

## Your building can now think!

Our vision promises creation of Human Aware Buildings.  
Buildings that respond to user needs and context  
thereby enhancing comfort, improving flexibility  
and providing smart energy management opportunities.

# Is it enough?

Almende Research introduces an additive layer of technology to convert your building into a smart entity.

Our mission is to embed buildings with "wireless sensor network and intelligent systems" thereby giving users more control over their own spaces of interest and at the same time giving the building more information about user needs and whereabouts.

Our intelligent system provides extra comfort, control, safety and smart automation of your environment.

With this vision we introduce  
**the Smart Crownstone**



# Crownstone

The Crownstone is a very small device that can be deployed everywhere where wires meet each other in a building. It uses Bluetooth. This has as big advantage that it functions both as a sensor and as a control unit. Applications on smartphones can be used for the building to understand where people are. On the other hand people can control the building.

## Key functionalities:

- 2.4GHz multi-protocol device (BLE / ANT+ / Myrianded)
- 2.5 KW devices can be switched
- 230V switching no problem, model for 380V available
- Remote switch on/off functionality
- Remote reading out power consumption
- Remote reading out temperature
- Remote timing and scheduling
- Smartphone integration for access and control
- Web integration for access and control

## Features:

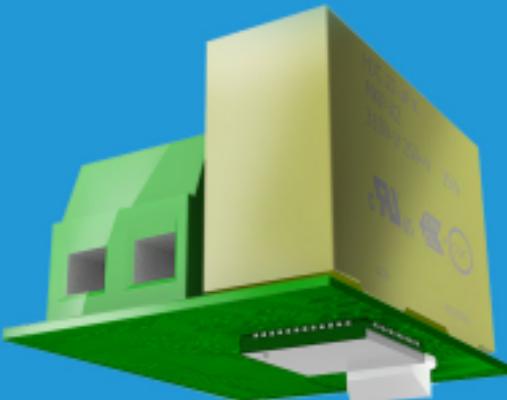
- Very small form factor
- Seamless integration in existing building infrastructure
- Easy to retrofit into existing buildings
- Easy to embed in any socket and power outlet
- Easy installation, configuration (zeroconf) and control of devices in every room
- Extendable with domain specific sensors via I2C (for example humidity in a museum)
- Seamless integrated with any smartphone

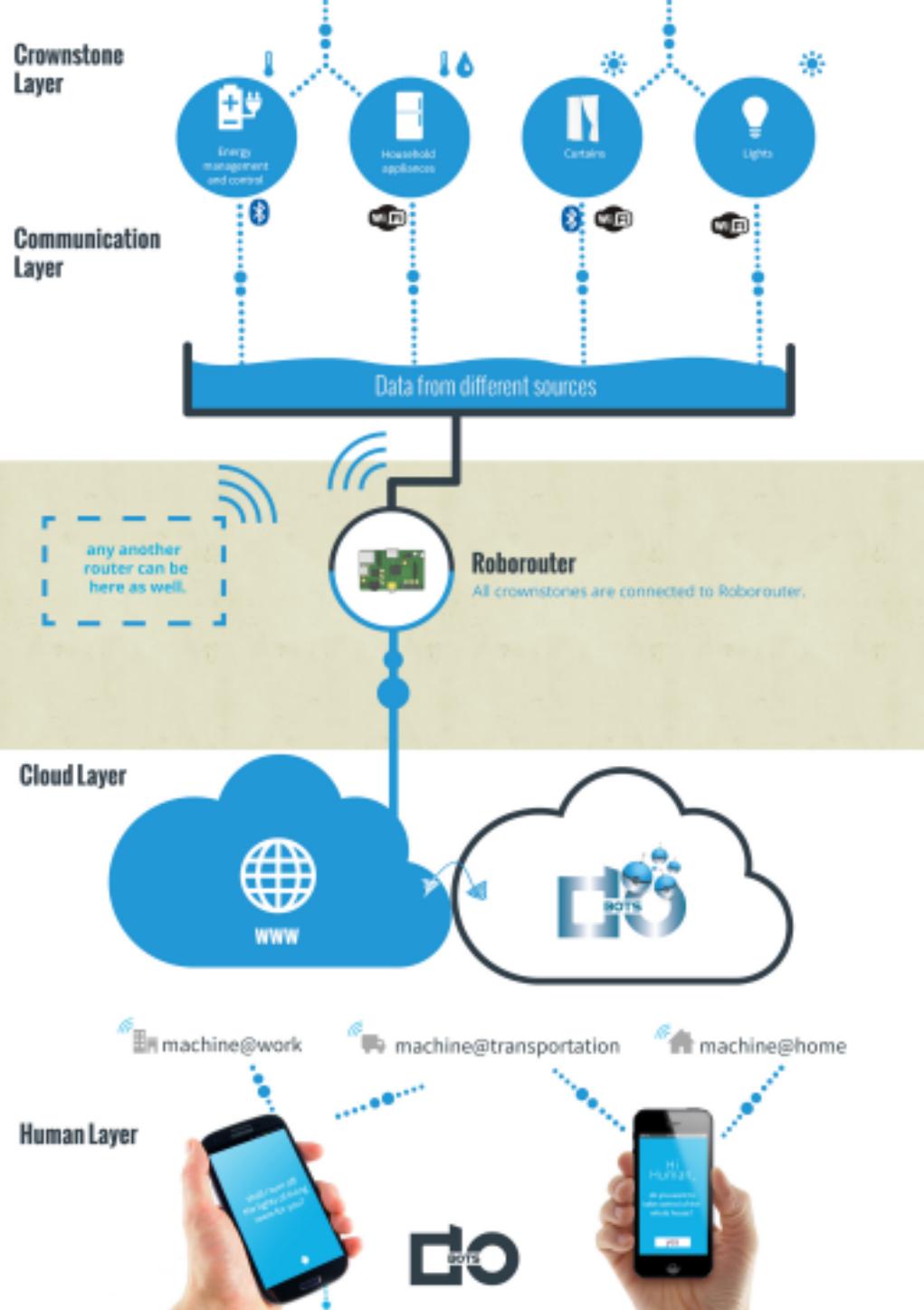
## Models:

