VIRTO SMART

#1 Market Smart Climate and House Management Solution

SERGEY SINYUGIN
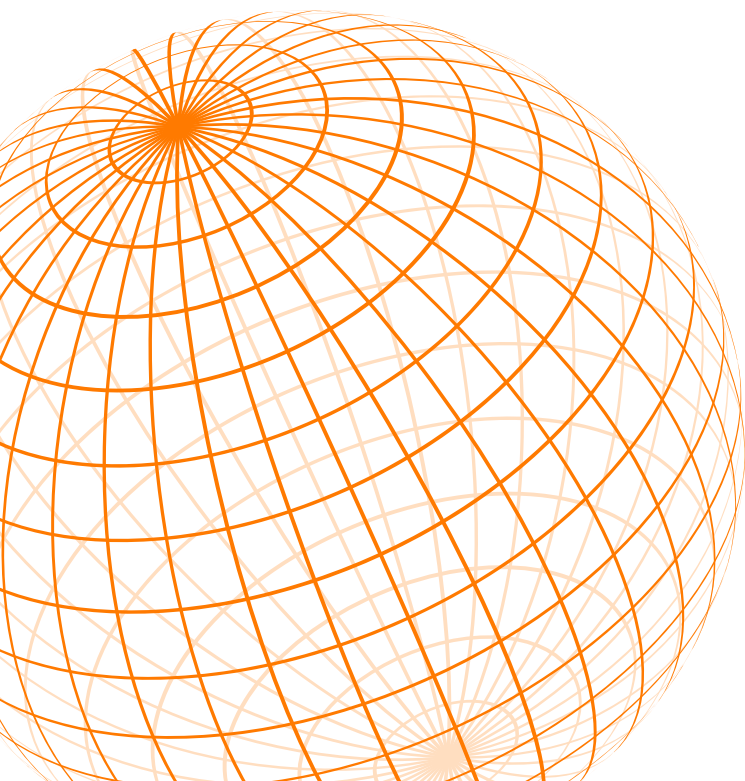SMART.VIRTOPROPERTY.COM

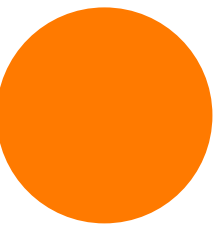# Company
Some Facts

virtoway.com

- IT, E-Commerce, Real Estate
- Founded in 2011
- More than 5000 clients worldwide
- Community of 125K+
- Implementations across Europe, Asia and Americas

Think Scenarios not Gadgets

VIRTO CLIMATE

CLIMATE
SORT BY RATING

10.3	22.6	10		
Kid's Bedroom · Climate	Master Bedroom · Cli...	Livi...		
Kid's Bedroom	**Master Bedroom**			
Comfort	Comfort	Co...		

Living Room · Climate	Master Bedroom · Cli...
Fancoil	**Fancoil Status**
Выключен	Off

CENTRAL

Climate Controller
No Demand

GUEST BATHROOM

Set Heat Floor
On

GUEST BEDROOM

Fancoil
Выключен

Heat Floor
0.0

Set Heat Floor
Off

KID'S BATHROOM

Set Heat Floor
Off

KID'S BEDROOM

Fancoil
Выключен

Heat Floor

★ Favorites   Central

Zero House Model for 150 sq. meters
Technical Data

Zero house. We take the surface area (floor, walls, roof) as 450 sq.m. The heat loss is 0.49 W/sq.m./K. Then our house loses approximately 220 watts at a temperature difference of 1 degree.

On an average year, we can consider the difference to be 10 degrees or less, in peaks 15-20. The annual average climate consumption of the house is 2.2 kW of thermal energy, or approximately 500 watts of electrical energy.
The heat loss of the house for the year is 19,272 kW of heat or 4,818 kWh of electricity. In a month, respectively, 1606 kW of heat or 401 kW of electricity.
401 must be multiplied by the cost of electricity, **on average less than 100 euros**.

