Assessing SOC variation following cover crop introduction: the potential of combining soil and remotely sensed crop models

Pique Gaétan, Goussard Basile, Géraud Andréa
Netcarbon, Bordeaux, France
CESBIO, Université de Toulouse, France
• Decision-making tools are needed to assess Soil Organic Carbon change following adapted management practices

• Important uncertainties associated with the methods using allometric equations

  • Difficulties of estimating below-ground biomass
  • Differences between methods

=> Combined use of remotely sensed crop model and soil model
✓ Validated for:
  - main crops (Wheat, Maize, etc.)
  - cover crops (Field Bean)

✓ Validated against CO2 flux data
  → Reducing uncertainties on soil carbon inputs