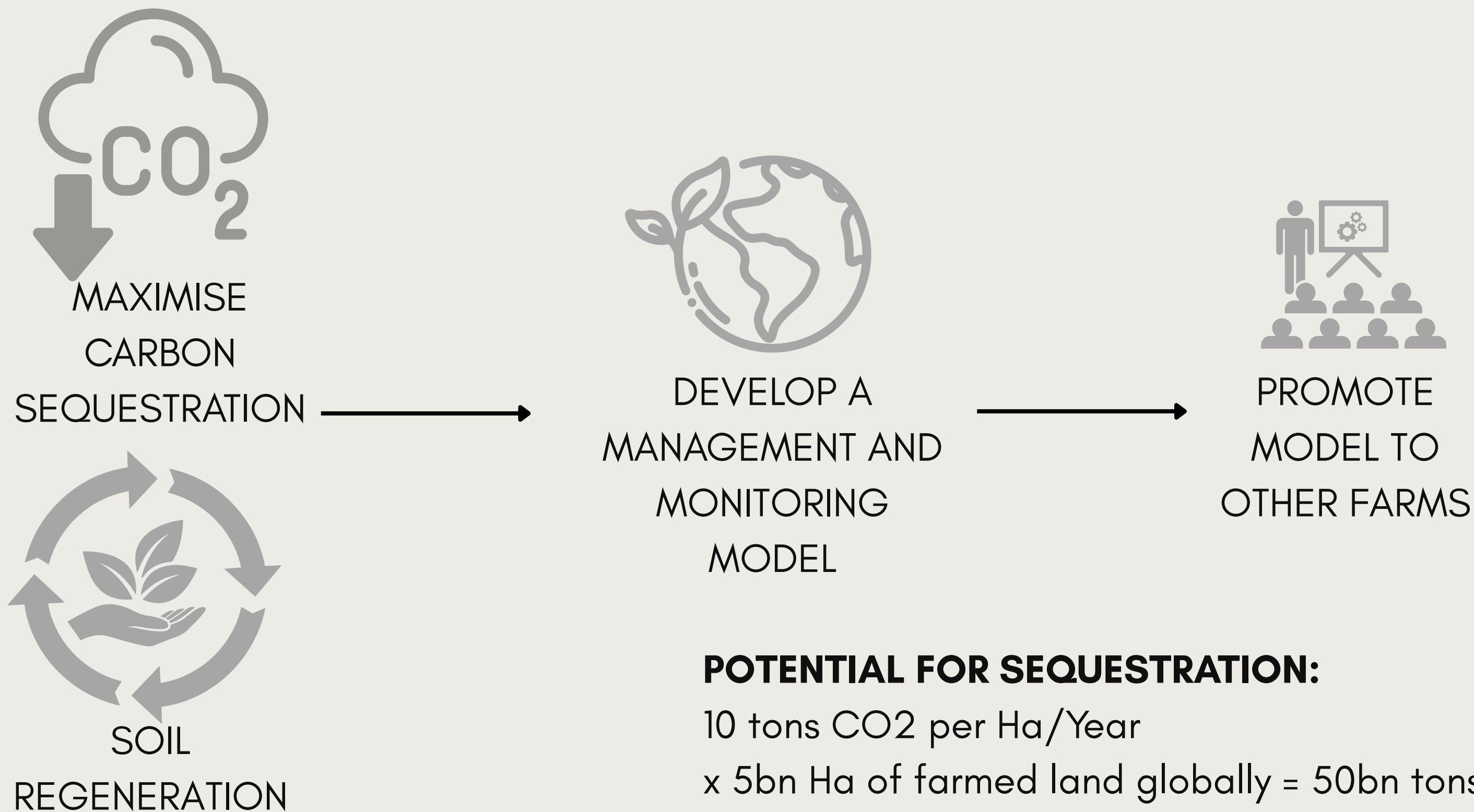


CARBON FARMING PROJECT



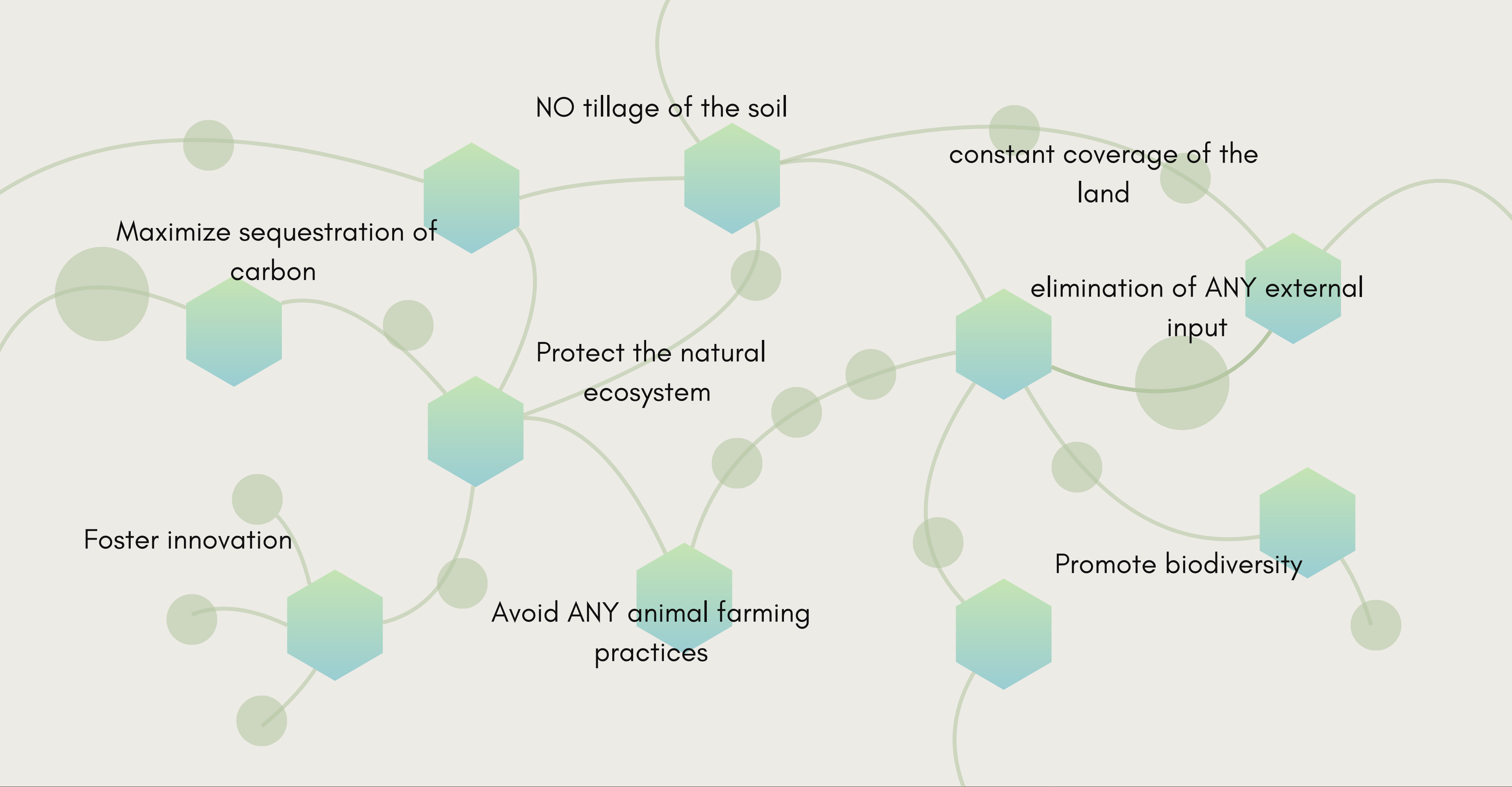