The solar panels. To cover the climate costs of the house, you need to get 401/30= 13.4 kW. Our 5 kW solar panel produces about 20 kW per day. I.e., even taking into account DHW, **the climate part of the house can be provided by one five-kilowatt solar panel.**

All calculations are made with a twofold reserve, as the average annual temperature difference from the specified (23 degrees) will not exceed 5-6, 10 – is more likely to peak loads, heat loss can be reduced a couple of times easily (according to the engineer-builder), and the area at 450. We chose taking into account that the floor, ceilings and walls lose the same energy, but floor and ceiling: 15-20% of heat loss from the walls.

Zero Home scenario
Technical Data

House with living area: 150 square meters
Family: 3 persons

Option 1

Equipment's setup + Software + **5 kW/h solar panel + 10 kW/h Battery**.

Generates 7300 kW/h per Year.

Monthly Climate Costs + Hot Water = **0 Euros** (4818 kWh of electricity yearly)

General Energy Consumption per family per year is 9000 kW/h x 0,20 = **€1800** (x 0,35 = €3150)

Option 2

Equipment's setup + Software + **10 kW/h solar panel + 20 kW/h Battery**.

Generates 14600 kW/h per Year. Monthly Climate Costs + Hot Water = **0 Euros** (4,818 kWh of electricity yearly).

Energy balance 14600 – 4818 (climate) – 9000 (electricity etc.) = **+782 kWh excess electricity**

Users
Easy to go

- Different levels
- You don't need to learn it. Just live it.
- Friendly for older people
- Friendly for kids

What's Inside
Points of Interest

- Climate
- Energy
- Security
- Water Management
- Smart Light
- More Smart Scenarios

Equipment
Set of Standard Equipment

Loxone
server + peripherals (sensors, ect.)

Heat Pump 5-6 kw/h
Mitsubishi Hydrobox
Daikin ALTHERMA Monobloc
Vaillant aroTHERM Plus VWL

Solar Panels 5 kw/h

LG Battery 10 kw/h h

Ventilation Vialant

Fan-coils 4x 3-2kw/h + 1x-5kw/h
Vaillant aroVAIR
Daitsu FDLA AC TS 09
Saunier Duval SD 4-020
LG FENCV-EC 025
Aquatermic Conducto AQ LD 12

Grundfoss Magna 3 250 watts

Water Deposit 300 Litres DHW

see details on the links

Climate
You never feel before

- Temperature, Humidity, PPM
- Ventilation
- Heat Floor
- Fan-coil Speed/ Noise
- Sun Protection with Rolls or Curtains
- Management/Scenarios
- Effective Cost by Room

Energy

Have you ever control it?

- Energy Monitor
- Consumption by Room / Statistics
- Climate Cost by Room
- Consumption by Equipment
- Sun Light Protection
- Peak/Priority Management

Security
Do not worry anymore

- Access Control / Log / Management
- Alarm/Smart Alarm
- Stable and clear air. Humidity and Temperature. Freeze/hot protection
- Automatic Light
- Presence Imitation
- Smoke Detection
- Energy Peaks Management. Automatic cut off in case of leak or fire
- Water Leaks Control
- Legionella protection
- Unusual Behaviour

