



TÉCNICO LISBOA

**EXPERIMENTAL METHODS IN ENERGY
AND ENVIRONMENT**

bAWARE — enhancing today's lifestyle

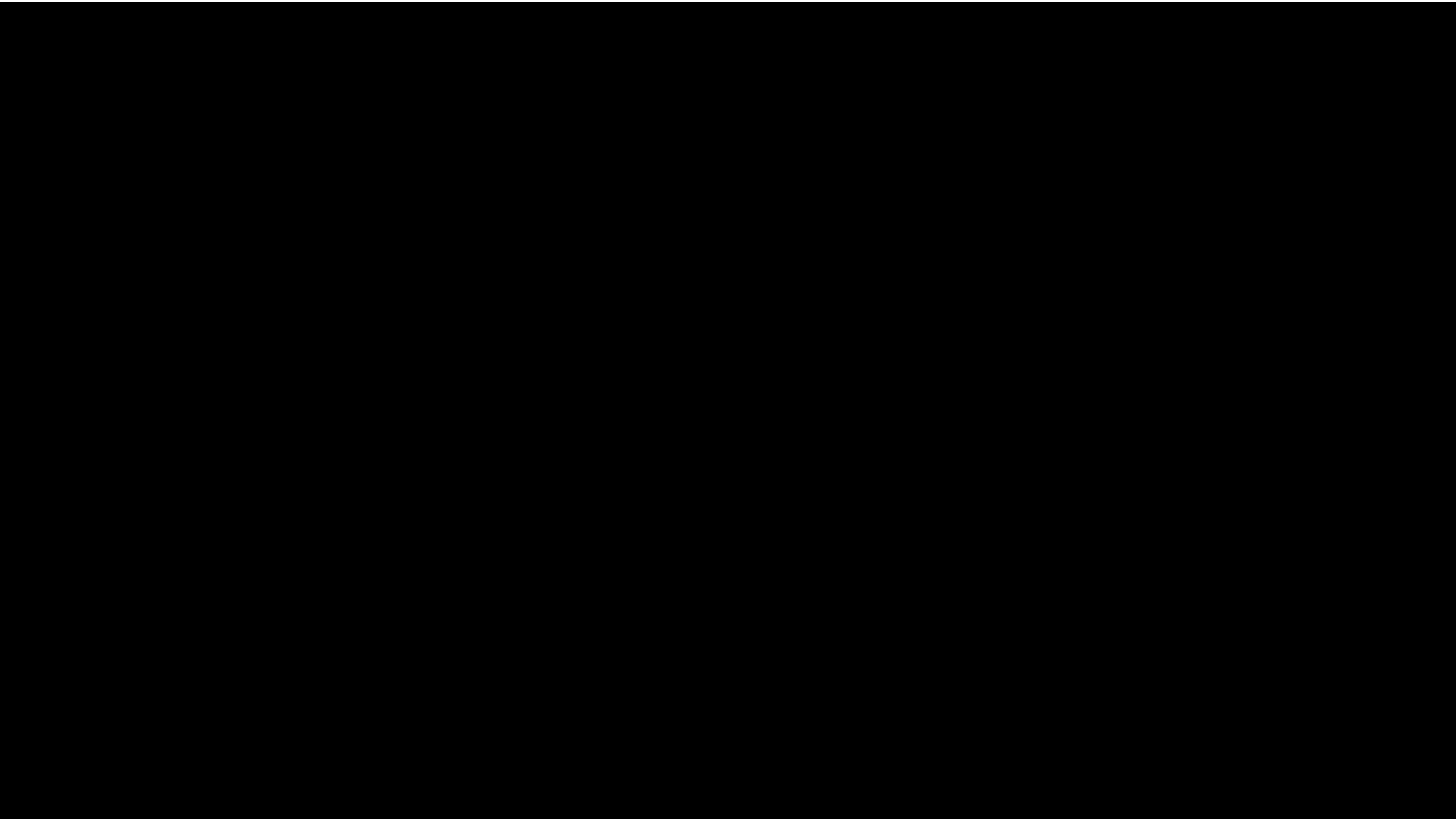
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2013/12/19



EMEE — bAWARE — GROUP 1
ENHANCING TODAY'S LIFESTYLE






What do you know about your street?



What do you know about your street?

What information to provide?

