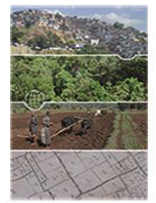


Catalyzing Innovation

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Sentinel-1 & Sentinel-2 data for Citrus crop management support and water monitoring

Author(s): Loubna Elmansouri¹, Rachid Hadria², Hamid Mahyou², Tarik Benabdellouahab², Said Lahssini³, Moha El-Ayachi¹.

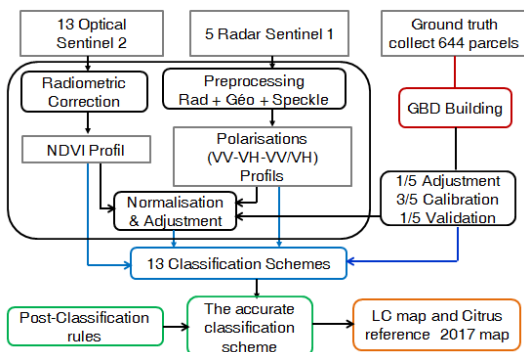
Affiliation: ¹ IAV H2, ² INRA, ³ ENFI

Author's Email Address: loubna.elmansouri@yahoo.fr, r.hadria@gmail.com, h.mahyou@gmail.com, t.benabdellouahab@gmail.com, marghadi@gmail.com, moha.elayachi@gmail.com

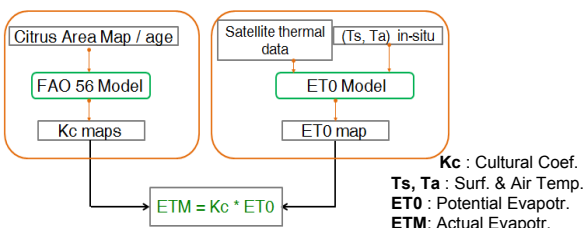
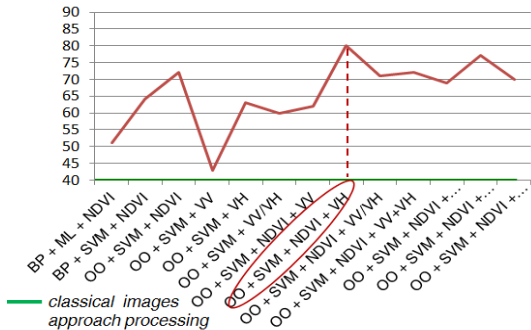
INTRODUCTION

To collect crop data in Morocco	✗
Farmer communications	with unguaranteed consistency
Spatially limited land survey	weak completeness & high cost
Computer-assisted photo interpretation (CAPI)	subjective information, too time, requires a large team of skilled photo interpreters
Present international trends : time series satellite images could studying crops and associated water at fine scale and be regularly used to produce an accurate agriculture data.	

MATERIALS | METHODS



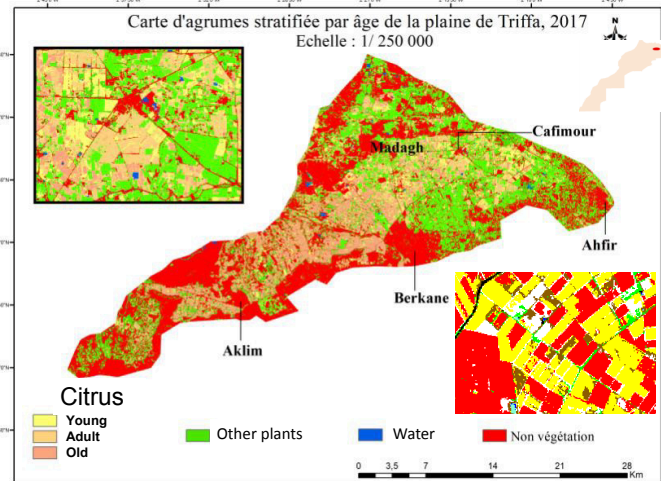
Classification Accuracy%



ACKNOWLEDGEMENTS



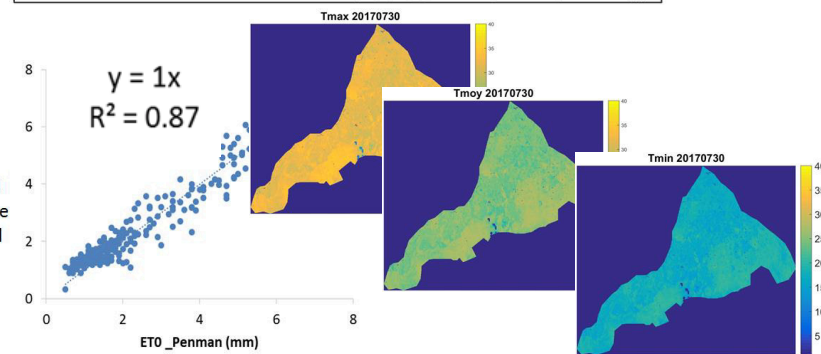
RESULTS



Detected Citrus area = 18.900 ha
900 ha less than Official 2017 Statistics
Error < 5%

Trees age:
30% > 35 y.
15% < 11 y.

CONCLUSIONS



CONCLUSIONS

Water-storing catchments illegal water use indicator are well localized

	Charges	Cost (\$)/an
Material	Images cost	0
	Hard & Soft	1500 / 5 yeras
	GPS Mobile	300 / 5 years
	Ground truth collect	500
Human	Homme Cost	5500
Total		7800
< 0.5 \$ / ha / year for anual LC & Citrus maps		

LITERATURE CITED

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