

Monitoring Water Use in Agriculture by remote sensing

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Monitoring Water Use in agriculture Context: donor perspectives

•Water productivity in development programmes funded by The Netherlands should increase by 25%

•The Netherlands had good experiences in Yemen with monitoring water use through Remote Sensing.





Monitoring Water Use in agriculture Context: FAO and the SDG's

•The 2030 Agenda for Sustainable Development includes 17 SDG's with 169 Targets and 230 Indicators;

•Of 17 SDG's FAO is 'custodian' UN agency for 21 SDG indicators, across 6 SDGs;

•FAO information systems (FAOSTAT and AQUASTAT) are important instruments to monitor progress towards the SDG's.





Using Remote Sensing in support of solutions to reduce agricultural water productivity gaps

Rationale

- "To assist the member countries of FAO in: •monitoring land and water productivity; •identifying land and water productivity gaps;
- proposing solutions to reduce these gaps;
 contributing to a sustainable increase of agricultural production;
- while taking into account ecosystems and the equitable use of water resources, which eventually should lead to an overall reduction of water stress."

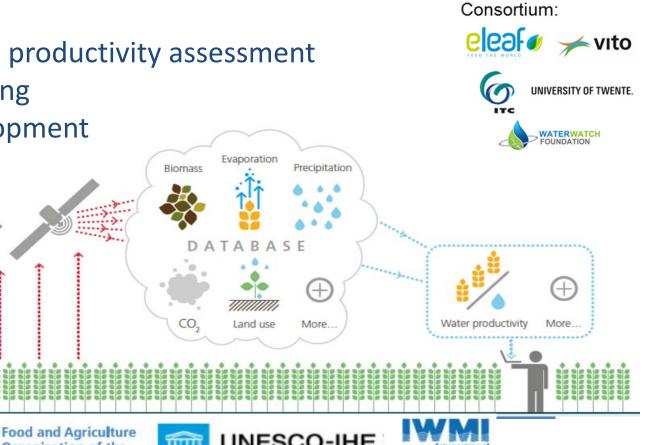




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Project components:

- Database 1
- Water and land productivity assessment 2.
- Water accounting 3.
- Capacity development 4.