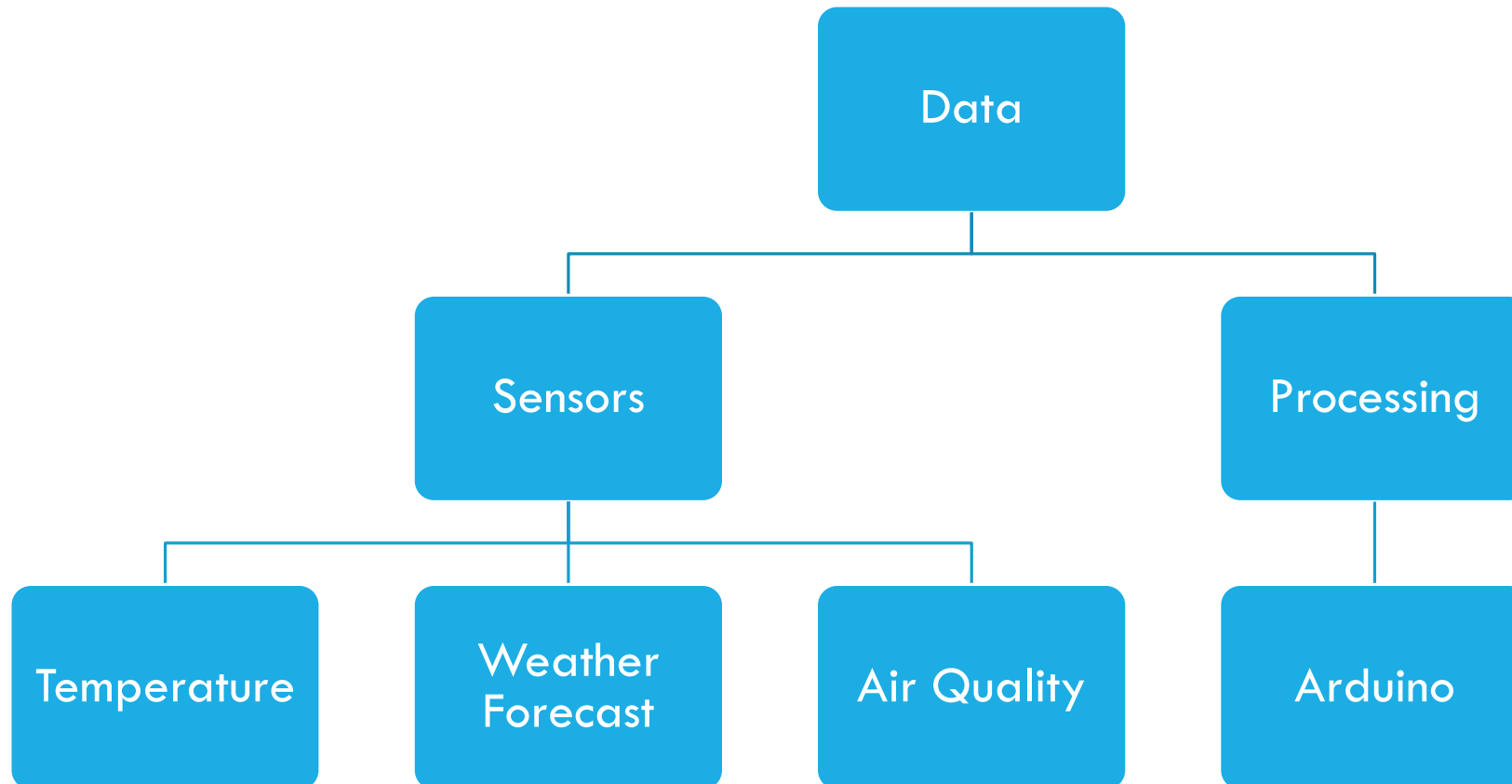
- Temperature 
- Humidity
- Air Quality 
- Noise
- Weather Forecast 
- Wind – speed and direction
- Everything we can “sense”

How can you use the information?