- Bluetooth tag
- Crownstone (230V switch)
- Crownstone (380V switch)
- Crownstone with sensors
- Wireless BLE switch
- Wireless BLE sensor



Scale 1/1

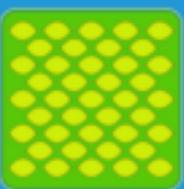




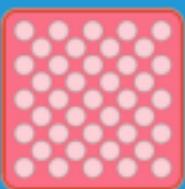
# Sensor packs



Temperature, Gas,Smoke  
Sensor Pack



Customizable  
Sensor Pack



Customizable  
Sensor Pack



Customizable  
Sensor Pack



We are a big and  
flexible family



AC Power Adapter  
With and without sensor connection



→ DC Power Adapter, two AA Battery



### I like it when it is 9:00

Yeah people are coming, I am really curious about who is going to be next. Aha, Kevin entered to the office a bit earlier than usual. I should make his room ready.

Lights, yeah on.  
Curtains, semi open  
Heat, 21 degree as usual.

It is time for Mary, his secretary to bring his coffee..



Let me introduce you Kevin, John and Alert. These guys are as smart as I am.



### 17:30, leaving people

Yeah people are coming and they are leaving when the time comes. Let's check the rooms, yes all rooms are empty now.

I think that nobody will need a cold water after that moment. Only security lights are on, very romantic and I also deserved some relaxation time, right?

### Lunch or meeting

Knock, knock.. Monday weekly meeting is almost going to start. The room is unavailable for the rest, sorry guys. Let's check how long it is going to be.. Till lunch?

Why do not you turn off your computers if you are going to stay that long? Ok, I will do that too.

Sometimes, I do not know, What are they going to do without me?



### Lights on for Janny

Jones woke up in the middle of the night and asked Janny for a glass of warm milk. I'll turn on the lights in the hall and may be dim the kitchen lights a bit for Janny.

Janny forgets where things are and is fumbling for the pan.. May be I can help her locate the pan with my light indicators.

There you go, she made it. She is taking the milk to Jones now. I must turn the light off after her... hmm, may be I'll just wait a little bit for Janny.



Say hello to Janny (69) and Jones(71). They live inside of me and are a happy couple.



### Wake up call 8:00

Let's check what time should they wake up? Ow, Janny and Jones have an appointment with their doctor, they need to wake up a bit earlier today.

I will wake them up at 8:00.

### Did I get forget something?

Janny seems to be sleeping tight. Did I check if the burner is off? Oh Janny! She forgets it again.

She also forgot to shut the door in the morning. May be I should inform the her doctor about this.

# DoBots

It's in the name. Groups of bots searching, cooperating, grazing and negotiating. DoBots are modeled after nature where colonies, flocks, and swarms of animals show intelligent behaviour together.

## Crownstone

The Crownstone can implement human-aware functionality in all types of buildings. Crownstones in a museum save energy for the facility managers and provide audio tours for the visitors. Crownstones in a station control the lighting for the facility managers and guide people to the right platforms.

If you are wondering what Crownstones mean for you, contact us.



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