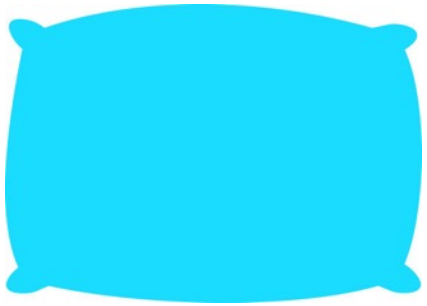
STACK

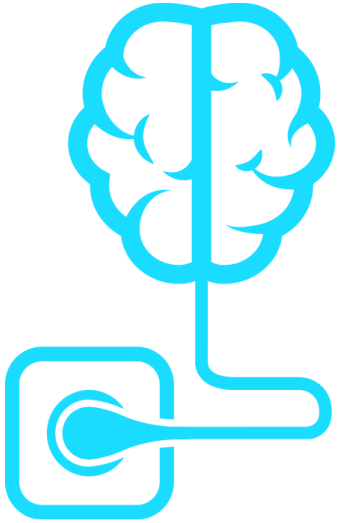
How to make spaces responsive

Stacklighting.com

Why have connected devices?



Improve UX



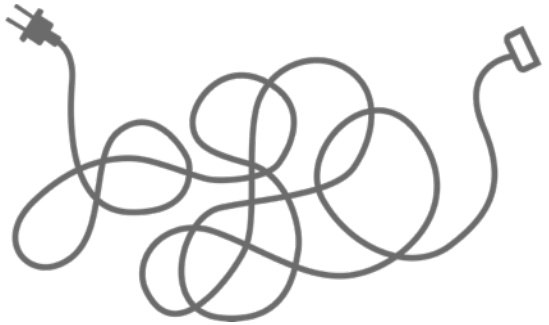
Simplify Setup

Automated
and Efficient

The current problems with building controls systems

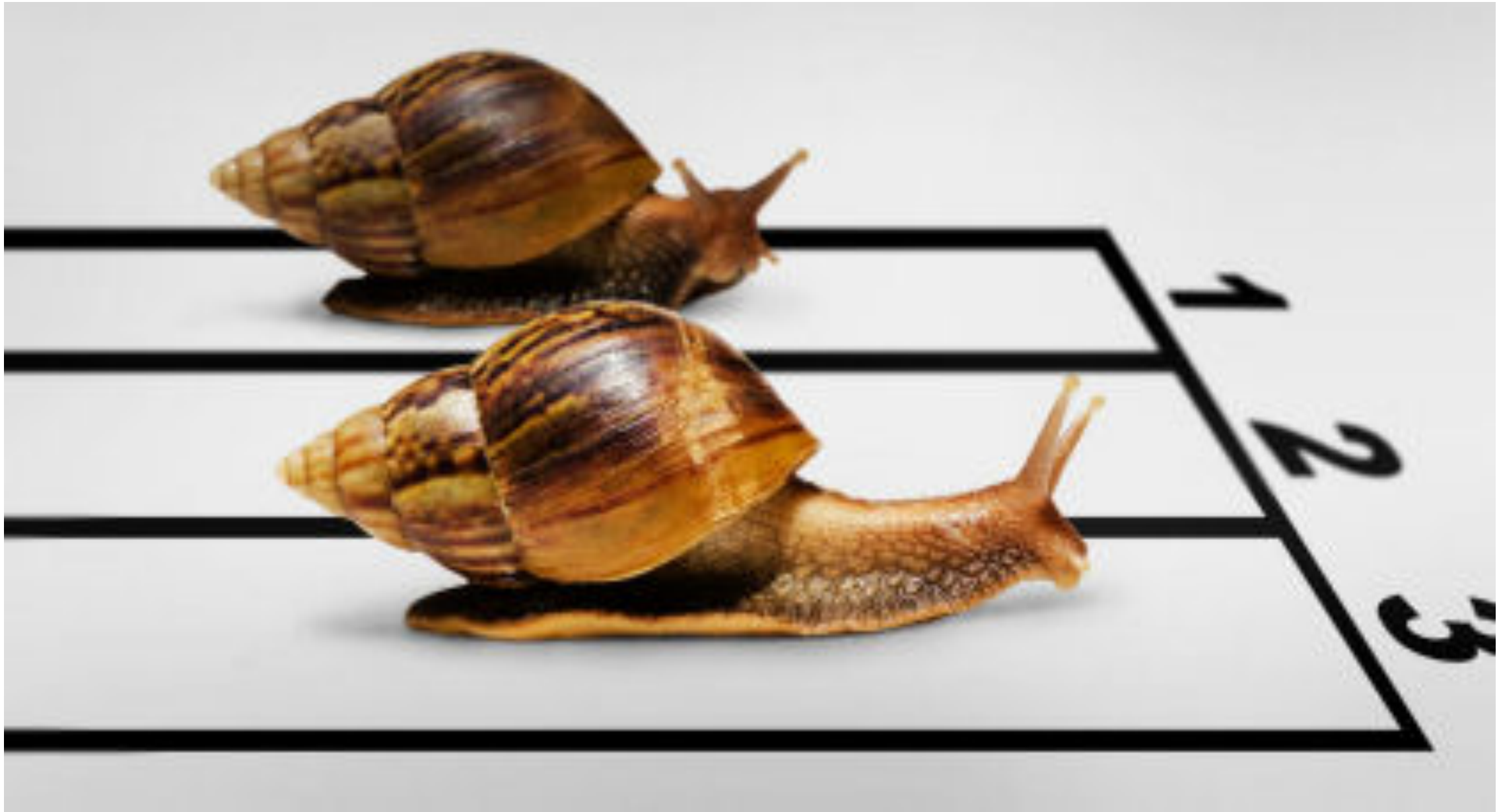
Complex

Expensive



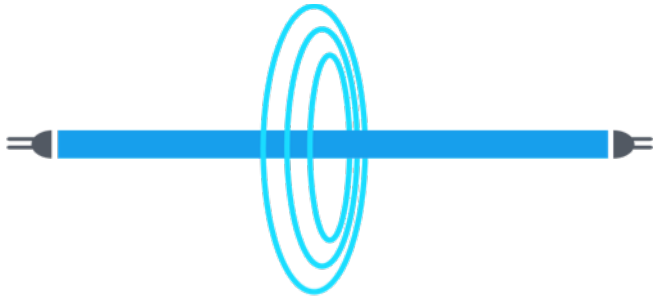
