



THE FUTURE OF GOOD CONSTRUCTION



INTELLIGENCE, AUTONOMY, DATA PRIVACY, AND SUSTAINABILITY FOR EVERY BUILDING



TO BE EFFECTIVE, AI BUILDING AUTOMATION REQUIRES COMPREHENSIVE DIGITAL INFRASTRUCTURE

The OmniBus hardware and software offers complete building automation in one package. It makes comprehensive application of AI technically and economically feasible in both construction and habitation.

OUR INTERNATIONAL PATENT COMMITMENT FOR THE OMNIBUS

- Area: Connection terminal for copper wires and fiber optics (granted patents)
- Aspects of the hybrid cable (current patent applications)
- Socket with 11 functions (utility model)
- Aspects of the installation robot (ongoing patent applications)

A large, glowing yellow 'AI' logo is positioned on the left side of the slide. The background is a dark, abstract pattern of glowing orange and blue lines, resembling a complex circuit or data network. The 'AI' logo is a bold, sans-serif font, with the 'A' and 'I' connected. The logo has a slight 3D effect with a yellow glow and a dark shadow.

INCREASES COMFORT & SAVES ENERGY COSTS

OMNI-AI ENABLES INTELLIGENT & EFFICIENT BUILDING CONTROL

The OmniAI is able to coordinate thousands of sensor data points provided by multi-sensors and modules. This enables comprehensive building automation and energy optimization of all systems (heating, ventilation, etc.) by analyzing, for example:

- Weather forecasts and ventilation requirements
- Occupant or employee behavior and individual requirements
- Costs, savings programs and consumption data
- Data protection, various security aspects e.g. access authorizations
- Service and maintenance
- Calendar entries
- Incoming orders, plant utilization and plant coordination

AI IS LEARNING TO TAKE ON MORE AND MORE TASKS AND CONTROL THE BUILDING AUTONOMOUSLY.

