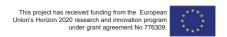
Processing chain for parcel & regional crop monitoring (PROCCY): Open Data, Sentinel-2, AquaCrop and sugar cane

Joost WELLENS, Mor Talla SALL, Anouk VILLE & Bernard TYCHON iCROPM | 3-5 February 2020 | Montpellier, France







## 1.i CSS - Compagnie Sucrière Sénégalaise -





### 1.ii CSS

- irrigation & yield management tool -





# 2.i AquaCrop (FAO) - decision support tool -

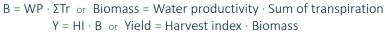


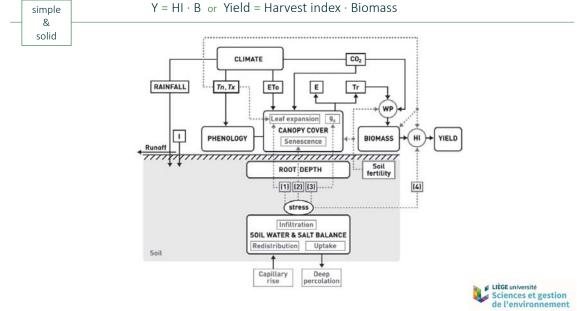
- -Field level;
- -Root and tuber crops; Fruit/grain producing crops; Leafy vegetable crops.

Calibration / Validation:  $minimise \ observations \longleftrightarrow simulations$ (fCover, water balance & biomasse)

### 2.ii AquaCrop (FAO)

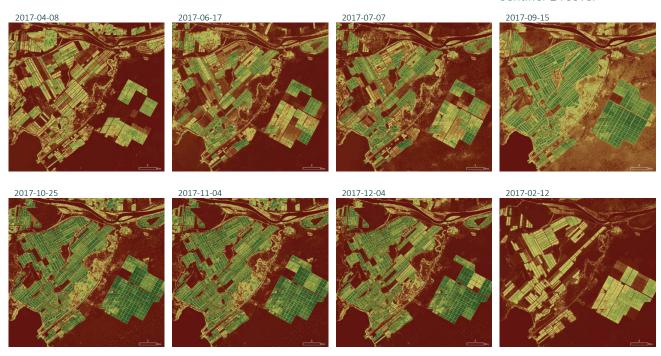
- the basics -





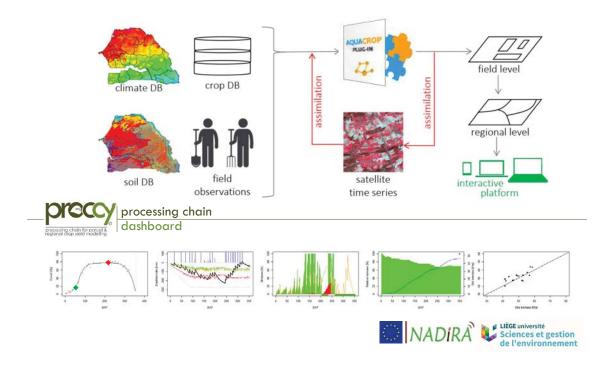
### 3 Towards a regional approach

- Sentinel-2 fCover -



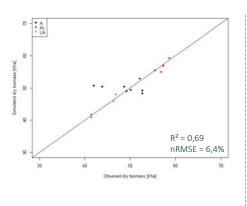
#### 4.i PROCCY

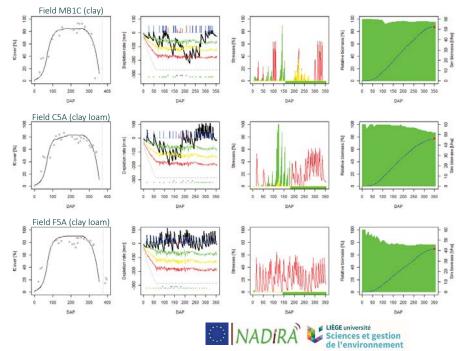
- work flow & dashboard -



#### 4.ii PROCCY

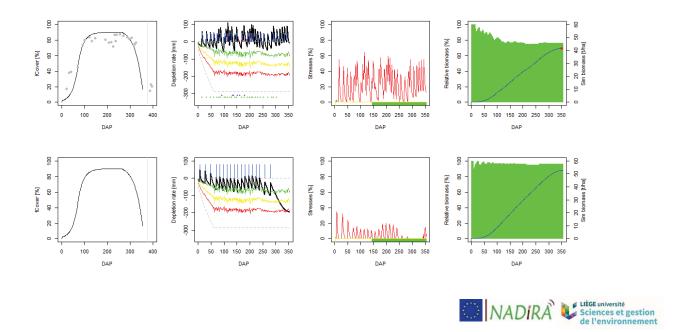
- decision/management support tool -





#### 4.iii PROCCY CSS

- before & after AquaCrop -



### 5.i Ongoing projects

- same idea; ≠ background; ≠ target -

: maize, winter wheat and potatoes;

: winter wheat;

: rice and sugar cane;

: durum wheat;

💼 : sorghum.



# 5.ii Similar applications

















# 5.iii Similar applications - watchITgrow -















#### www.eed.uliege.be



Prof. Tychon B. &
Baki C., Denis A., Diallo D., El Jarroudi M.,
Gbaguidi F., Jaquemin I., Deroy J., Jupsin H.,
Lang M., Nguyen T., Ozer P., Palé S., Sall M.T.,
Sallah H., Some W., Sossey K.,
Wellens J., Yazza M.

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