

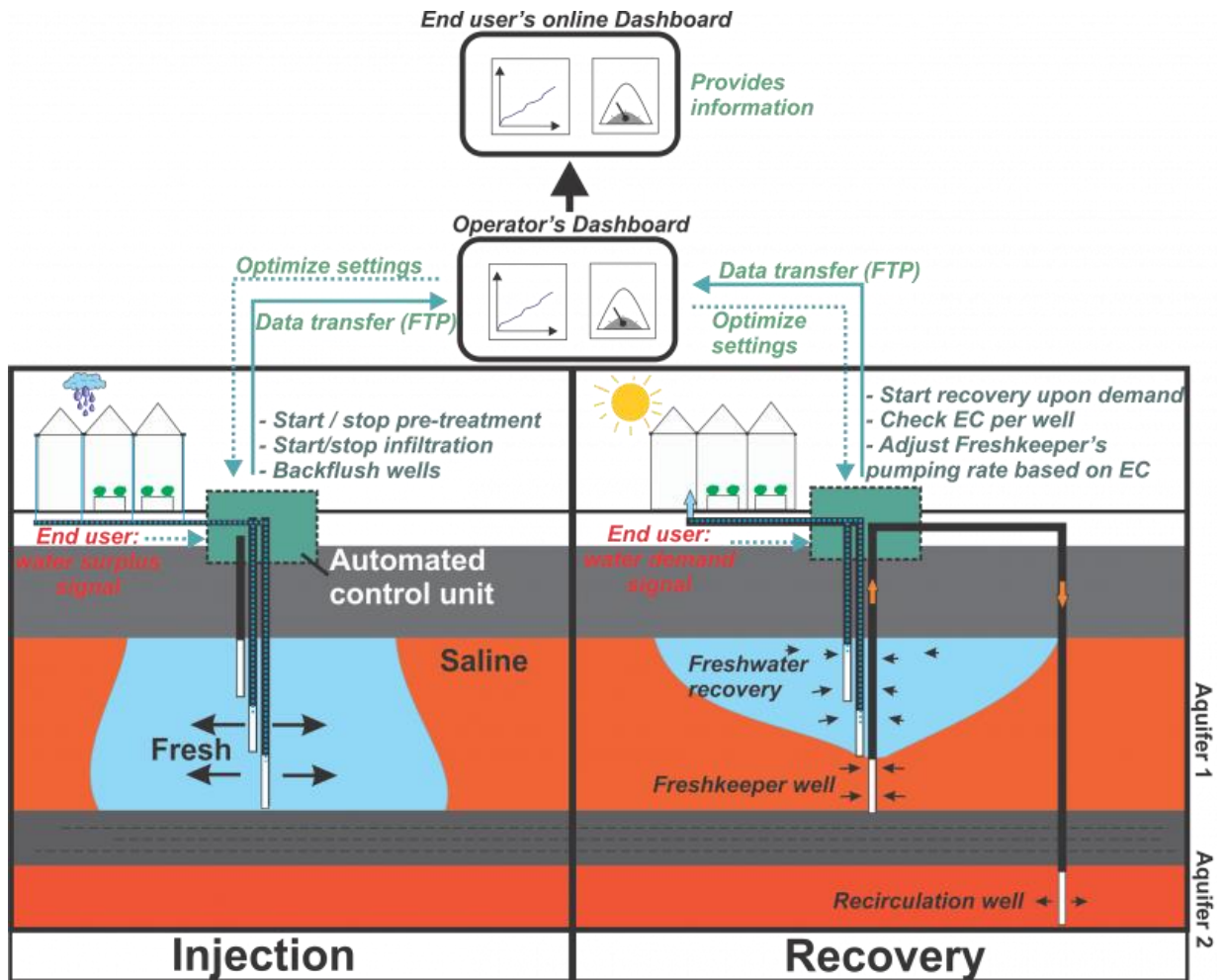
First Subsol automated control unit deployed

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In the first couple of years of the Westland ASR-pilot, regular visits to the field site were required to adjust the operation of the system and obtain data of its operation.

In the Subsol project, internet connections were realized in Westland and Nootdorp to remotely adjust settings and obtain and expose the operational data. This week, the Subsol automated control unit was deployed at the Westland site to further automate the operation of this dedicated ASR system. Crucial aspect of the automation is the protection of the shallow freshwater recovery wells by exact interception of intruding saltwater with the deeper Freshkeeper well (see figure below). With the new control unit built by Codema B-E de Lier, the rate of this saltwater interception is optimized based on the EC measurements of the abstracted water by the different wells. This way, sufficient (but not excessive) saltwater is intercepted to safeguard recovery of freshwater. Regular adjustments of the system in the field by the end user, the installer, or the researcher now belong to the past. This increased the ease of use, while reducing the chance for mistakes...

Meanwhile, an online Dashboard is being built by NTUA to better expose the operational information of Subsurface Water Solutions to the end user or the operator and the public (if appropriate). This dashboard will use and illustratively expose the data regularly sent out by the automated control unit.



Set-up of the Subsolv ASR-coastal operational system to facilitate a robust operation and better market uptake.