INSECURE & EXPENSIVE

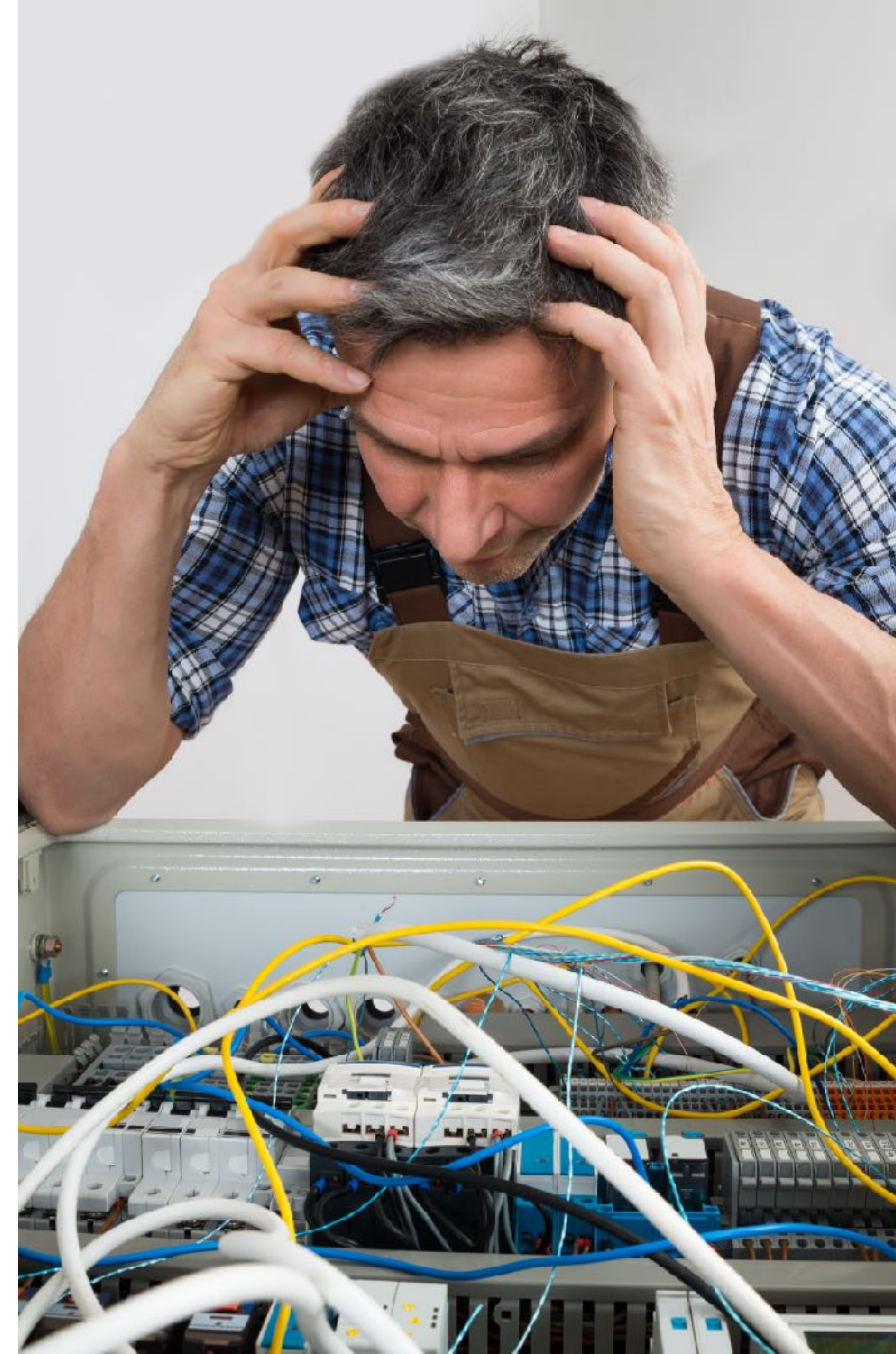
THE PROBLEM: INEFFICIENCY

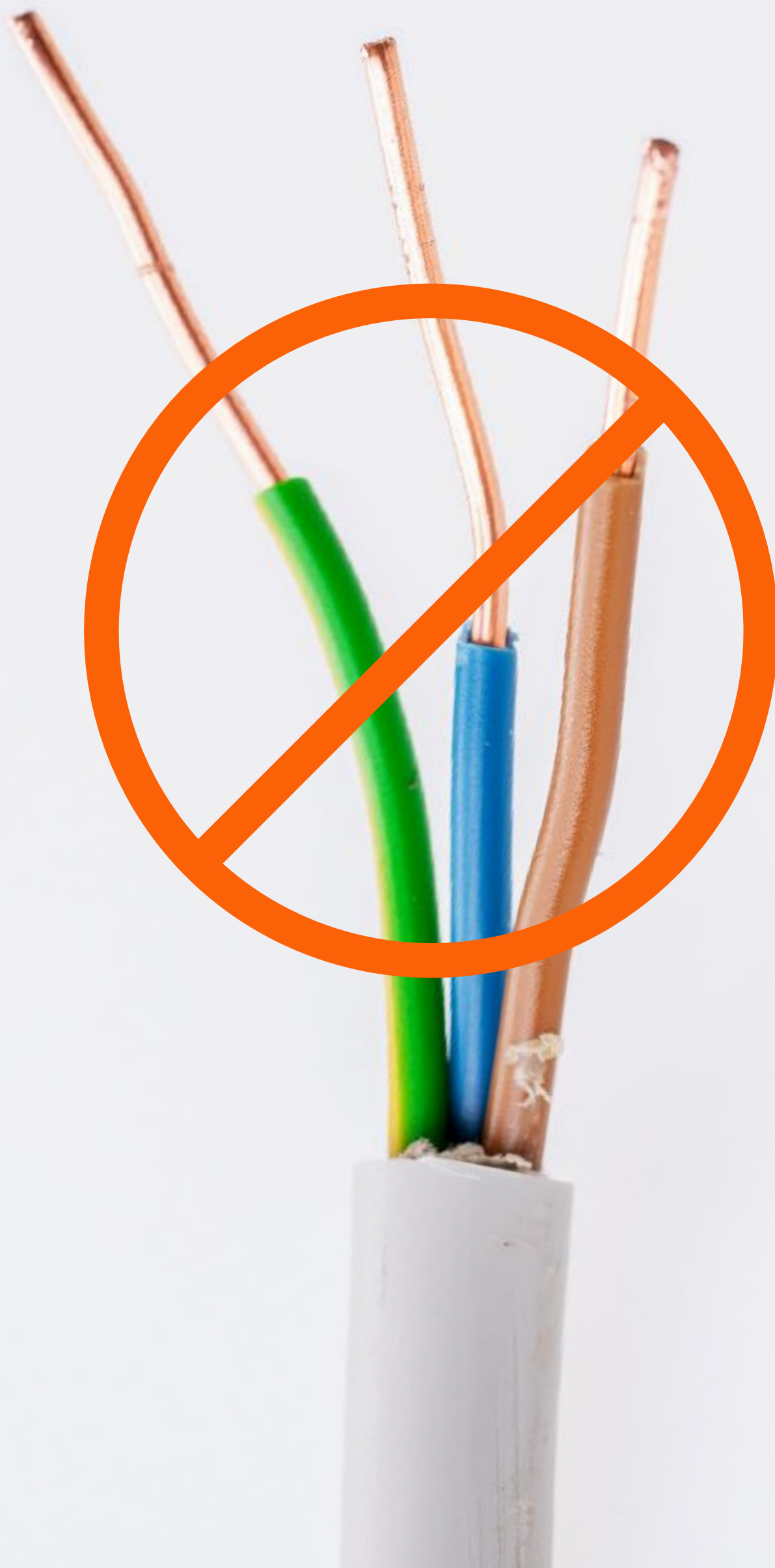
In a typical residential building, up to 10 different cable networks are installed. (Such as alternating current, computer networks, KNX bus cables, fire alarm, intrusion alarm, audio system cables, telephone, doorbell, TV, and antenna cables, photovoltaic system cables, and possibly fiber optics).

