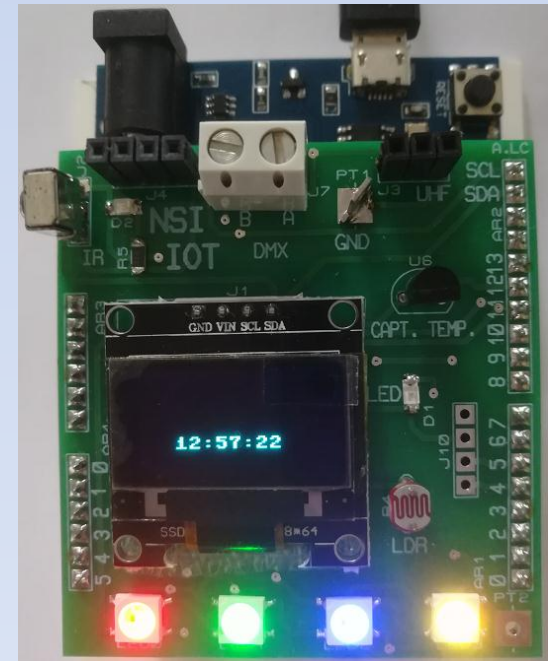
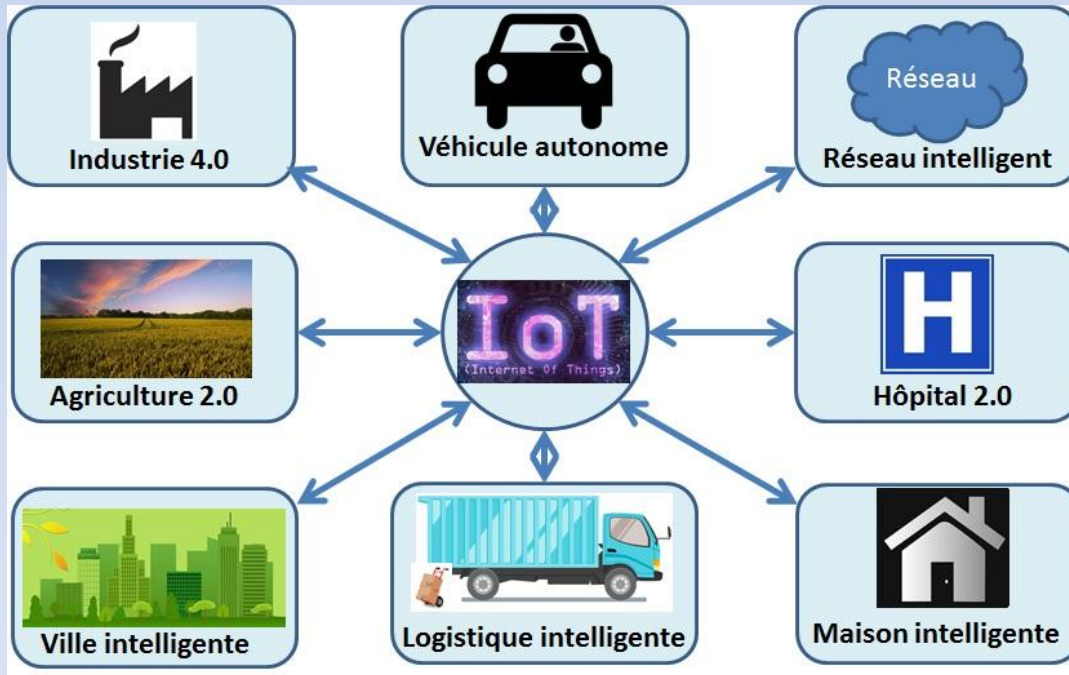


# Les objets connectés

## (IoT : Internet of Things)



[nsi.touchard@gmail.fr](mailto:nsi.touchard@gmail.fr)

