



Nexo

Internet of Energy



Nexo value proposition

Co-develop aggregated internet of energy services
by connecting diverse assets into a standardize platform



Nexo

Toolbox to build new energy business for utilities, with distributed, renewable assets, and customer-centric services



Engage with customers via new services

Reduce churn rates and sell extra services to the energy consumers. Increase your customer loyalty and acquisition

Energy services

Control DER and Smart home devices in one interface

Give your customers the power to control energy costs by controlling their devices.

Management of decentralized energy assets and Smart home devices

Generate algorithms

Give customers the power to save energy and cut their carbon footprints via insights and recommendations

Data insights

Data collection

Display information from all the energy assets, such as energy, gas, water meters, PV installations, etc

Data collection






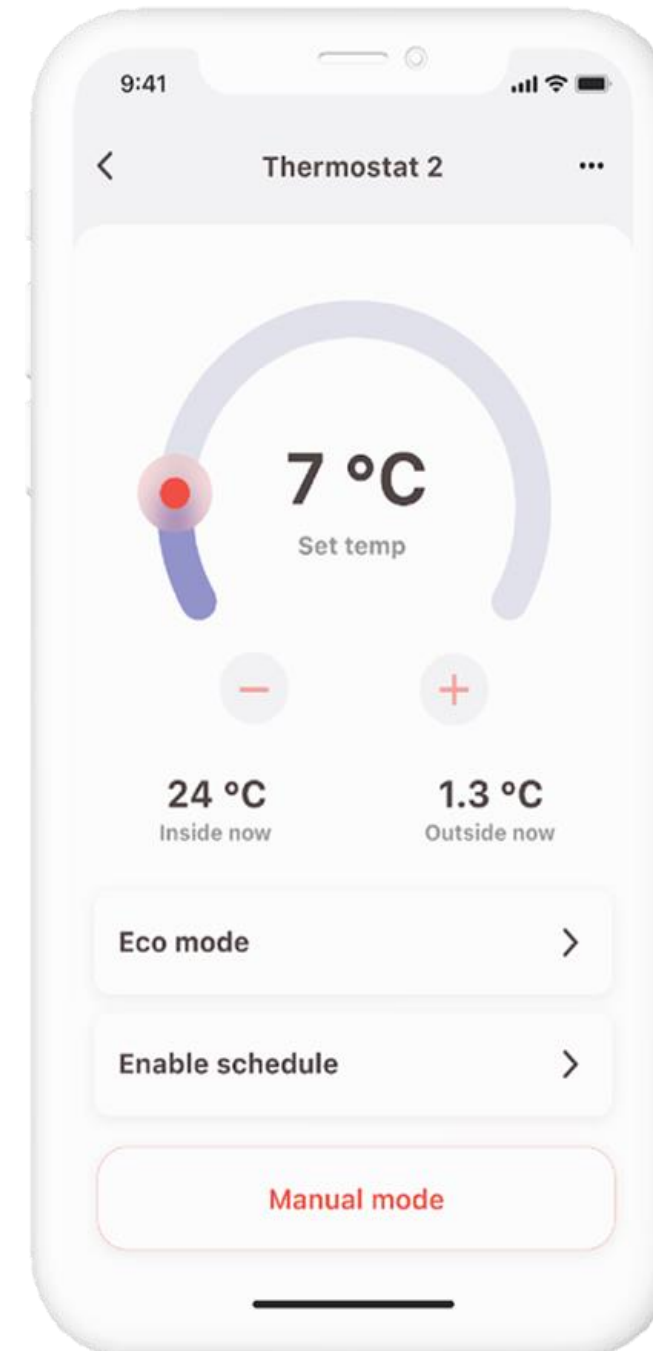
Create your own **ecosystem** and develop energy services piece by piece

Pilot N1. Veolia Poland

Heat as a service

Service goals

-  Transparent allocate heat costs based on comfort rather than a variable amount of kWh
-  Motivate users to save energy by increasing awareness on the impact of indoor temperature
-  Develop the base solution to offer new services to housing communities and citizens.



Pilot N2 - Leipzig Zero (Germany)

Token-based behavioral demand response

Dynamic tariff

Goals

Obtain points when providing flexibility (device level).