Installation

Slowly improving is not the answer…

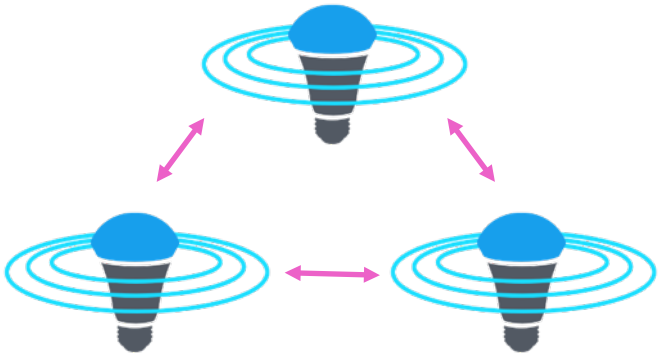


Speed things up! *Responsive Lighting*

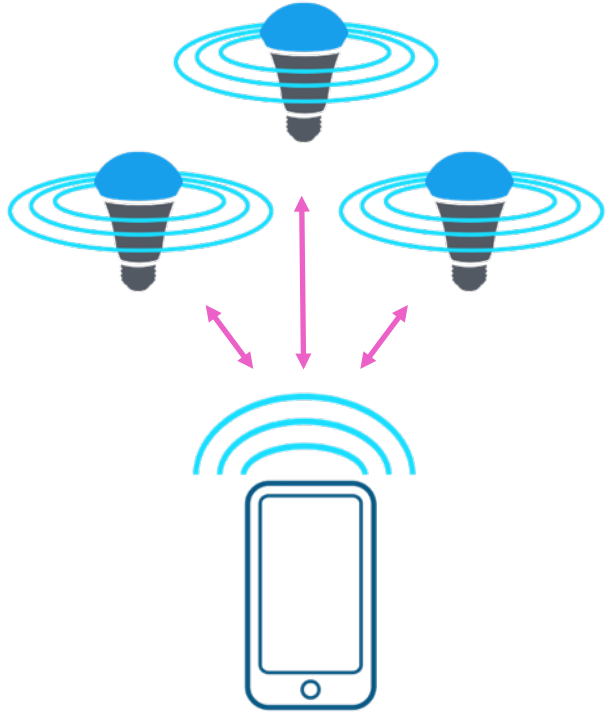
Sensors Embedded in lamps



Wireless Controls and Mesh Networks



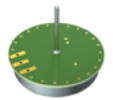
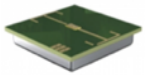
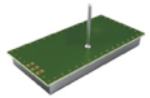
Simple Commissioning of Entire Zones