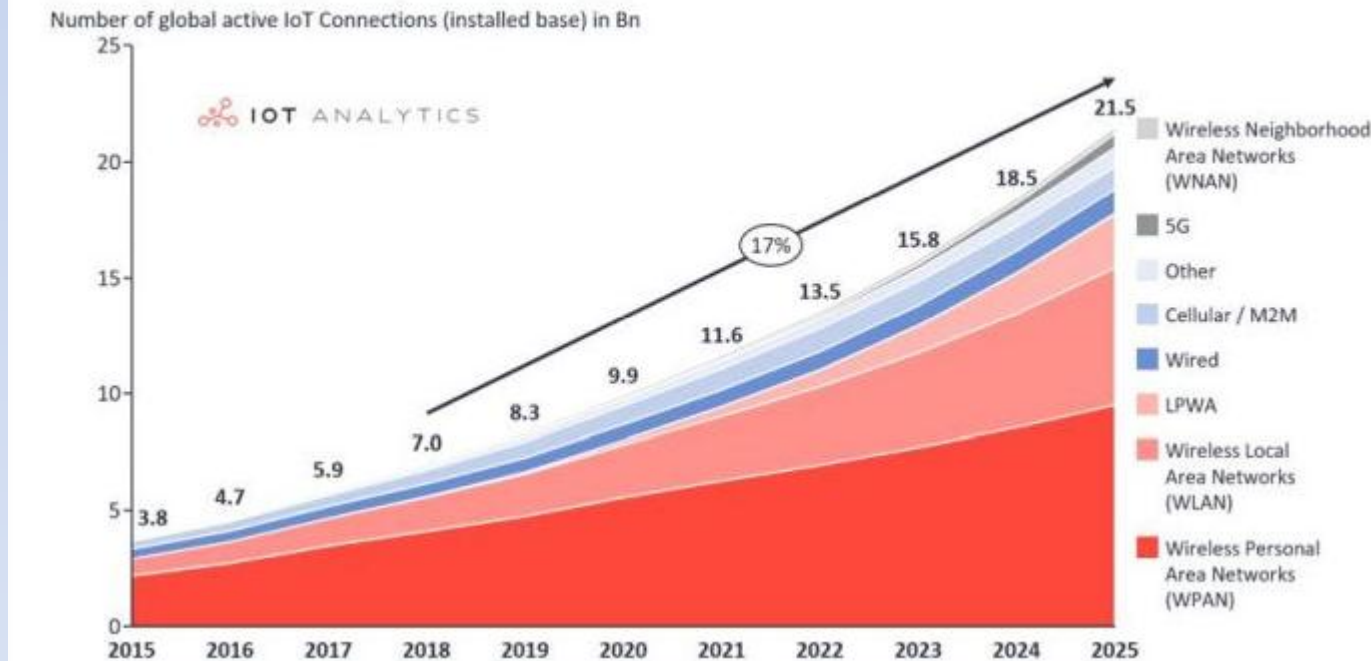
# IOT

- *Une infrastructure mondiale pour la société de l'information*
- *Services évolués*
- *Interconnexion des objets*
- *Réseaux existants*



