

# WATER AND CLIMATE ADAPTATION IN AGRICULTURE

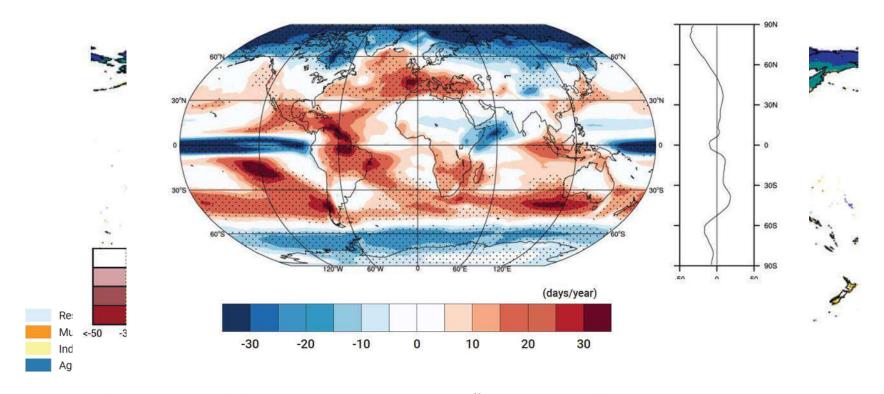
SASHA KOO OSHIMA, DEPUTY DIRECTOR, LAND AND WATER DIVISION, FAO

FOR THE EU: "The role of water in the new EU Strategy on Adaptation to Climate Change"

20 November 2020

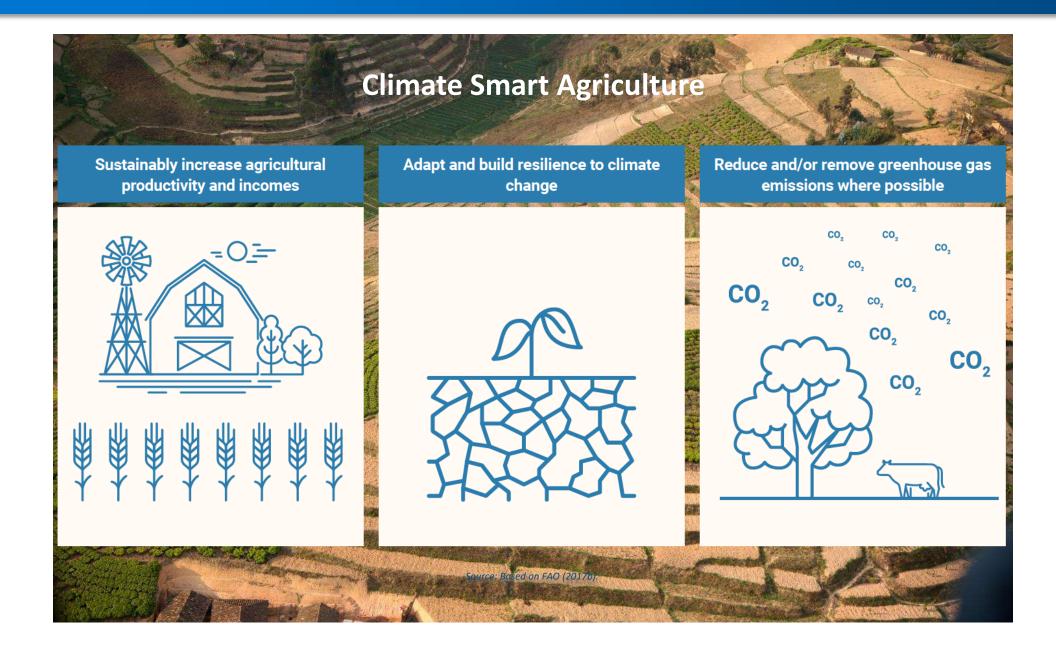
#### Impacts on Water Resources

by 2060–2089, relative to the historical period 1960–1989, using the RCP8.5 forcing scenario



Year
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#### Food and Agriculture