Manufacturers should have simple ways to embed sensors

Control Modules

Sensor Packages

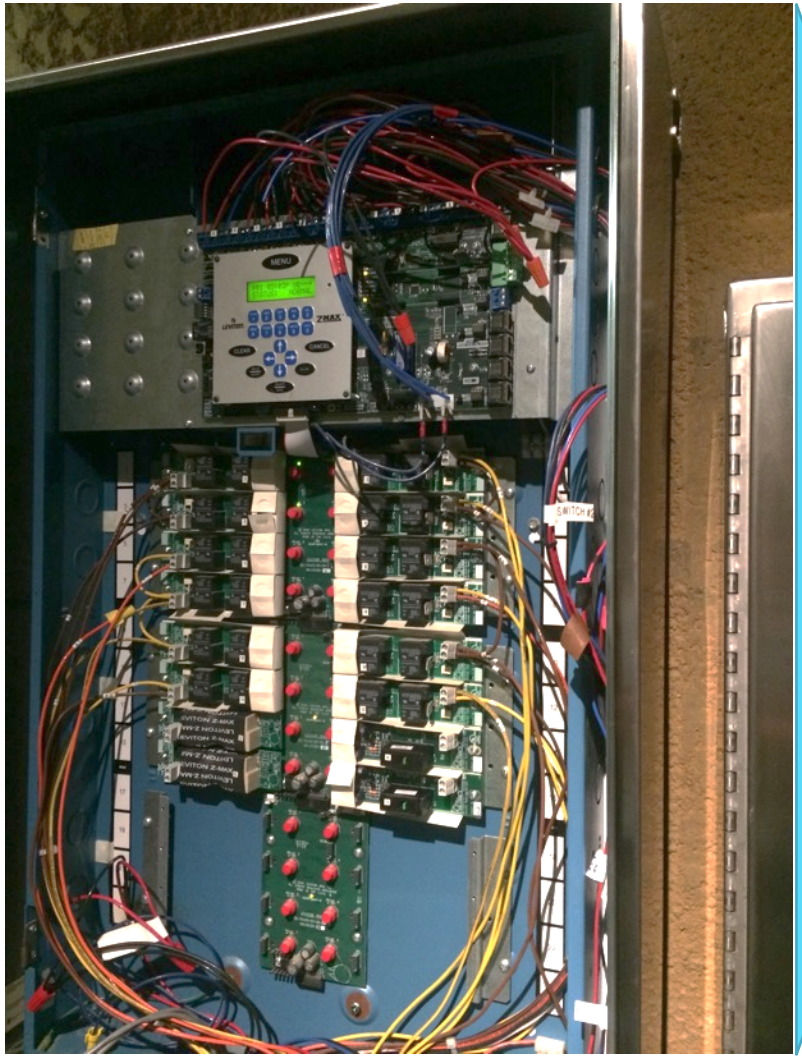
Directional Linear

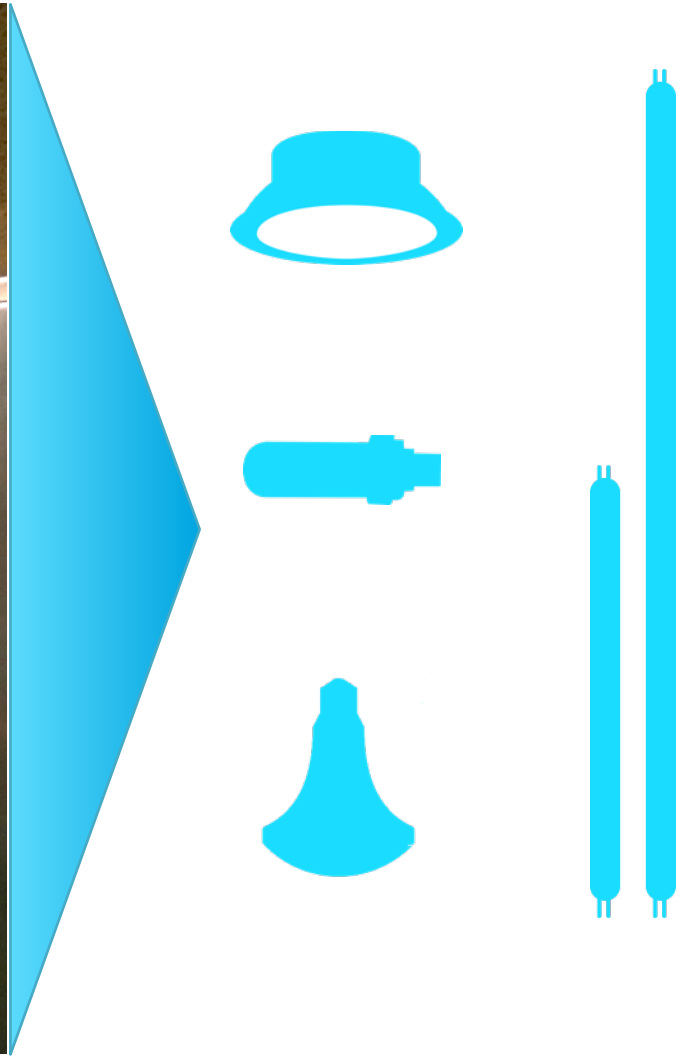
A19 Can Fixture Troffer Globe PL

MR16 Fixtures PAR38 4’ & 2’ Tubes

Most common formats

Simple Installation: No Professionals Needed

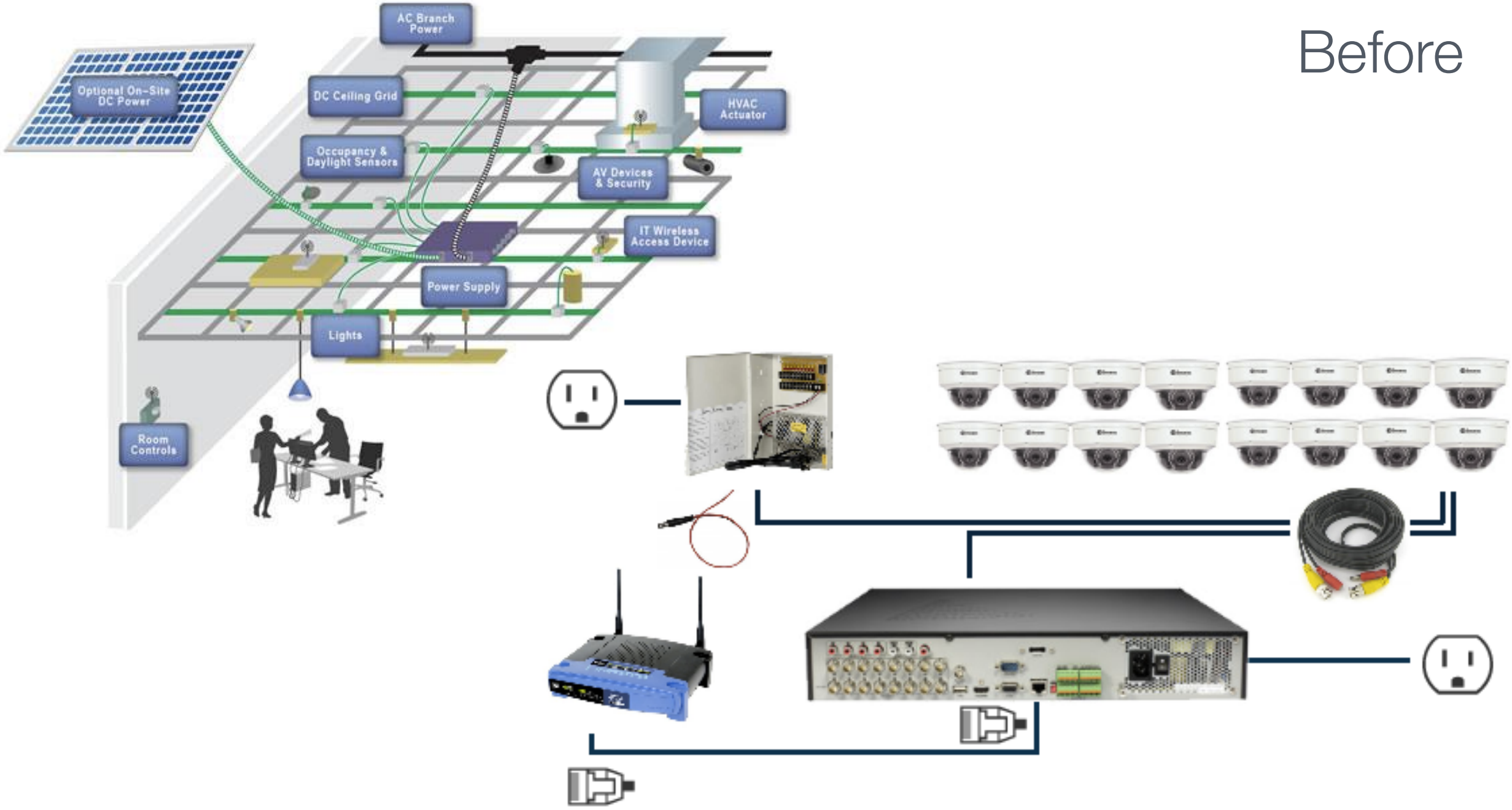




- Anyone can install
- Reduce upfront costs
- Solution for existing buildings

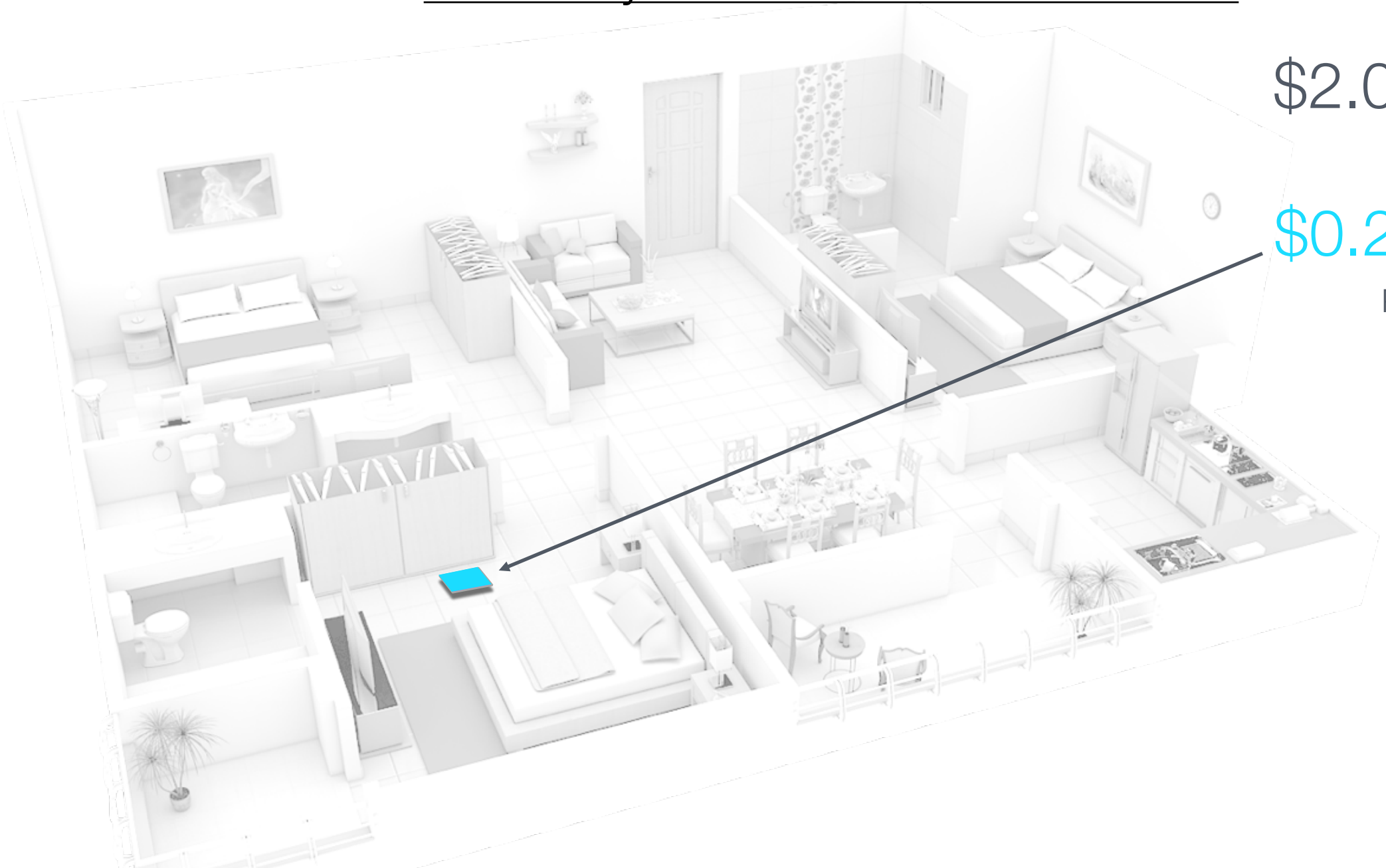
LTE

Before


AC Branch Power
Optional On-Site DC Power
DC Ceiling Grid
HVAC Actuator
Occupancy & Daylight Sensors
AV Devices & Security
IT Wireless Access Device
Power Supply
Lights
Room Controls

After

Massively reduced installation costs



Before

$2.00-$5.00

After

$0.20-$0.50

Per Square Foot

#1 – Leverage Existing Infrastructure!

●●●●○ Verizon 12:24 PM 82%

Add Lights: Attic Skip

1. Screw in the lights, leave them OFF
2. Press Start
3. Turn the lights ON
   Lights that are turned ON will be added to this room.
4. When number of Lights Found shows all new lights, click ‘Done’
   Total Lights shows all lights currently assigned to this room.

Start

●●●○○ Verizon 12:24 PM 82%

Add Lights: Attic

6
Lights Found

Total Lights
6

Thanks

Please give us a moment to update your lights.

