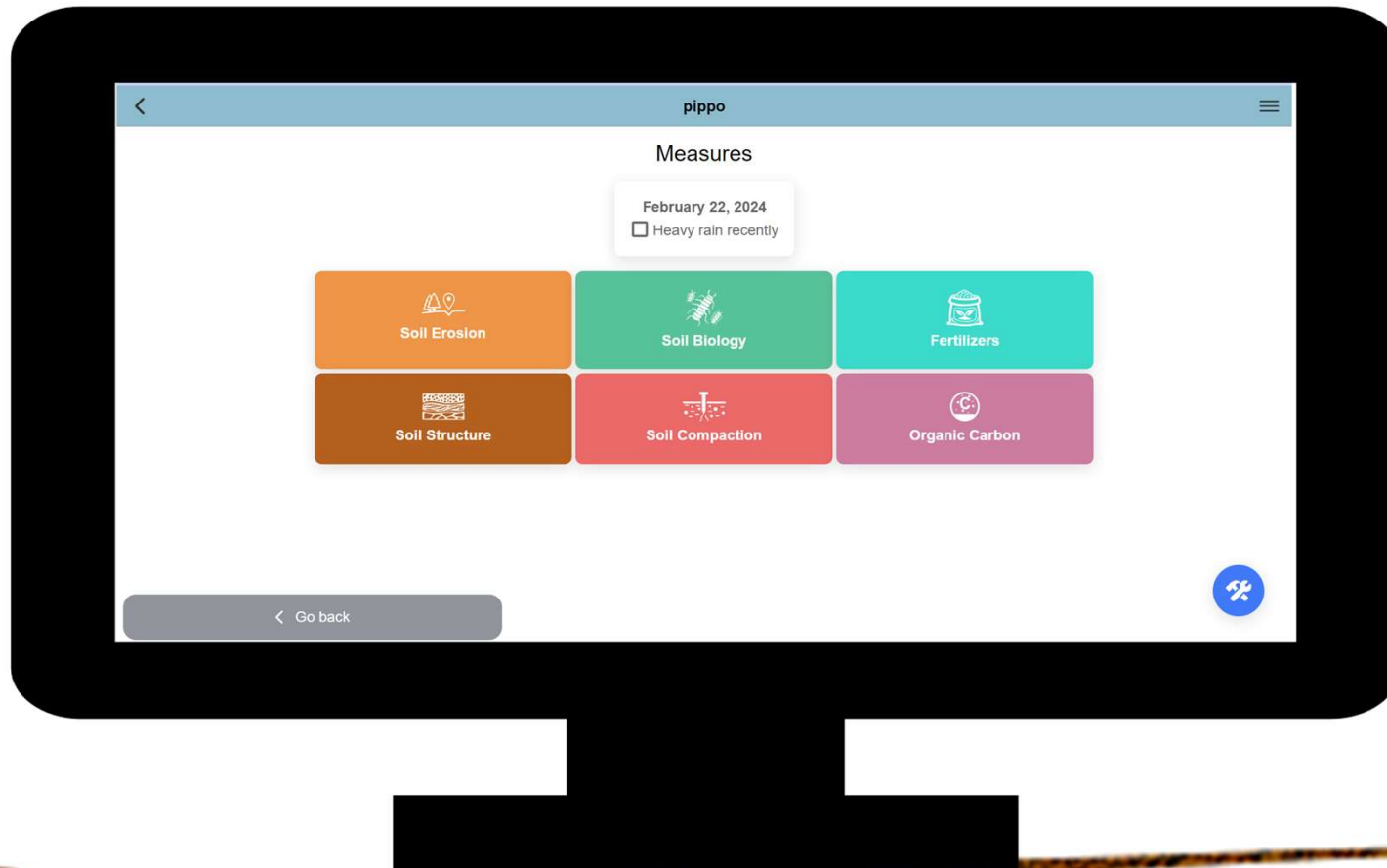


Colture di copertura

Studio in vigneto (Rocchetta Ligure)

