



VISCA
*Vineyards Integrated Smart
Climate Application*

*Final Conference
15th December 2020*

Josep Maria Solé
Project Coordinator
METEOSIM SL
jmsole@meteosim.com



Introduction



**AGRICULTURE SENSITIVE
TO METEOROLOGICAL
AND CLIMATE
CONDITIONS**



**FUTURE CLIMATE WILL
BE UNFAVORABLE**



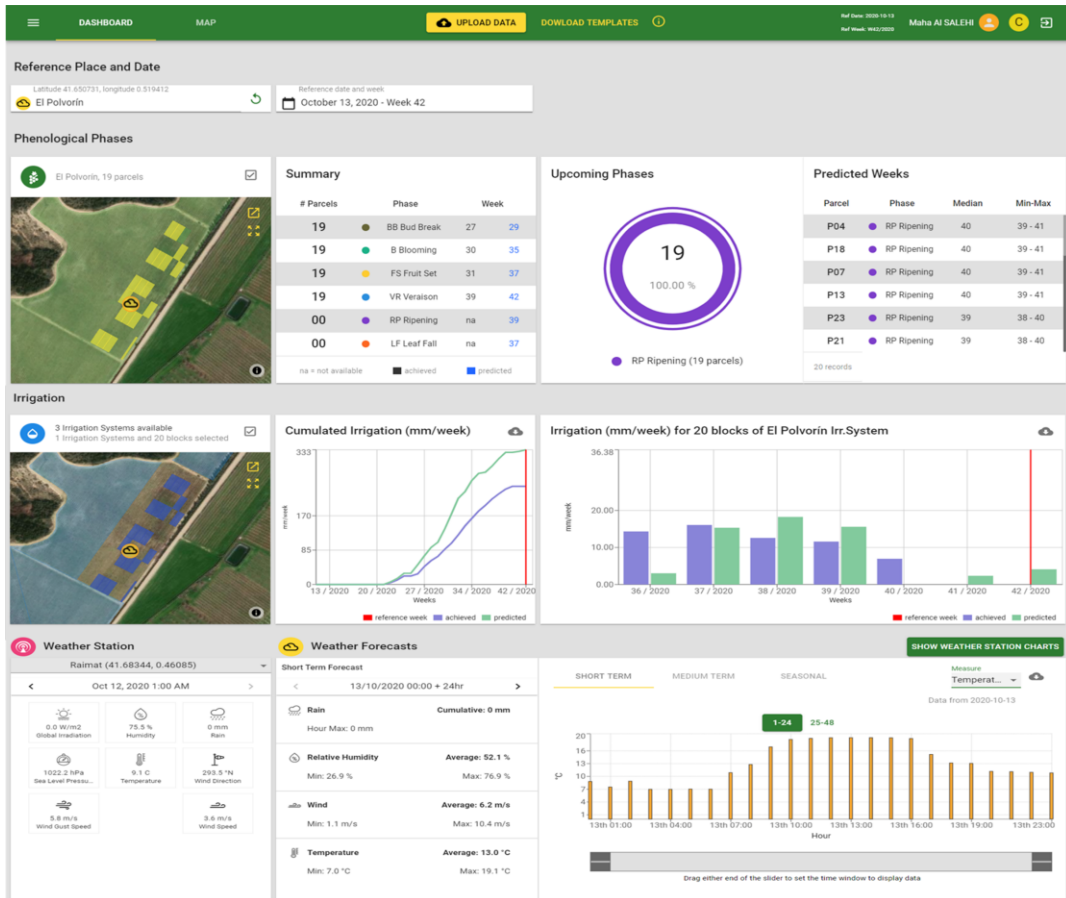
**TAKING DECISION IS
BECOMING MORE
COMPLEX**



**IS CURRENT TECHNOLOGY
ABLE TO SUPPORT THE
FARMER IN THIS CHANGE
OF PARADIGM??**



VISCA DSS, a Climate Service and a DSS



Weather forecast and climate



Phenological forecast



Sugars levels forecast



Agronomic data measured in-situ



Irrigation



VISCA deployment and DSS evaluation



- Performace of the services
- Optimizing usability of the tool according to user feedback
- Bridging tailored climate informations with decisi3n making process
- Evalutate of the impact of the DSS in terms of quality of the wine, yield and their economical implications.

VISCA, innovative management techniques

Crop forcing

Moving the grape-ripening period from hot summer months to a cooler month later in the growing season. This is achieved by making an additional pruning, stopping the natural cycle of the plant and “forcing” it to restart its cycle later

Tested in Portuguese and Spanish test site



Shoot trimming

Post-veraison summer pruning techniques for vineyards to decrease leaf to fruit yield ratio and to slow down sugar accumulation

Tested in Italian test site





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