●●●●○ Verizon 12:25 PM 82%

Back Attic Lights ⓘ

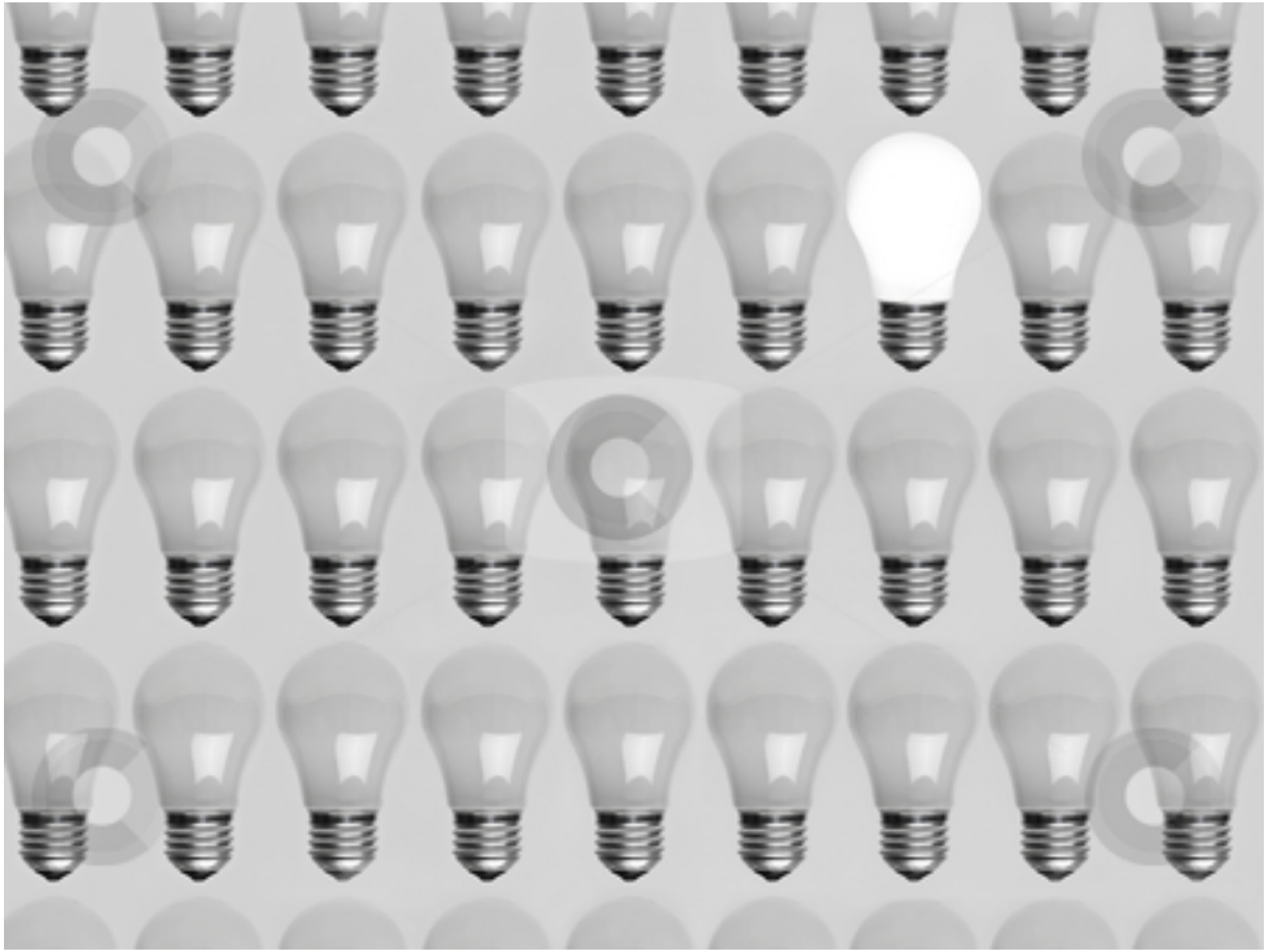
Tap a light below to watch it flash. Press and hold to remove it or change its room.

- Connected lights in Attic
- Selected and flashing light in Attic
- Disconnected light (This light may be switched off, removed from the room, or too far from the hub)
- Selected and flashing light in Attic

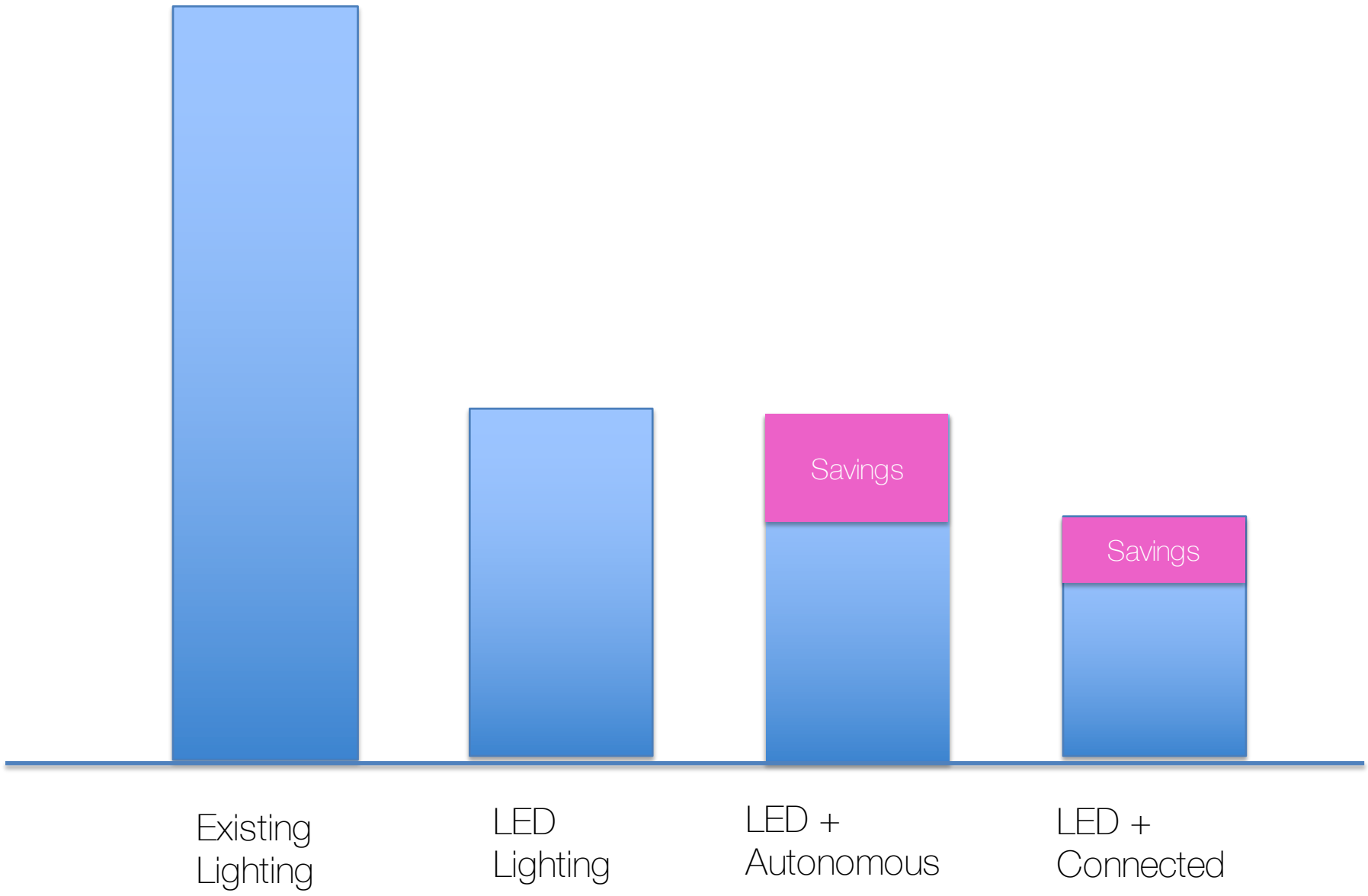
Utilize technologies to assist with commissioning