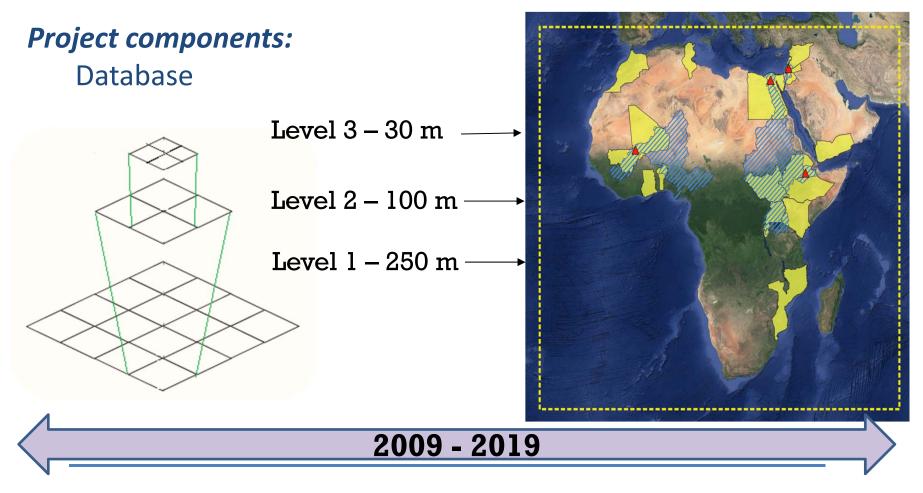


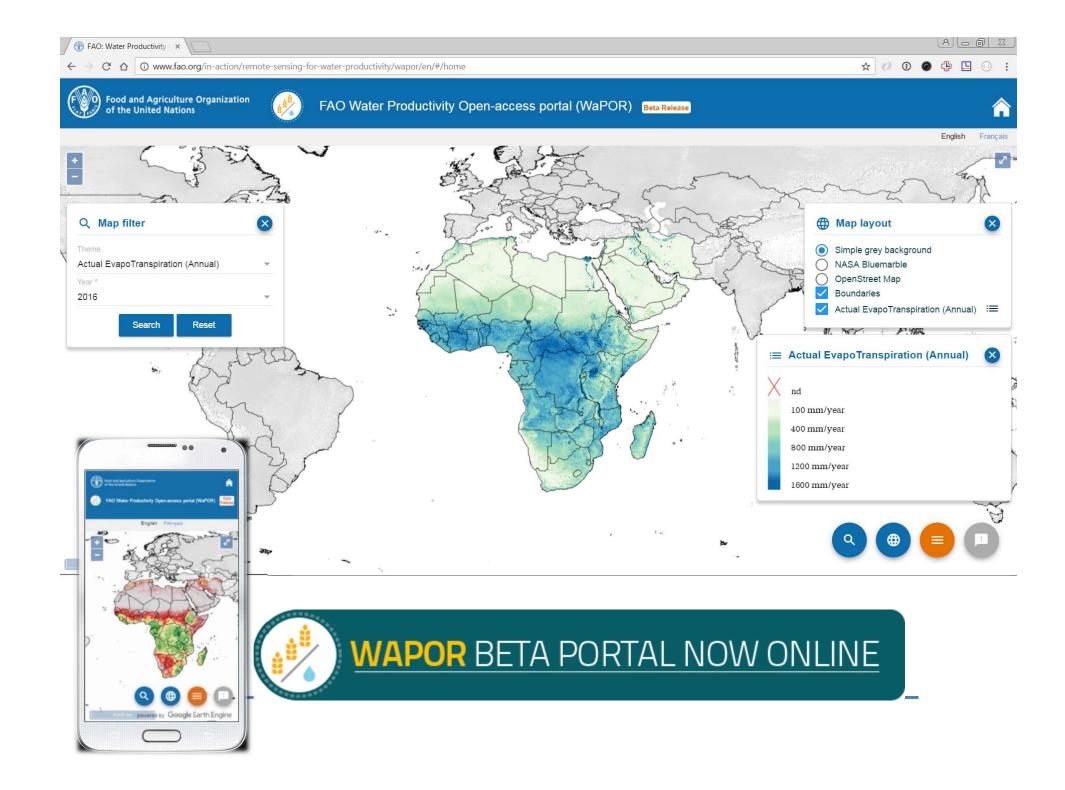