RISERVA
MARTIGNANELLO



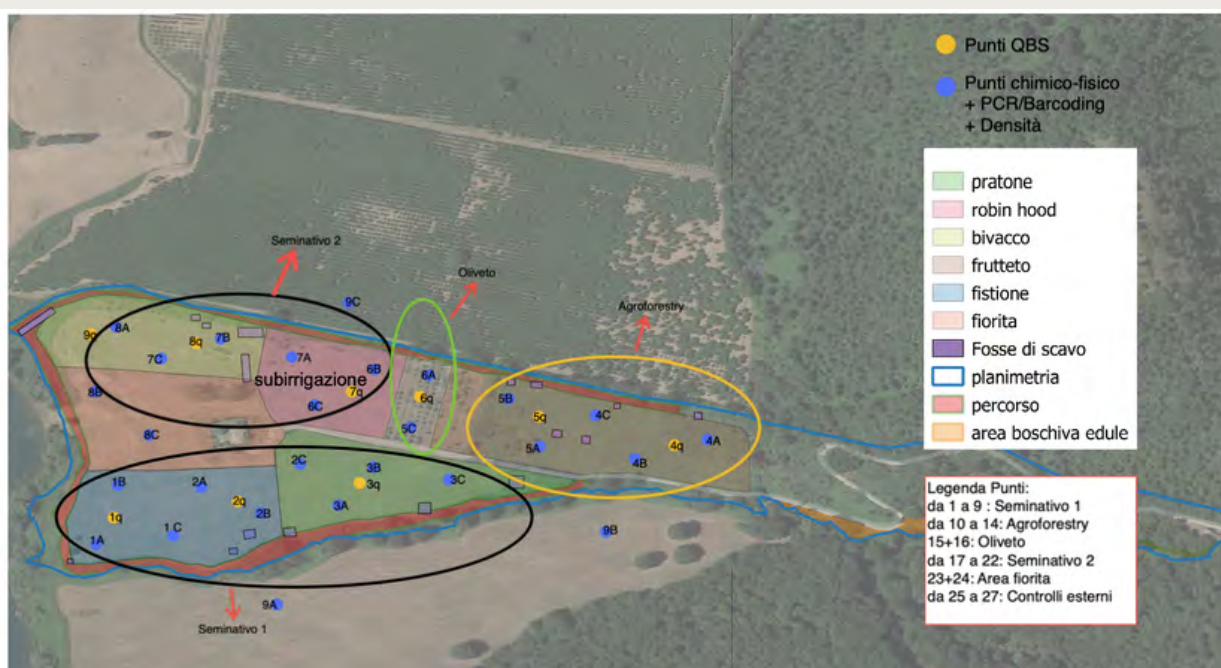
POTENTIAL FOR SEQUESTRATION:

10 tons CO₂ per Ha/Year
x 5bn Ha of farmed land globally = 50bn tons CO₂
MORE THAN total global emissions (42bn tons in 2024)