AN AVERAGE RESIDENTIAL HOUSE HAS APPROXIMATELY 2.5 KILOMETERS OF CABLES INSTALLED - AN UNSUSTAINABLE WASTE OF VALUABLE RESOURCES AND HUMAN LABOR!

In industry, additional systems are in use (direct current cables, field bus systems, other data and control networks).

SPECIFIC CABLE TYPES ARE OFTEN MISSING, AND SMART FUNCTIONS NEED TO BE RETROFITTED USING WLAN TECHNIQUES, WHICH ARE ENERGY-INTENSIVE, INSECURE IN MULTIPLE WAYS, EXPENSIVE, AND ENVIRONMENTALLY BURDENSOME.





LACK OF STANDARDIZATION

CURRENT SYSTEMS ARE NOT FUTURE-PROOF

- There is currently no integrated cost-effective system on the market for
- digital infrastructure in buildings
- Existing systems do not meet EU regulations
- Data privacy concerns remain unresolved in existing radio systems
- Lack of standardization of interfaces requires additional work and expense
- Closed systems and protocols create compatibility issues
- Shortage of skilled labour due to the lack of future planning

THE SOLUTION

**FOR COMPLETE DIGITIZATION AND
STREAMLINED BUILDING AUTOMATION,
WE NEED CABLES THAT DO MORE THAN
JUST CARRY ELECTRICITY.**

THE SOLUTION

THE OMNICABLE REPLACES ALL CABLE NETWORKS IN THE BUILDING

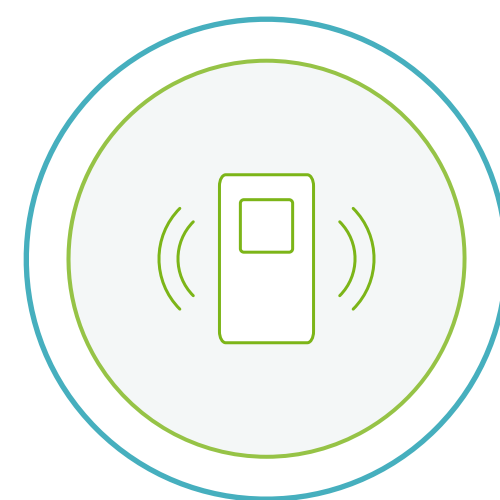
ONE CABLE SYSTEM. ONE PROTOCOL. ONE APPLICATION.