- Existing infrastructure
- Signal strength
- Visible Light Communication (VLC)
- Ultra-sonic
- Machine learning

Easily find and replace individual units

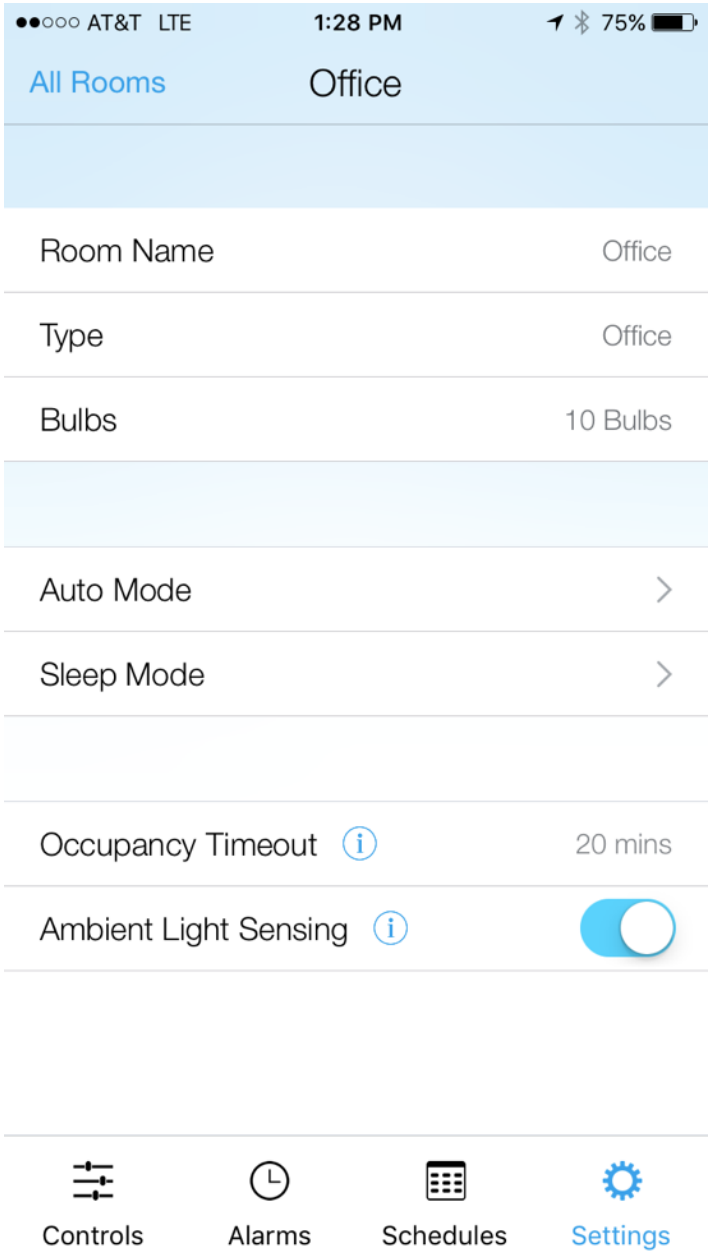


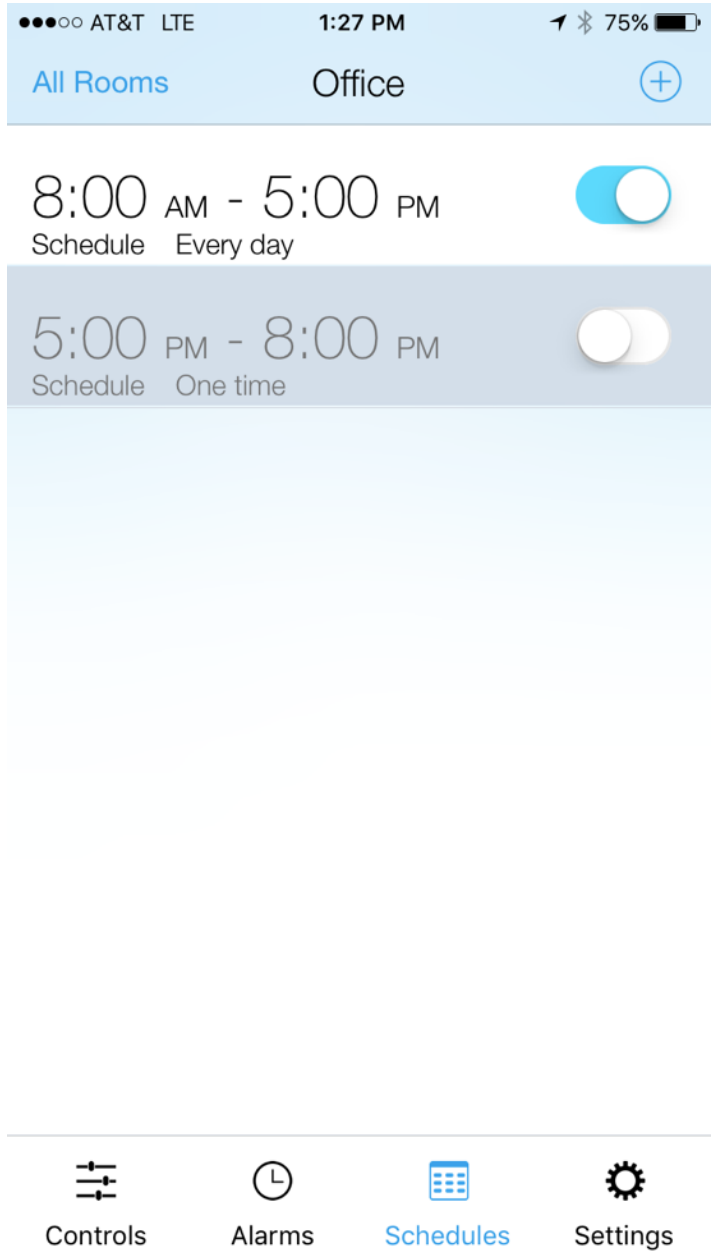
Save energy immediately!

