

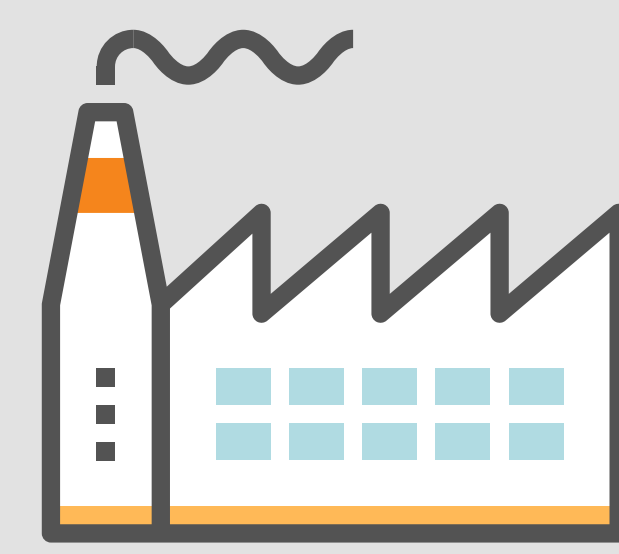


# ENERGYCARROT

The EnergyCarrot Mission is to radically improve sustainability performances and financial performances of buildings through energy digitalization and smart managing of the energetic resources.

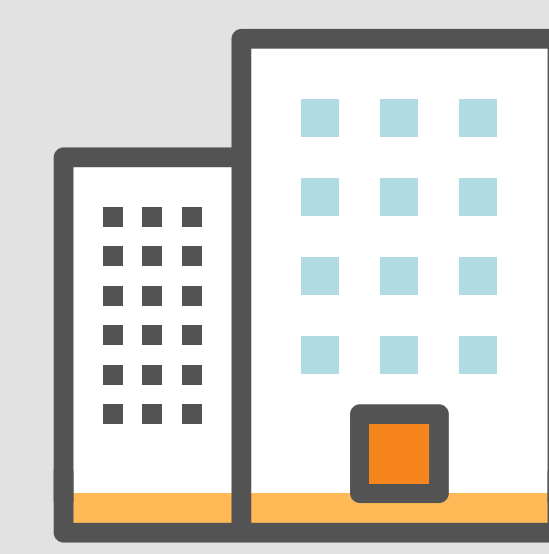
## Users needs

Reducing energy costs per person, with the goal to lessen environmental impact generated from energetic request.



### Industrial Users

An SME with inefficiencies in energy management and production/logistics loses, average, 3% of the annual income; constantly monitoring energy consumption and adopting dynamic rationalization strategies can lead to save between 7500€ and 60000€ per year.