source: Dr Elaine's Soil Food Web School



KEY PRINCIPLES



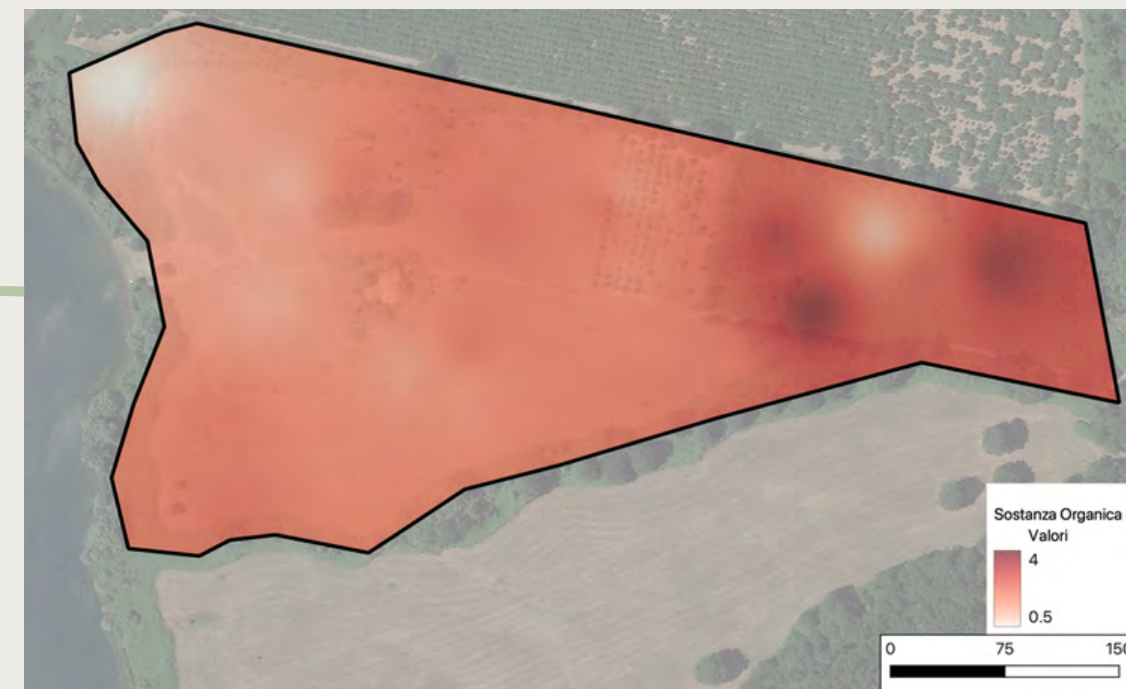
Method:

georeferenced work scheme

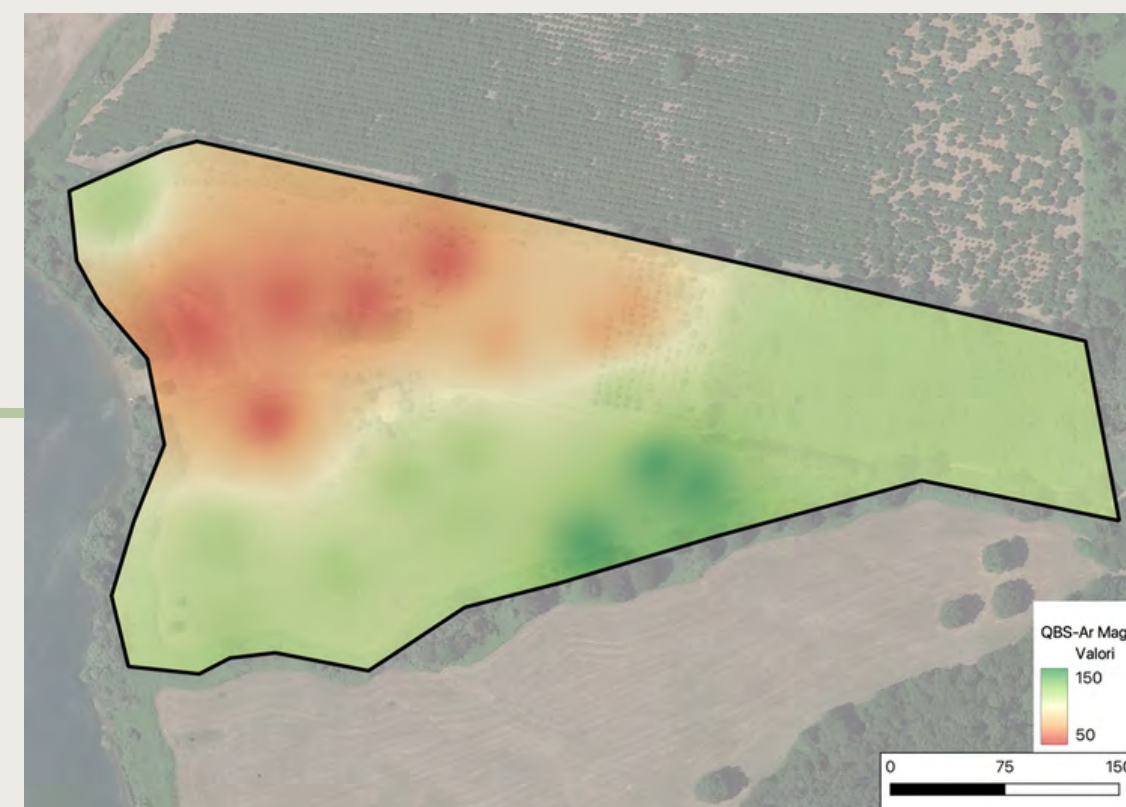
methods applicable in the future to obtain carbon credits