01. Utility Level - Operator control panel

- Operator can visualize the potential flexibility based the information collected from user's devices
- Operator define the reward points and creates flexibility events (in the future)
- Operator monitors the events and measure the flexibility achieved

02. Connected home – Define threshold per smart home device

- Users assigned devices to the flexibility program to receive reward (bonus points).
- User can see the percentage of green energy GEI in real time and create routines to match their consumption to the percentage of green energy



Pilot N3: Intelligent heat supply management Orange (Poland)

Goals

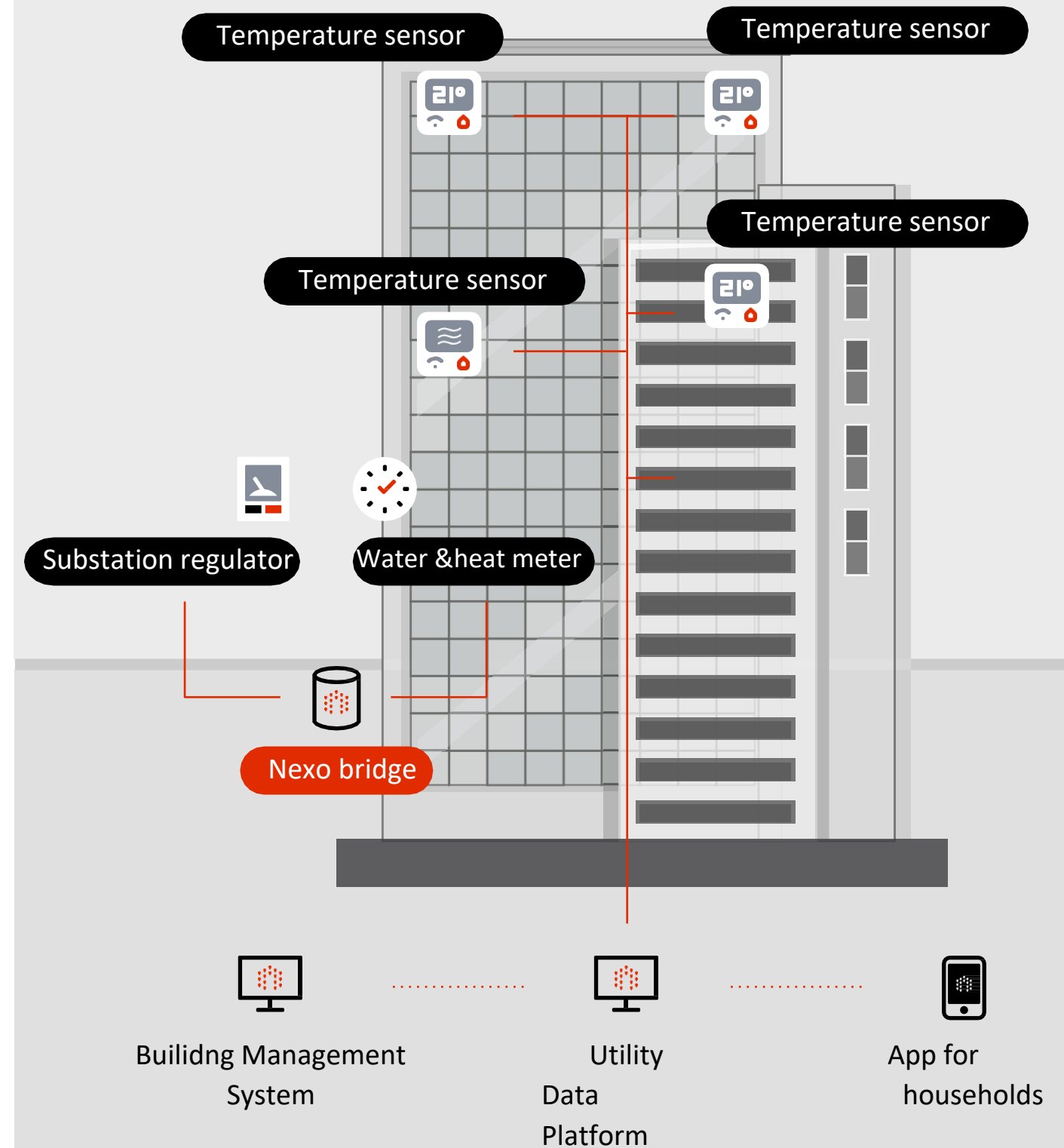
Steer dynamically the heat substation to achieve energy savings.

Algorithms

- Calculate building inertia to improve heat distribution
- Data validation for billing
- Diagnostic algorithm (i.e failures, etc.)