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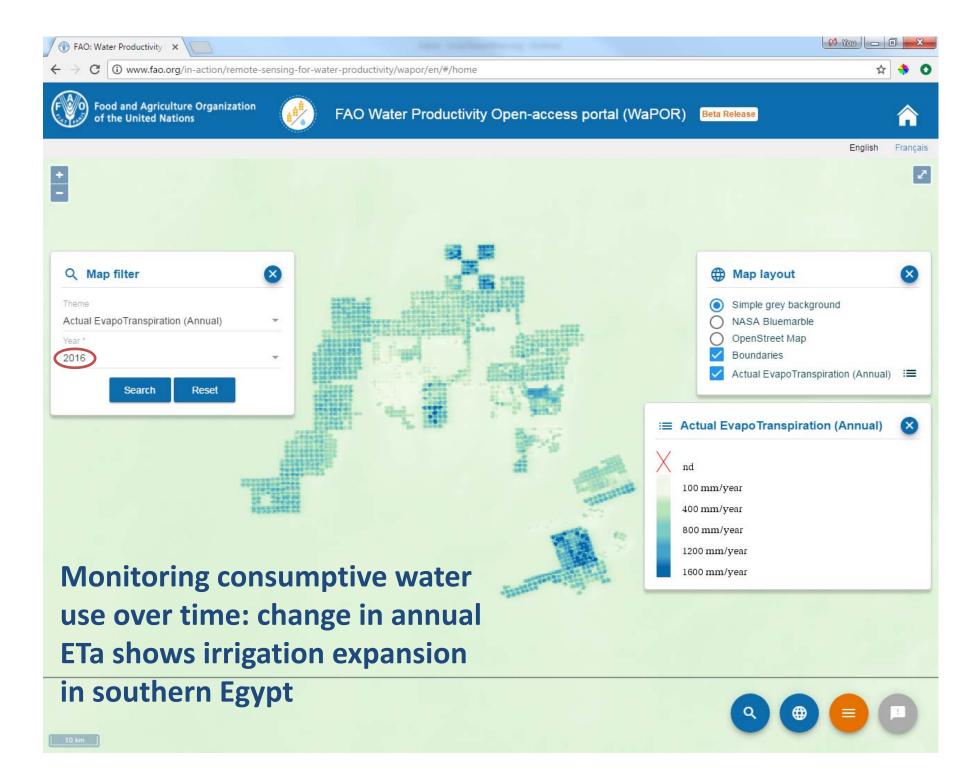