9 main sampling points , 3 replicates= 27 samples

SOIL ANALYSIS



physico-chemical



biological quality
(QBS-ar method)

BASELINE

Riserva
Martignanello



PRACTICES CARRIED OUT

Agroforestry

Static
composting
method

Flowering area for
eco-schemes
+ beekeeping

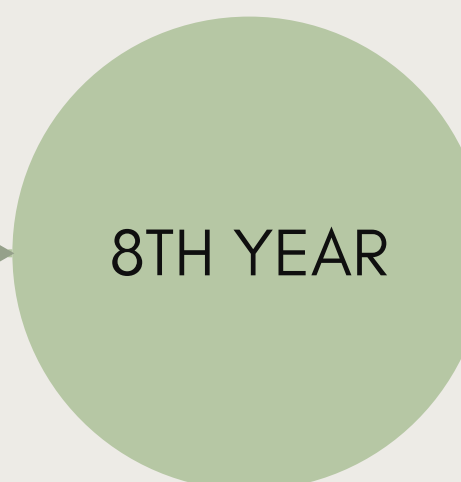
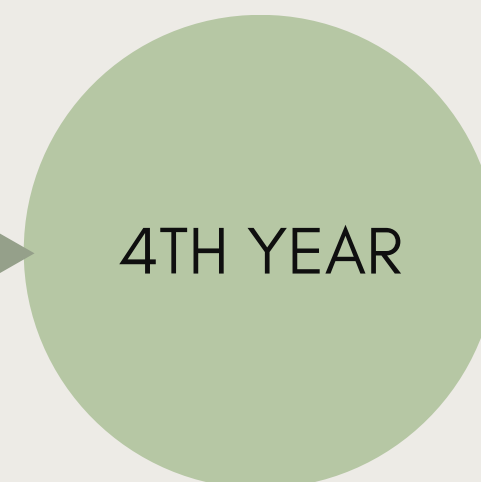


AGRICULTURAL PRACTICES CARRIED OUT

Riserva
Martignanello



UNIVERSITÀ
DEGLI STUDI
DI PADOVA



TESTED PARAMETERS:

- **Chemical & physical:** all common parameters
- **Biological quality:** QBS-Ar
- **Microbiological qualitative & quantitative test:** Total DNA, Metabarcoding and Real-time PCR

- **Chemical:** total organic carbon (TOC), Nitrogen, pH
- **Biological quality:** QBS-Ar
- **Microbiological qualitative & quantitative test:** Total DNA and Real-time PCR

- **Chemical:** total organic carbon (TOC), N, P, K, S, pH
- **Biological quality:** QBS-Ar
- **Microbiological qualitative & quantitative test:** Total DNA, Metabarcoding and Real-time PCR

