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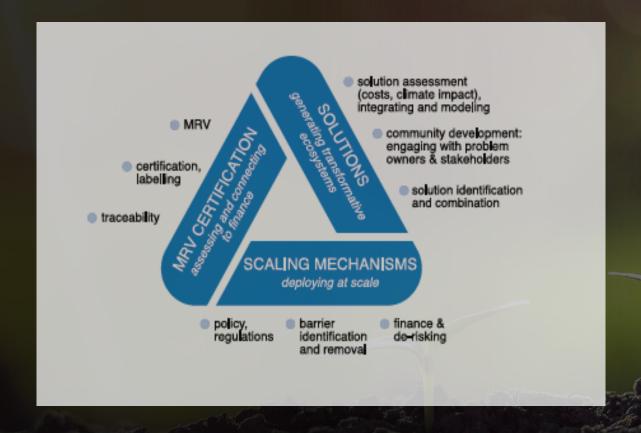






In a nutshell:

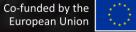
3 pillars



4 transformative cases







Many solutions under development, often by the farmers themselves

Cover crop selection

Machinery design

Compost and biochar production







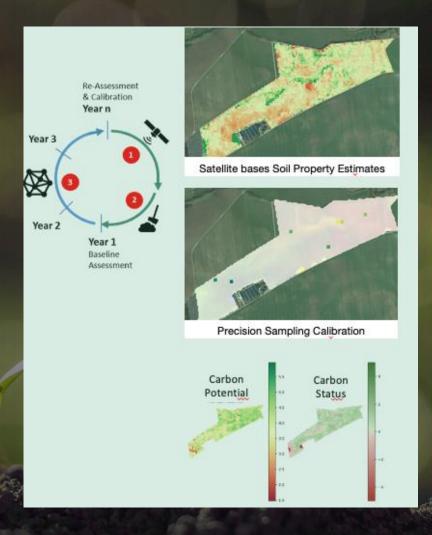


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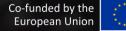


MRV and certification

- <u>Progress</u> with remote sensing tools: 2
 complementary approaches developed:
 - SAFYE-CO2 (INRAe, Cesbio), based on annual carbon balance
 - AgriCircle: based on Sentinel data and machine learning
- <u>Critical</u>: certification approach, need a common framework







Deployment, scaling: many obstacles!

- Carbon farming solutions are not profit-positive for the farmers
- Costs are often > 50€/T of CO2eq sequestrated and order of magnitude of C sequestration is 1T/ha
- Few value chain actors ready to pay that amount: there is a need to combine reward mechanisms (public +private)
- Combination difficult (additionality, double counting issues, lack of coordination)
- Market payments: consumers value carbon neutral products but carbon neutrality needs to be approached at farm level
- Fairness issue: how to reward the first movers?





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