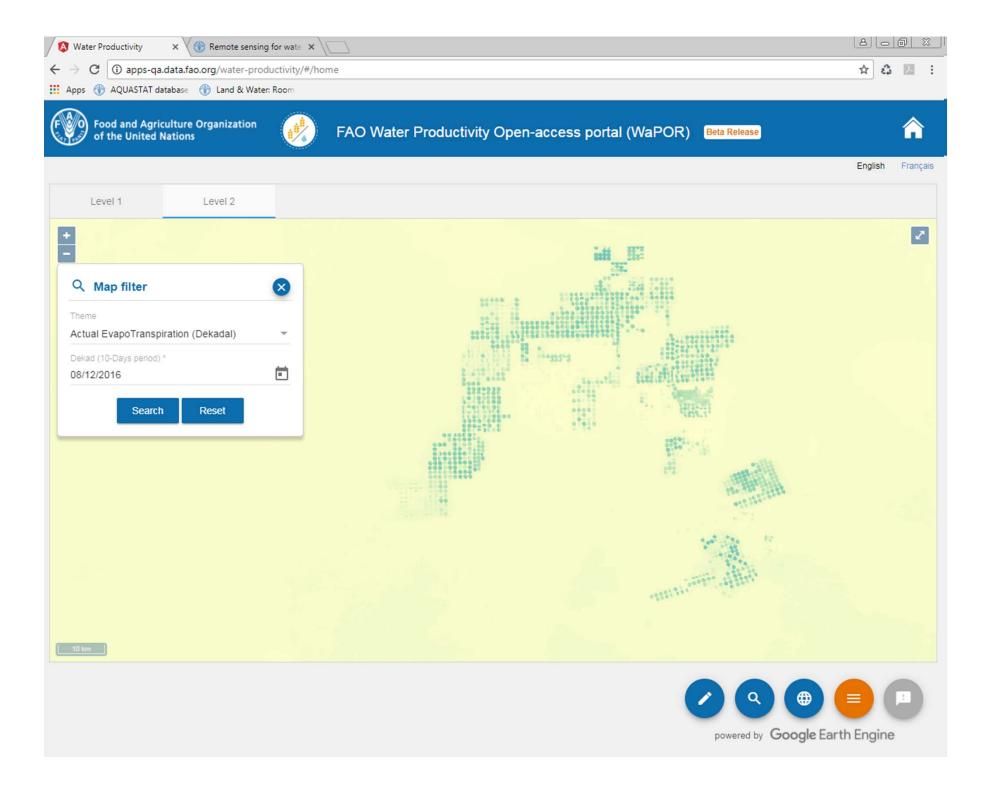


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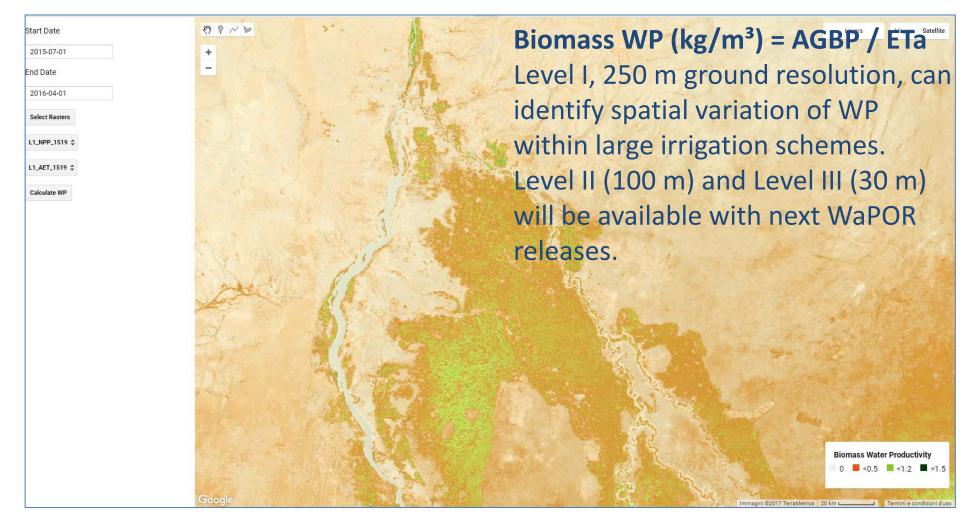




