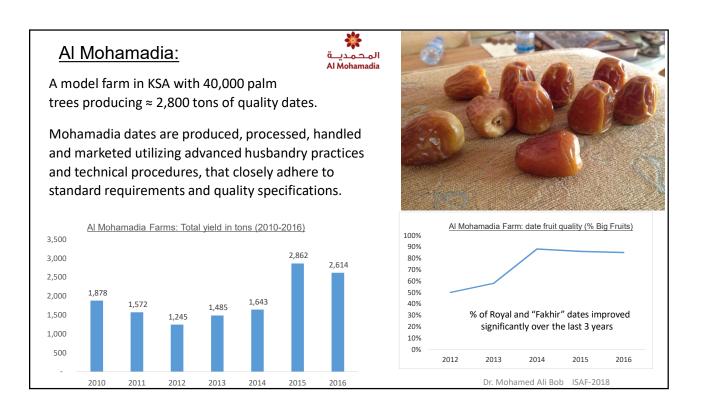


What is DateGIS?

- DateGIS is a cloud-based IT-platform for precision agriculture applications in the date sector
 - Management, mapping, registration, and monitoring services for palm trees, date farms, and RPW traps
 - Mobile applications for in-field data collection and management
 - Input data can extended with satellite, aerial (drone) and/or ground remote sensing data and information
- Analysis of data and information collected in the DateGIS platform for effective Integrated Pest Management (IPM) on farm or regional level (especially RPW)
- DateGIS as a concept has been developed with in-field data and support from Al Mohamadia pilot farm in Al Kharj, Saudi Arabia, who embraces innovations to improve yield and quality and reduce water waste and pest



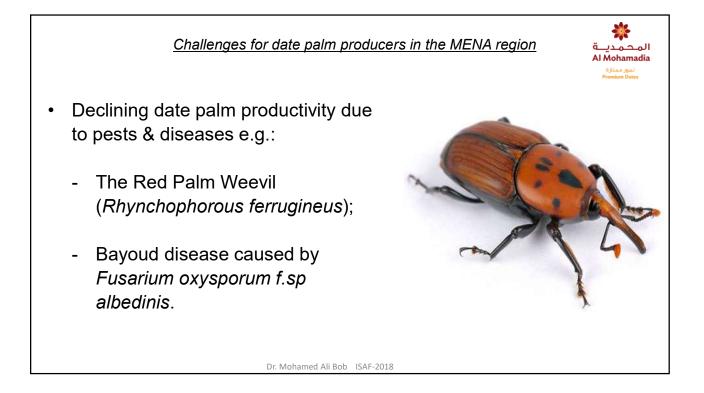
Dr. Mohamed Ali Bob

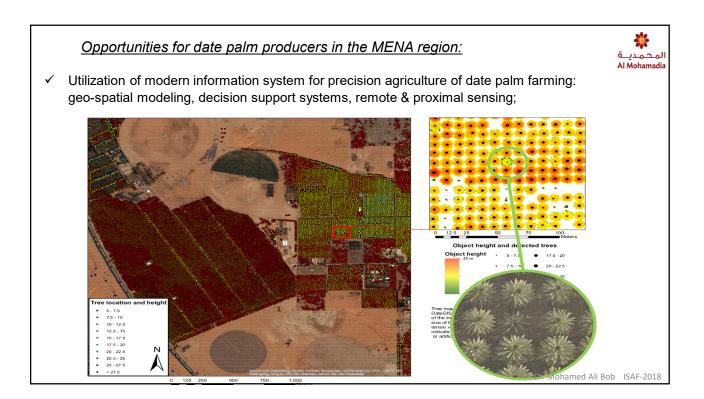
- Farms Manager, Al-Mohamadia
 Dates Co., Al Kharj, Riyadh, Kingdom of Saudi Arabia
- PhD, Agric. Sciences, 1995
- Date farming in the region, last 15 years.

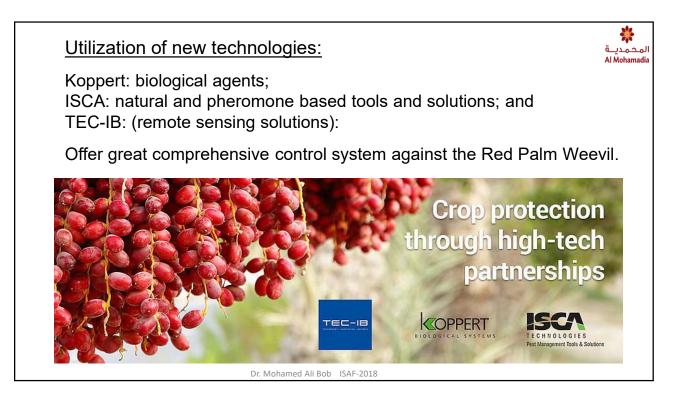
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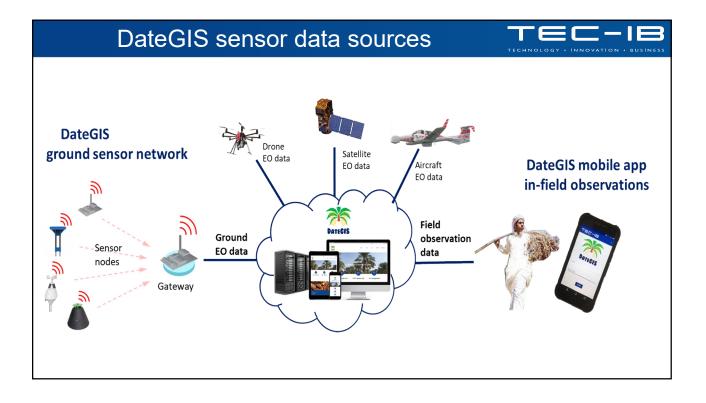


