

# Modular Automation Kit for Boom Sprayer focused on Local Smallholders and Family Farmers

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## ➤ Objectives

- Develop a modular automation kit for boom sprayer focused on local smallholders
- The kit should integrate a smartphone interface, visual perception, localization system and the automation modules
- Build three kits to be evaluated on real field trials in partnership with a Partnership with Family Farmers Union

## ➤ Expected Impact

- Optimize the use of pesticides using a plug-and-play system with good tradeoff between performance and cost
- Introduce Local Smallholders and Family Farmers in the Agriculture 4.0
- Transfer technology to the students to create a startup capable to commercialize the kits

