



# IMPACT PROJECT

**Monitoring network  
for efficient use of  
water and pesticides in  
sugarcane production**





# CONTEXT



Local climates have a big impact on the success of agricultural production. The Brazilian sugar-energy sector has been facing major challenges with prolonged droughts and severe frosts in the Center-South region.

This situation threatens producers, the bioenergy sector, and the communities financially dependent on the activity.



# THE PROJECT

To address these challenges, Raízen/Pulse and Arable's project will promote sustainable sugarcane production with a rational use of resources.

It aims to test, validate, and scale a monitoring network for efficient use of water and pesticides.



Using data from in-field sensors and data analysis, producers will align irrigation and pesticide application with weather pattern data.





# THE PROJECT

The project aims to:

- Help producers better manage their production according to the microclimate and mitigate climate risks
- Reduce production costs and economic losses
- Future-proof the bioenergy sector in Brazil and contribute to the energy transition.



# ARAÇATUBA, SÃO PAULO STATE

The project will take place in the Center-South region of Brazil, in the micro-region of the city of Araçatuba, state of São Paulo.

This region has a recent history of prolonged droughts, severe frosts and water deficits. The climate challenges have resulted in bankruptcy for some sugarcane producers and very discouraging conditions for the rest.

Overall, there has been a negative financial impact on the region.



# EXPECTED OUTCOMES

- Better management of crops and resources e.g., improved use of input, identification of best period for planting, water stress mitigation techniques.
- Continuity of sugarcane producers' economic activity, through the reduction of planting failure, loss and risks.
- Economic empowerment for the region, with the generation of revenue from the production of raw materials for bioenergy, biofuels and food (sugar, energy, ethanol).



# BONSUCRO IMPACT FUND



The Fund invests in impact projects that address critical sustainability challenges in the sugarcane sector.

It uses income from the sale of Bonsucro Credits. All trades are charged a transaction fee, around 50% of which is invested into the Bonsucro Impact Fund.

We thank all the companies that purchase Credits for making these projects possible.