



Tools to address current irrigation management challenges in citrus production

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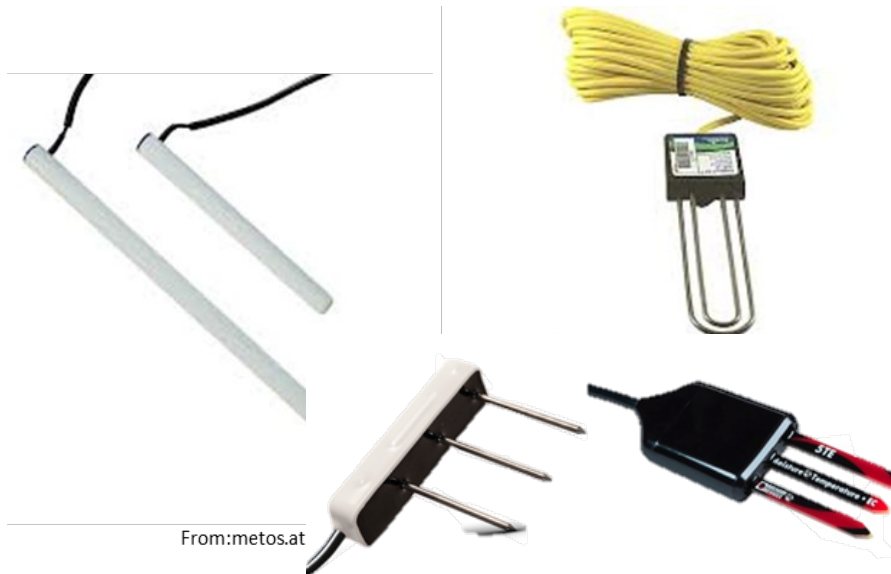
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Current State of citrus production in FL

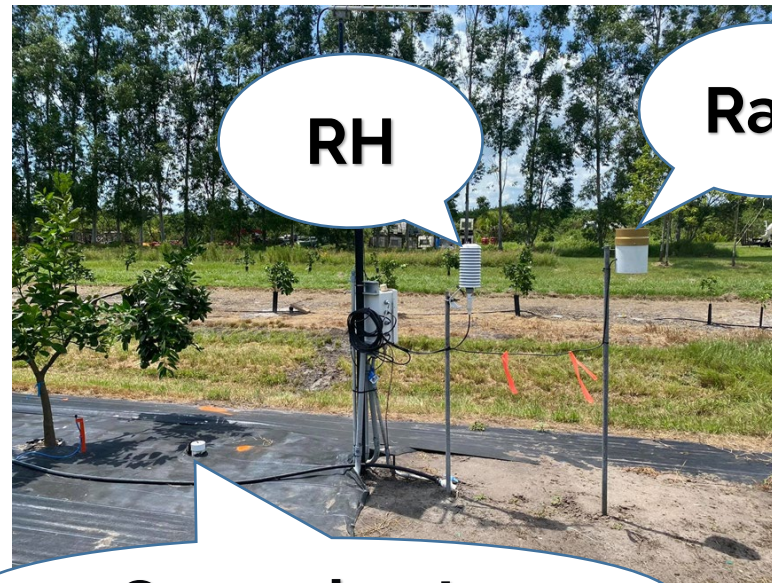
- Citrus greening influences tree water and nutrient uptake
- Frequent irrigation (less time) or “spoon-feeding” reduces tree water stress
- New plantings are moving towards high density (from 160 trees/ Acre to up to 300 trees/Acre)

Sensors used for irrigation scheduling

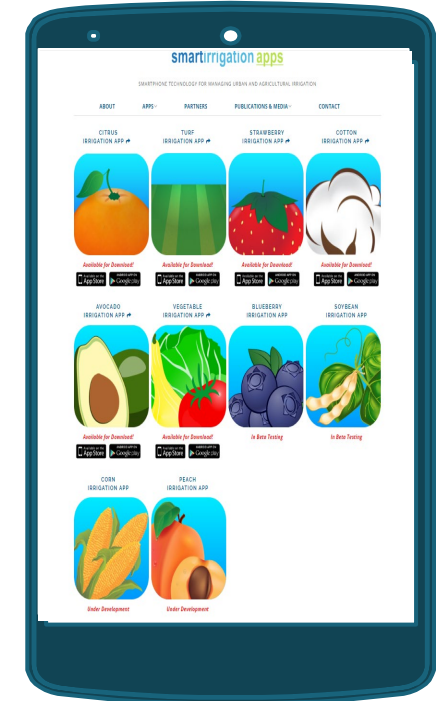
Soil water sensors/probes



Weather stations



Apps



Challenges on adoption of irrigation technology

01

Lack of trust in the technology efficiency to supply crop water needs

02

Lack of a centralized decision support system (DSS) that incorporate multiple sources of data and multiple sensor brands

03

Reduced flexibility to incorporate outdated and new technologies in an intuitive DSS



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The goal is to have an easy system to make informed irrigation scheduling decisions. This should take in account day-to day farm management issues and the growers input





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Who can use CropMonitor?



Users with sensors in the field but not telemetry systems

We have currently 3 growers testing this system



Users wanting to personalize their irrigation schedule

We add recommendations based on each field



Users that want a centralized system to manage multiple sensors



Users with sensors that have not a data visualization software

We can connect any SDI-12 sensor



Users looking for more technical assistance

With personalized displays the user can select the most appropriate features for scheduling

Research sponsor



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<https://youtu.be/qOhfxNQ9BkQ> CropMonitor demo

Thanks!

Questions?

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