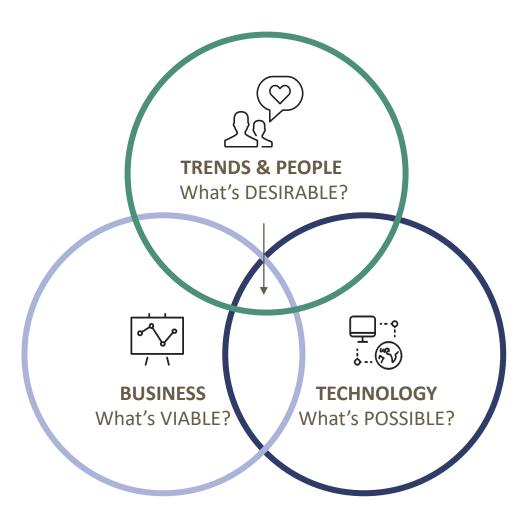
Future flexibility market based on user needs

> Dublin 14 May 2019 Ann Merethe Sommerseth



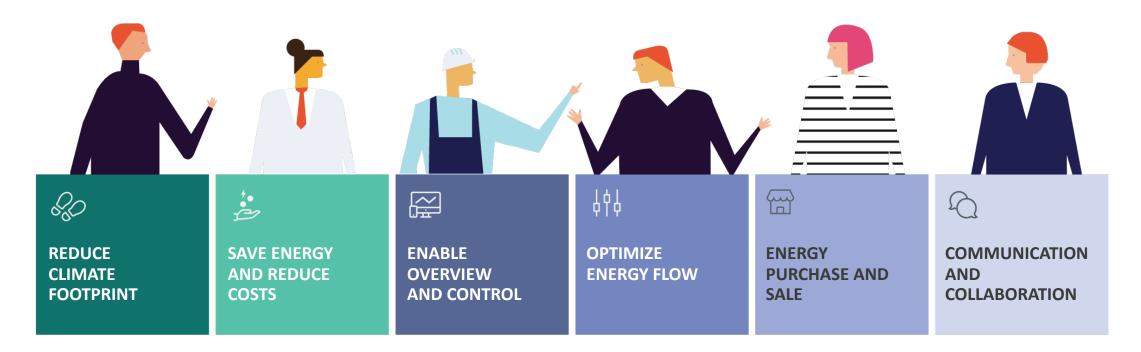
Focus: Design Thinking





VALUE PROPOSITION

Green values helps businesses and society to save money and reduce the climate footprint

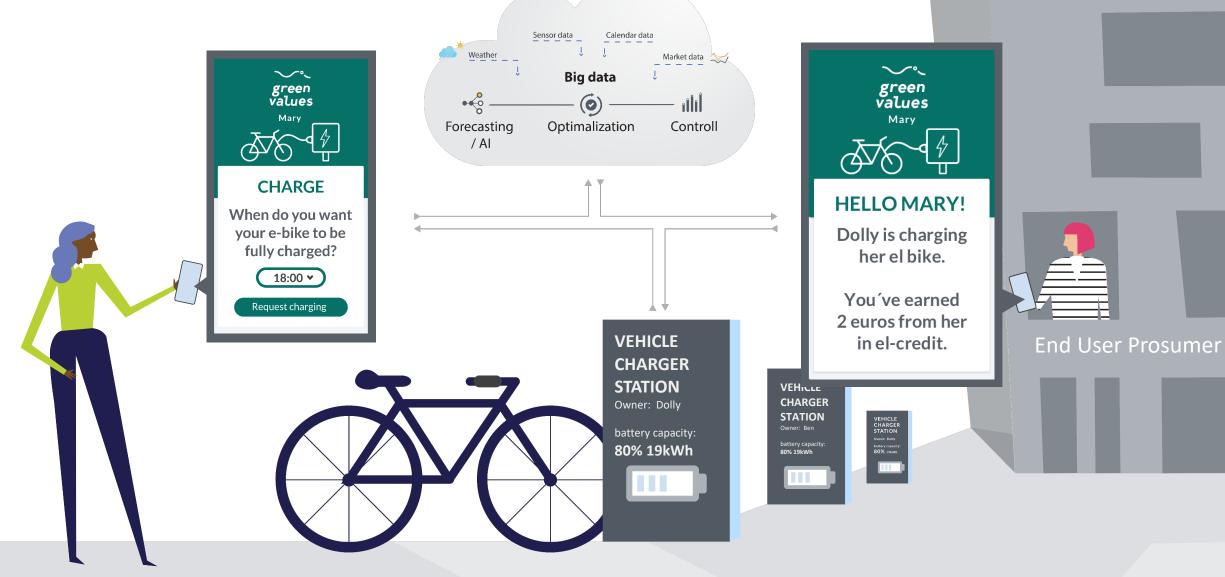




How could the Community System Operators roles work in practice in the future energymarket?



