

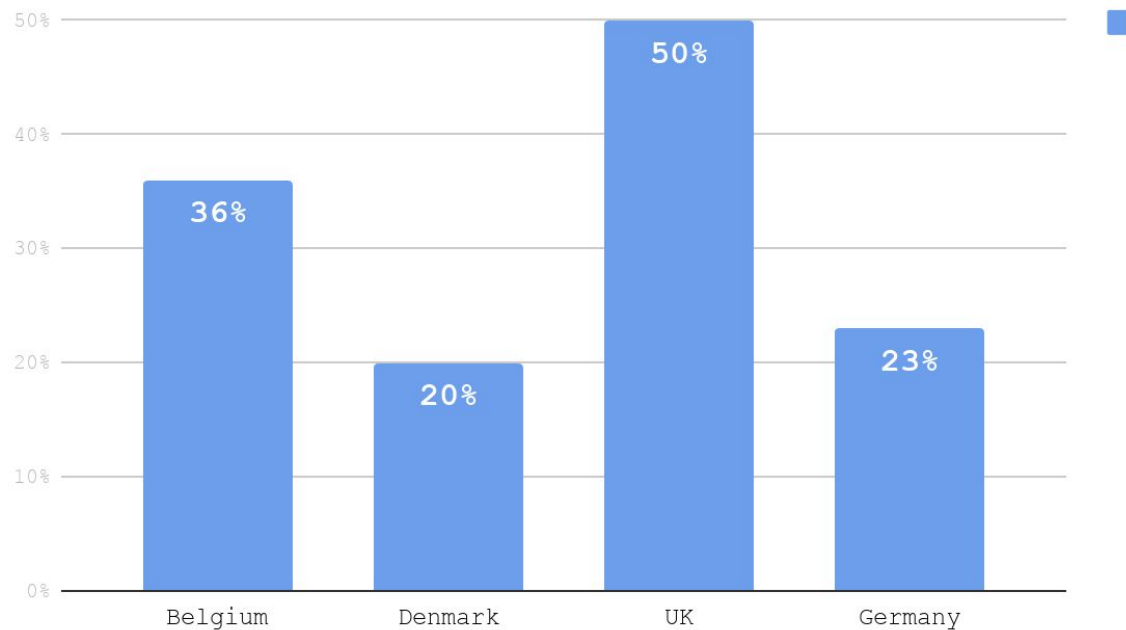
# Eye-Truck

*by Ava*



# State of the art

Cyclist traffic accident caused by Truck



# Efforts from some car manufacturers

360° panoramic image system

Ford: Blind spot information system

Volvo FH series trucks: Sensors on the right side

Expensive

Installed in specific series of cars

Not flexible



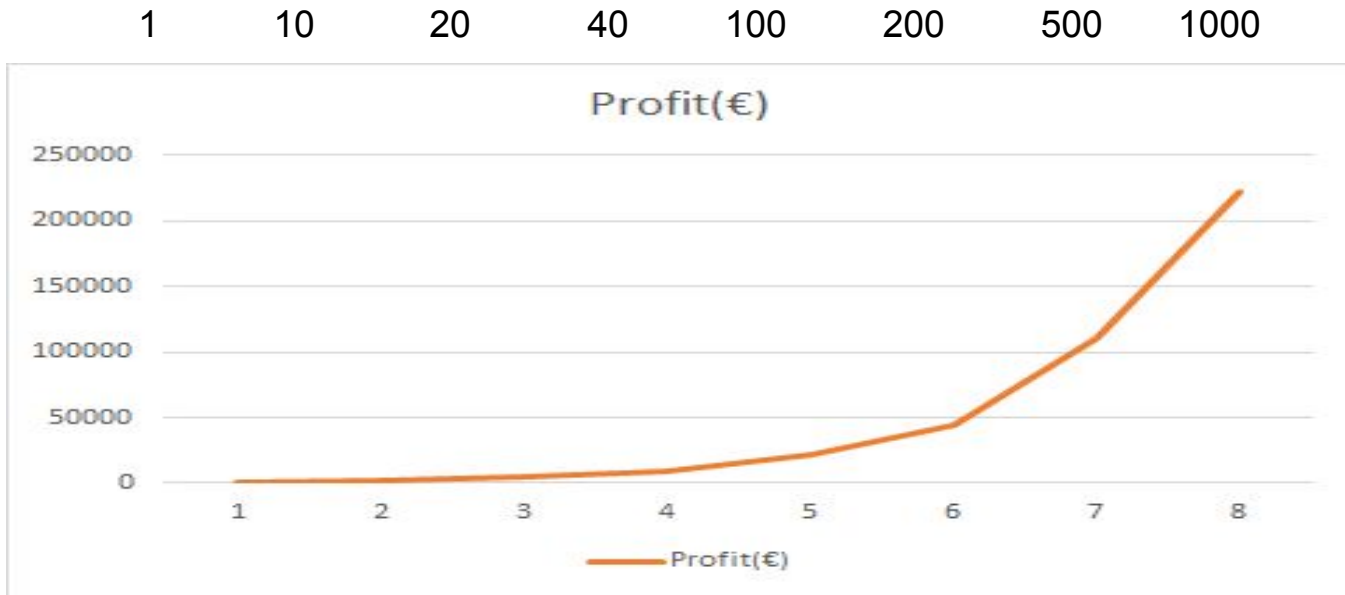
# EYE-TRUCK

# Business Plan

	Sensor box	Light box
Budget	26 €	24 €
Price	50 €	40 €
Estimated annual sales	9600	2400
Estimated annual income	268800 €	

# Forecast

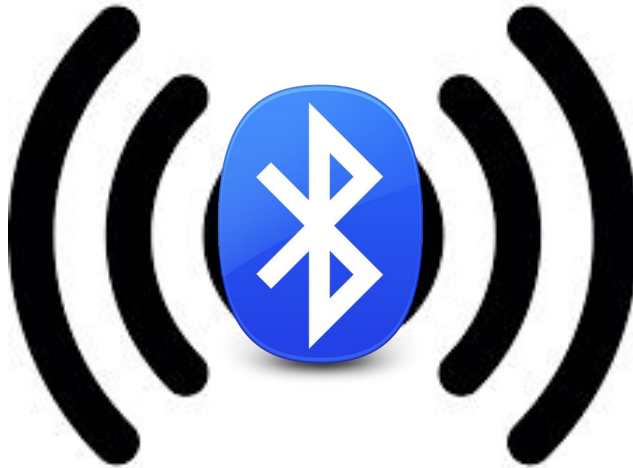
Sell  
Forecast  
(Unit)



