also recognize that the economic pressures of our current reality do not always incentivize the practices that will keep Manitoba's prairies healthy and productive for future generations.

It's time for a whole system approach to agricultural resiliency and soil health

"In 2018, we declared our position on regenerative agriculture, especially around soil-boosting practices such as armouring the soil, covering the land, and livestock grazing integration," says MFGA Executive Director Duncan Morrison. "Regenerative agriculture aligns with natural areas. We want to help advance ecological goods and services, which are all those natural benefits

revolves around water

"What the software does is simulate the movement of rainfall and snowmelt through he soil profile, over the land surface, through the river and stream channels, and through the groundwater system," explains Aquanty Senior Scientist Steven Frey. "The technology's ability to simulate the integrated groundwater and surface water system gives us a much better ability to simulate water availability for crop growth. This is a leading-edge tool that helps farmers adapt their management practices in the face of more extreme climate. Nothing like this exists anywhere in the world other than Canada

"When you don't have water, you do have problems," says Lawrence Knockaert, chair of the MFGA's board, and a dairy farmer, "With the right focus and support, this tool can be a difference-maker around water and carbon by championing the natural areas and farmer-led soil management practices needed for our ag lands to prosper via profitability with added climatic resiliency and boosting the incredible

values that our agricultural areas provide." The flow of water is the key to under standing and protecting the magic locked in Manitoba's soil. And now, for the first time, those who work that soil have the tools they need to make the strongest decisions for the future.

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