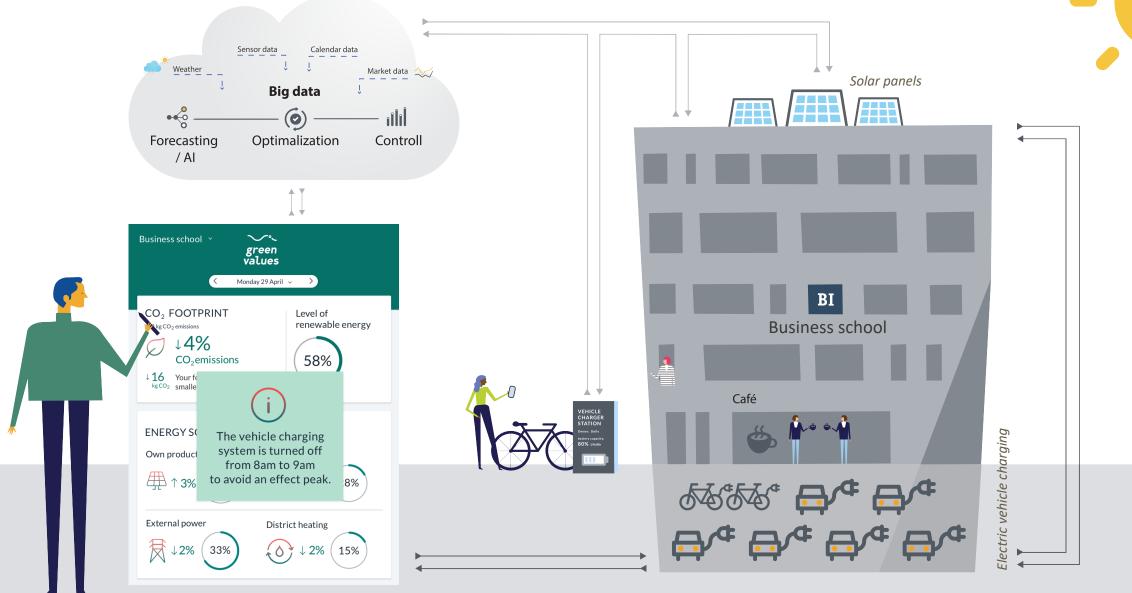
Level 1 - End-User



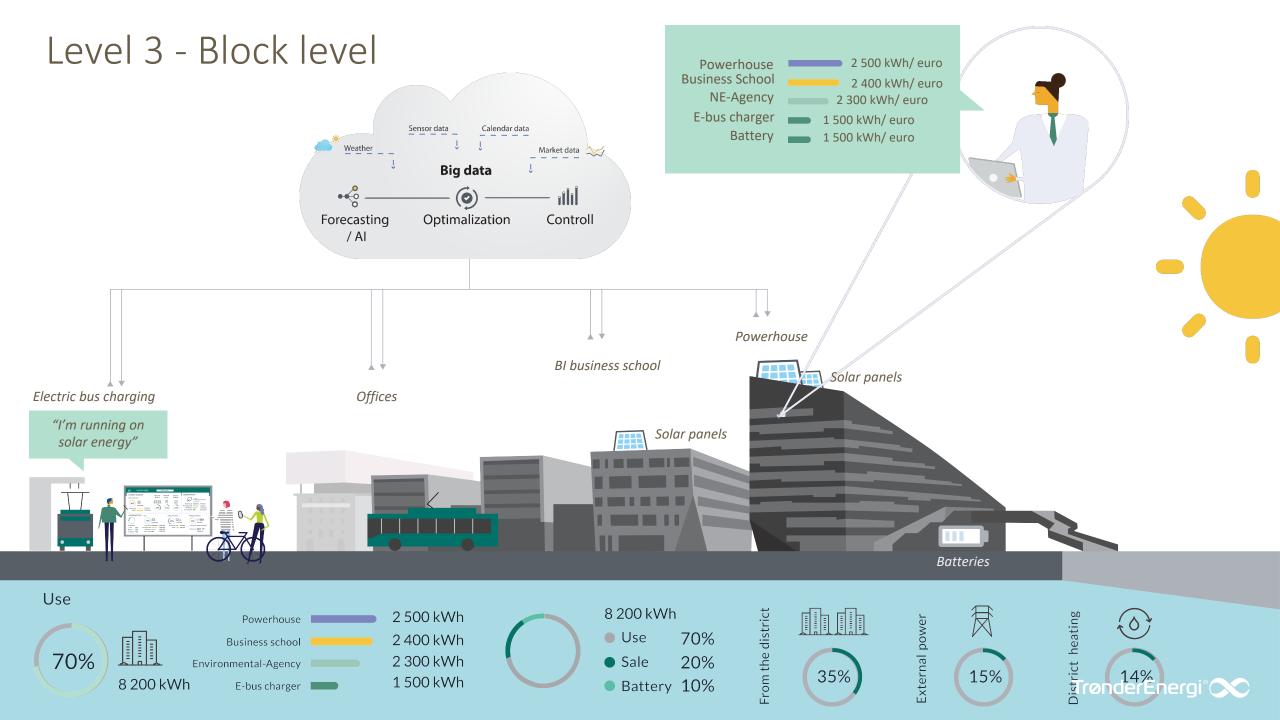
End User Consumer

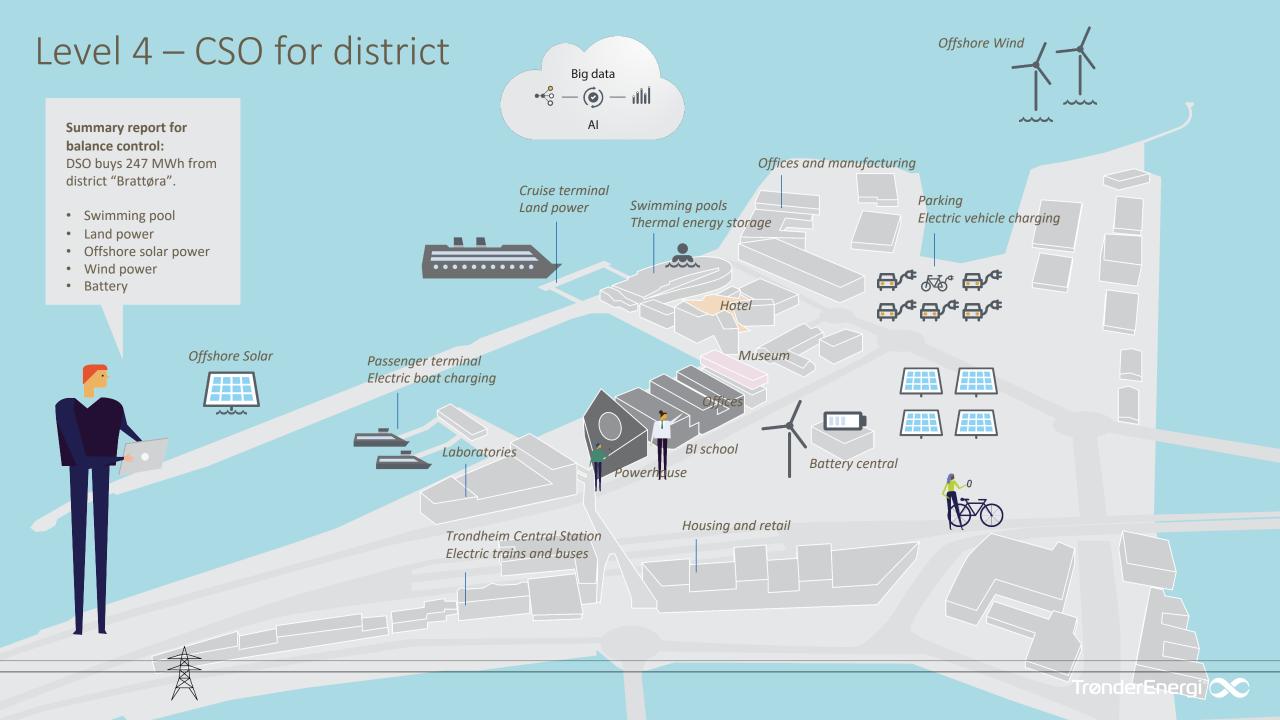
TrønderEnergi 🗙

Level 2 – CSO for Building

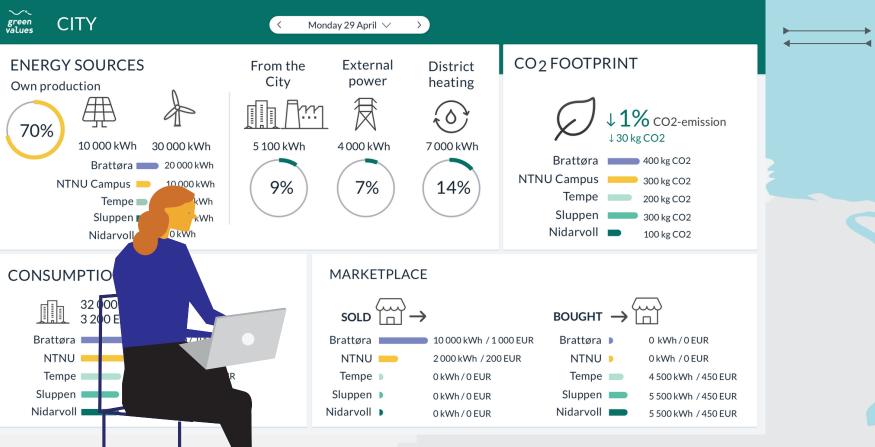


TrønderEnergi[®]