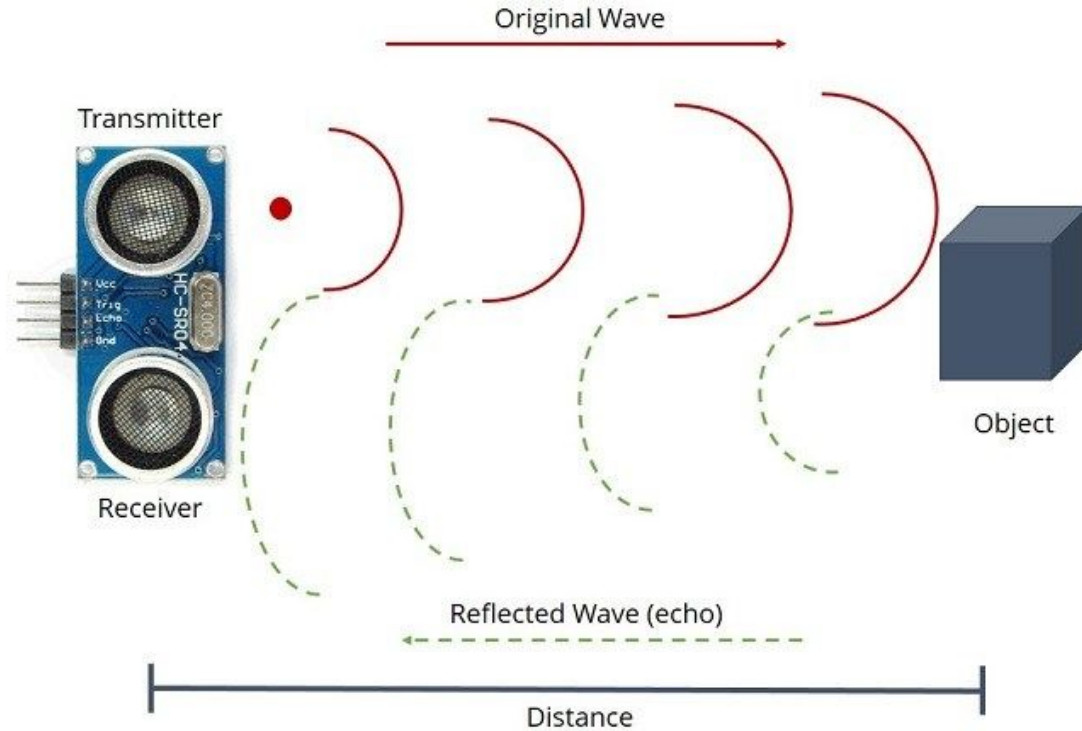
# Product Description



# Product Description

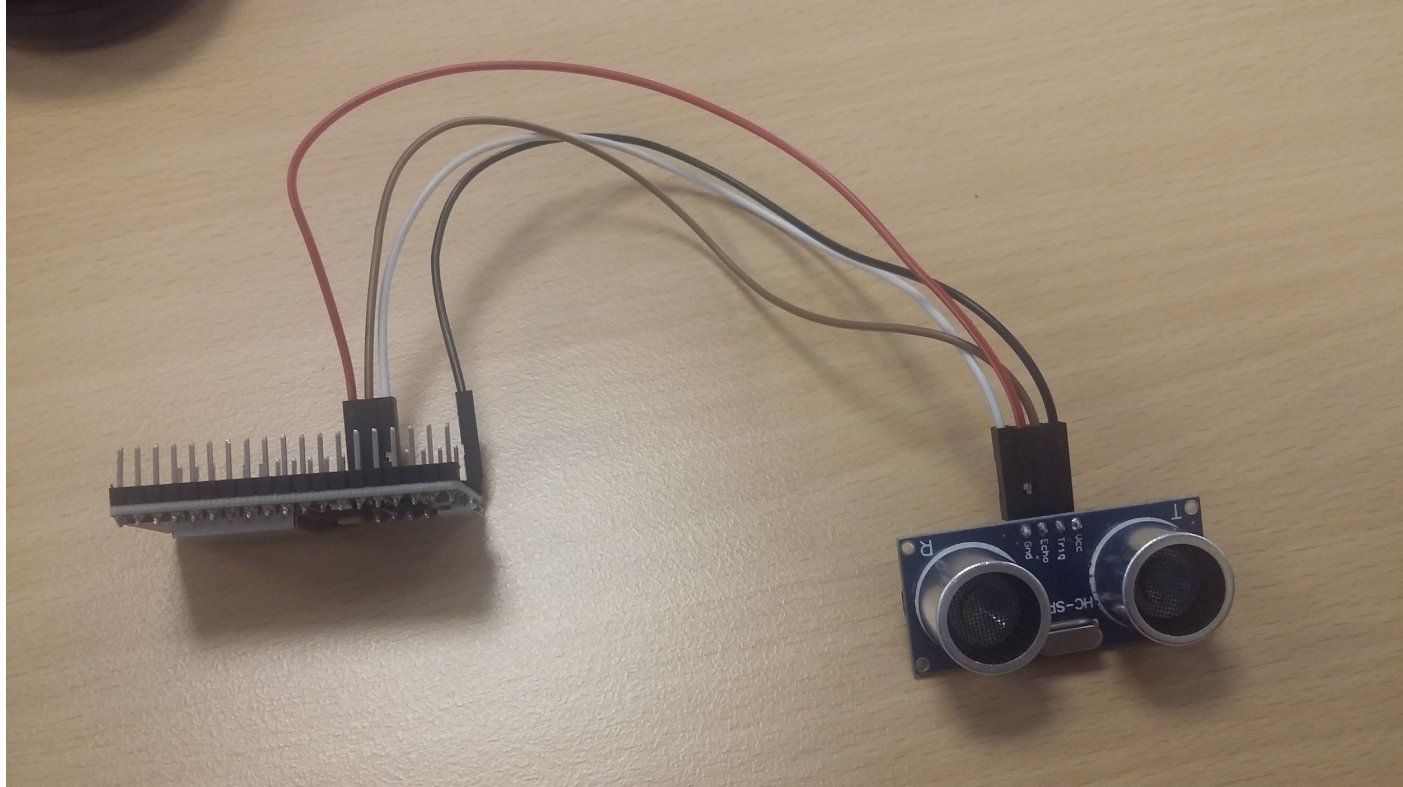


# Ultrasonic Sensor HC-SR04

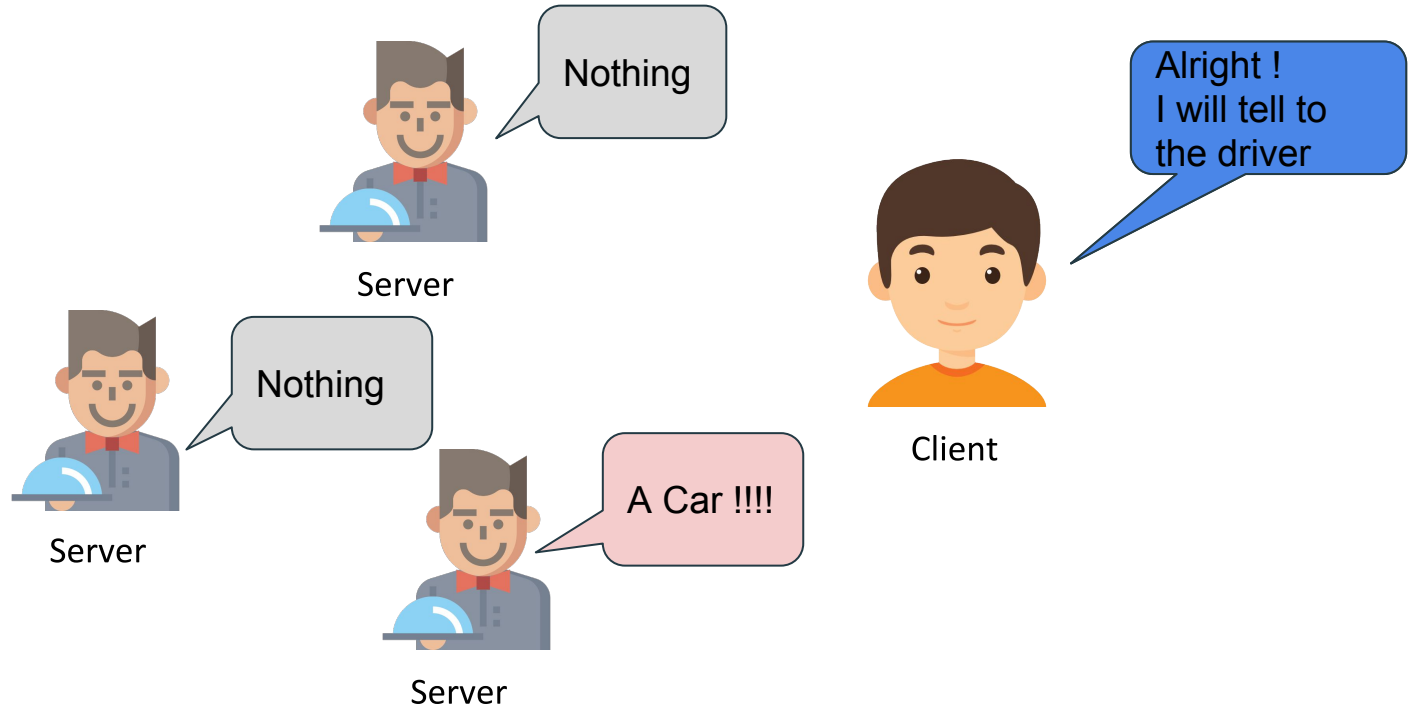




# Ultrasonic Sensor HC-SR04



# BLE ( Bluetooth Low Energy) Architecture



# BLE Connection from the sensor



Server that send data : Y/N  
Compute the distance by itself