Benefits for heat network operators and housing communities

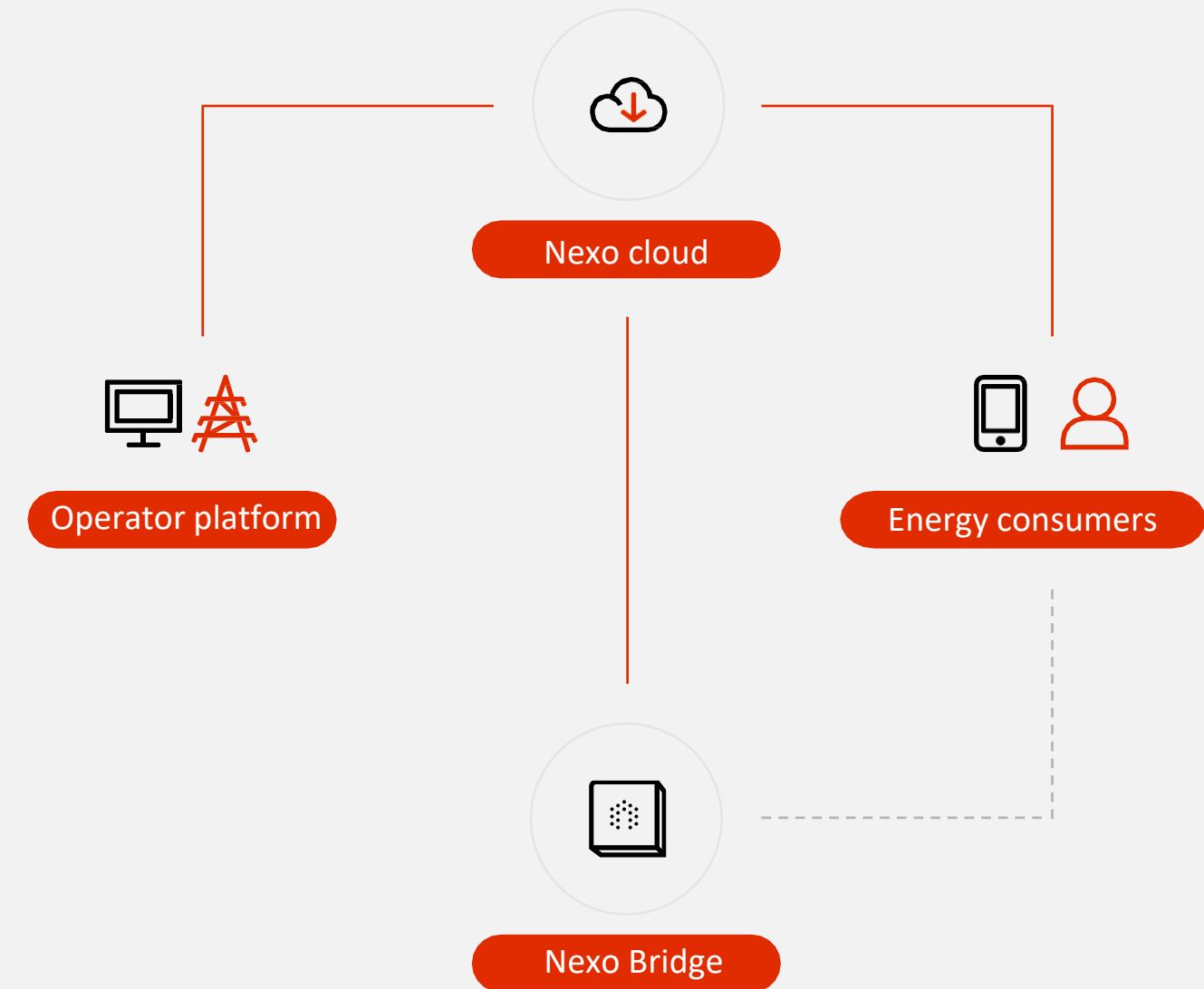
- Network optimization and consumption forecast
- Heat savings services (via certificates, etc.)
- CO2 reductions
- Billing validation