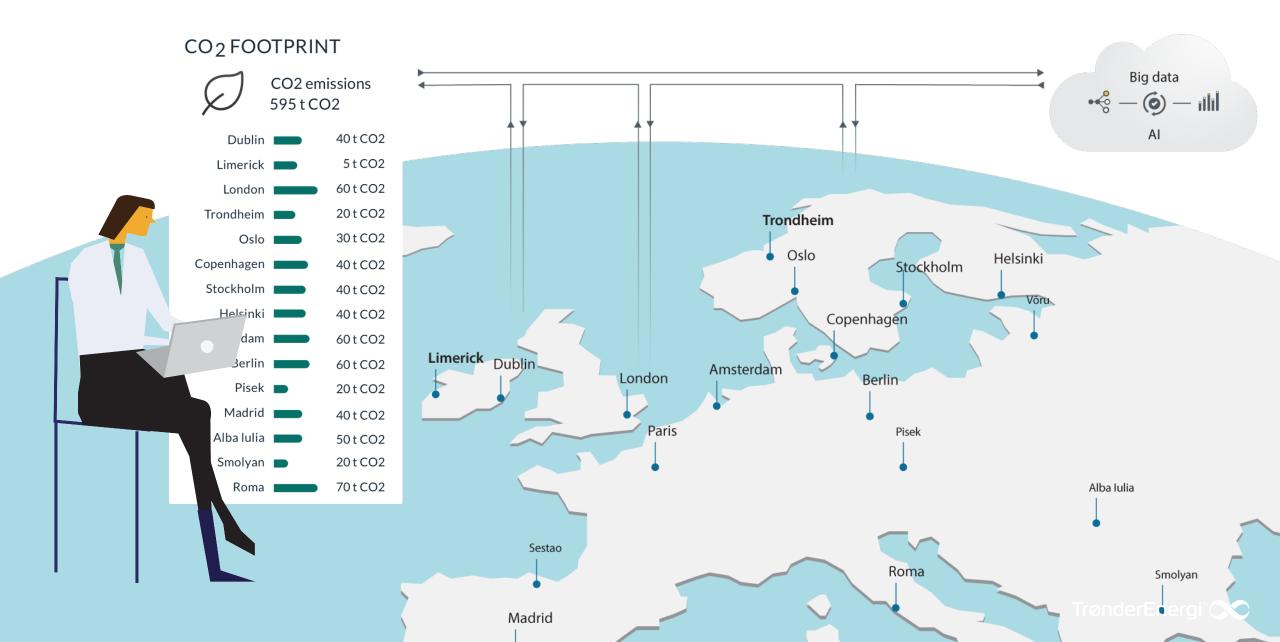


Level 5 – CSO for Cities



Sensor data Calendar data Weather Market data **Big data** • (\mathbf{O}) ıllı Optimalization Forecasting Controll / AI District: Brattøra District: NTNU Campus 凸 District: Tempe District: Nidarvoll District: Sluppen

Level 6 - CSO for Countries



User needs could give new market opportunities



Stakeholders and new roles based on user needs

Energy Management as a service

Community System Platform

Role based digital Platform for different roles on different levels.