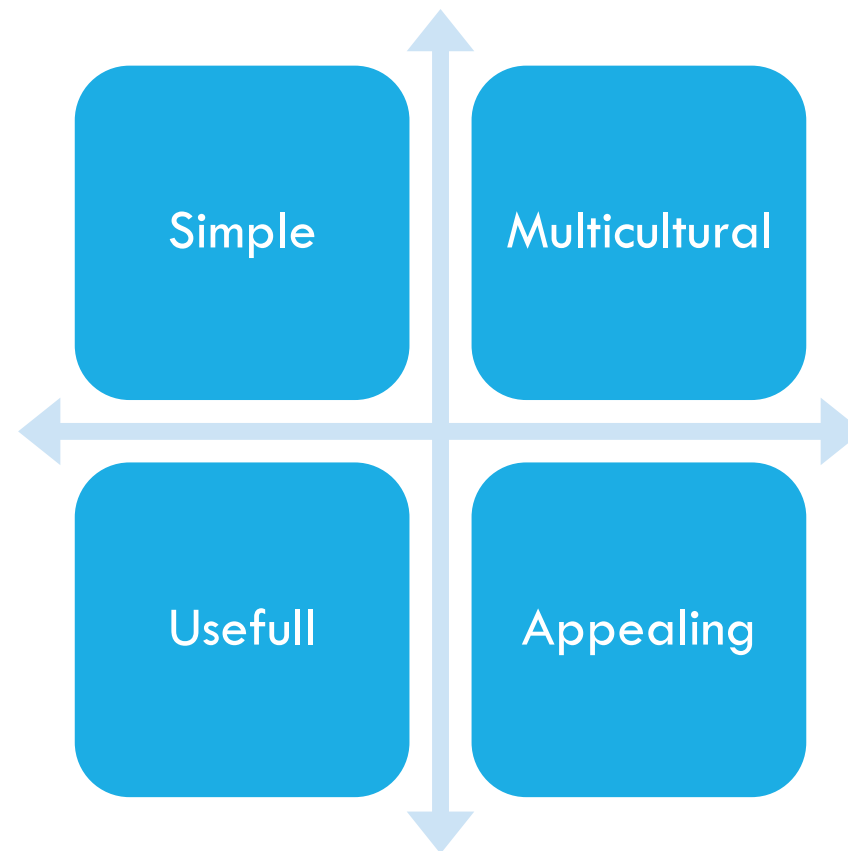
Purpose

- Sensitize people
- Improve the environment
- Make your city smarter – integrated grid
- Real estate characterization
- Communication tool – first approach

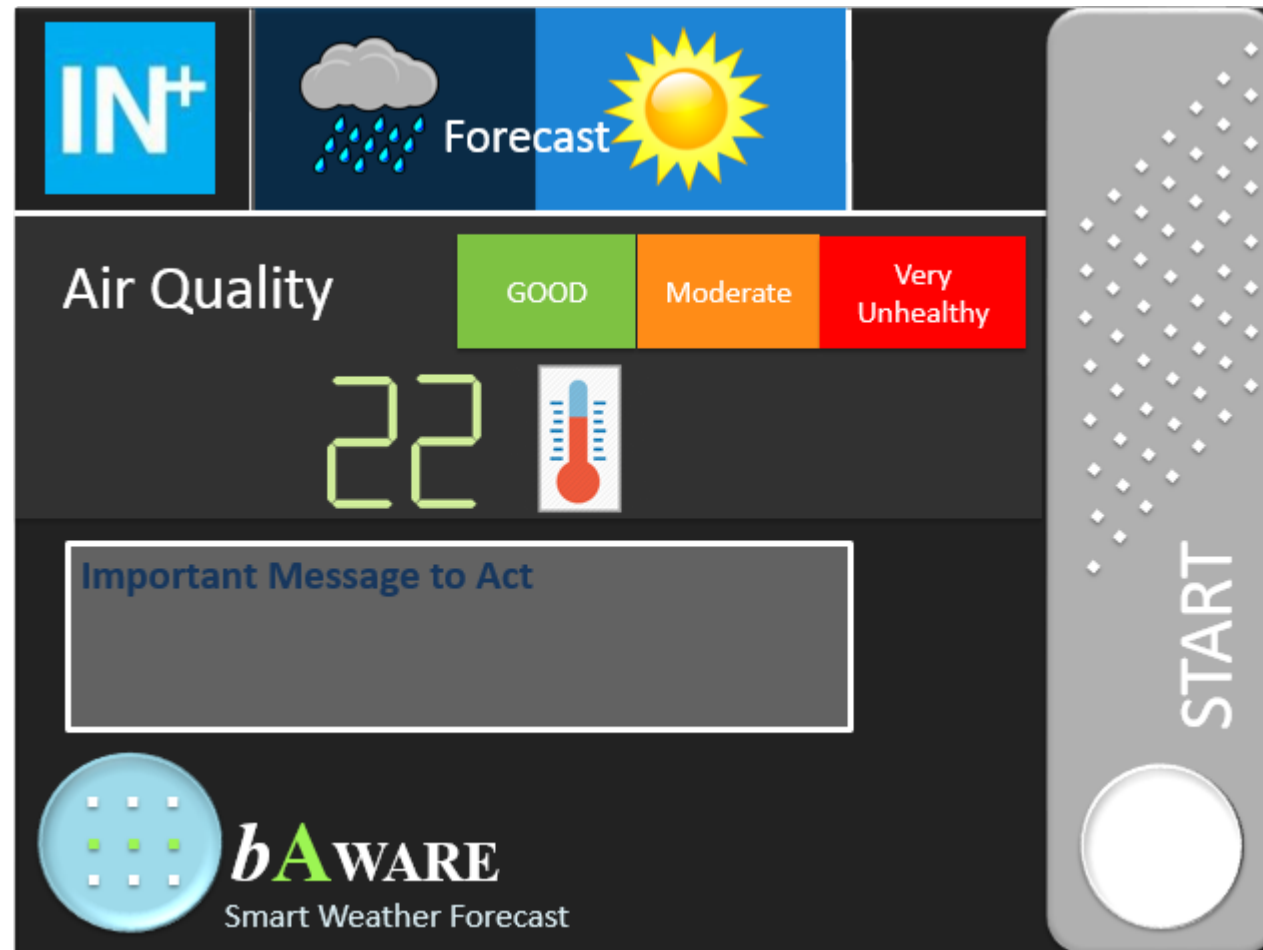
How to get the data?



