



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

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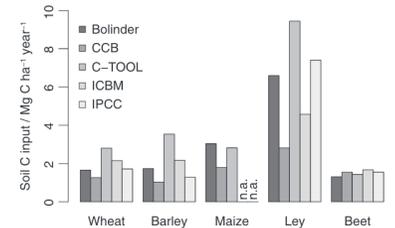
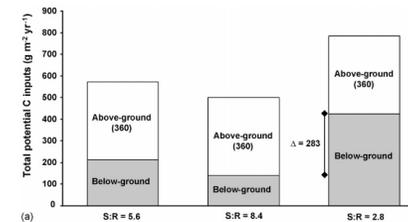
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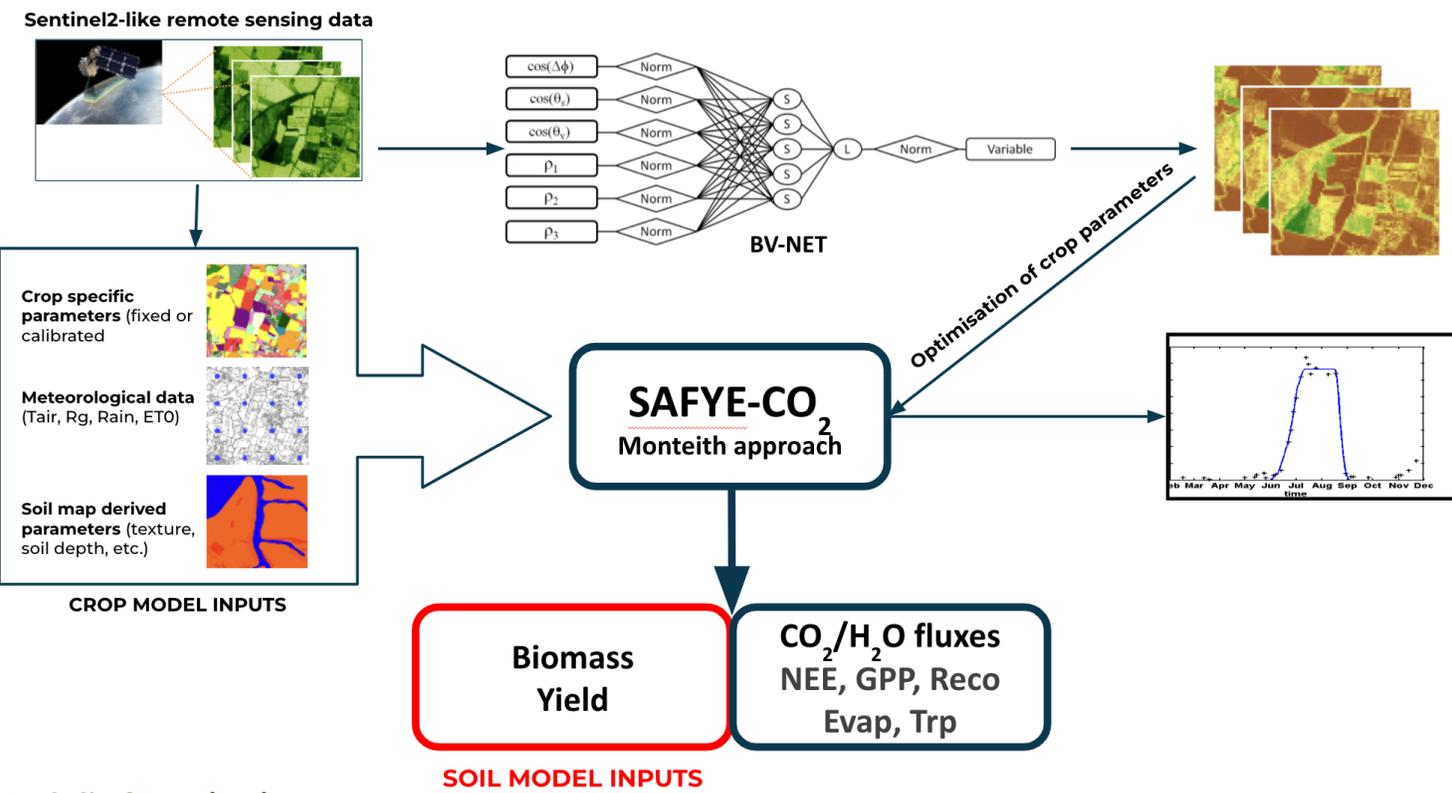
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- Decision-making tools are needed to assess Soil Organic Carbon change following adapted management practices
- Important uncertainties associated with the methods using allometric equations
  - Difficulties of estimating below-ground biomass
  - 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 CO<sub>2</sub> flux data
  - > Reducing uncertainties on soil carbon inputs

Model's functioning