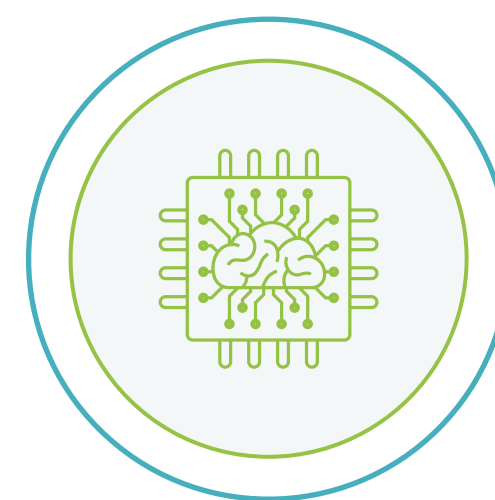
One
Hybrid Cable
for the entire building



One
OmniClip
connector



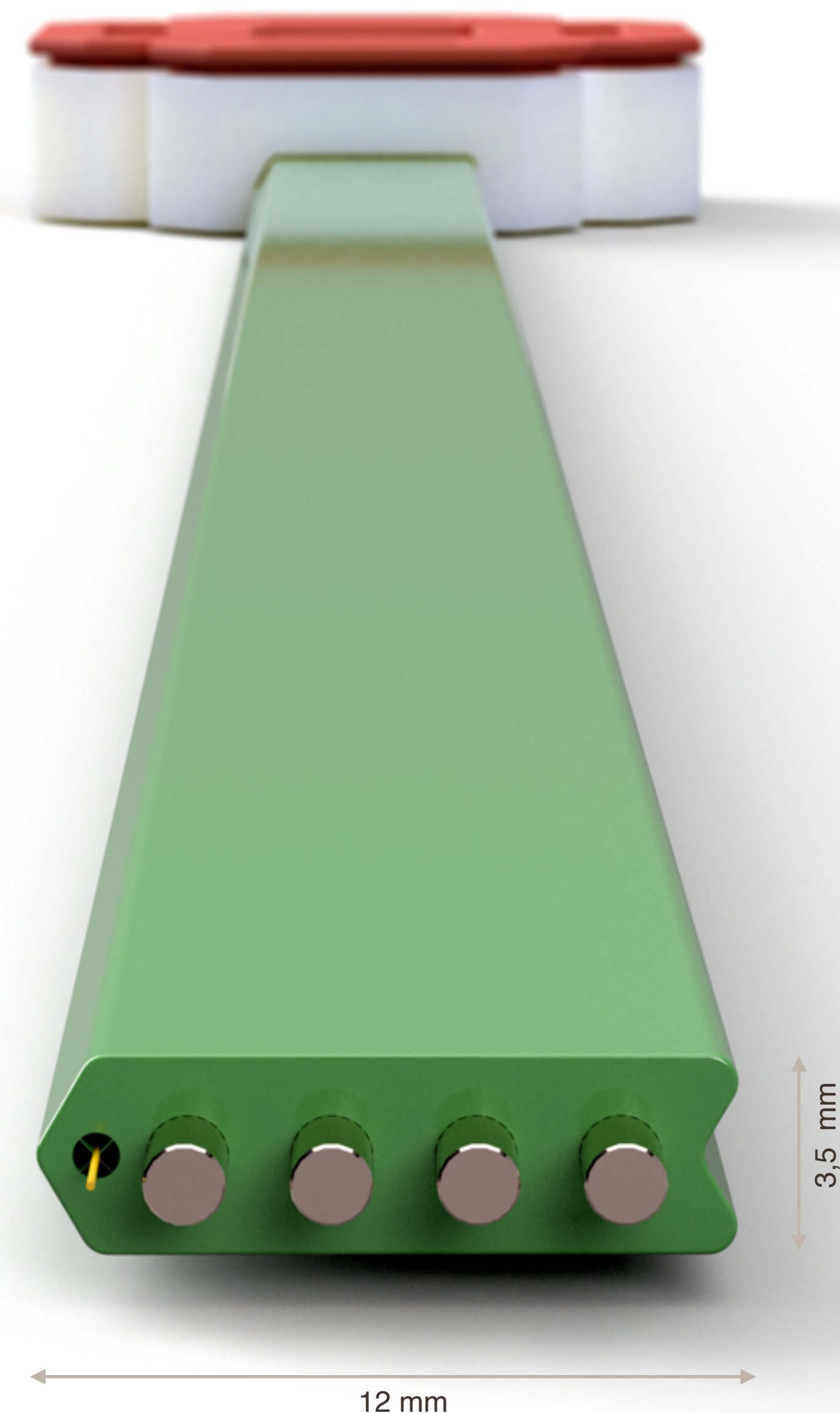
One
Central Sensor
for each room



One
OmniServer
with OmniSoft

THE HYBRID CABLE PROVIDES:

- 16A AC (230V)
- 16A DC (48V)
- Fiber optics for internet and computer networks
- PowerLine mini data network for building control
- PowerLine IoT for every socket





SOFTWARE

BUILDING AUTOMATION 2.0

The adaptable “OmniAI” takes over building control.

OMNISOFT

For communication with sensors and actuators.

- It replaces: heating control, security and other control systems
- Controls pumps, access permissions, consumption monitoring, etc.

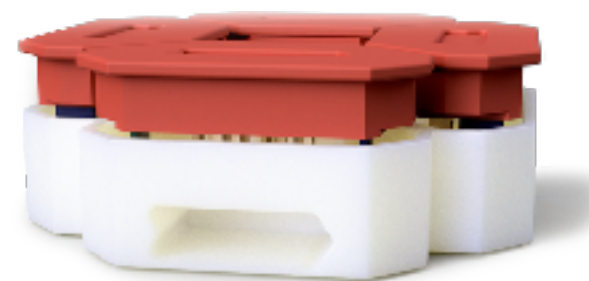


HARDWARE

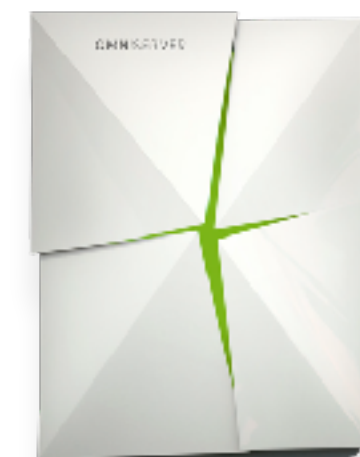
OMNICABLE (HYBRID CABLE)

Replaces all other cable systems in the building.

