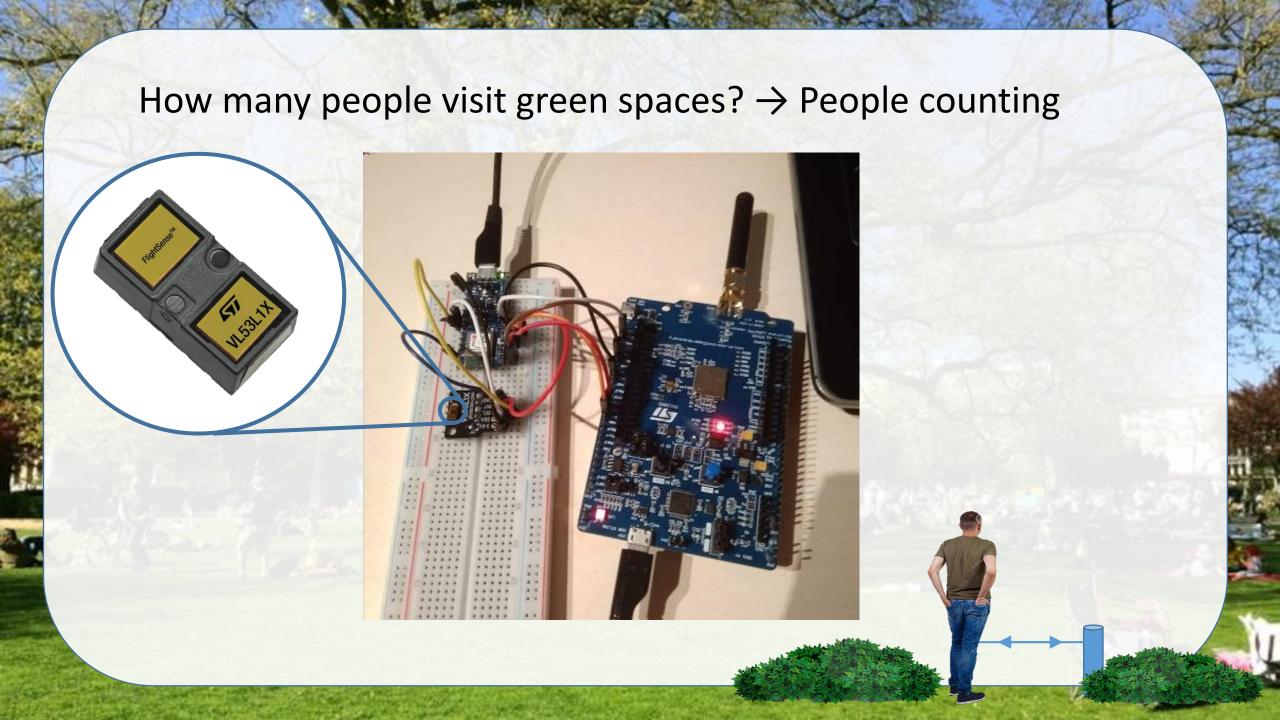
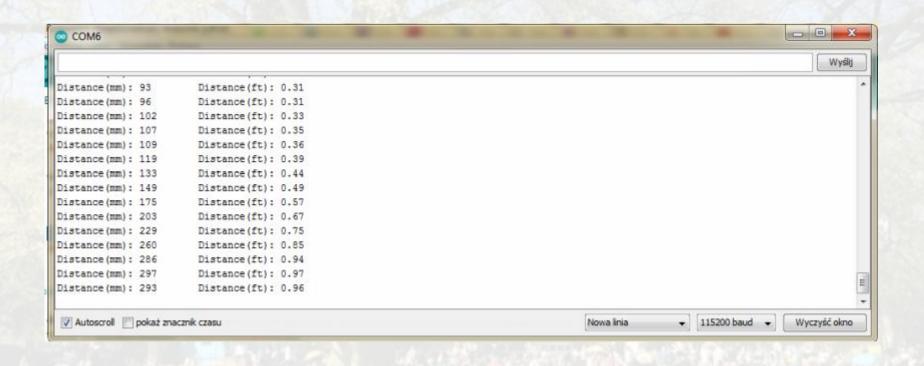