# Une évolution fulgurante

## Global Number of Connected IoT Devices

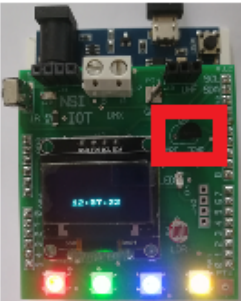


- En 2025
- 21 milliards d'objets
- \$1500 milliards de CA

# Les 5 composantes de l'IoT

1

Capteurs



2

Réseaux



3

Données

10010100110

paquet



4

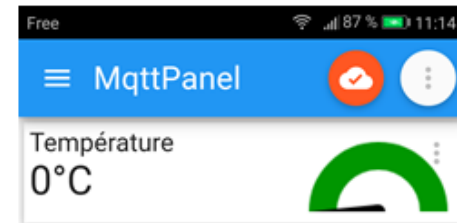
Informations

20°C

Décodage

5

Applications



Température

Internet

Liaison radio

Smartphone





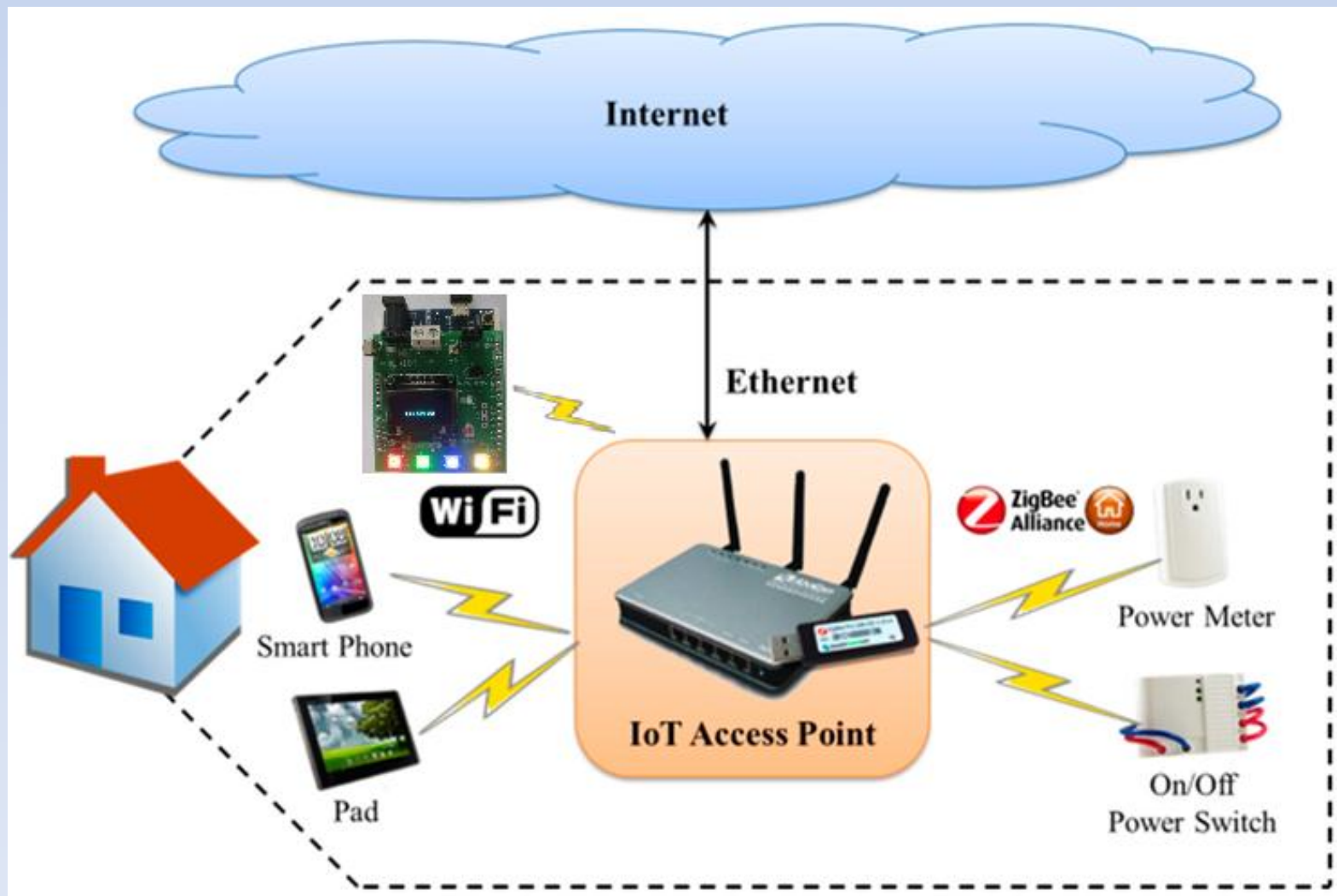
# IOT domestique (1/2)