OMNICLIP



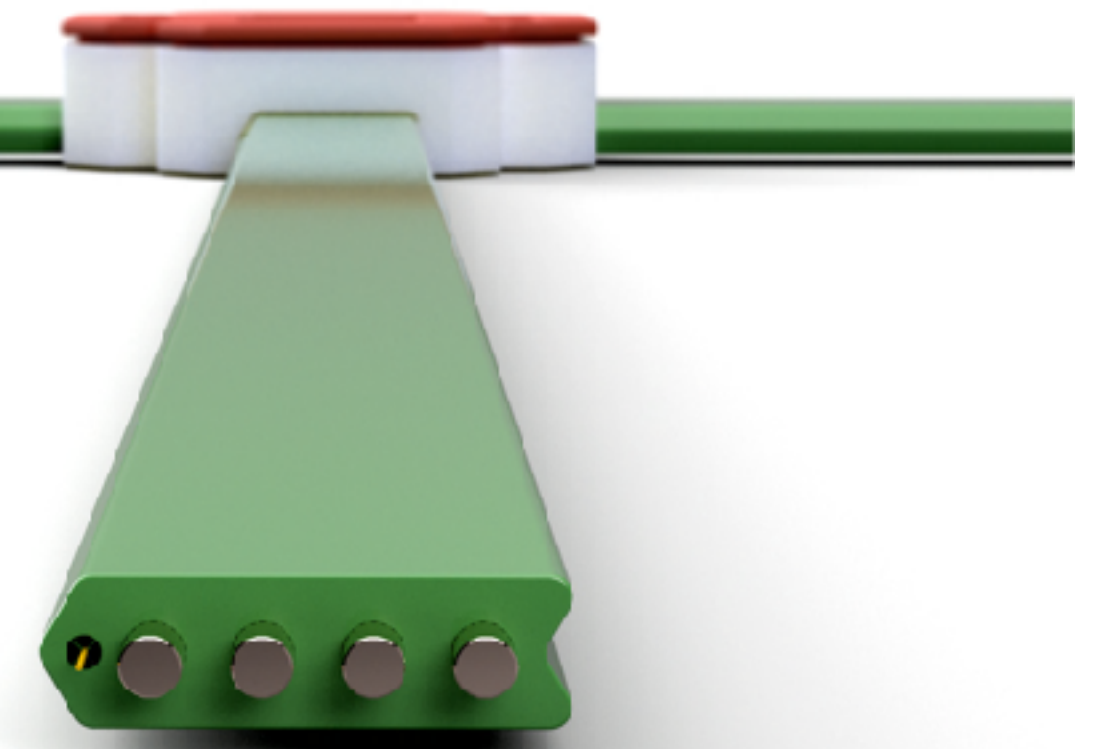
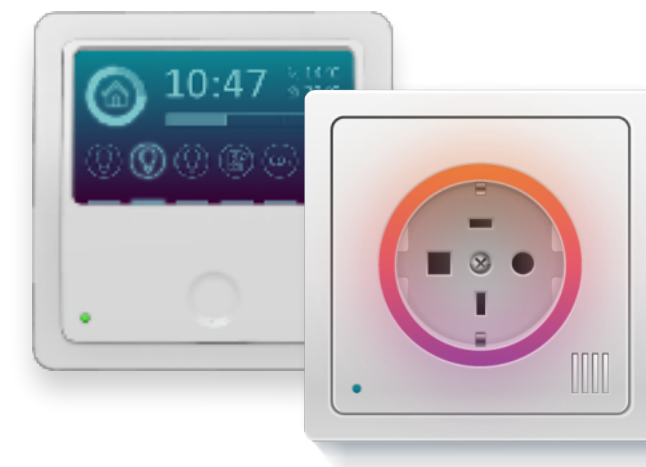
OMNISERVER