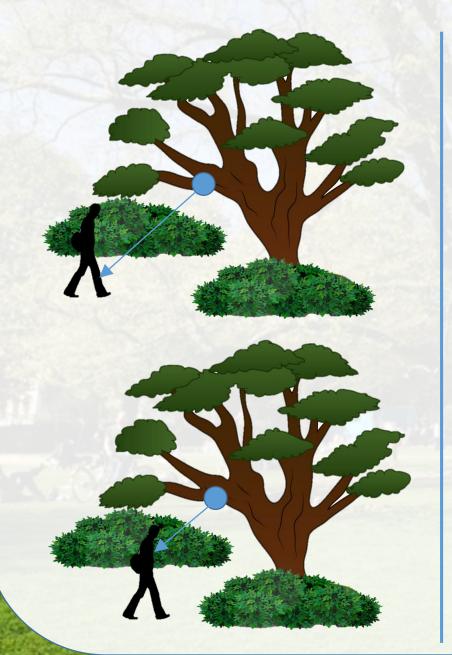
- 1) How many people visit green spaces?
- 2) Which available facilities people use?
- 3) Facilities maintenance
- 4) How weather affect our measurements?



### How many people visit green spaces? → People counting



### Determination of direction







## Mobile App



- Current green spaces occupation
- Most popular green spaces



# Which available facilities people use?

... or why they don't use them.



Dirty



In direct sun



Wrong direction





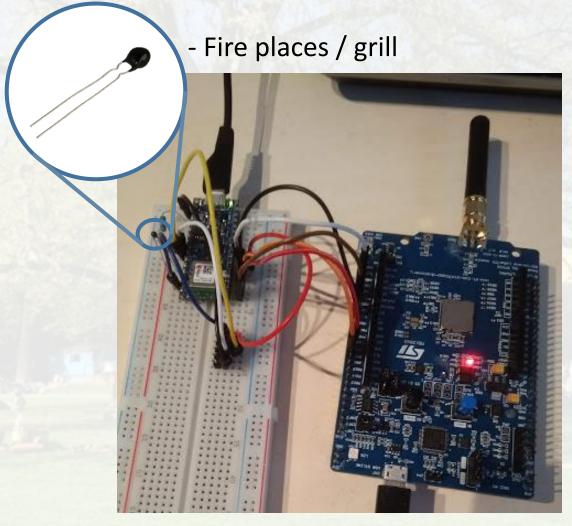
# Which avaliable facilities they use?

