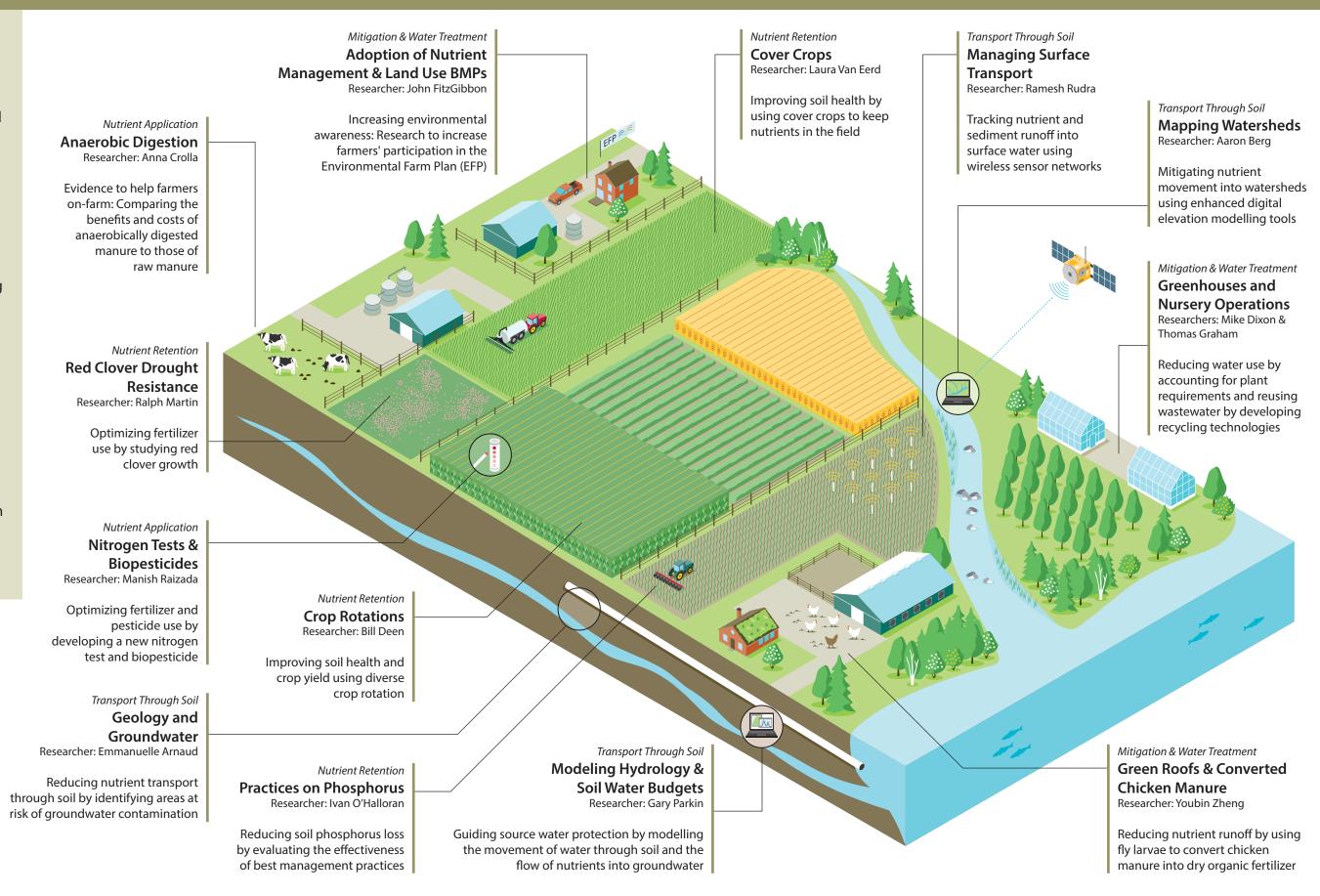
Nutrients such as phosphorus and nitrogen are key to crop health and productivity. But if allowed to move, nutrients can travel off-farm, reduce water quality and increase costs for farmers.

The OMAFRA-U of G Agreement helps keep nutrients on-farm by supporting research that advances our understanding of the nutrient transport system – from application and retention to transportation and mitigation – and to develop evidence-informed best management practices, tools, and technologies.

Taken together these projects create a toolkit for producers to reduce on-farm nutrient loss, enhance productivity and contribute to a healthier environment.