	Vegetazione spontanea		Colture di copertura		Suolo nudo
Specie di piante	15 (geranio, potentilla, ranuncolo, trifoglio)	😊	10 (veccia, fava, orzo, senape)		0
Copertura suolo	89%	😊	90%	😊	<5% (morto)
Animali e loro tracce di scavo	pochi		abbastanza	😊	pochi
(Biomassa vegetale)	(0,4 kg/m ² s.s.)		(1,30 kg/m ² s.s.)	😊	0
Compattamento (dens. app.)	1,14 g/cm ³	😊	1,38 g/cm ³		1,17 g/cm ³ 😊
Compattamento (penetrometro)	1,33 MPa		0,89 MPa	😊	0,90 MPa 😊
Infiltrazione acqua	9,35 cm/h		16,5 cm/h	😊	12,1 cm/h
Umidità	24%	😊	21%		22%

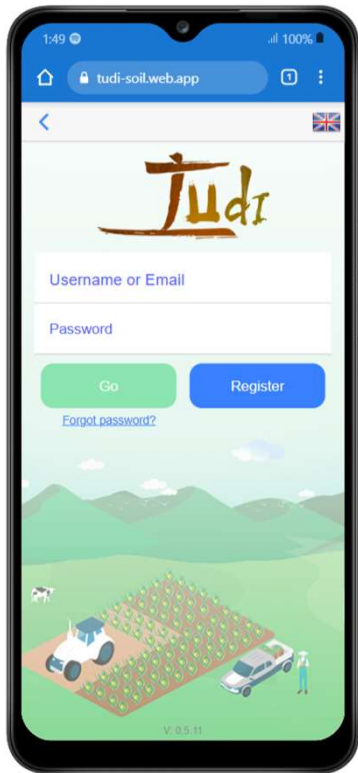
Strumenti per il Supporto alle Decisioni



TUdi APP

<https://tudi-soil.web.app>

Providing Soil Decision Support Tools (DST)