[https://github.com/siiscil/iot-projects/blob/ba8318941470692b28aea04f5361a19d64830157/ava/radar\\_BLE\\_final/radar\\_BLE\\_final.ino#L88](https://github.com/siiscil/iot-projects/blob/ba8318941470692b28aea04f5361a19d64830157/ava/radar_BLE_final/radar_BLE_final.ino#L88)

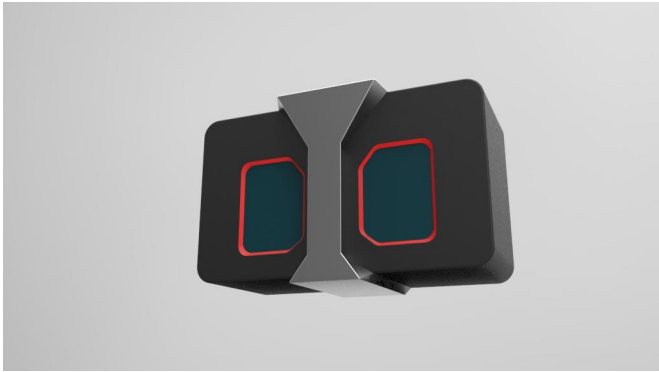
# BLE Connection from the LED



- Client that search for servers
- Switch on if receives the instruction from the sensor

[https://github.com/siiscil/iot-projects/blob/ba8318941470692b28aea04f5361a19d64830157/ava/BLE\\_client\\_LED\\_final/BLE\\_client\\_LED\\_final.ino#L159](https://github.com/siiscil/iot-projects/blob/ba8318941470692b28aea04f5361a19d64830157/ava/BLE_client_LED_final/BLE_client_LED_final.ino#L159)

# Box



# Test



Save life  
buy  
Eye-Truck