



 This project has received funding from the Horizon 2020 research and innovation programme under grant agreement No 870344

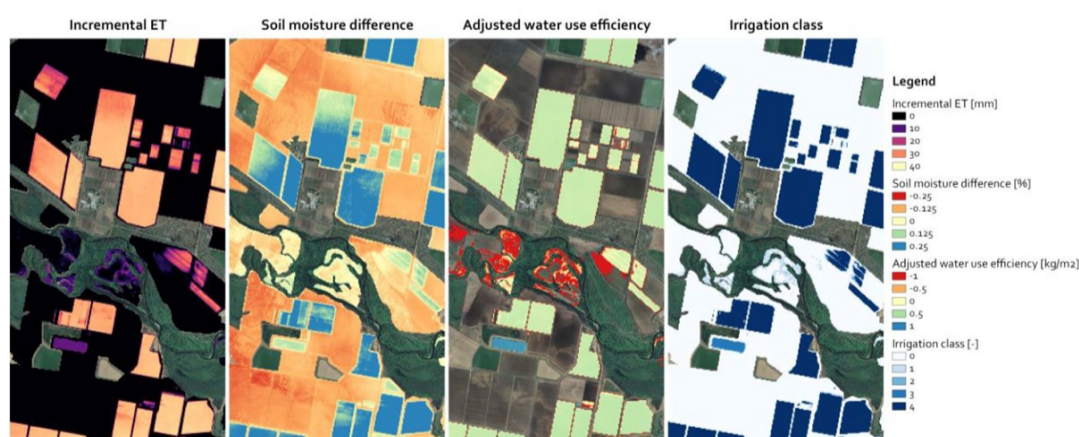
{[First Name]}, the WaterSENSE project has made some great progress over the last year, implementing some new models and services along with several significant updates to existing models. These are summarised below and expanded on in the attached newsletter.

[Click here to read the Newsletter](#)

Highlights for the year to date:

- **Updated actual evapotranspiration (ETact) and irrigated water use estimations (ETincr) from EO data**
 - The ETLook and HSP algorithms from [eLEAF](#) have both been updated.
- **A new near real time irrigated land use detection service** updated each week.
- **Farm water balance information** (Rainfall, ET, Irrigation, percolation, runoff, soil water content, dam volume change) per lot across an entire basin with the **new HydroAquaFarm model** from [HIDROMOD, LDA](#).
- **New surface water detection and growing algorithm** by [ARC Training Centre in Data Analytics for Resources & Environments \(DARE\)](#), to **extend water detected by EO methods under riparian and wetland vegetation**.
- **New vegetation and biomass condition score rasters** from [eLEAF](#) to help monitor the effects of environmental flow releases on riparian and wetland vegetation response
- **Operational implementation in [HydroNET - Your Online Water Control Room](#)**.
- Working with [NSW Department of Planning and Environment](#), [NSW Department of Primary Industries](#) and [Goulburn Broken CMA](#) to demonstrate and test the services.

Please visit our website for more information on the WaterSENSE project (<https://www.watersense.eu/>).



Overview of the incremental ET, soil moisture difference, and adjusted water use efficiency to produce irrigation classes on a weekly basis. Note that the area in the centre of the images are agricultural pixels near a river where no signs of irrigation are detected but still positive ETincr values are observed. The final irrigation class shows that when using the soil moisture difference and adjusted water use efficiency, these riverine areas are not being detected as irrigated agriculture anymore.

[WaterSENSE](#)



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