TIMELINE

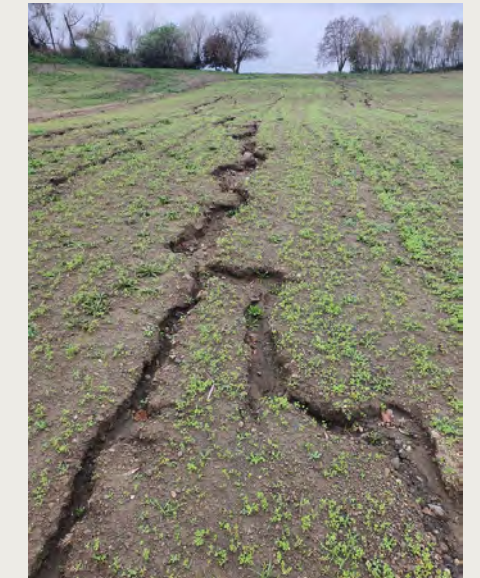
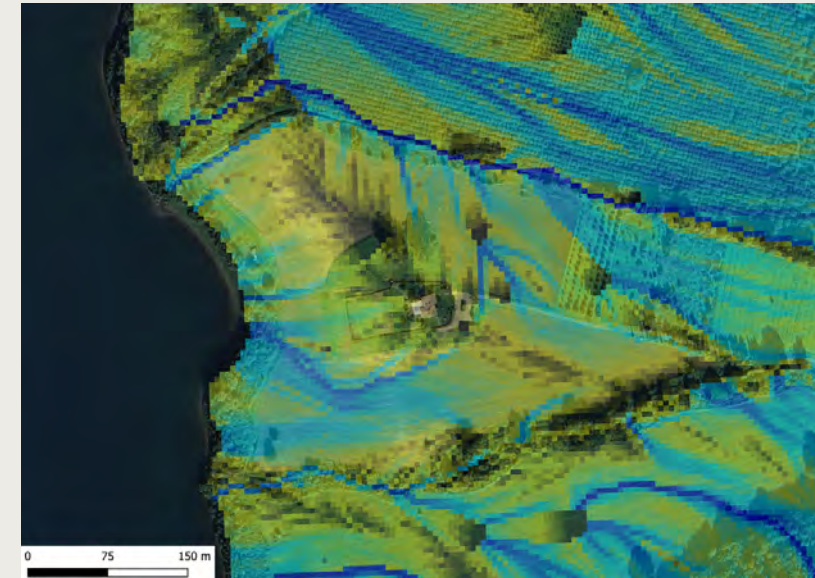
Riserva
Martignanello

PLANNED ACTIONS

Agroforestry
extended to
the entire
farm



Use compost extract for
fertility and plant protection



erosion control
countour lines

PLANNED ACTIONS

Riserva
Martignanello

FPAtlas

Riserva Martignanello Carbon Farm

×

Sort by Date ▾

Type ▾

Size ▾

Location ▾

Reset filters

OPEN FOREST PROTOCOL

< Back

←



CO₂

Riserva Martignanello Carbon Farm

Martignanello SaRL

Download Zone

Location Italy

Type Reforestation

Size 2.620 ha

About

Timeline

Monitoring

Carbon Data

Project start February 2024

Project duration 50 years

Stage	Data Upload	Stage Status	Start Date	End Date
Stage 1	✓	AFFIRM	28/02/2024	29/08/2024
Stage 2	✓	AFFIRM	29/08/2024	27/02/2025
Stage 3	✓	AFFIRM	27/02/2025	29/08/2025
Stage 4	⊗		29/08/2025	27/02/2026
Stage 5	⊗		27/02/2026	27/02/2027
Stage 6	⊗		27/02/2027	27/02/2028
Stage 7	⊗		27/02/2028	26/02/2029
Stage 8	⊗		26/02/2029	26/02/2030