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Greenhouse gases (GHGs) – such as carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), and indirect GHGs like ammonia (NH₃) – contribute to climate change and are produced as byproducts of agricultural practices. While agriculture can be a source of GHG, it can also provide solutions through adopting existing best practices and green energy production.

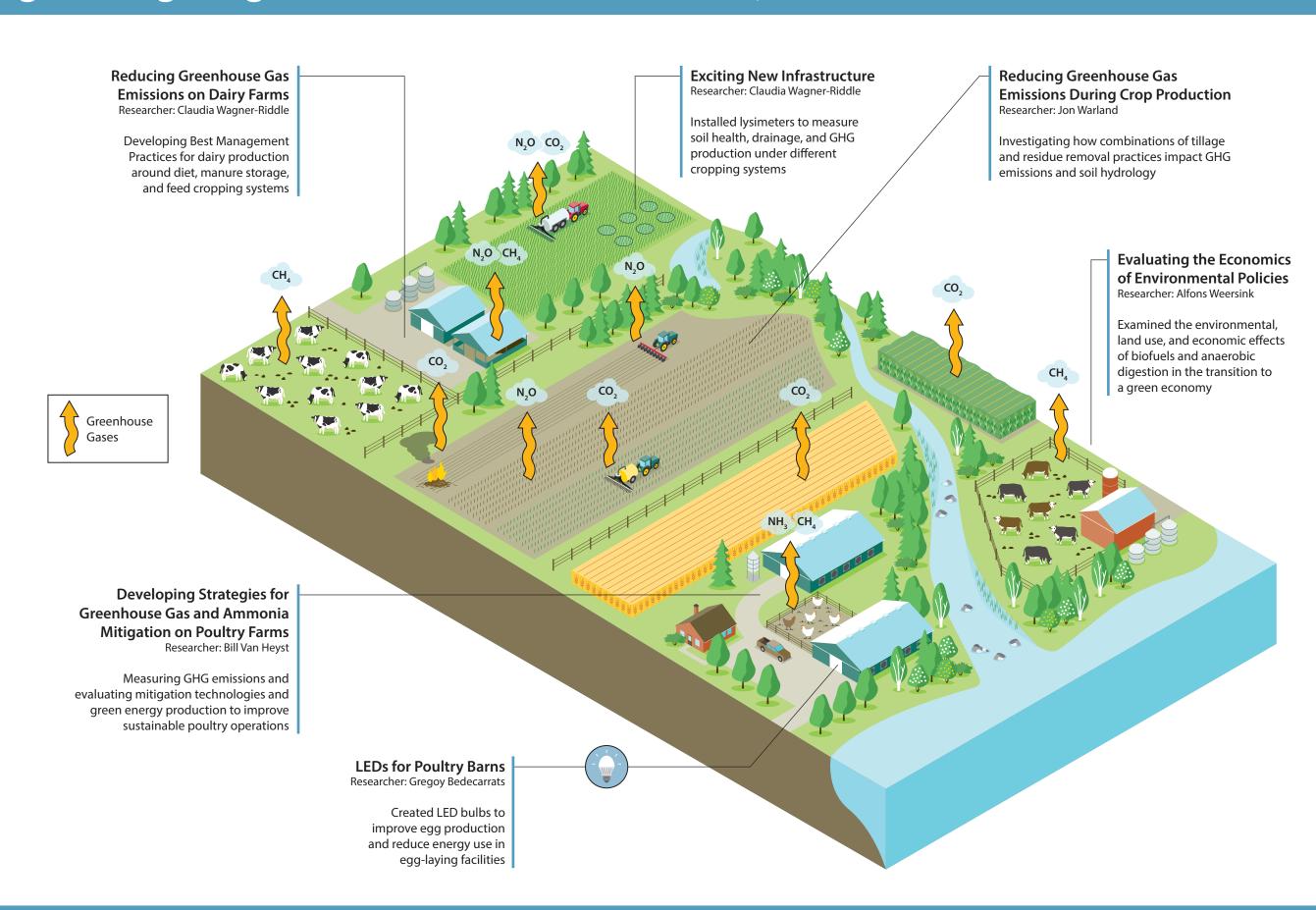
Finding ways to reduce the GHG foot print of farming is vital to long-term food sustainability. Farmers also need the best available research to adapt their practices to a changing climate.

The OMAFRA-U of G Agreement funds research projects that reduce GHG emissions and conserve energy through evidence informed policies, tools, and Best Management Practices.