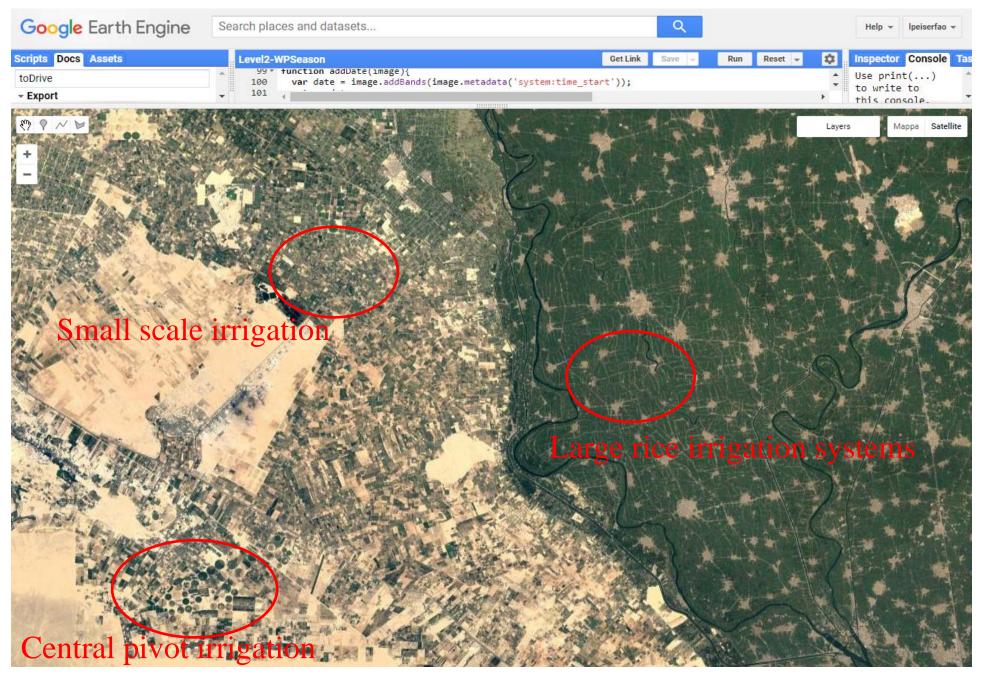




Screenshot Biomass water productivity, 2015-2016



Water productivity in the Nile Delta, Season 1, 2015

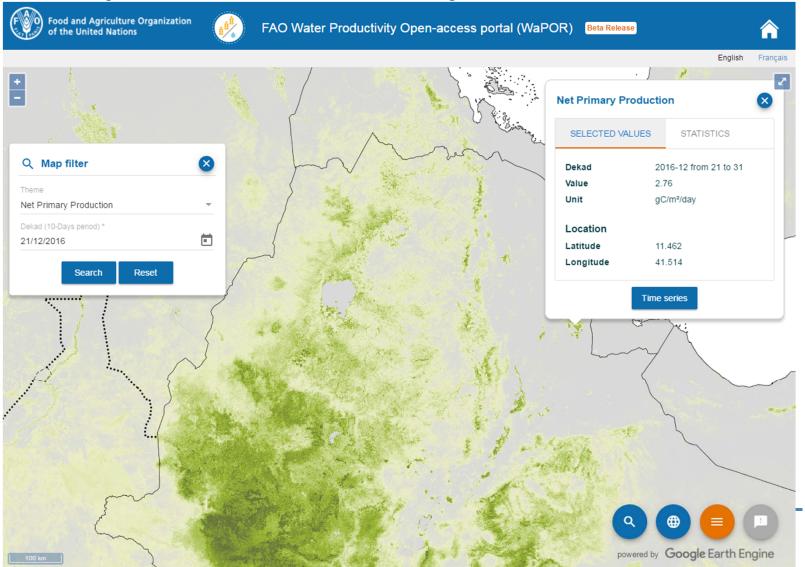


Water productivity in the Nile Delta, Season 1, 2015





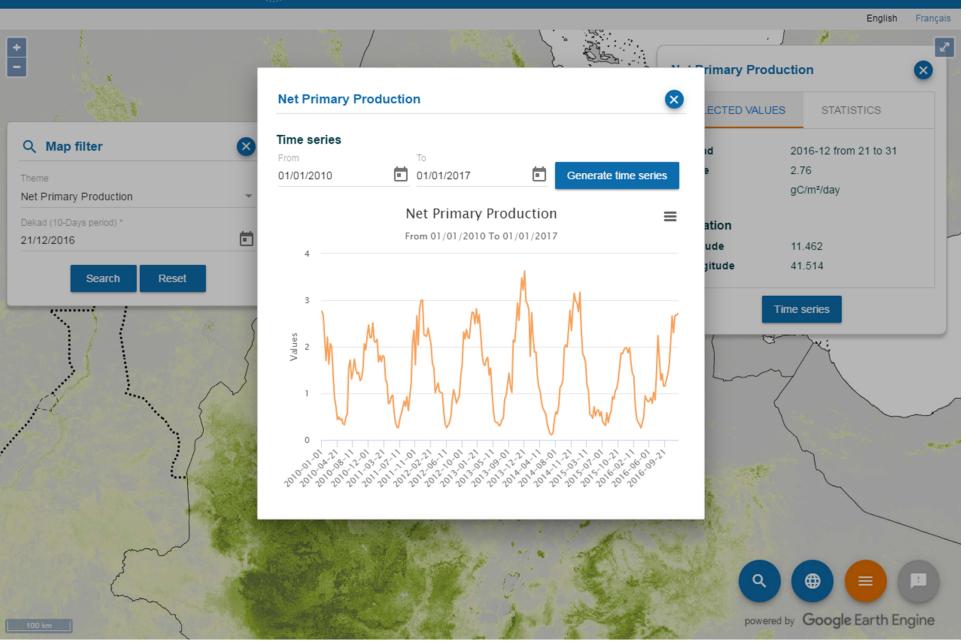
Example of time series analysis in WaPOR





