

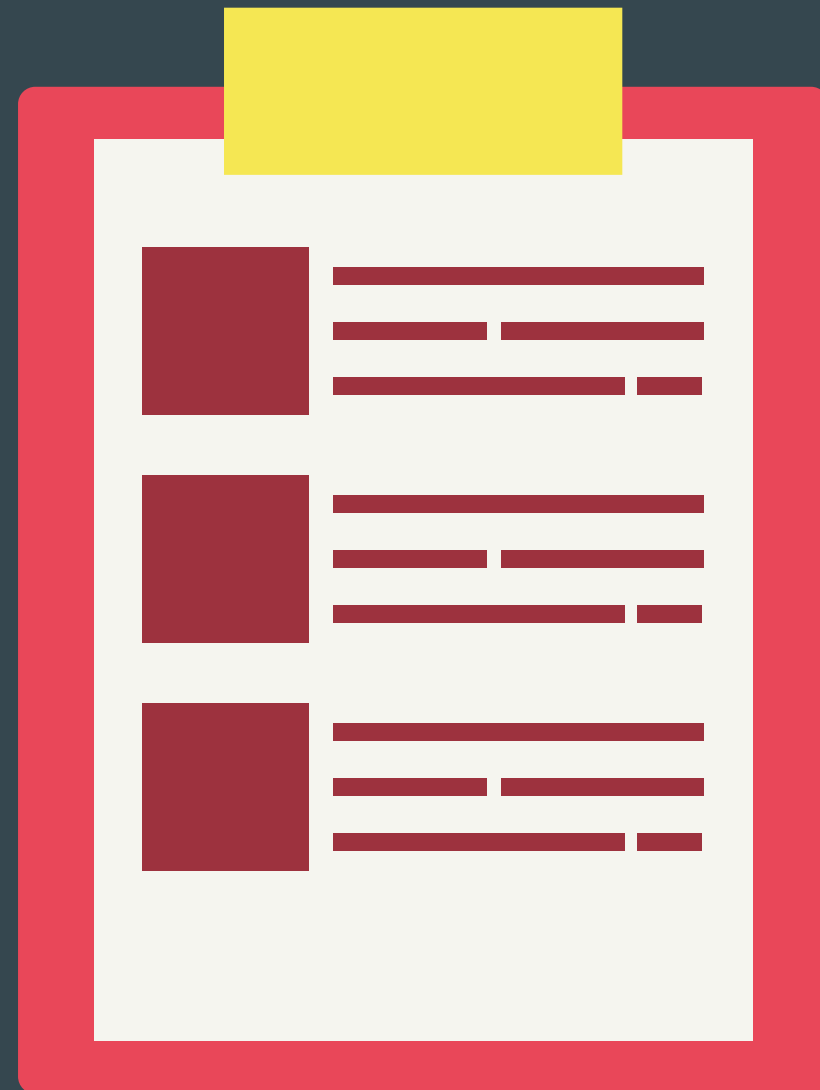
# NEARBY API'S



Nearby by Google

VEILLE TECHNOLOGIQUE - MANON CHAIX

# PLAN



- **1 - Généralités**
- **2 - Les APIs**
- **3 - Fonctionnement**
- **4 - Démonstration**

# 1 - GÉNÉRALITÉS

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**"Aujourd'hui il faut plusieurs étapes [...] pour obtenir une simple information d'une personne située juste à coté de vous"**

Akshay Kannan, Responsable produit chez Google

## OBJECTIFS

- Faciliter la connexion entre appareils à proximité
- Création d'applications innovantes

