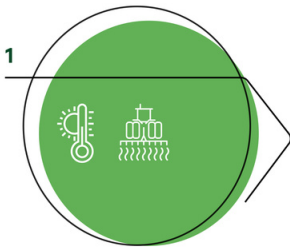


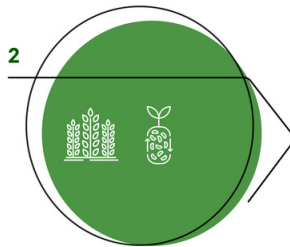
DNDC Biogeochemical Model

A computer simulation model that estimates the influence of agricultural management practices on carbon and nitrogen cycling in soils.



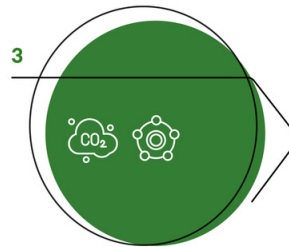
Inputs

Climate, soil properties, & management practices. Grower input and publicly available data.



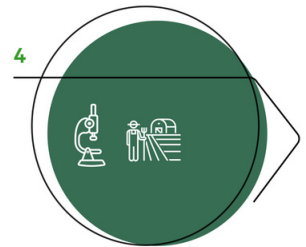
Simulation

Algorithms that simulate soil processes use model inputs to digitally recreate the effects of farming practices on soil health.



Prediction

Carbon sequestration and greenhouse gas emissions are predicted based on simulated in-field denitrification and decomposition rates.



Validation

Model predictions are verified using field level measurements and peer reviewed studies.