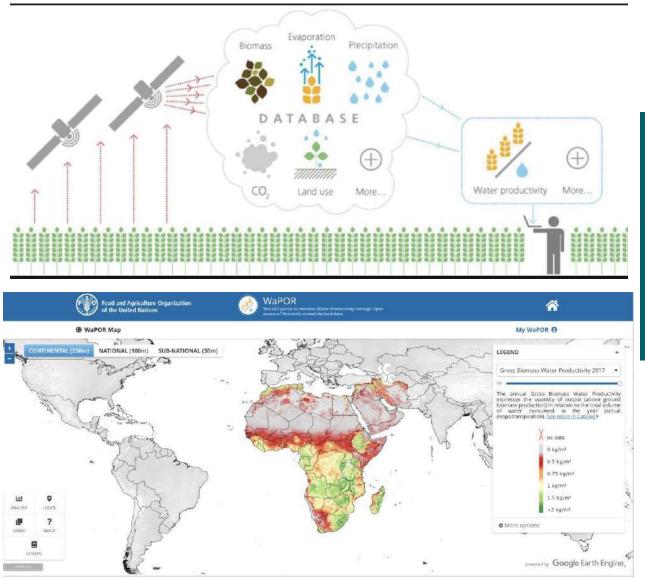
#### **Precision Agriculture**

Using ground and aerial sensors to enable in-field, in-season decision making to maximize yields.



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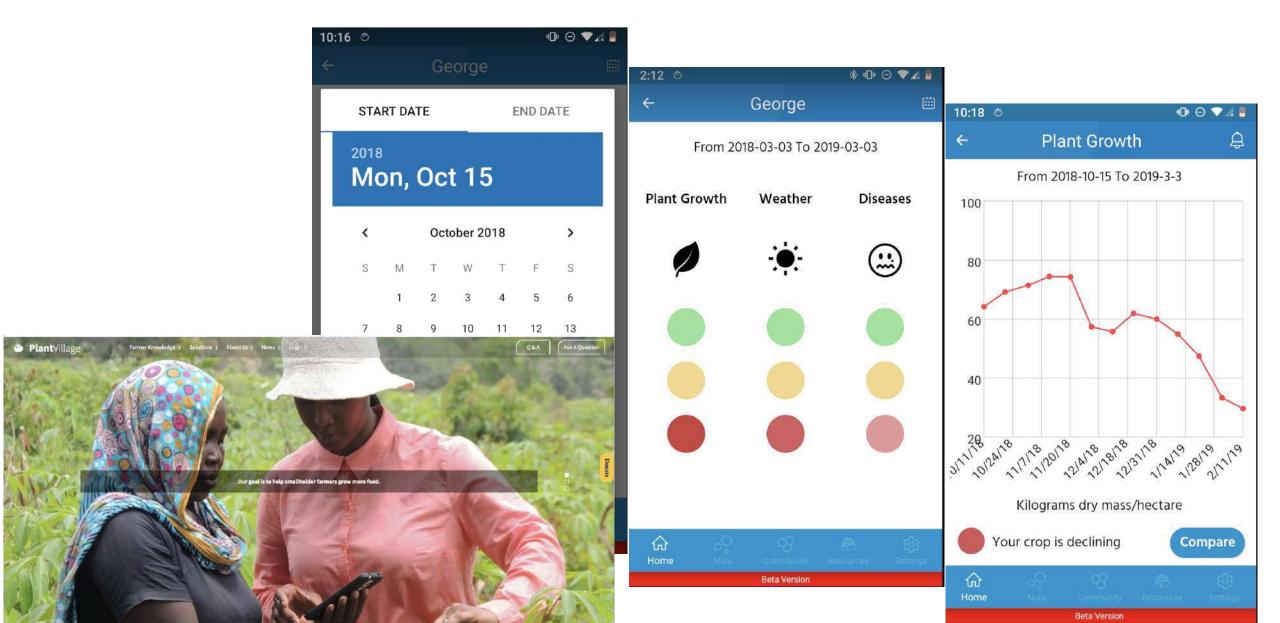
## Big Data: WaPOR measures how well your crop is growing & your water use



$$WP = \frac{(\$ \uparrow)}{(\lozenge \downarrow)}$$

Netherlands Funding

### Delivered into the phone and available offline



#### GIEWS – GLOBAL INFORMATION AND EARLY WARNING SYSTEM

- GIEWS monitors food supply and demand and other indicators to assess food security situation in all countries of the world.
- It issues regular analytical and objective reports on prevailing conditions
- It provides EW of impending food crises at country or regional level.
- If requested, GIEWS supports countries in gathering evidence for policy decisions or planning by development partners, through its Crop and Food Security Assessment Missions (CFSAMs, FAO-WFP).
- It strengthens national capacities in managing food security related information