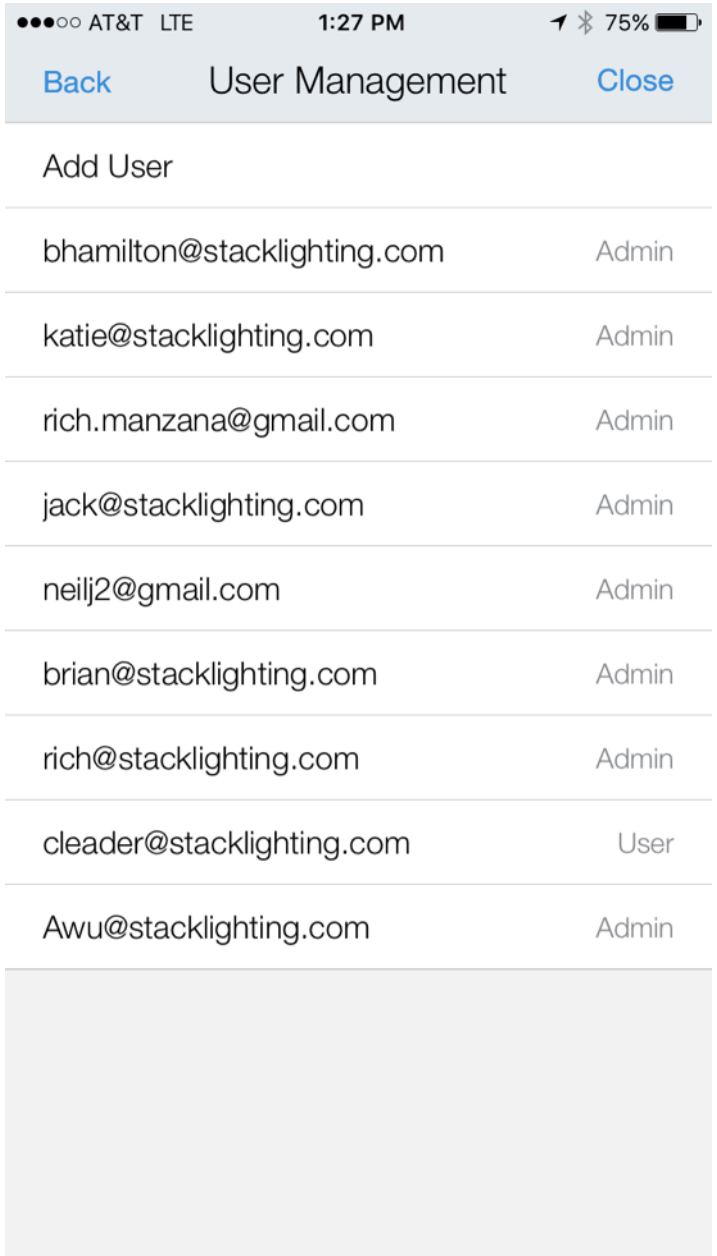


Allow multiple methods to control

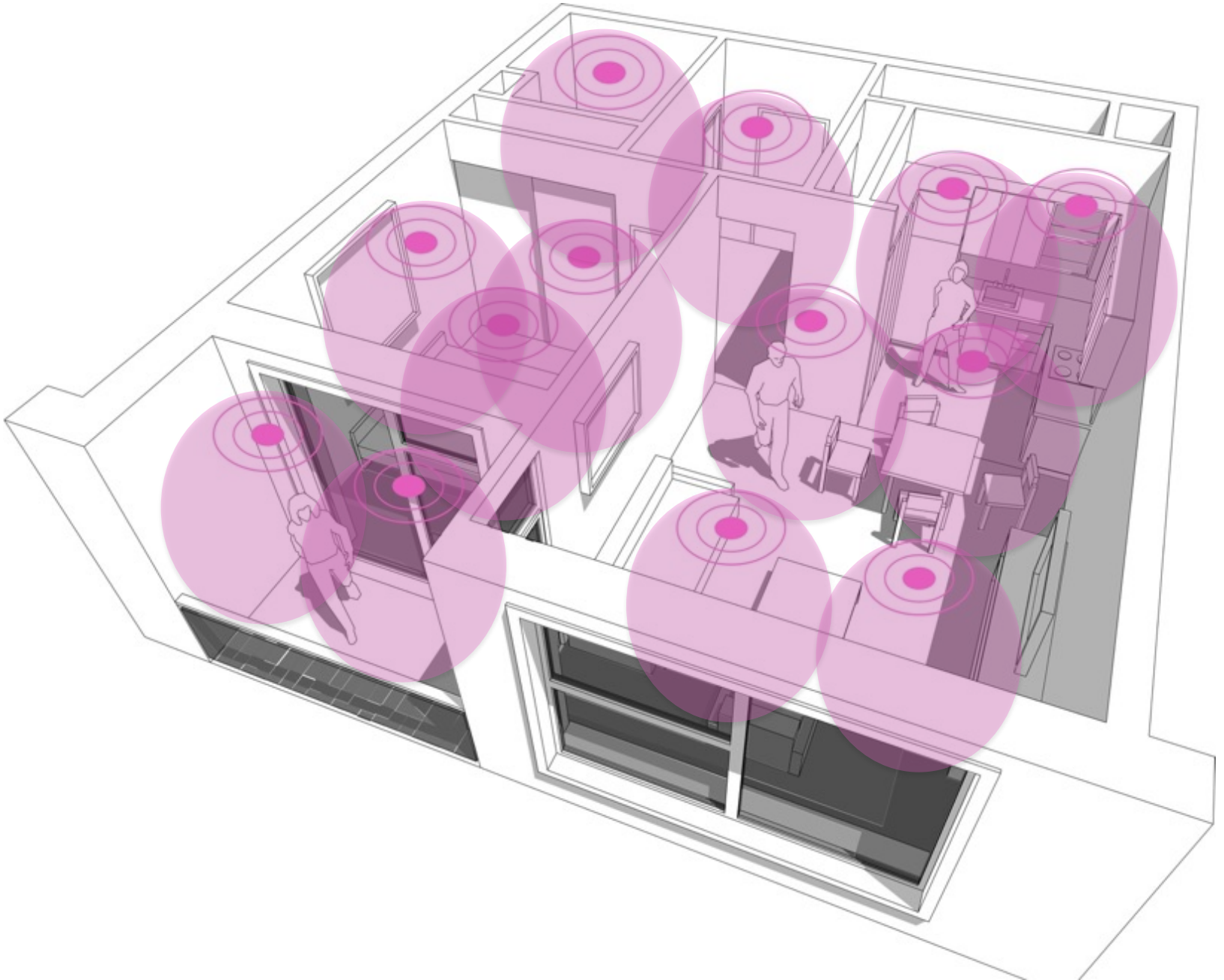
Settings, schedules, permissions







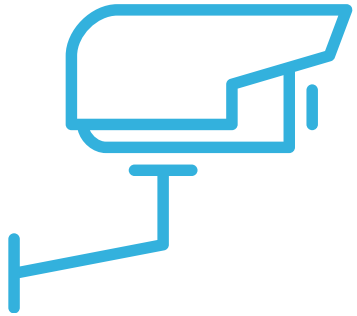
Robust sensor platforms that integrate with other systems