Hot Water
Lets take a shower

- Timing
- Emergency Heating with Electricity
- Temperature graphs
- Cost
- Water Consumption
- Anti Legionella
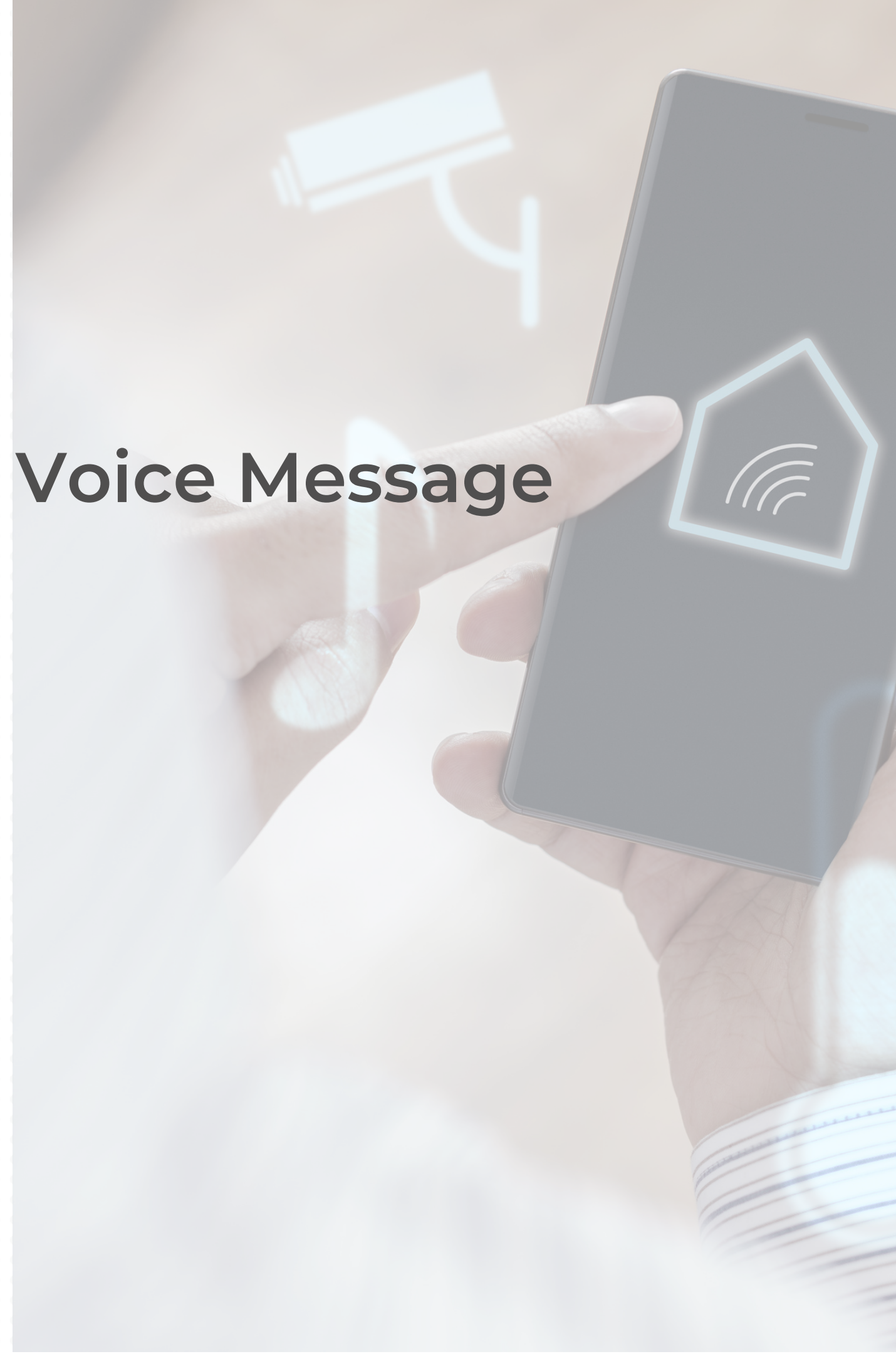- Security