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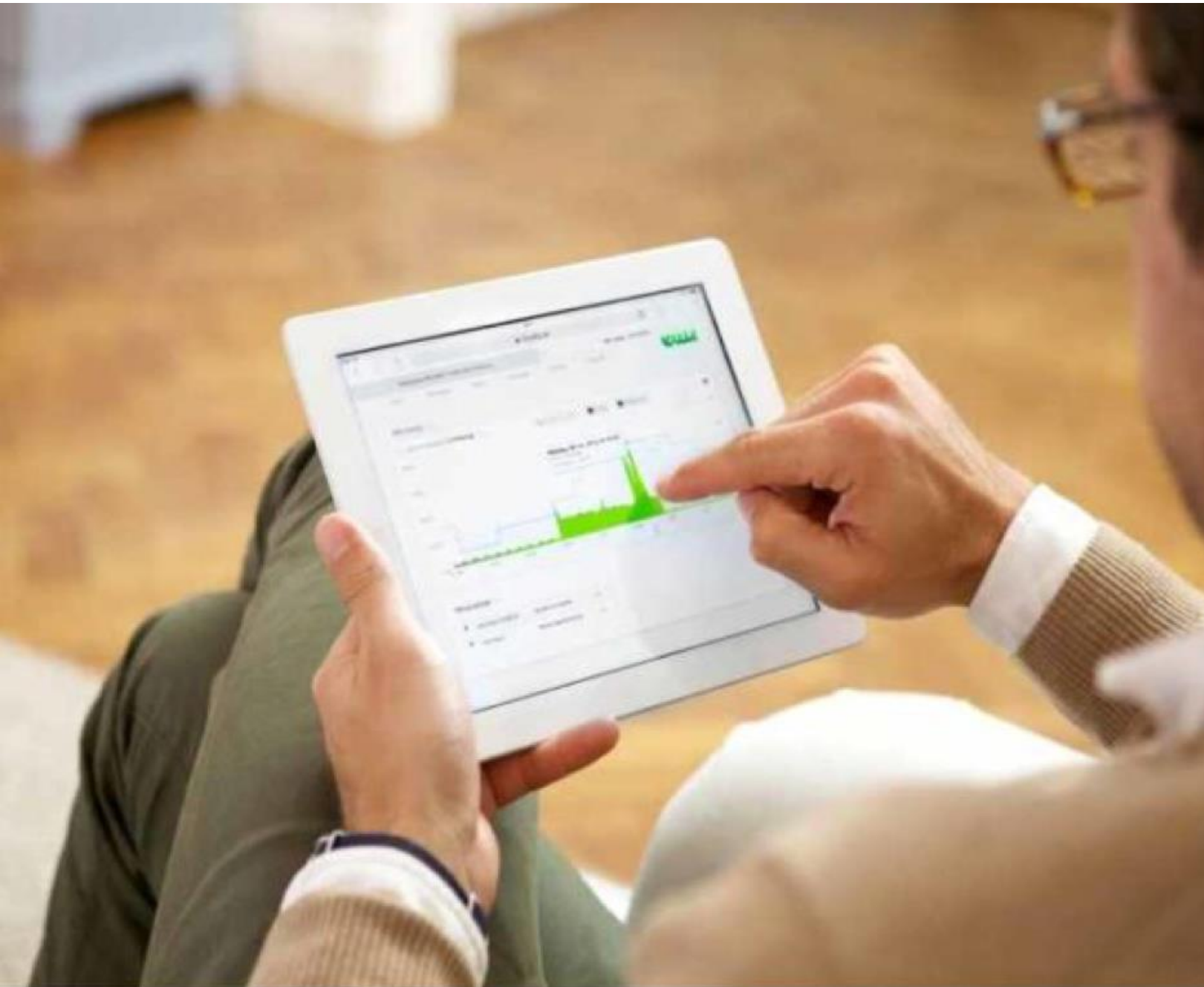
Our technology

- » Nexo bridge (2 topologies with Edge devices and without Edge device)
- » Nexo App for tenants/energy consumers
- » Operator platform (building administrator /utility companies)
- » Cloud services
- » Open API to integrate the interfaces with existing third-party Apps and platforms
- » AI algorithms to calculate
 - future and current heat costs in apartment buildings
 - future electricity usage of households and energy production of DER assets
 - Inertia in buildings and apartments.



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Advantages of the solution



Scalable

Cloud and modular architecture facilitates frictionless scaling.



Low implementation costs

Hardware agnostic, bridge that can be customized to the project requirements. Bridgeless version available.



Data acquisition & reliability

Software on each device implements local storage and business logic that allows for high data privacy standards. Runs locally – works without internet



Flexible

The bridge supports different communication protocols and APIs of many vendors. Seamless integration with third party platforms via API.



Co-development approach

Do you have a specific IoT or a smart energy project? We can support you. From idea to launch, we accompany you through all the phases of product development. We customized the business case to your needs and integrate with your existing systems.



Let's explore some pilot projects together!

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Ready platform to co-develop
energy services

Scalable and modular solution

Dream team