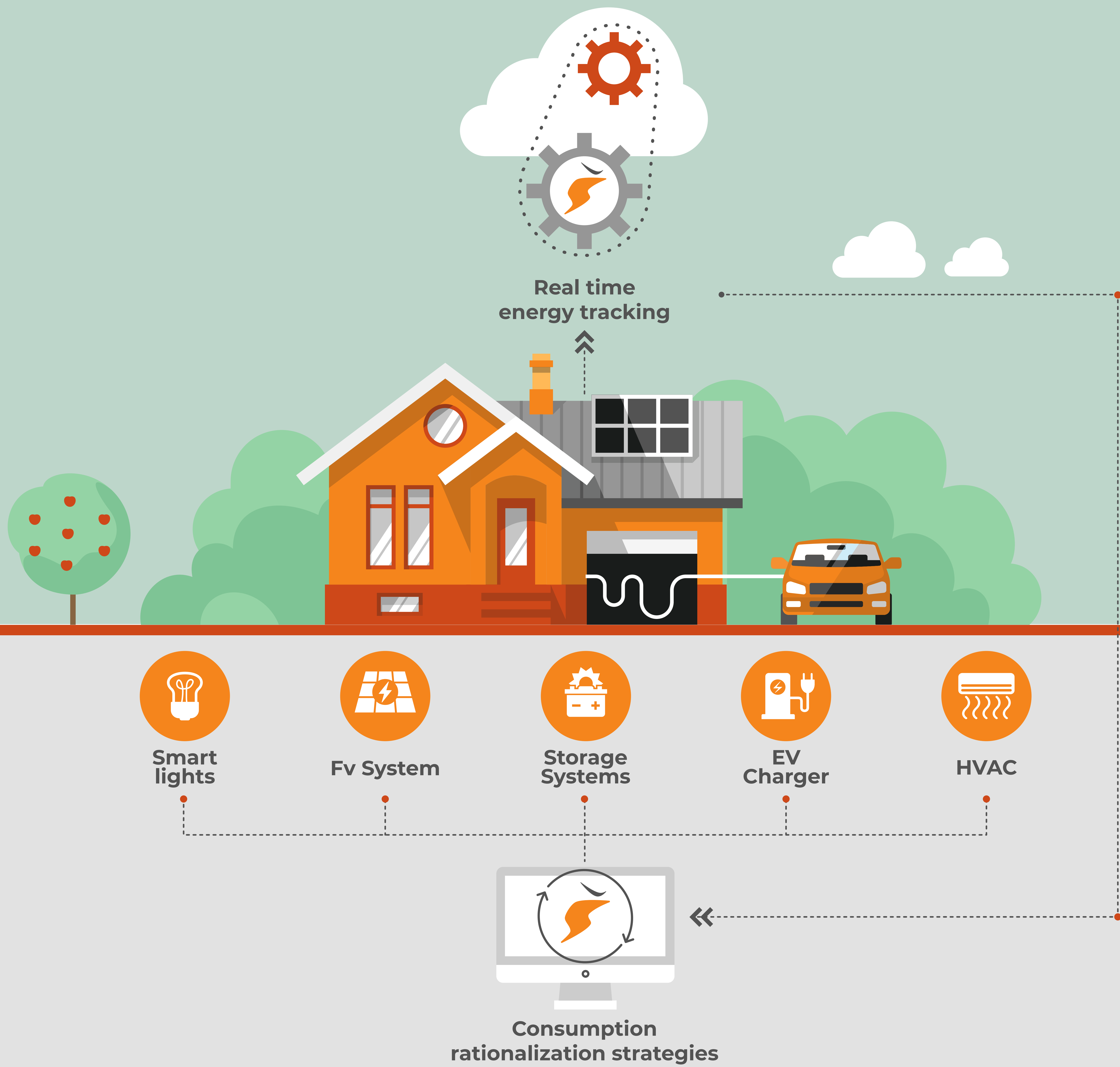


### Domestic Users

A research of the National Statistics Institute states that, per family, the annual expenses for energy are in average about 1716.50€, optimized strategies for energy consumption and production managing can reduce consumption of about the 20% which leads to an average 350€ per year, per family, saved.

## Solution

Energy Carrot is a system made by an electronic bidirectional control unit, easy to install in the monitored locations, that collects data from different peripherals and devices (solar inverters, smart plugs, sensors, storing systems, smart household appliances, industrial machineries, robotic islands etc.) makes them consistent and analyze them via an AI integrated model which extrapolates optimized strategies for energy management. Those strategies are offered to the user with increasing automation and applied via direct command of the paired devices. Data are then sent to a server for cloud storage.



## COMPOSITION

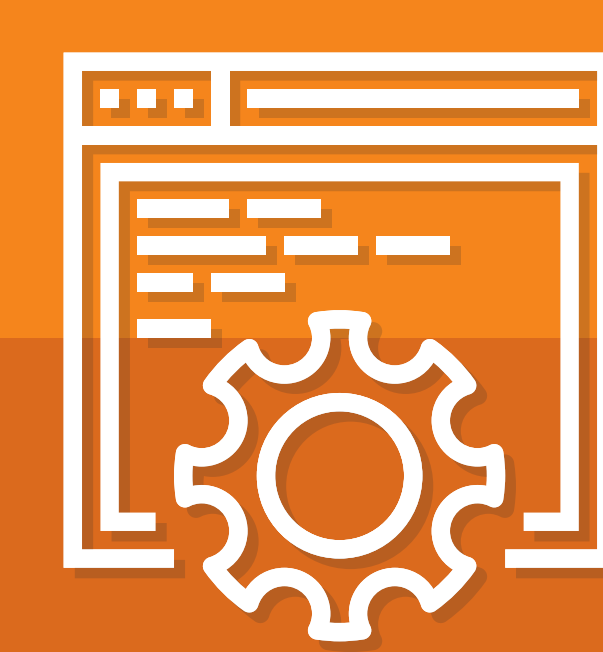
### HARDWARE

Control unit for the management of all the production and energy taking points and of all the compatible units.



### SOFTWARE

Firmware for management, preparation and conversion of input data from coupled devices, with multiple communication protocols. Website for elaboration and collection of the energetic data; app for mobile, tablet etc.



## TECHNOLOGIES

### HARDWARE

Traditional electronics.

### SOFTWARE

AI algorithms and protocols in blockchain.

## INTELLECTUAL PROTECTION

Copyright on software registered at SIAE (04/2019)

## STATE OF ART

### Hardware

Concept, pre series project in development, working in controlled environment.



### Software

Debugging software



### Web platform

Base version with data collected from beta test.



### App

To be developed.



## REFERENCE MARKET

B2B + B2C

## Appeal