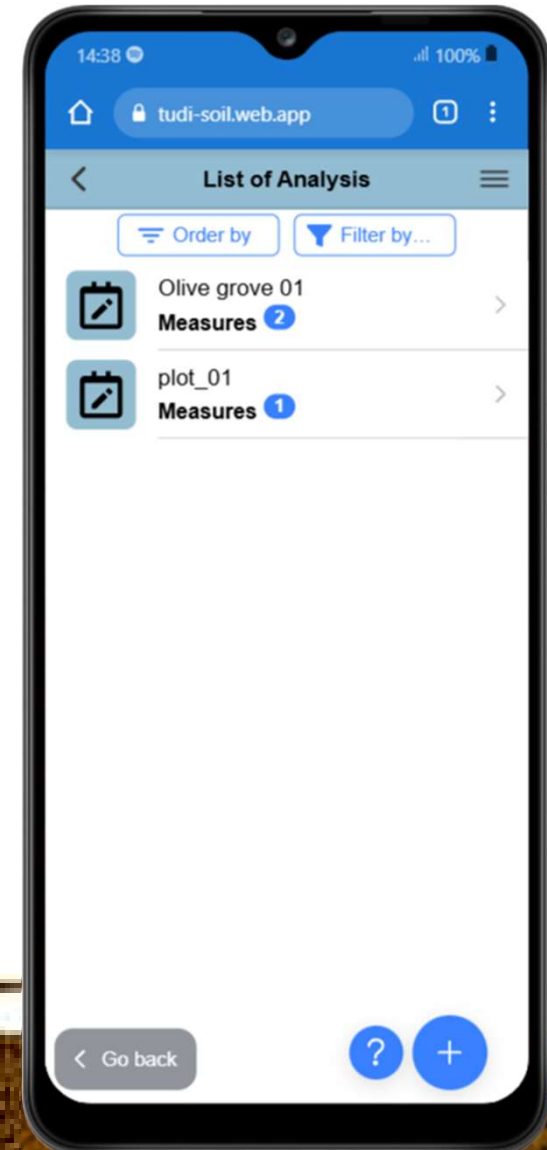
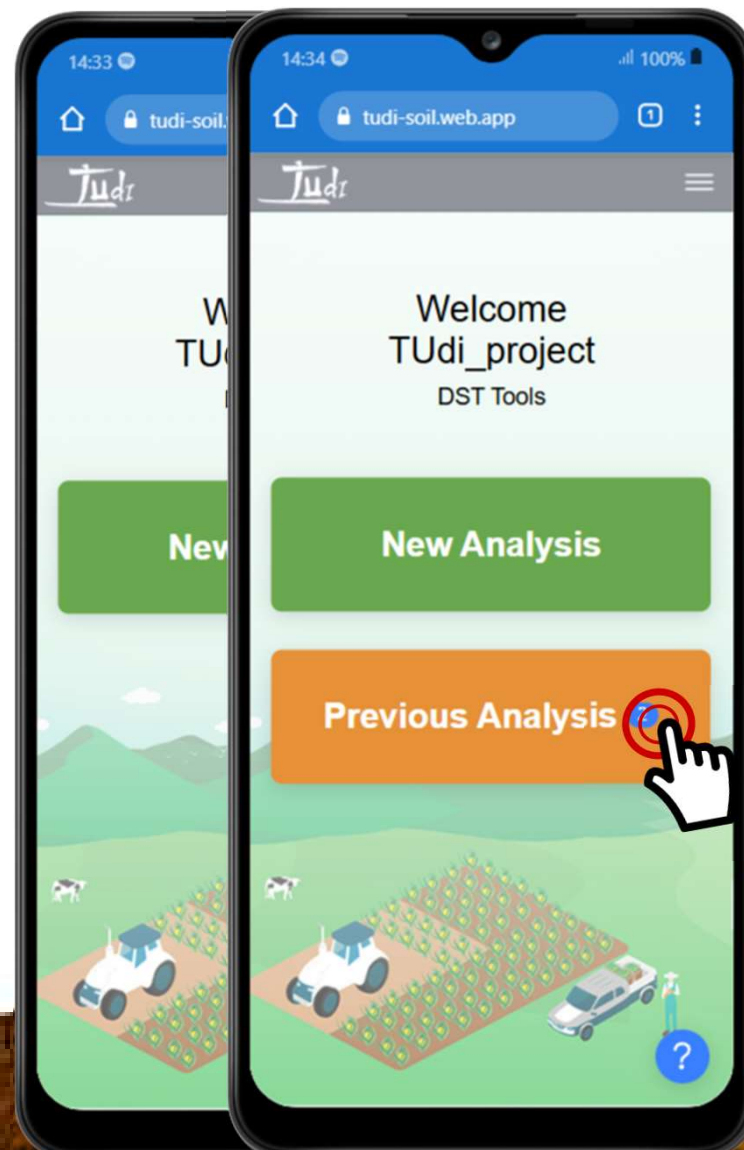
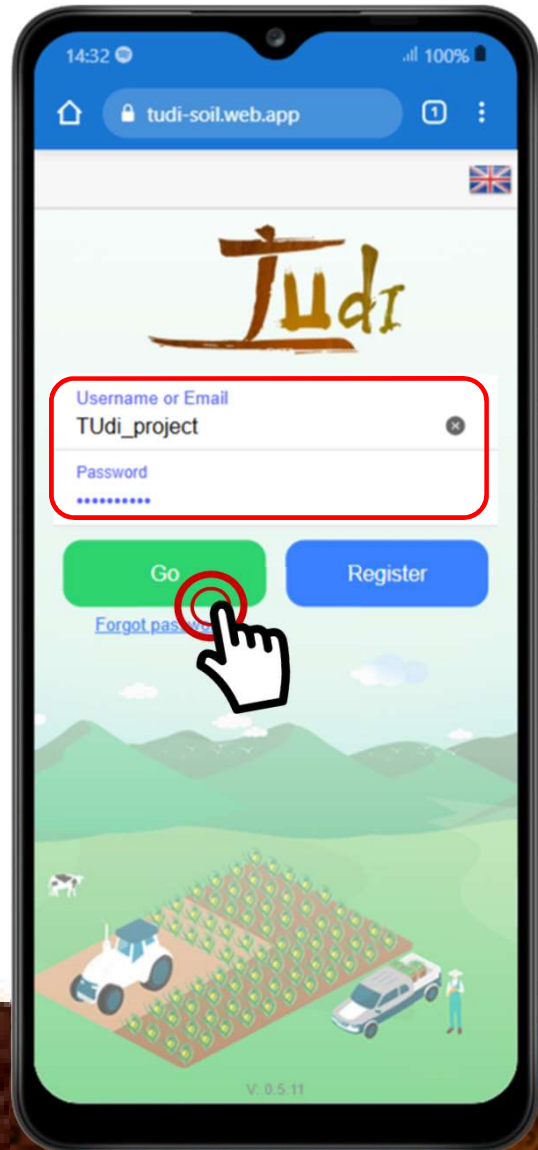