Communication

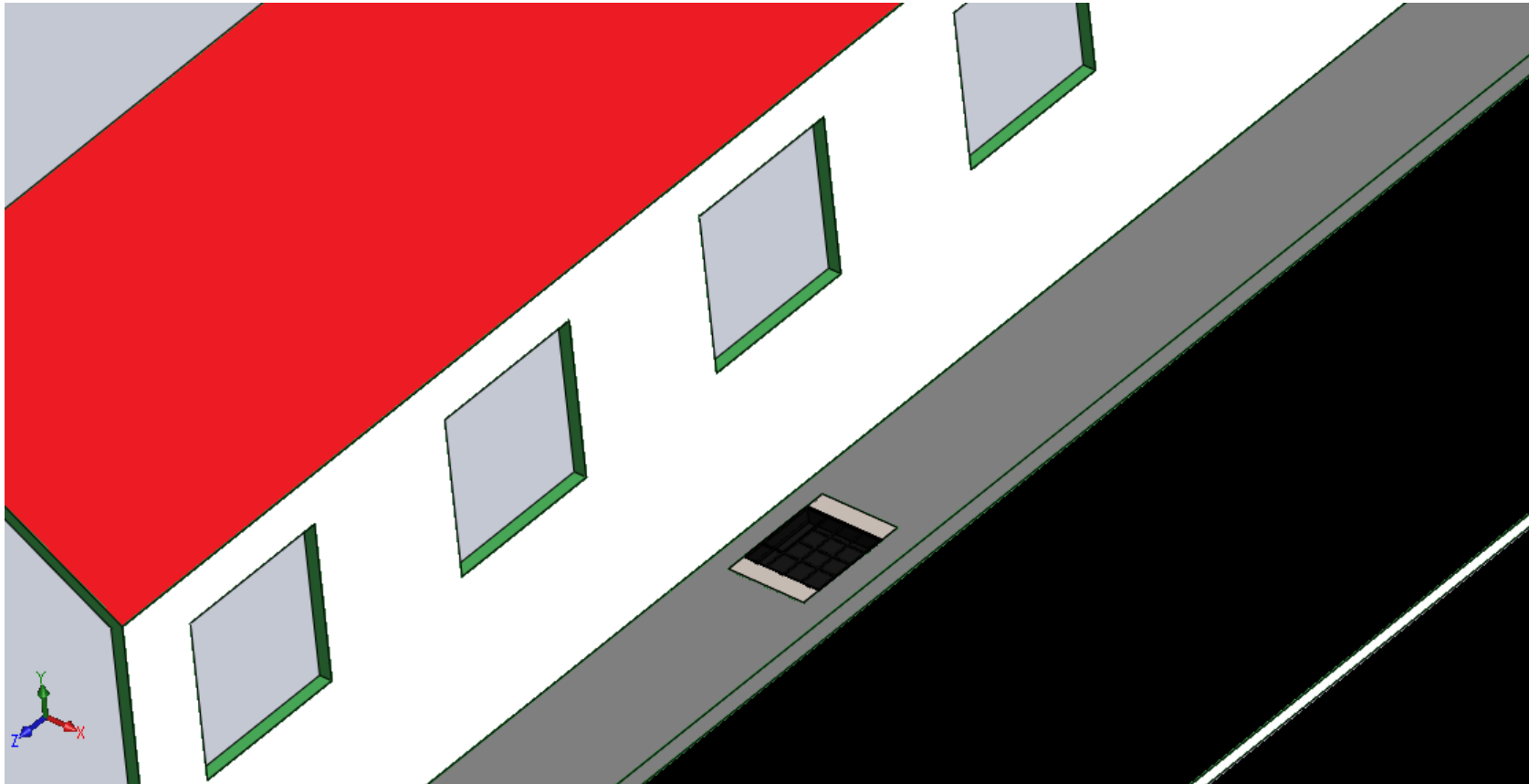


Communication

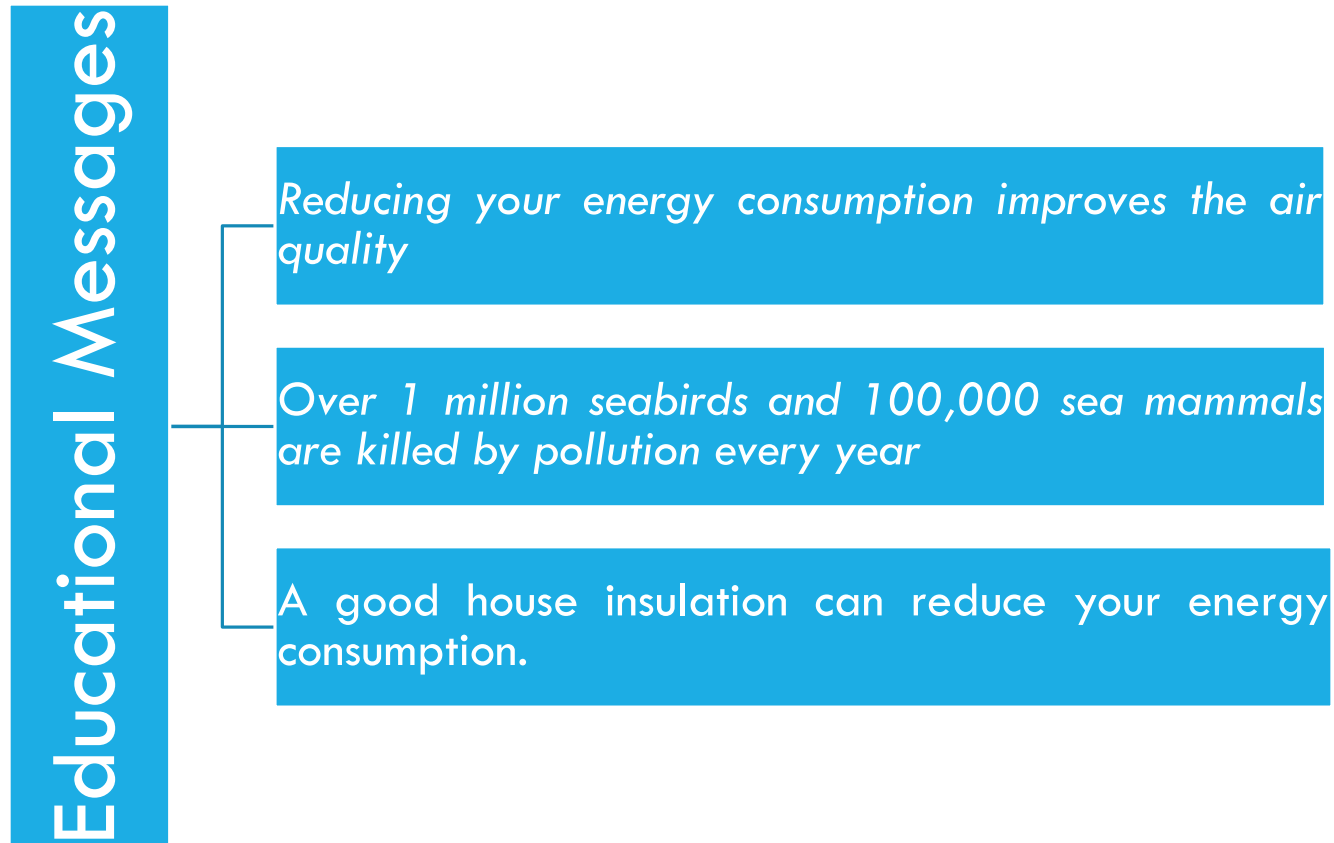


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Communication



Communication



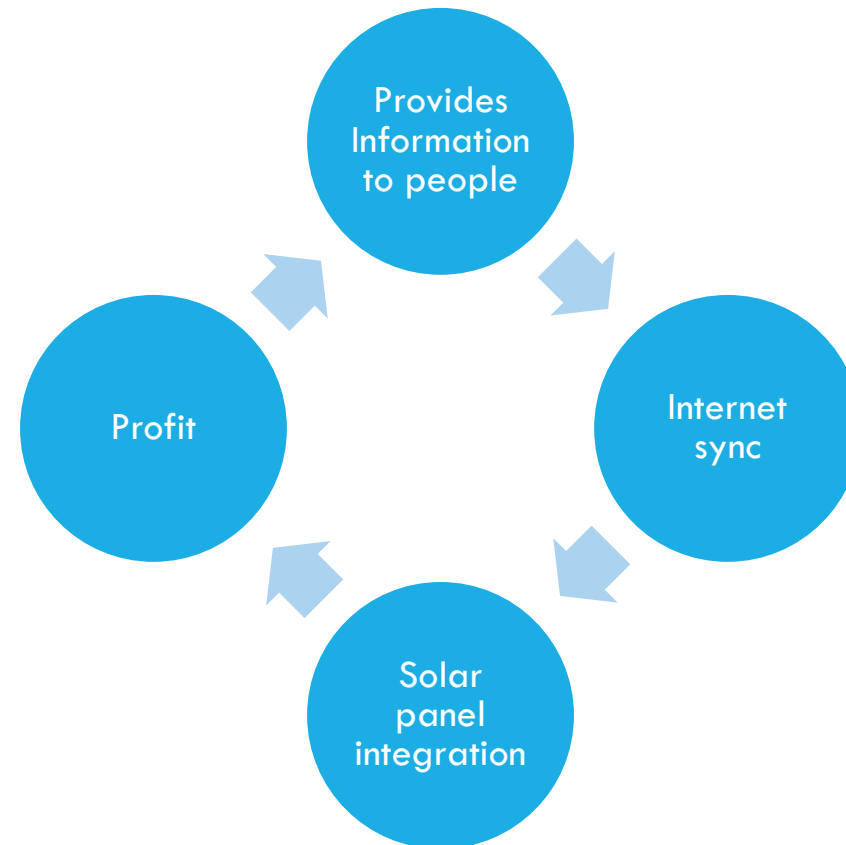
Communication

Advices

AQ:Unhealthy T:Low - *Never thought about changing your car filter?*

AQ:Moderated T:Medium - *Today is a nice day to take a bike ride, leave your car at home and help make our air cleaner.*

The Product



Cost - prototype

Equipment	Cost
Arduino Mega 2560	39,00€
Pressure Sensor	10,95€
Gas Sensor	4,95€
Piezoelectric Sensor	0,95€
LCD Module 16x2	5,95€
2 digit LED display	1,95€
Breadboard	2,95€
Wiring & LEDs	10,00€
Batteries	3,95€
Total	~80€

Production Cost

300€

Business Plan

Financing

- Use of dynamic publicity
- Sponsorship from NGOs

Costs

- Maintenance
- Variable

Future developments

Two independent systems:
sensors + interface

Custom based solution for
each street

Interconnection of
multiple systems - grid

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