Consists of big data, AI, automatic energy

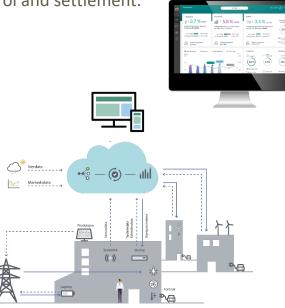
control and settlement.

Country

level

DSO

TSO









Save energy and reduce costs



Enable overview and control



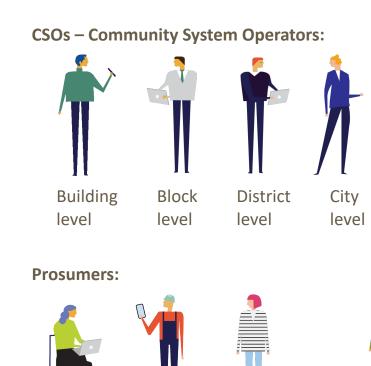
Optimize energy flow



Energy purchase and sale



Communication and collaboration

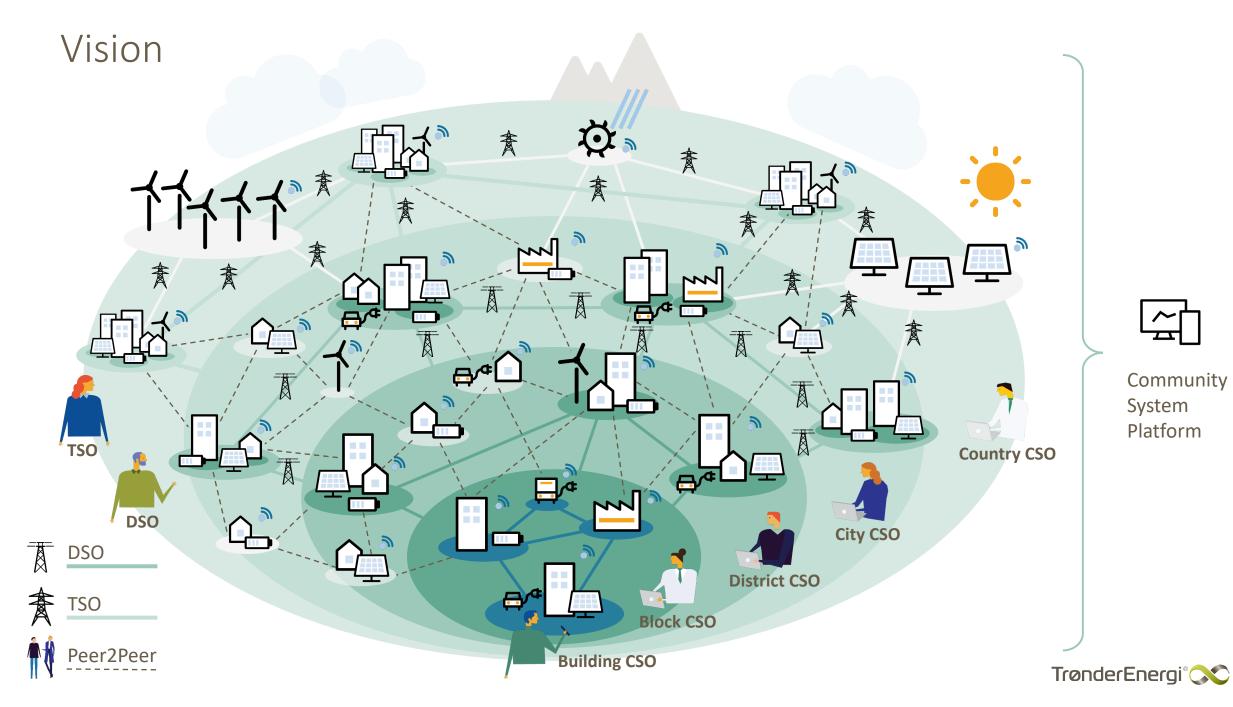


Asset

operators

Asset owners End

users





Community System Platform

THANK YOU