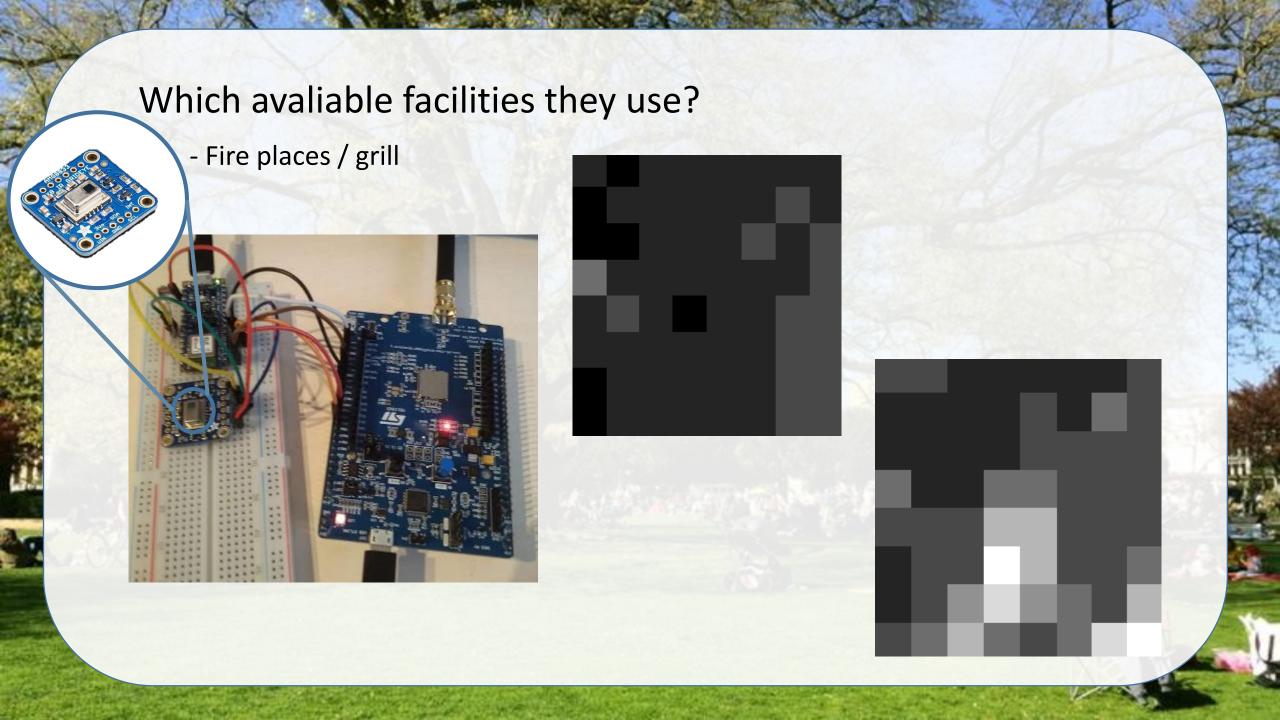
- Fire places / grill

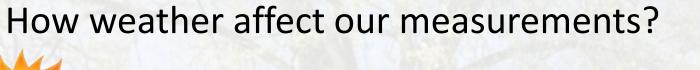




# Which avaliable facilities they use?



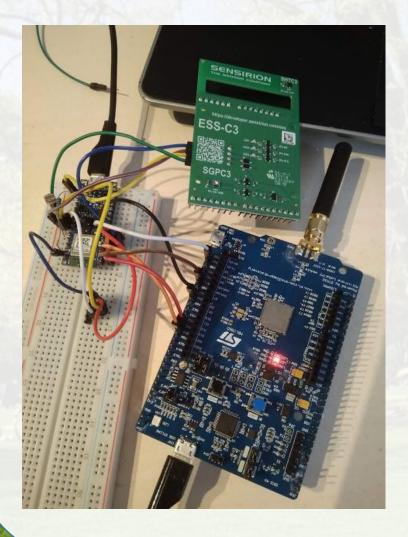




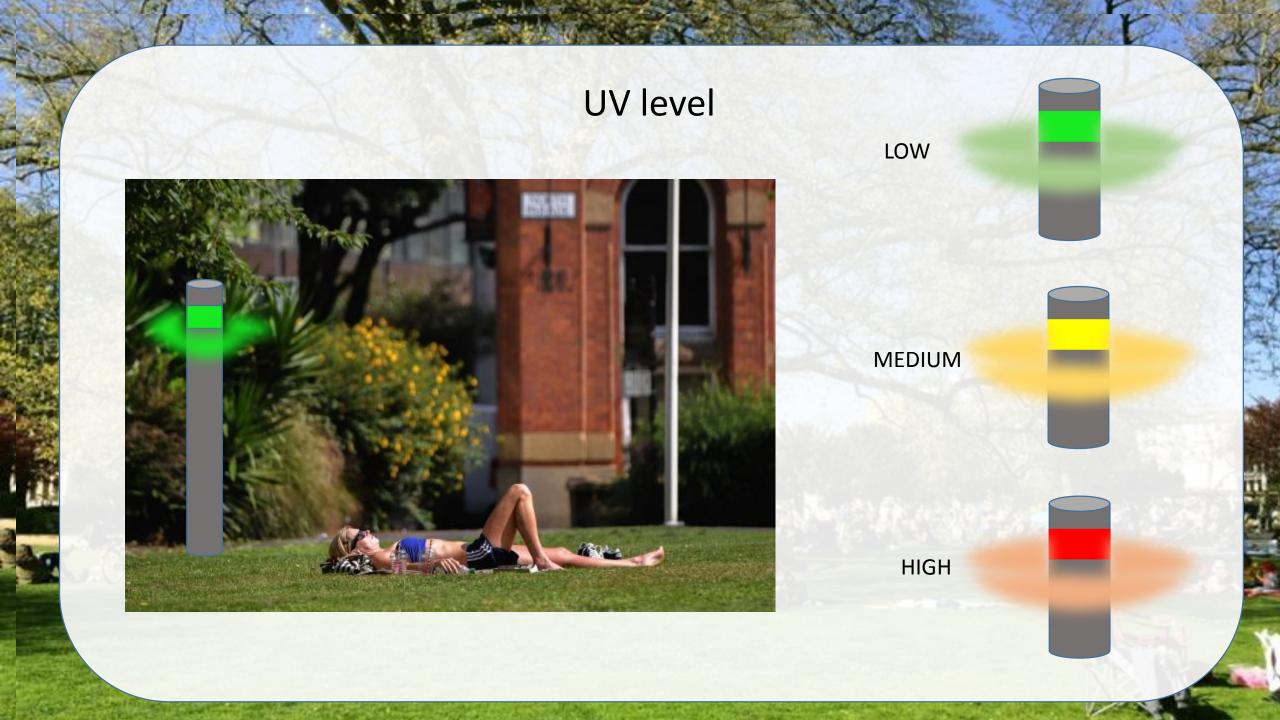


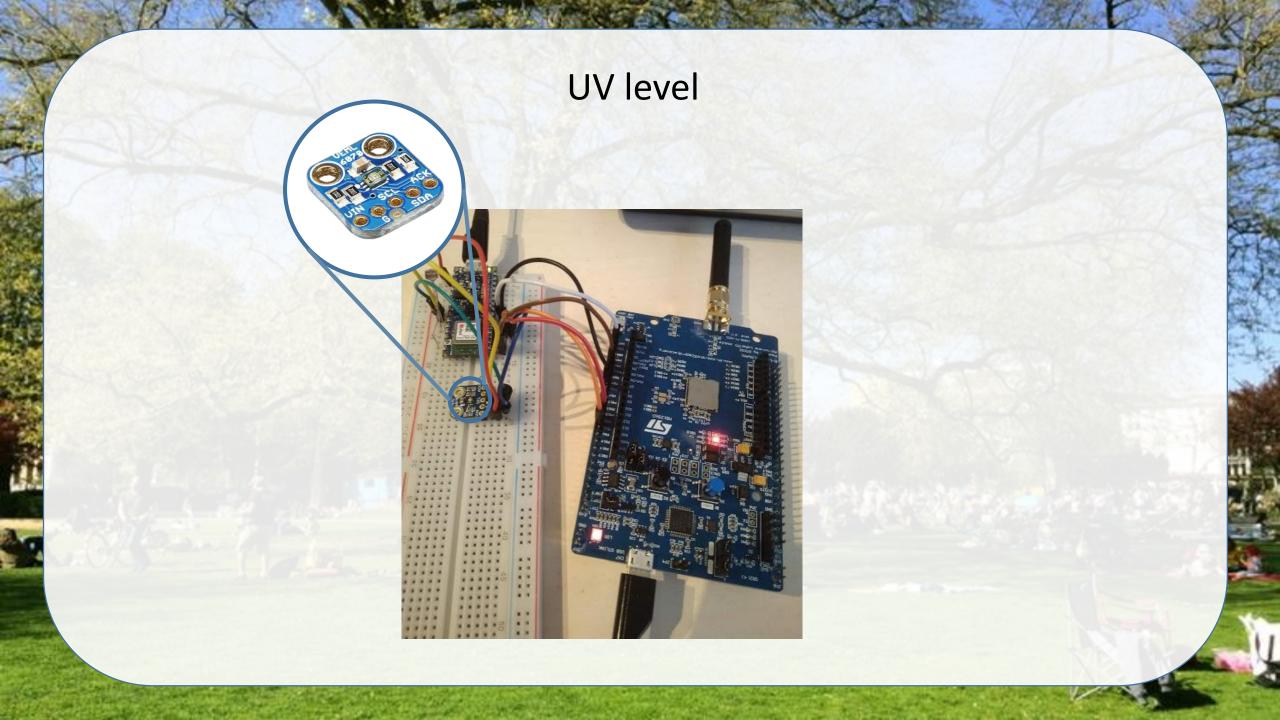


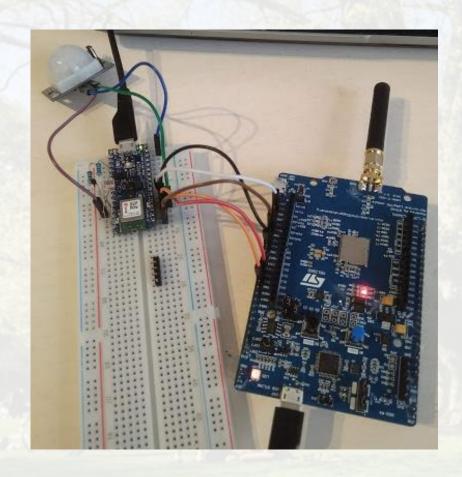
### How weather affect our measurements?



```
// it's important to do this first to make sure sleep timing is
// correct. If the command succeeds, the local variables will
// be set to the values we just read; if it fails, they'll be -1
if (ess.measureIAQ() != 0) {
                                                                   COM6
 Serial.print("Error while measuring IAQ: ");
 Serial.print(ess.getError());
  Serial.print("\n");
} else {
                                                                   29.73 27.71 0.00
  tvoc = ess.getTVOC();
                                                                   29.59 27.84 3.00