OMNISENSOR



OMNIMODULES



OUR PROMISE

THE OMNIBUS IS THE SOLUTION TO URGENT ISSUES

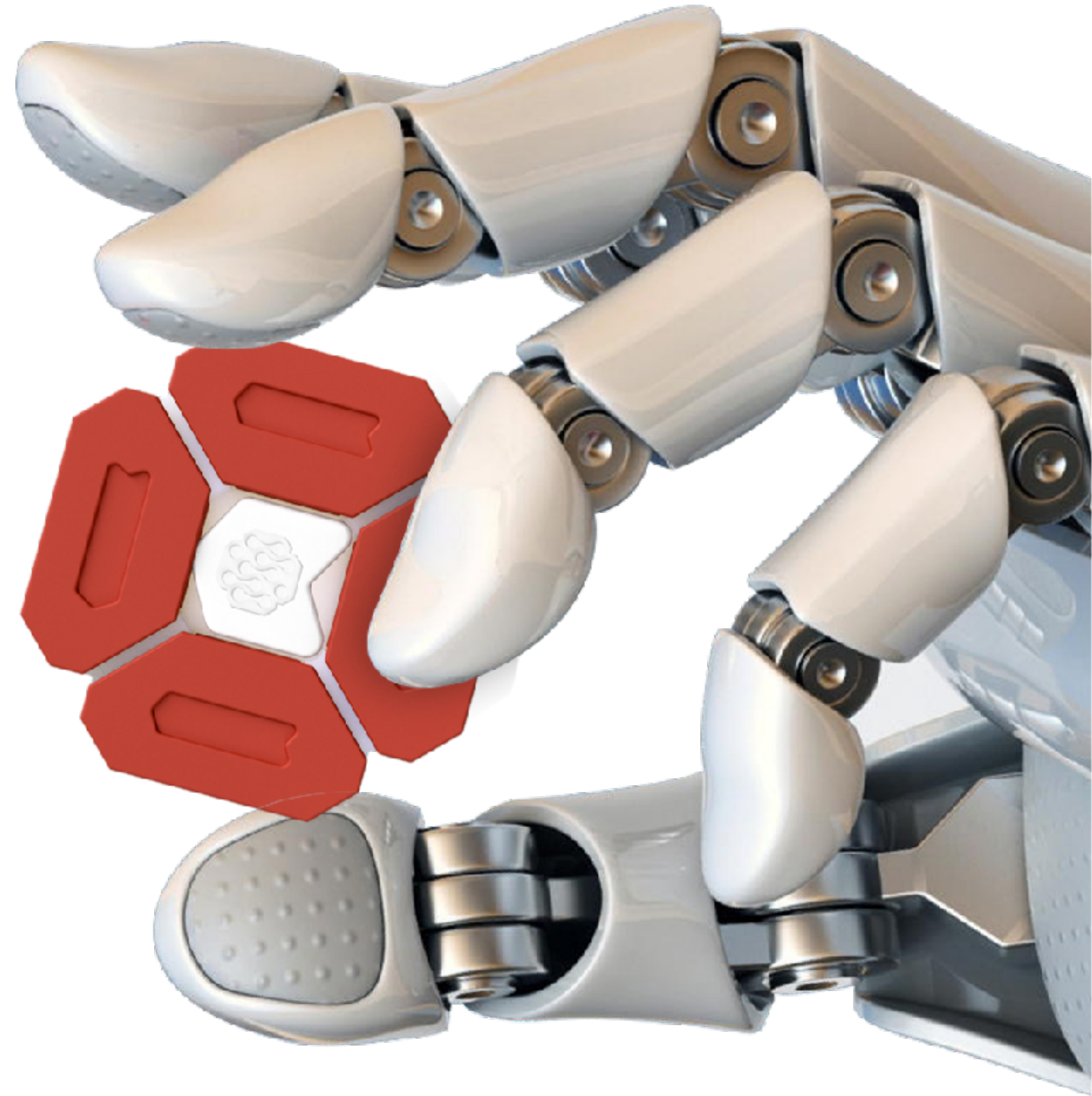
- Equipped to fulfill upcoming EU directives
- The OmniBus saves the highest amount of material and energy costs while offering maximum comfort for all the building's occupants
- Complete building automation at the price of analogue building electrics
- The OmniBus does not rely with WLAN which is vulnerable to interception and manipulation
- Power, monitoring, and control form a single cohesive unit

OMNIBUS IS THE SYSTEM OF CHOICE FOR
SUSTAINABLE BUILDING PROJECTS.

WORLD PREMIERE

TECHNOLOGY OF THE FUTURE FOR AI IN BUILDINGS

- The **OmniBus** is a world premiere:
 - combines AC & DC & fiber optics in one OmniCable
 - uses a **robot-friendly** connector for the hybrid cable
- The ingeniously simple **OmniClip** replaces cumbersome cable-connection technology (e.g., terminal blocks and WAGO connectors, splicing of fiber optics)
- In the future, the **OmniRobot** will lay, connect and commission the cables
- **The OmniBus can do without WLAN** – the entire control is done via the cable. (Operation is of course also possible with WLAN)





OPENING UP HUGE MARKET OPPORTUNITIES

THE OMNIBUS MARKET POTENTIAL

IN HOME AUTOMATION, THE TRANSITION FROM NICHE TO MASS MARKET IS UNDERWAY

German's Central Association of the Electrical and Electronics Industry (ZVEI) promotes an "All Electric Society" and anticipates significant growth potential for electrical infrastructures through the replacement of fossil fuels.

Projected strong growth until 2030 in the product business, thereafter in the area of smart services.

(ZVEI Symposium Building Automation 2023 in Frankfurt)

- **The future belongs to hybrid cables and robot-capable installation technology.**
- The OmniBus has the capacity to establish the **world standard** for hybrid cables.
- **World premiere:** AC & DC & fiber optics in one cable.
- **World premiere:** Robot-capable connector for hybrid cables.