Smart Light
Do not touch that thing

- Automatic Light Management
- Within Natural Light
- Night Light
- Users Scenarios
- Curtains
- Rolls
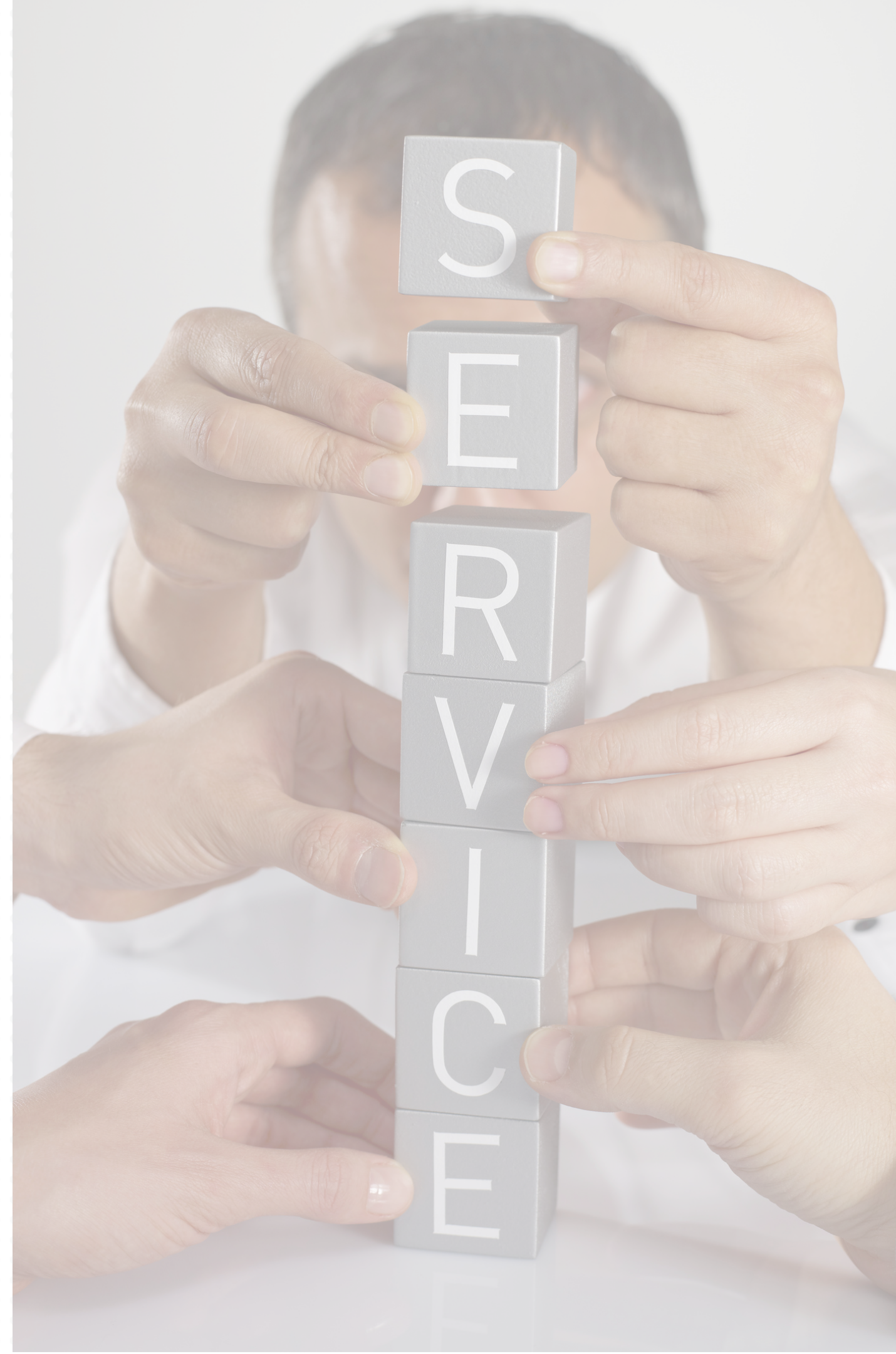- Dimming Light

Smart House
is coming

- Audio Multiroom /Door Bell /Alarm / Voice Message
- Pool management and security
- Party Mode/Light Scenarios
- Video
- AI
- Tesla Charger
- Garden Smart Watering/Light

Service
Full covered

- Software compile with EU standards

- Machines compile with EU standards

- Installation compile with EU standards

VIRTO SMART

See now how Zero Home works

View the Virto Smart Climate Solution in action here >>

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