- Santé
- Confort
- Energie

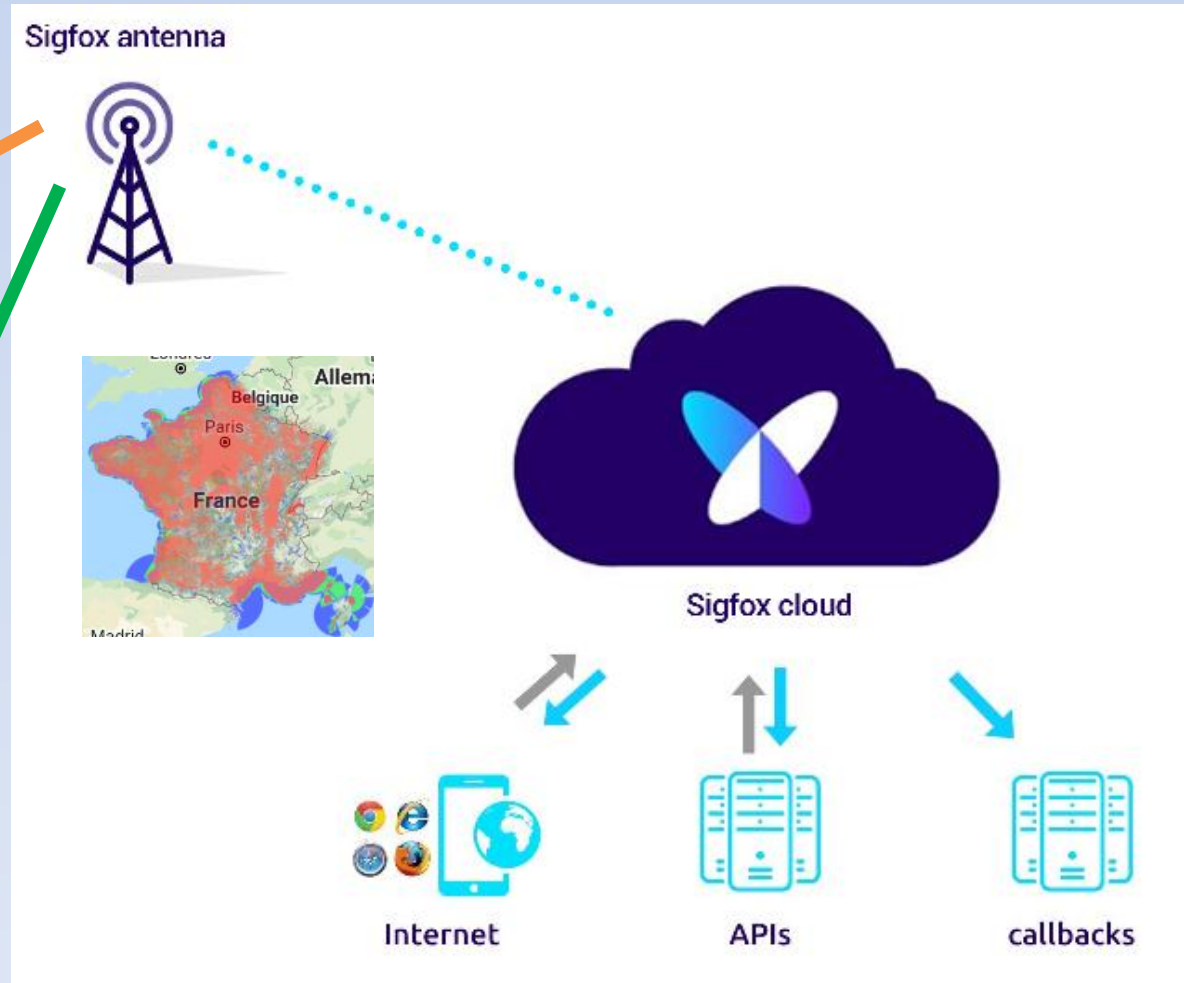
- Sécurité
- Loisir

# IOT domestique (2/2)