**FOR COST REASONS ALONE,
THERE IS NO WAY AROUND THE HYBRID CABLE**



CLIMATE CHANGE & SUSTAINABILITY

Given the dramatic consequences of climate change, pioneering solutions are needed to protect climate and environment as quickly as possible.

OmniBus saves the highest amount of material and energy costs while offering maximum comfort for all the building's occupants. It enables approx. **75% cost savings during construction and an average of 30% energy savings in operation.**

The plastic parts of the **OmniBus** system and the sheathing of the **OmniCable** are made out of recycled material.

OMNIBUS IS THE SYSTEM OF CHOICE FOR SUSTAINABLE BUILDINGS

- Significant emission reduction through AI-powered building automation
- Sustainability through comprehensive digitization of buildings
- Energy efficiency as the key to climate protection
- Radically simplified and reduced use of resources during faster installation and operation
- Future-proof infrastructure technology - relevant for 30+ years

THE FUTURE OF GOOD BUILDING





NO COMPARABLE STANDARD

COMPETITION

THE SMARTHOME MARKET IS CURRENTLY DOMINATED BY WLAN GADGETS FROM VARIOUS MANUFACTURERS.

There are at least five competing interfaces on the market for home automation: Modbus, M-Bus, KNX, Bluetooth, and WLAN. These have their own protocols and applications. The majority of German manufacturers currently rely on KNX (wired or WLAN-dependent) as the standard. American conglomerates are attempting to establish an open standard with “Matter,” but only for a single WLAN protocol. This bypasses German data protection regulations.

WHAT’S GOING WRONG:

- Competing Systems and lack of common standards
- Industrial field bus systems are too expensive and complicated.
- KNX: Too laborious, costly and restrictive.
- WLAN: Energy-hungry, insecure, expensive and confusing.

IN CONTRAST:

The OmniBus provides maximum security, protection, control and sustainability for all buildings.

THERE IS NO COMPARABLE STANDARD!

INVESTMENT IN THE FUTURE

BUSINESS MODEL

THE OMNIBUS WILL START ITS MARKET ENTRY BY JOINT VENTURES WITH MANUFACTURERS OF PREFABRICATED HOUSE

(approximately 500 manufacturers in Germany)

MARKET POTENTIAL:

Direct Sales

of our products into the entry-level prefabricated house construction market.

Licensing

of our patented technology to manufacturing companies for building technology.

Long-term service contracts

with owners/tenants for software updates and external server services (AI).

FORECAST

BREAK-EVEN POINT IS ACHIEVED AFTER ONLY 300 SINGLE-FAMILY HOME INSTALLATIONS SOLD.





CALL TO ACTION

WE ARE LOOKING FOR CO-FOUNDERS, MARKETING SPECIALISTS AND GREENTECH INVESTORS!



to support:

1. AI programming
2. Model making of additional prototypes and certification
3. Marketing staff costs
4. Production costs for Series 1 / Patent costs
5. Material, administrative and office expenses

MILESTONES

1. Certification of OmniBus connectivity technology
2. Partnership with GreenTech investors
3. Production of Series 1
4. Equipment of model houses
5. Joint ventures with manufacturers and industrial users

THE RÖPERHOF IN HAMBURG

PROOF OF CONCEPT

In the completely restored silo at the Röperhof, now turned into an ice cream café, we operate a real-world laboratory for building automation with alternating and direct current. We test and optimize the OmniBus under everyday conditions – including control software, multi-sensors, heating control, emergency power technology, and more.

This means we know the technology inside-out, and are always refining our expertise and knowledge of real-world application. We are well-equipped to bring this revolutionary technology to the mass market.

OUR PARTNERS

For product development, pilot projects and networking

Prysmian
Group

CEE
BUILDINGS

SmartLivingNEXT®

zvei
electrifying
ideas

Hamburg
Invest

bundesverband
digitales
baugeschehen





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M. Sobeir Omar

- Financial Controller
- Organization
- Business economist



Coriolan Weihrauch

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- CEO MiA Studio



Akash Heimlich

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- CEO Cynergy Software (wattmon.com)



Florian Storch

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- Graduate economist



Henning Lipka

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- Communication



Oliver Timm

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- UI/UX Designer