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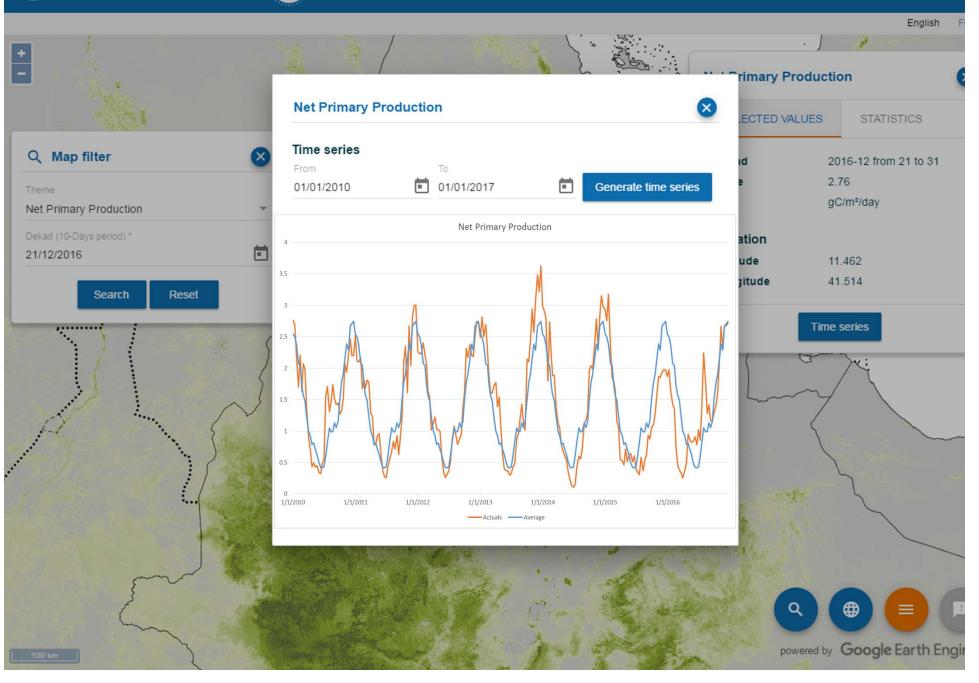




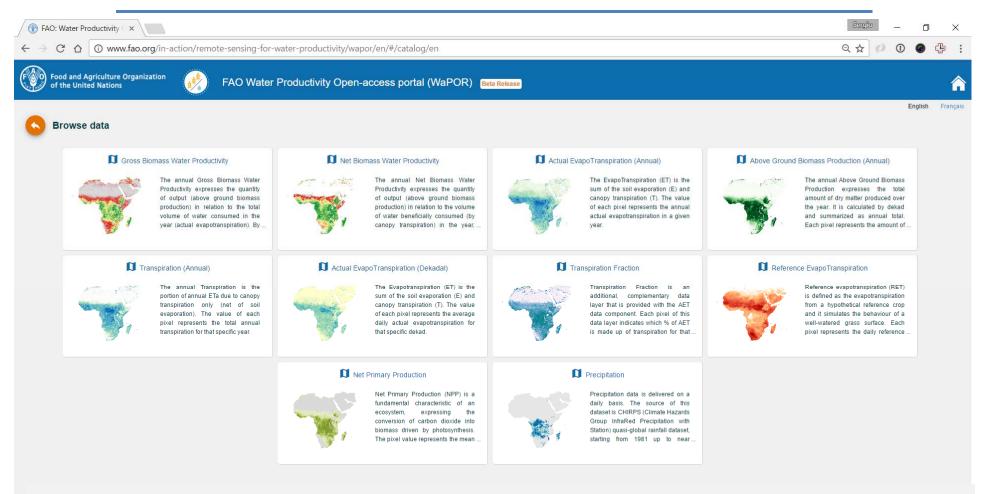
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FAO Water Productivity Open-access portal (WaPOR) Beta Release







http://www.fao.org/in-action/remote-sensing-for-water-productivity/wapor/en/



THANK YOU