3D

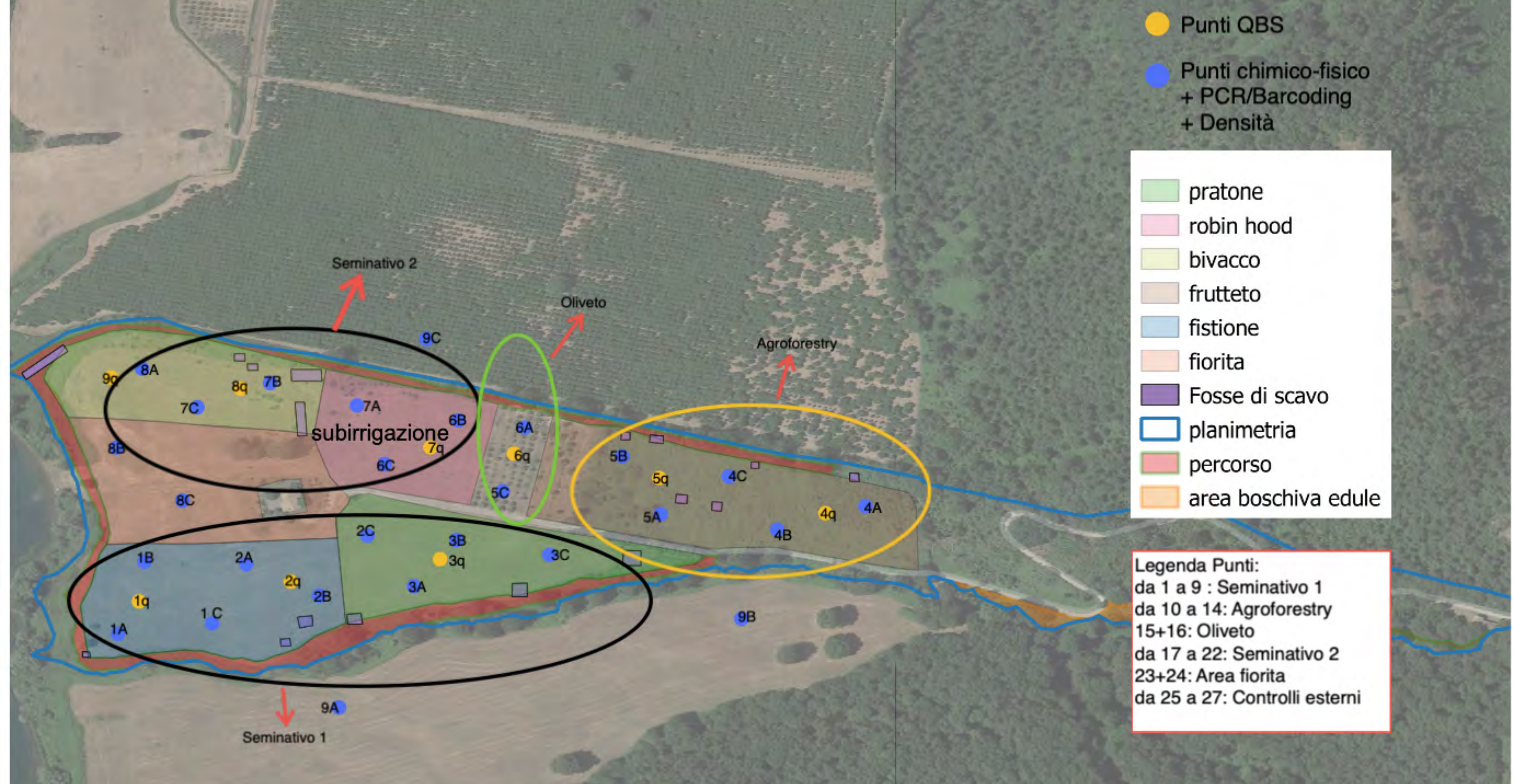
+

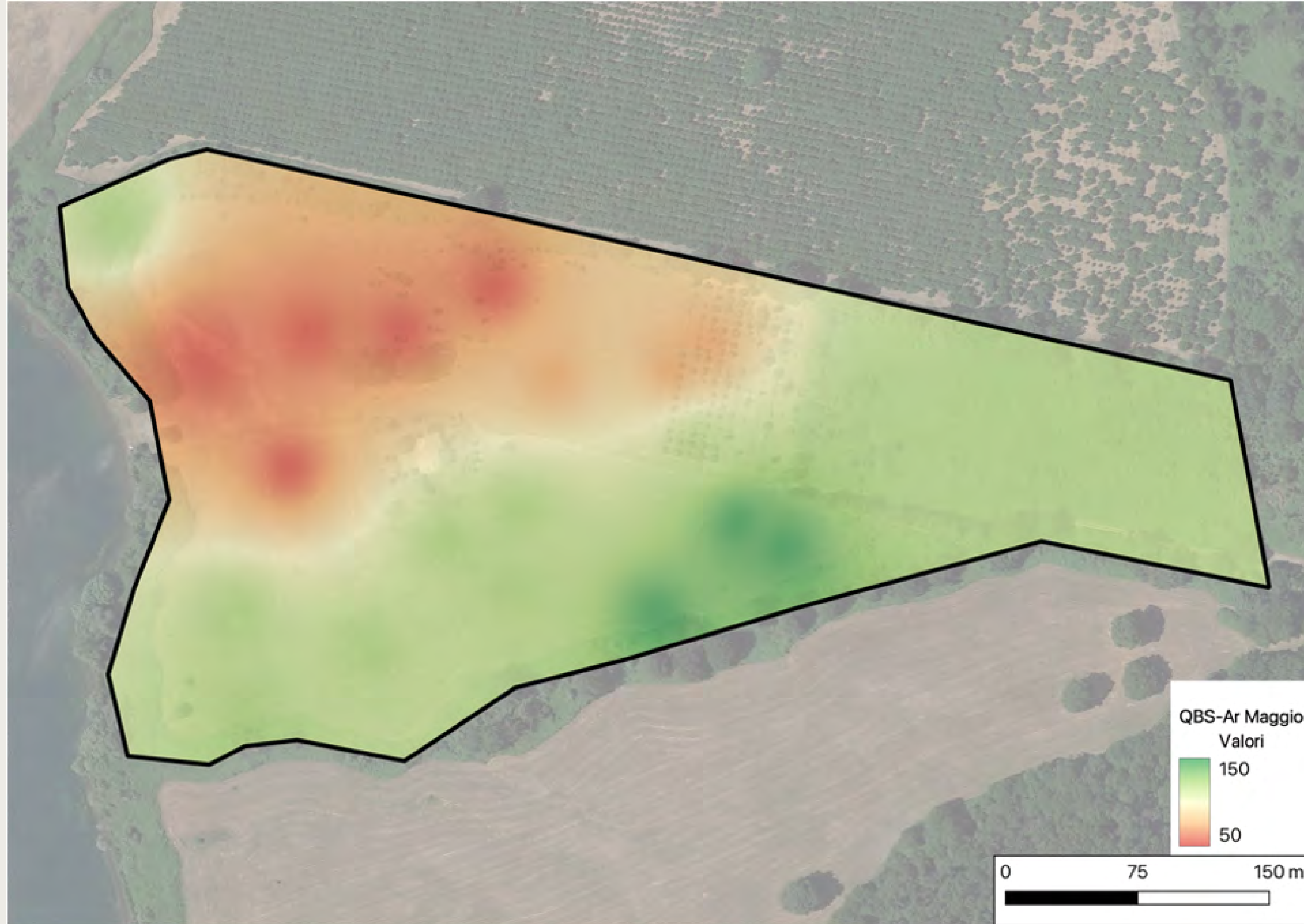
-

Source: atlas.openforestprotocol.org

MONETISING CARBON SEQUESTRATION

Riserva Martignanello





ANNEXES

Riserva
Martignanello

