

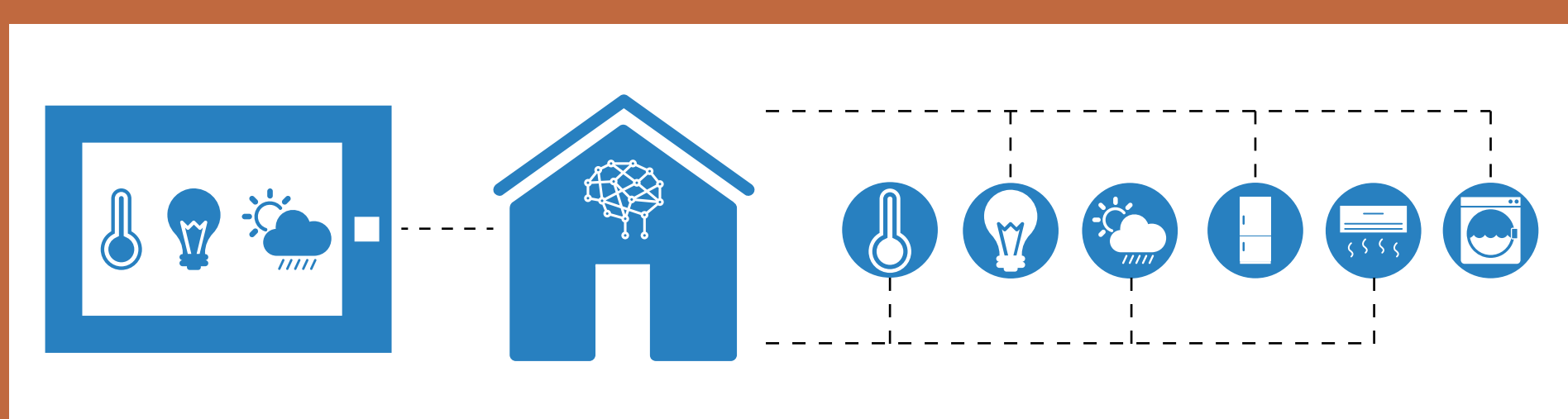
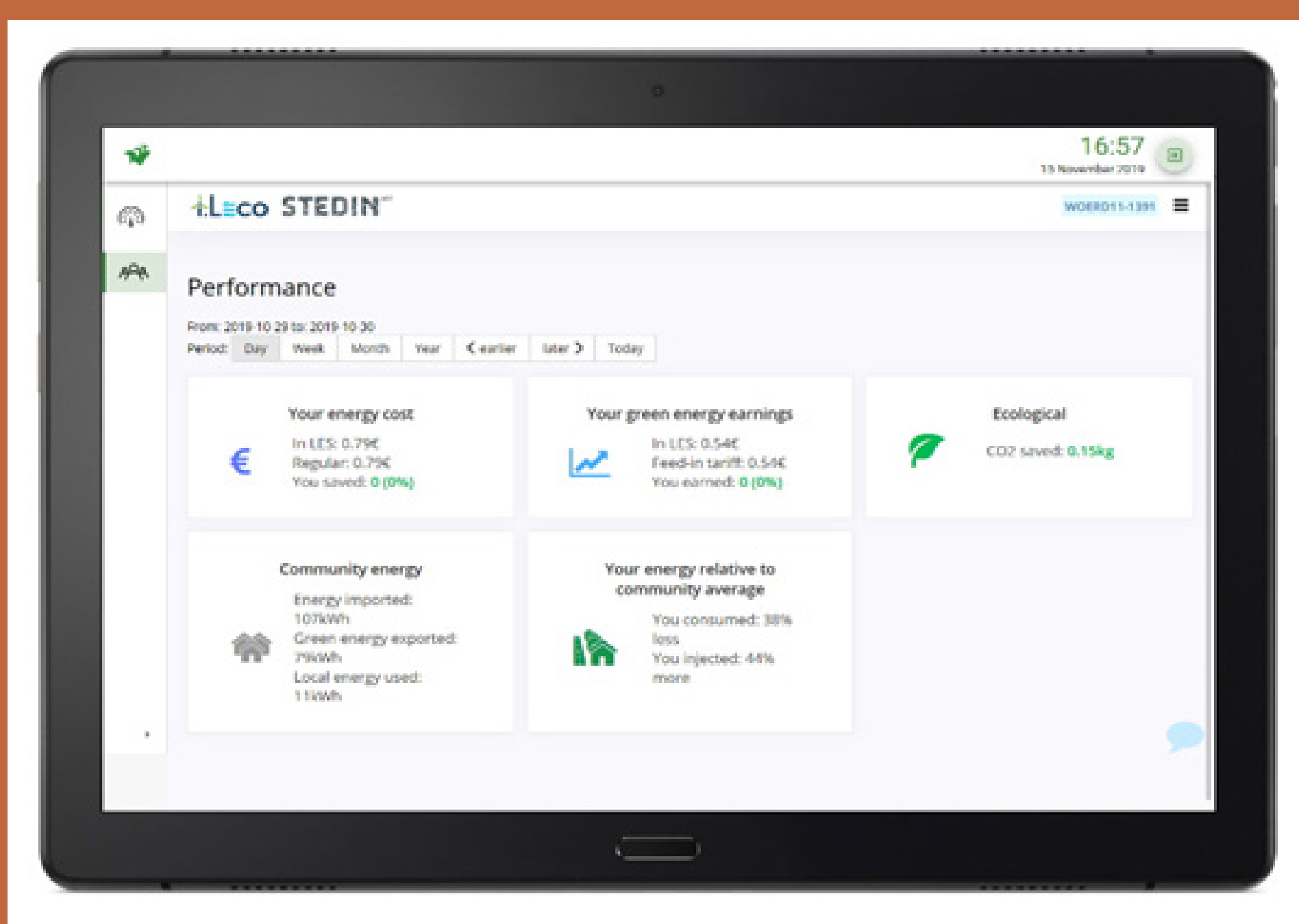


# DRIVE

[www.h2020-drive.eu](http://www.h2020-drive.eu)

## DEMO SITES

WOERDEN  
District, in the  
Netherlands



**Promoter:** Local energy Community

**Focus was on:** Optimization of individual house assets. The Woerden district is a local energy community, where 39 houses have been renovated to be net-zero-energy buildings, reducing the energy consumption of 40%, with installation of high-performance heating and ventilation systems and where PV on rooftops provide green electricity production

**Objectives:** A reference case has been focused on the optimization of individual houses. Comparing the combined results obtained from optimizing each house separately against the results obtained from optimizing the community as a whole, it is shown that the community management optimization is beneficial when compared to individual building management.

**Assets:** Solar panels (7 kWp); Heat pump (2 kW); Hot water buffer (200 liter); District battery (220 kW/220 kWh); Home battery (7.8 kW/7.8 kWh)

**Method:** Hybrid, cyber-physical emulation

**Results:** Economic benefits for the community from DRIVE are in the amount of 493€/year/resident, and thanks to the scalability of the process which will become cheaper when more communities will be included