Dr. Mohamed Ali Bob ISAF-2018







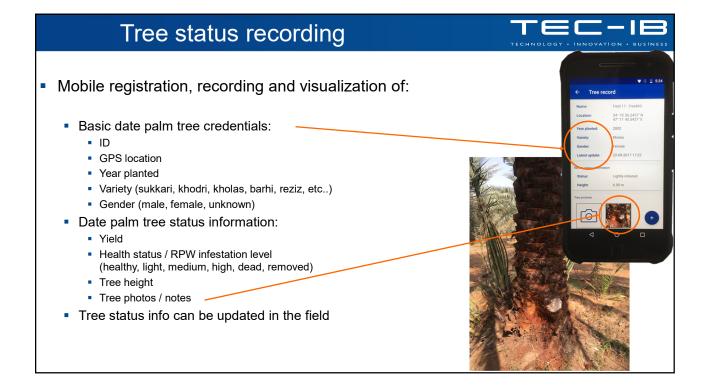


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DateGIS mobile application

- DateGIS Mobile Application downloadable from Google Playstore (Apple store in Q3-2018)
- On-the-go date farm management decision making, field data registration/recording and data documenting
- For farm managers, farm engineers, farm supervisors, scouts, farm input suppliers, agri-consultants, researchers, government administrators, etc.
- In-field operable, even without GSM / internet coverage automatic syncing when connected to (mobile) internet
- Applications for farm management & scouts:
 - Mapping and registration
 - Tree status recording
 - RPW trap monitoring & management
 - Soil moisture sensing
 - Weather information & forecast
 - and more..
- All registered information is timestamped and GPS-tagged for performance tracking, truth finding, statistics, data analysis and prediction

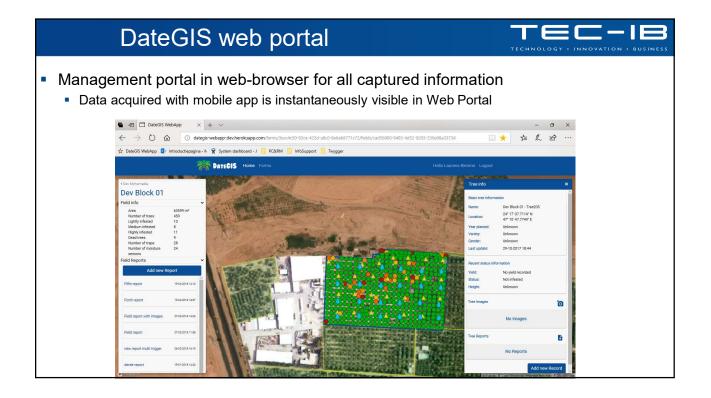


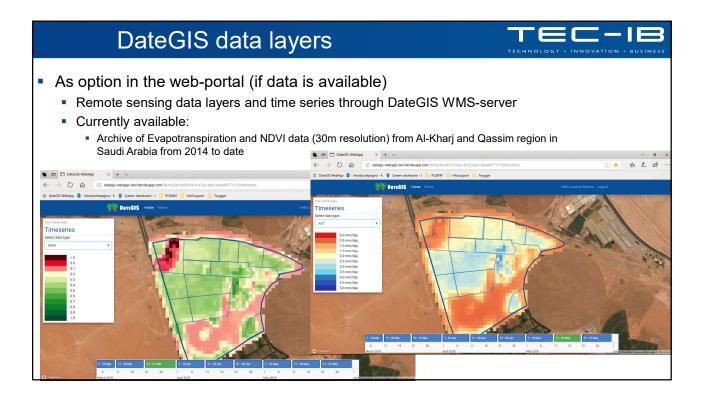
RPW trap monitoring & management Mobile registration, recording and visualization of RPW traps: RPW Trap ID and location Manual recording of captured RPWs* Graphic display of past captures for historic analysis Maintenance information (pheromone lure placing) Trap photos (for scout performance and control purposes) With sufficient RPW Traps real-time RPW distribution maps of the fields can be provided * Automated remote recording / counting / alerting of captured RPWs with Smart RPW Traps, available end of 2018 art Trap

oil moister probe

Soil moisture sensing

- Mobile visualization of soil moisture condition:
 - Soil moisture sensor ID and location
 - Soil type information
 - Real-time (each hour) soil moisture measurements visualization
 - Graphic display of historic soil moisture data for irrigation optimization
- With sufficient soil moisture sensors real-time moisture distribution maps of the fields are provided





Conclusive remarks

- DateGIS is a cloud-based IT-platform for precision agriculture applications in the date sector
- DateGIS provides management, mapping, registration, and monitoring services for palm trees, date farms, and RPW traps includes mobile applications for in-field data collection and management
- Analysis of data and information collected with DateGIS for effective IPM approach on farm or regional level, especially to combat RPW
- DateGIS enables EFFICIENT application of EFFECTIVE agriculture input products
- DateGIS as a holistic precision agriculture solution is scalable to other (high value) fruit crops (avocado, mangos, coconuts, etc.)