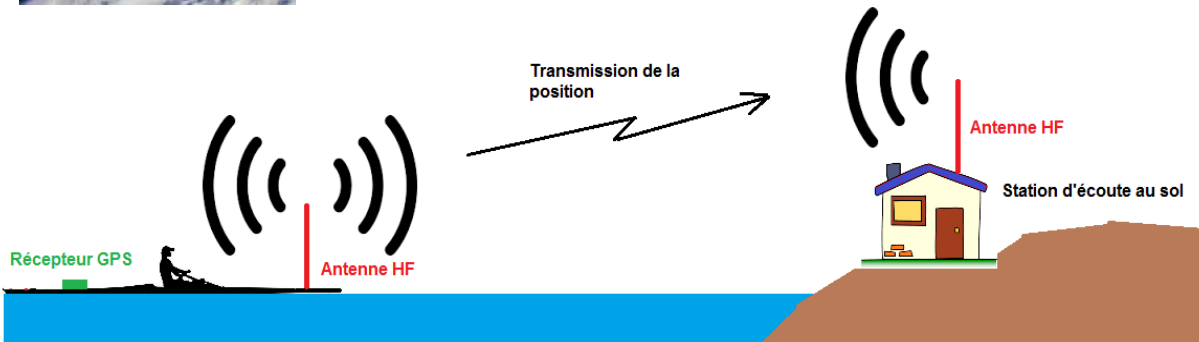
Liaison courte portée

# IOT scientifiques ou environnementaux