- PWA (progressive web application)
 - PC / mobile / tablet
 - Browser / Install
-
- ✓ Soil condition assessment
 - ✓ Nutrient balance



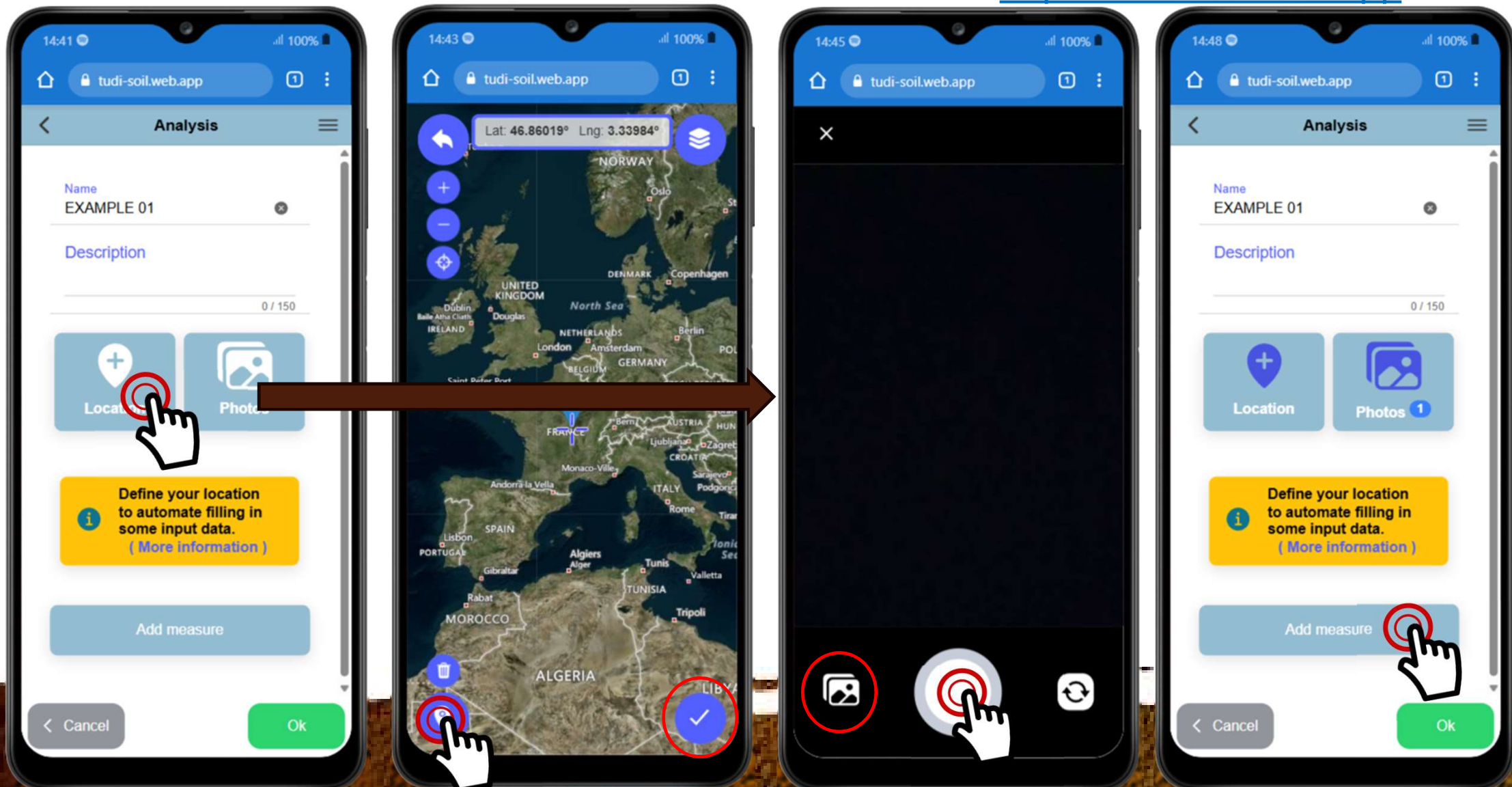