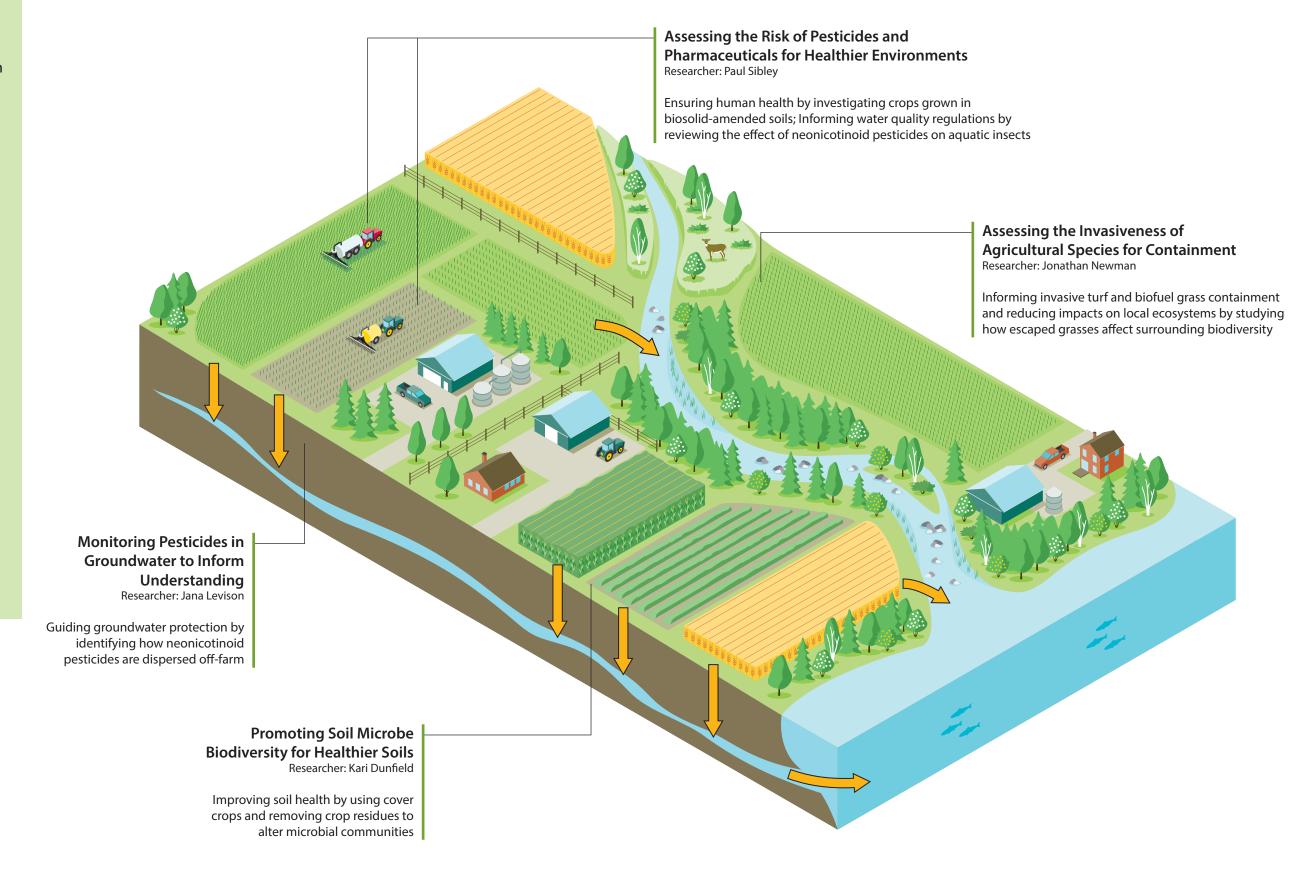
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Biodiversity is a measure of the variety of life in an ecosystem. It includes both the life forms we can see, as well as microscopic plants and animals. Given the amount of land farming uses, agriculture has an important role in protecting water quality, supporting soil health, and promoting biodiversity. On-farm biodiversity can help to cycle nutrients, reduce runoff, increase crop yields and support the ecosystems in the surrounding environment.

The OMAFRA-U of G Agreement supports research that helps limit the environmental impacts of agricultural operations, develop evidence-informed Best Management Practices and work with industry partners to protect Ontario's biodiversity both on and off-farm.

Taken together these projects create a toolkit for producers to protect local biodiversity, enhance productivity and contribute to a healthier environment.







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