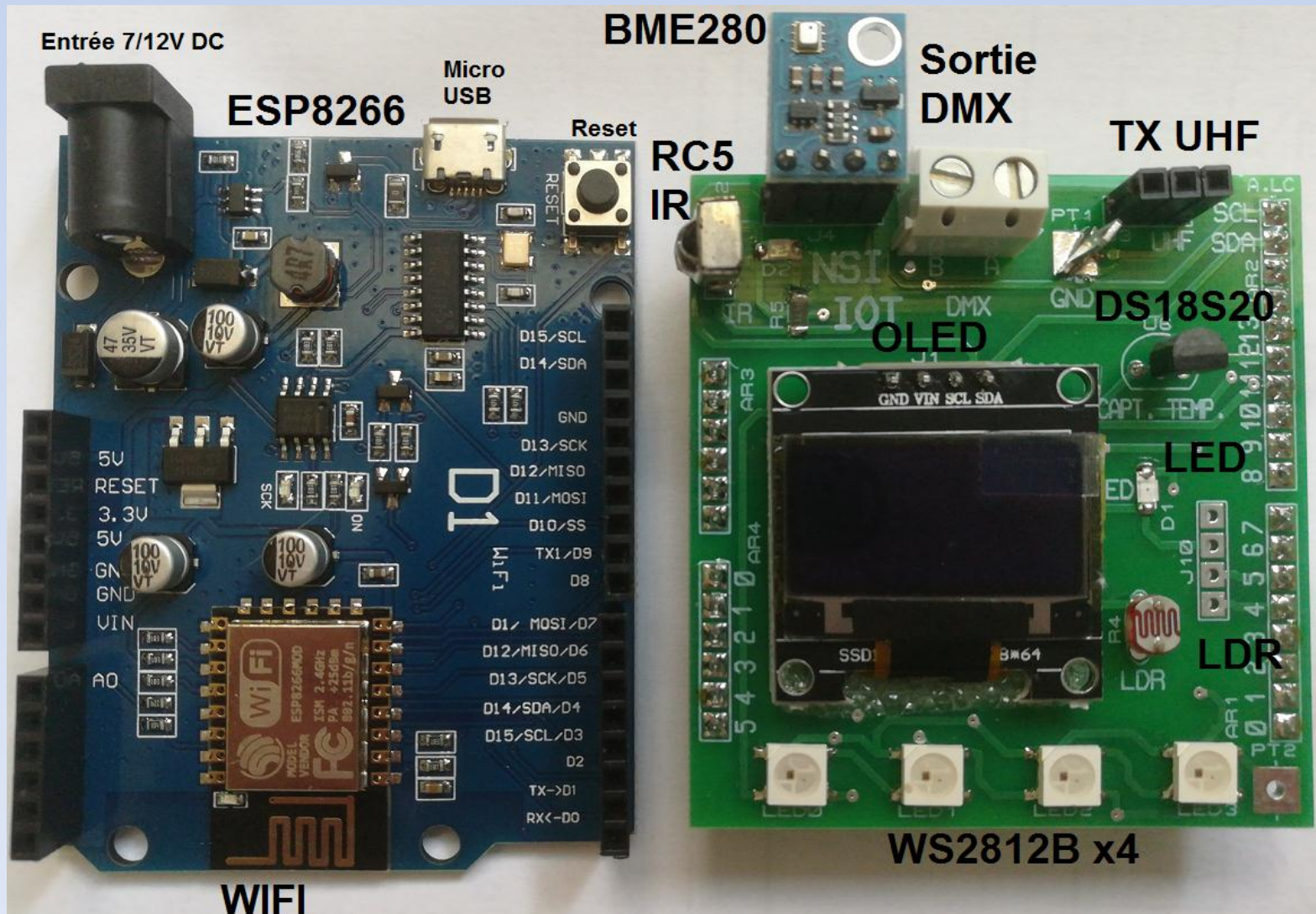


# IOT géolocalisation

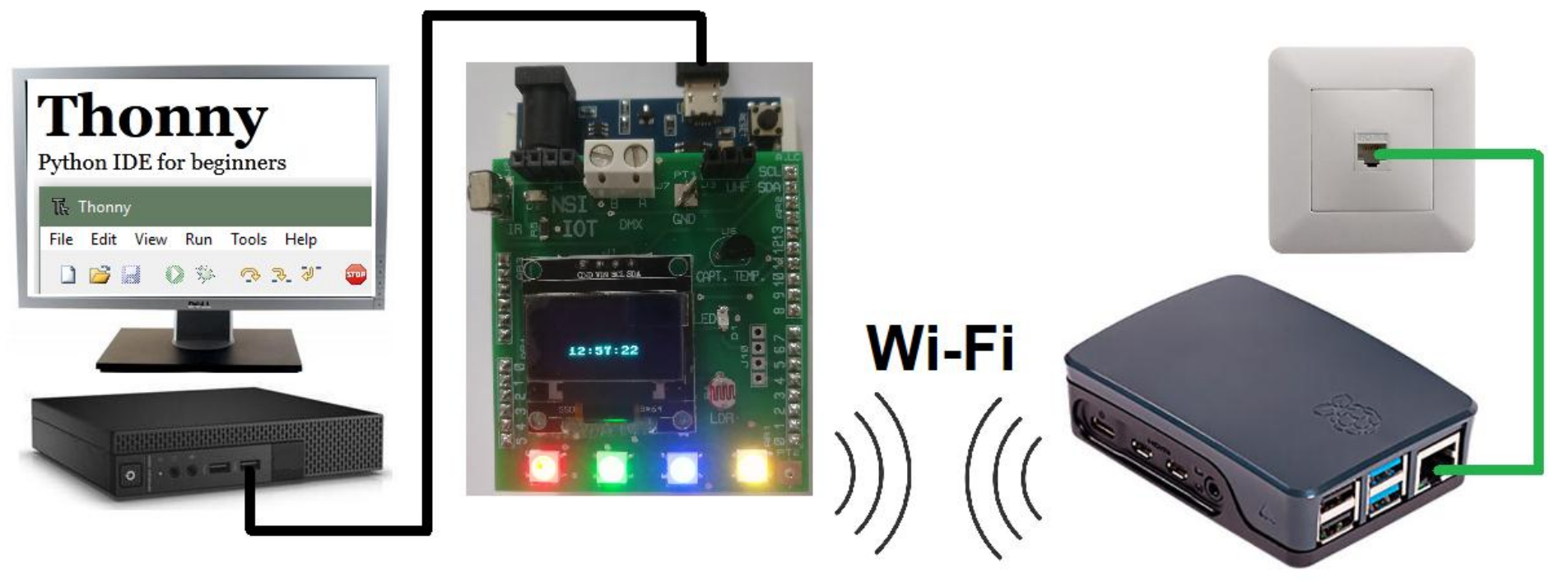




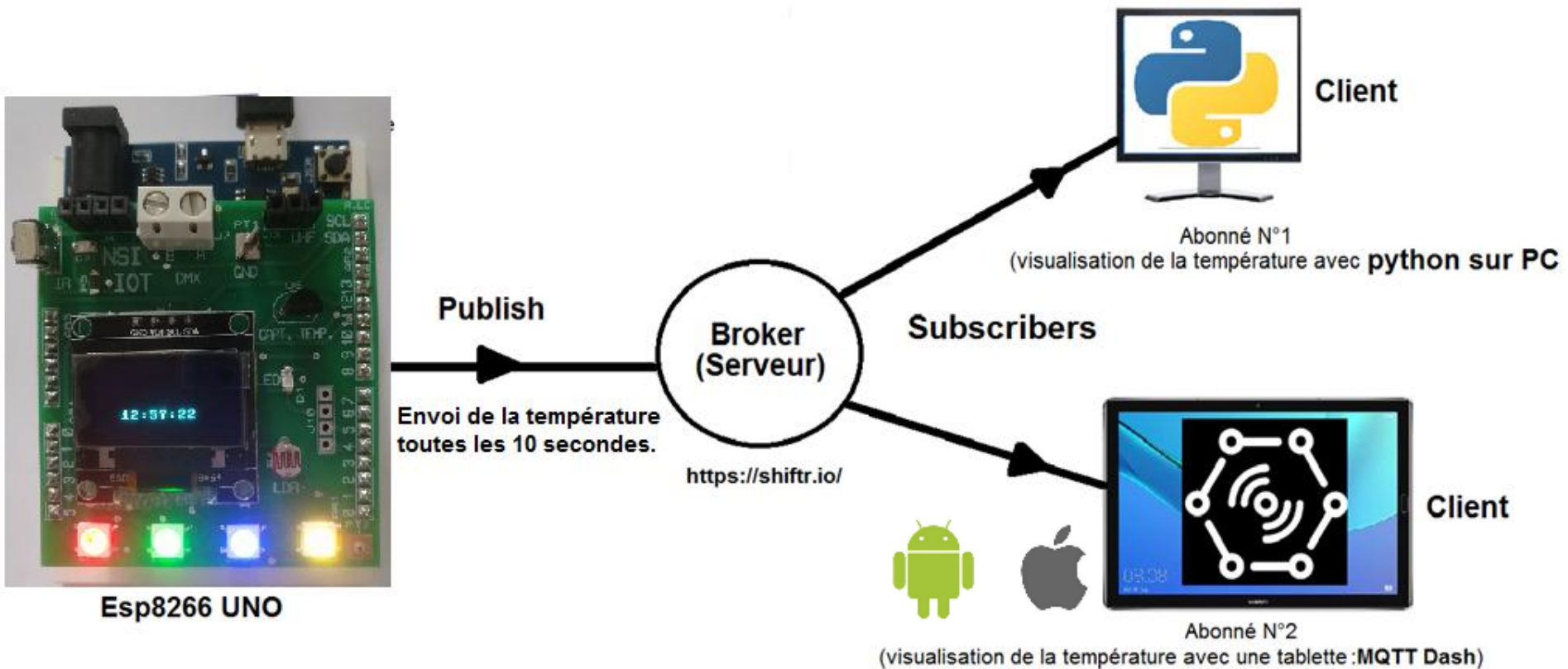