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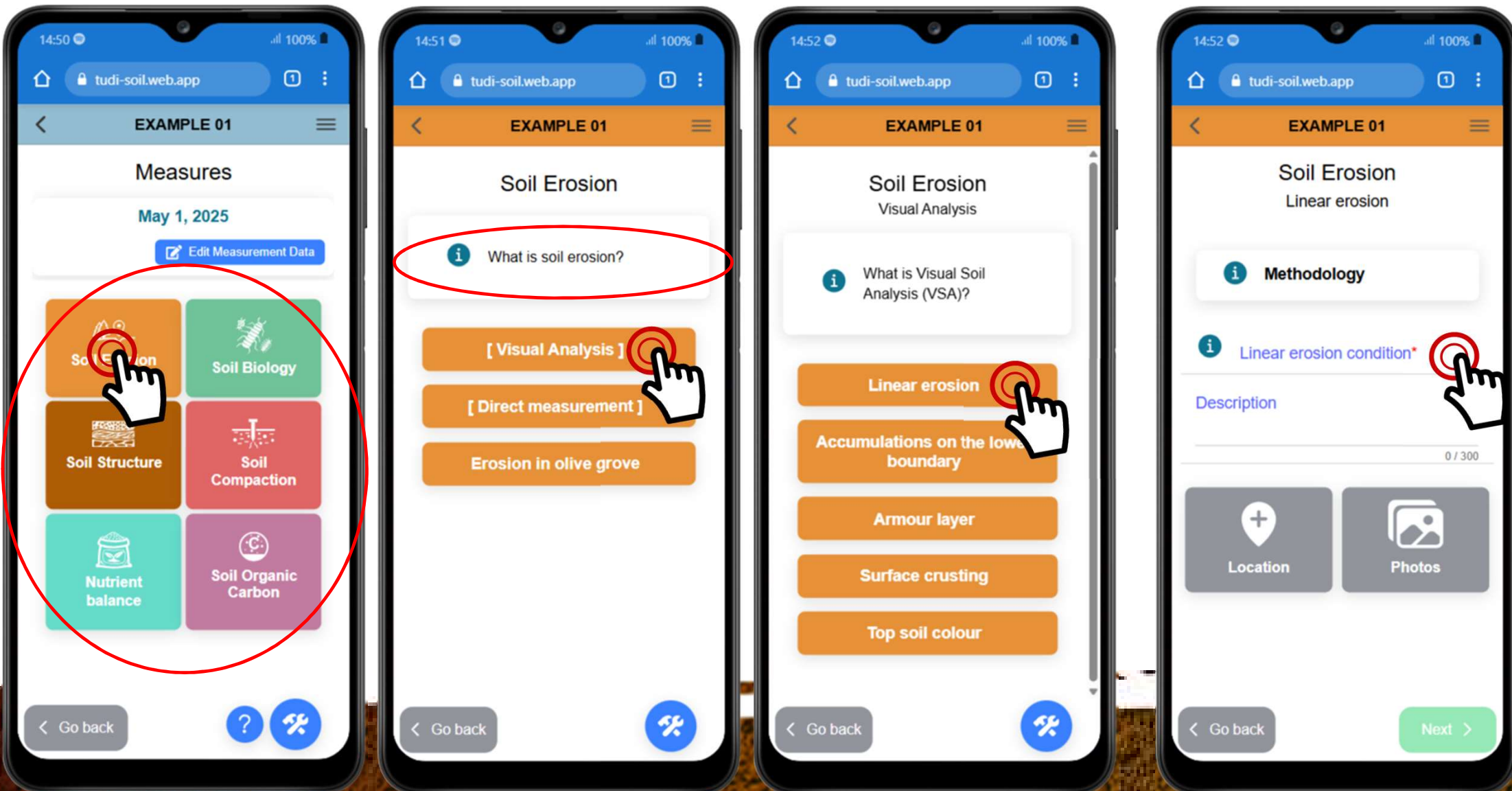
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