**Triggers** :

* Microphones:
  + Switch off air conditioned if detects total silence
* Light sensors:
  + Pull up/down the curtains if detects sun light
* Something to do something:
  + In my case…
    - every morning (Monday to Friday) I do the same:
      * toasts, cold meats, coffee, kiwi) 🡪 if its Monday between 7 and 8 and I switch on the toaster 🡪 then, make me a coffee automatically. (saving 2 minutes)
      * wash dishes and take a shower 🡪 if its Monday between 7 and 8 and I switch on the kitchen water 🡪 switch on the bathroom heater and the shower (saving 3 minutes)
* Energy sensors:
  + Your heater takes a break while your dryer runs

**PROS**

**Saving time**: 5 minutes a day \* 5 working days \* 48 working weeks = 1200 minutes a year\*

**Easier life** for old or disable people.

**Security alerts** for: intrusion, but also fire or carbon monoxide.

Sensor alerts for: fridge door opened, unusual time of using (oven)

**Save money** on energy and HVAC systems

**Sustainability**

**CONS**

**Security gap**: Hackers may access to your system and spy you or unlock your doors to acces into your home.

The **starting cost** of buying and installing them can be discouraging.

There may be a **learning curve** which often serves as a barrier to, specially, older users.

Convenience shackled to **a reliable Wi-Fi** signal.

**‘Abandonware’** devices.

**LINKS**:

Advantages and Disadvantages of Smart Home

<https://www.criticthoughts.com/guides/advantages-and-disadvantages-of-smart-home/>

<https://www.quora.com/What-are-the-advantages-as-well-as-disadvantages-of-home-automation>

<https://www.iotevolutionworld.com/smart-home/articles/438066-true-benefits-the-smart-home.htm>

80% percent of buyers are more likely to buy a home if it comes with automated technology. (smart homes sell faster and for more money)

<https://trsmag.com/how-to-sell-smart-homes-better-faster/>

**ATTRIBUTE INFORMATION:**

1.date: Date in format dd/mm/yyyy 🡪 OK

2.time: time in format hh:mm:ss 🡪 OK

3.global\_active\_power: household global minute-averaged active power (in kilowatt) 🡪 /60

4.global\_reactive\_power: household global minute-averaged reactive power (in kilowatt) 🡪 /60

5.voltage: minute-averaged voltage (in volt) 🡪 OK

6.global\_intensity: household global minute-averaged current intensity (in ampere) 🡪 OK

7.sub\_metering\_1: energy sub-metering No. 1 (in watt-hour of active energy). It corresponds to the kitchen, containing mainly a dishwasher, an oven and a microwave (hot plates are not electric but gas powered). 🡪 /1000 🡪 no fridge in the kitchen?

8.sub\_metering\_2: energy sub-metering No. 2 (in watt-hour of active energy). It corresponds to the laundry room, containing a washing-machine, a tumble-drier, a refrigerator and a light. 🡪 /1000 🡪 fridge in the laundry room?

9.sub\_metering\_3: energy sub-metering No. 3 (in watt-hour of active energy). It corresponds to an electric water-heater and an air-conditioner. 🡪 /1000