# 1 Découverte de la carte IOT



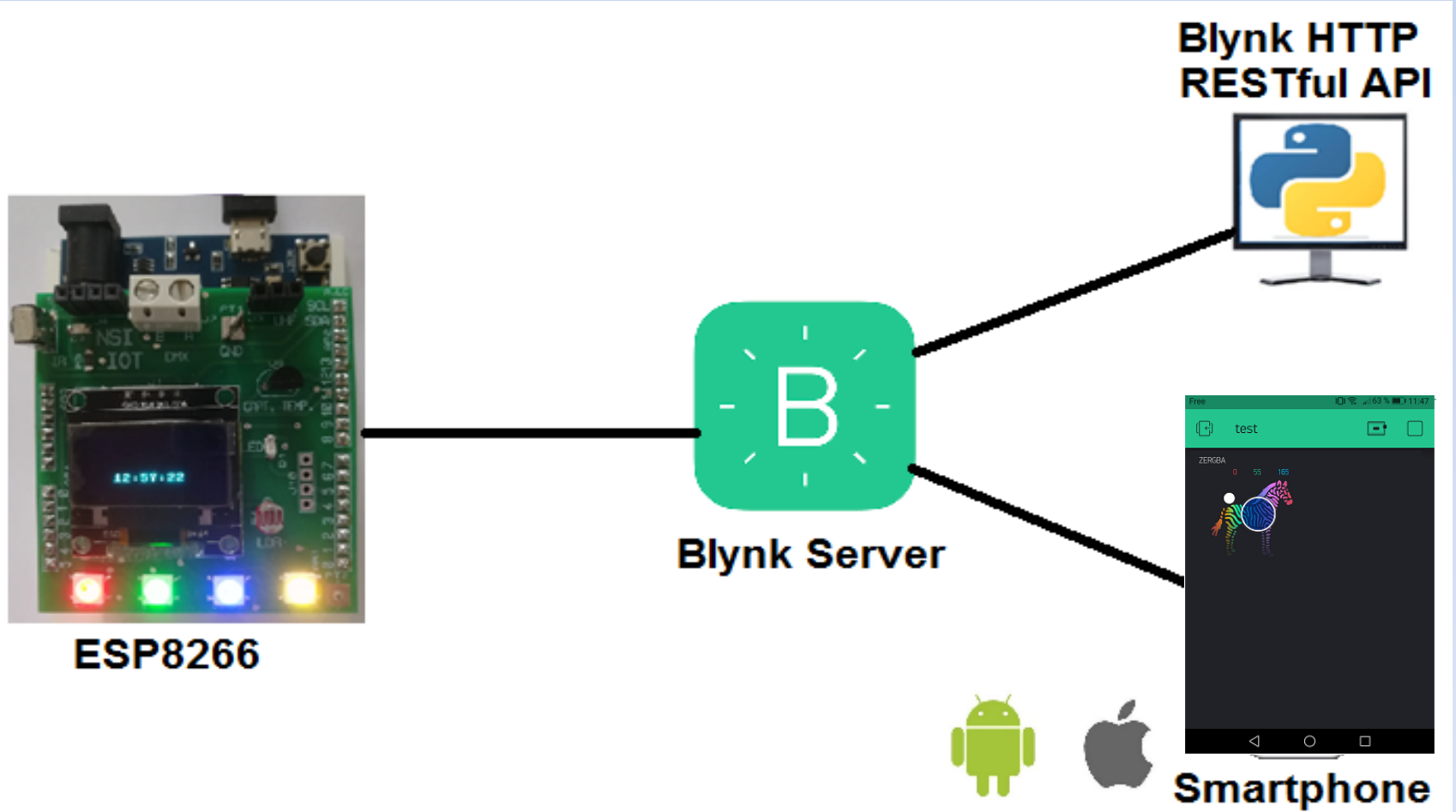
## 2 Connexion Wi-Fi



# 3 Protocole