

Precision Fruticulture

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ABSTRACT:

The concept of precision fruticulture may provide a valuable approach for sustainable fruit production. From a farmers' perspective "farming with sensors is so much easier", since knowledge on the crop in real-time assists precise management decisions. To meet this goal, sensors should collect data in-situ in the production of fruit and post-harvest. On one side, tools of information and communication technology (ICT) exist to support the data collection in the process, while on the other hand the translation of sensor data into information on the crop is still challenging. The attribute measured by the sensor needs to be analysed with a physiological model for obtaining plant information. Subsequently, the plant information needs to be turned into knowledge for supporting the decision making in the agronomic process. Examples show that this concept may be feasible.

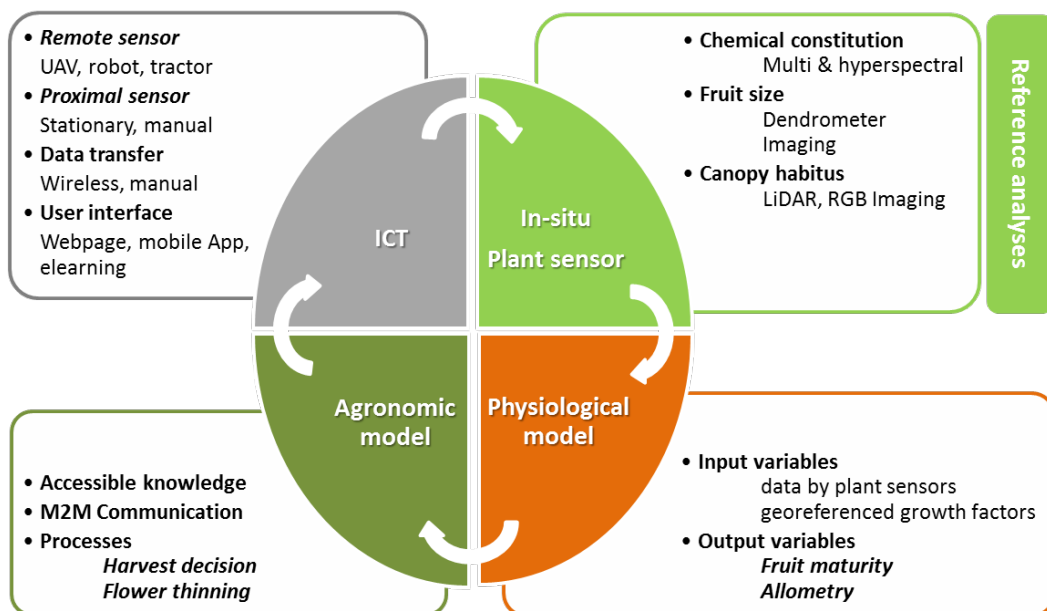


Figure: Schematic on turning sensor signals into knowledge showing the example of flower thinning and harvest management.