  eco2 = ess.getECO2(); // SGP30 only
                                                                   29.52 28.03 0.00
                                                                   29.39 28.16 0.00
                                                                   29.32 28.34 2.00
// next, we'll trigger the humidity and temperature measurement
                                                                   29.23 28.46 0.00
if (ess.measureRHT() != 0) {
                                                                   29.13 28.52 0.00
 Serial.print("Error while measuring RHT: ");
                                                                   29.04 28.63 7.00
 Serial.print(ess.getError());
                                                                   28.90 32.05 23.00
 Serial.print("\n");
                                                                   28.84 33.36 19.00
} else {
                                                                   28.82 33.36 17.00
 temp = ess.getTemperature();
                                                                   28.69 32.07 12.00
  rh = ess.getHumidity();
                                                                   28.62 31.12 3.00
                                                                   28.54 30.49 0.00
                                                                   28.47 30.20 0.00
// finally, let's print those to the serial console
Serial.print(temp);
                                                                   ✓ Autoscroll pokaż znacznik czasu
Serial.print(" ");
Serial.print(rh);
Serial.print(" ");
Serial.print(tvoc);
Serial.print(" ");
```







#### **Communication frame:**

Bench occupation: Temperature:

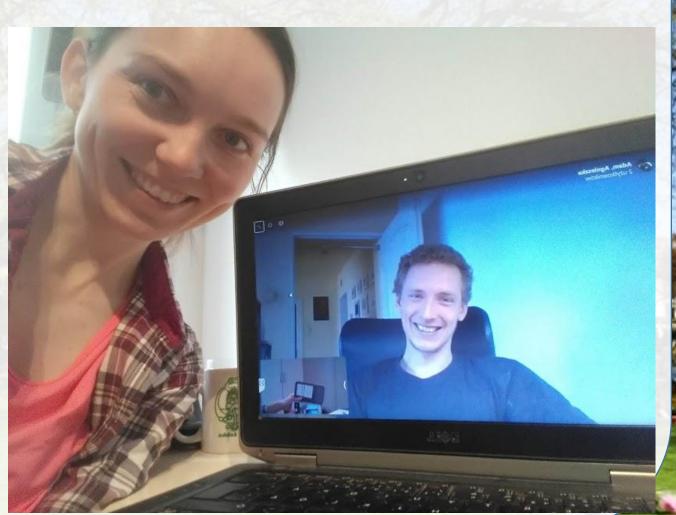
1 – occupied 0 – temp > 0 Temp mantissa Temp characteristic

0 - not occupied 1 - temp < 0

e.g. 1 1 2 50

Occupied bench at -2.50C





#### **ALL OVER THE WORLD**