Open up solutions past controls

Building Controls

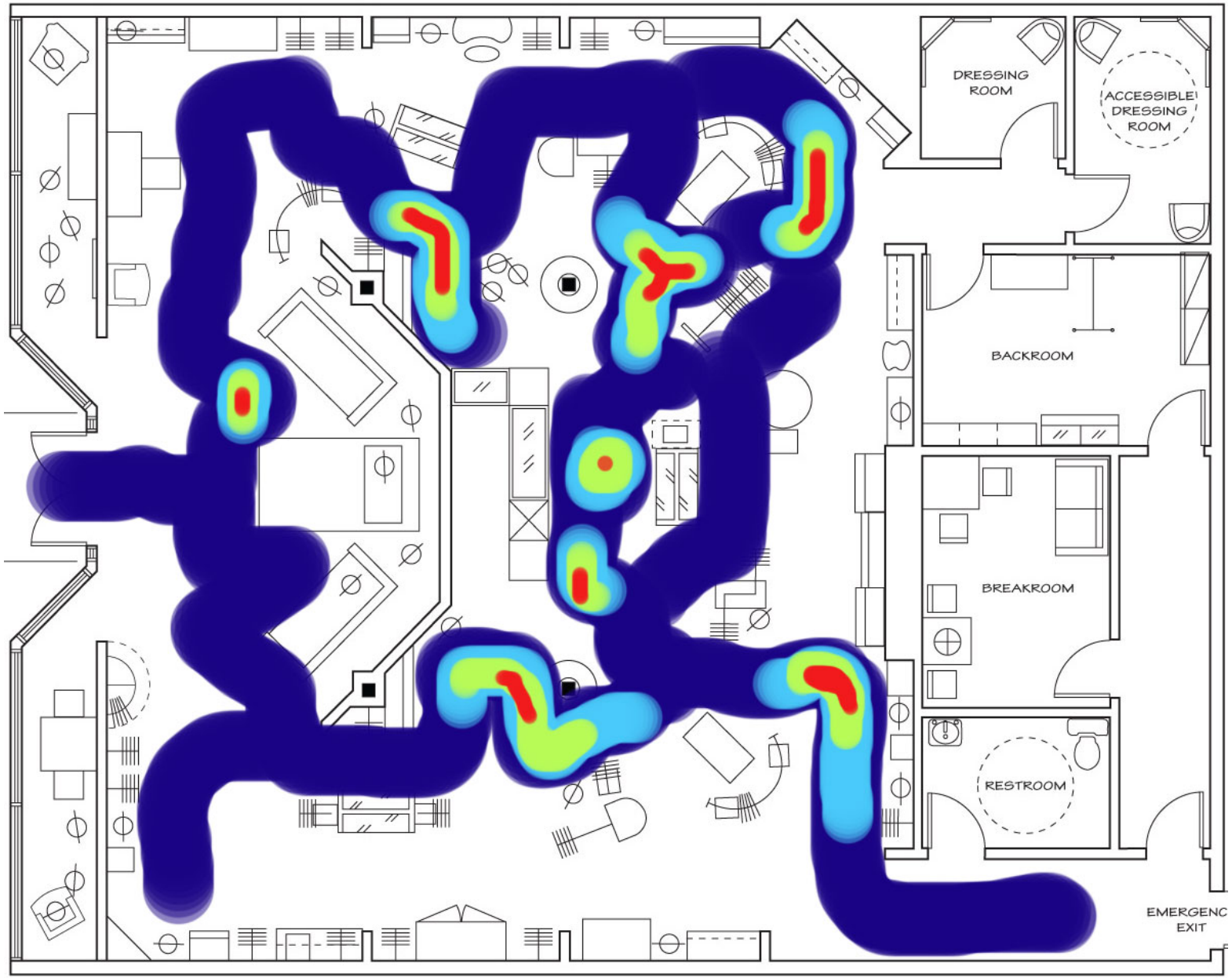
Health Care



Security

Asset Tracking

Make it easy to generate useful information!



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