MQTT

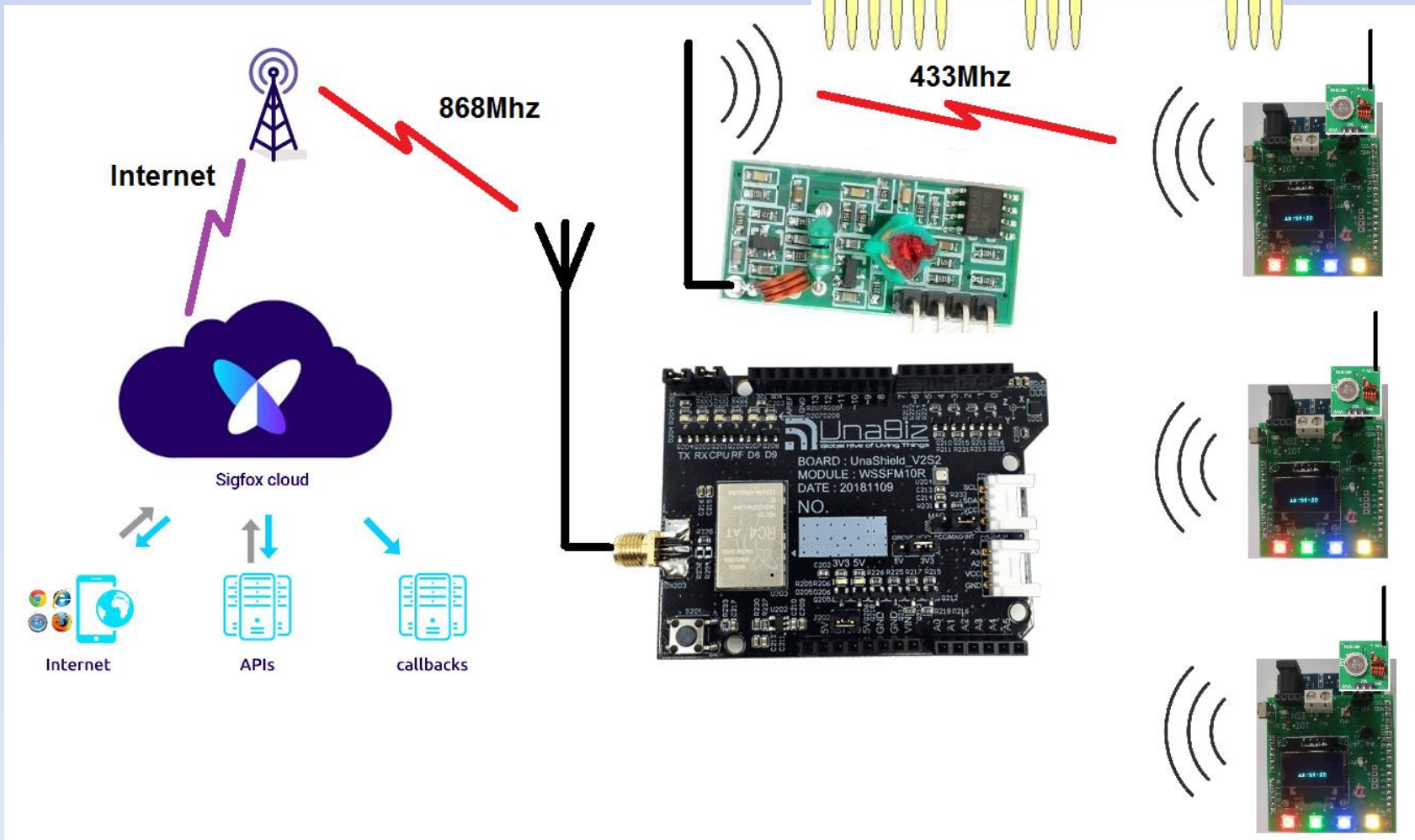


# 4 Plate-forme Blynk





# 5 Extension Sigfox



# 6 Extension DMX