## EXEMPLE



TRELLO

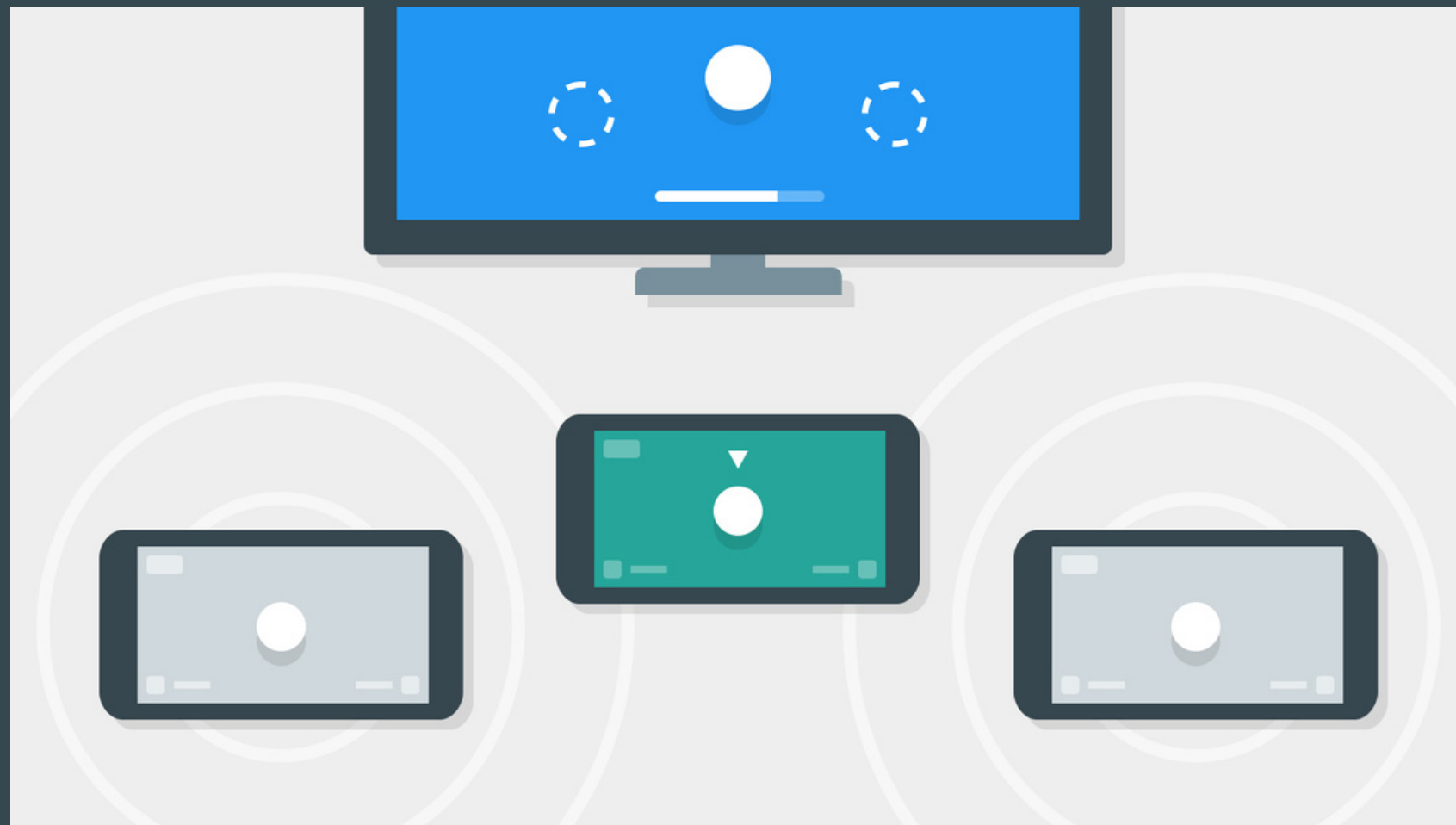


POCKET  
CASTS

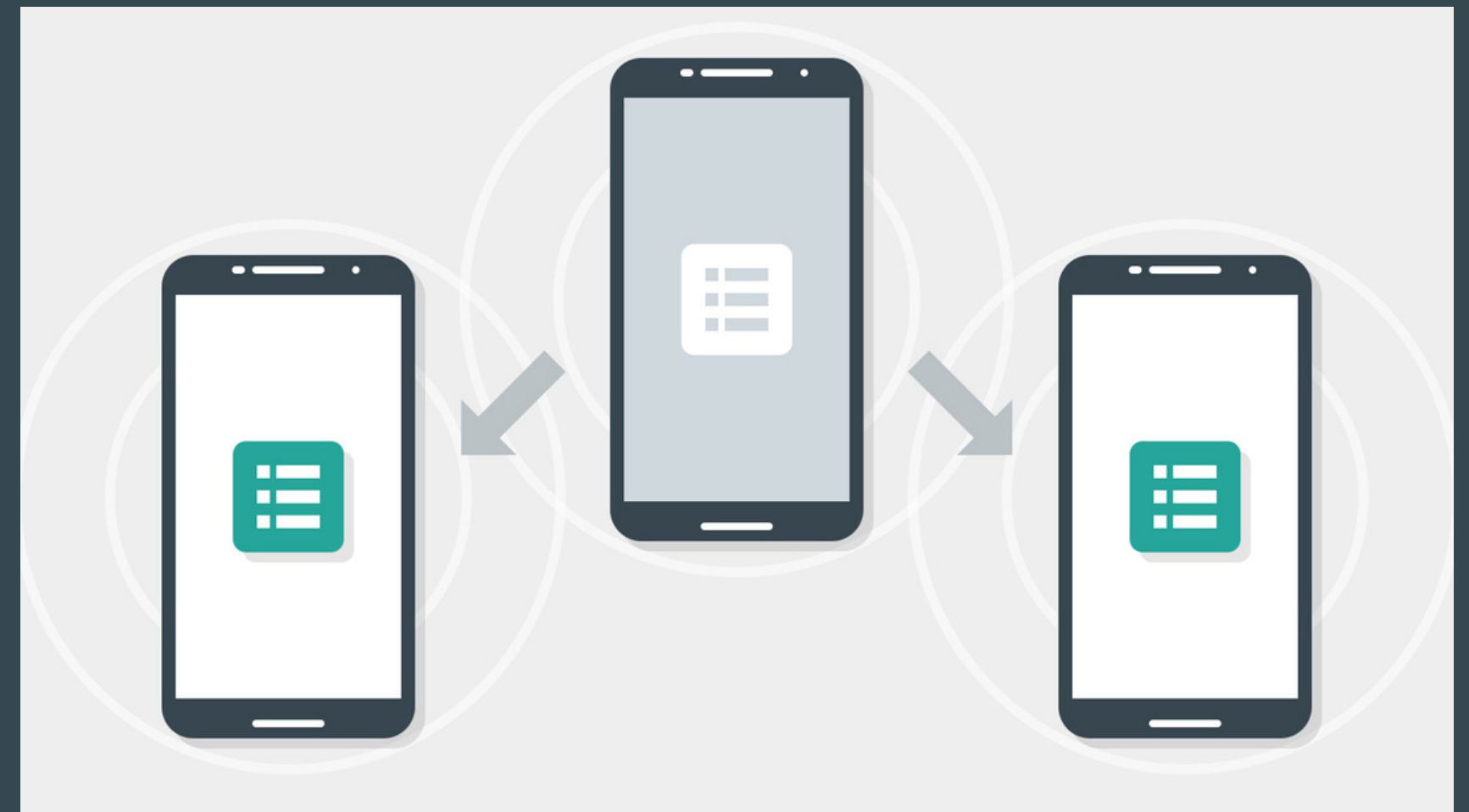
# 2 - LES API'S

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## NEARBY CONNECTIONS API



## NEARBY MESSAGES API

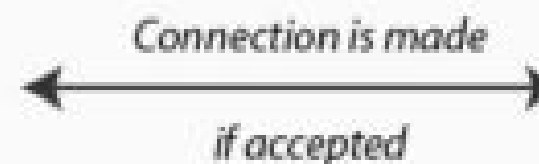
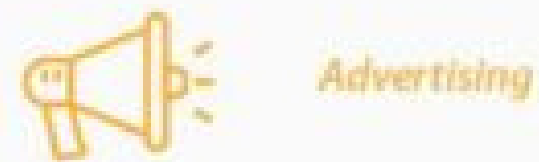


# 3 - FONCTIONNEMENT

## NEARBY CONNECTIONS API

### Nearby Pre-Connection Phase

Advertiser

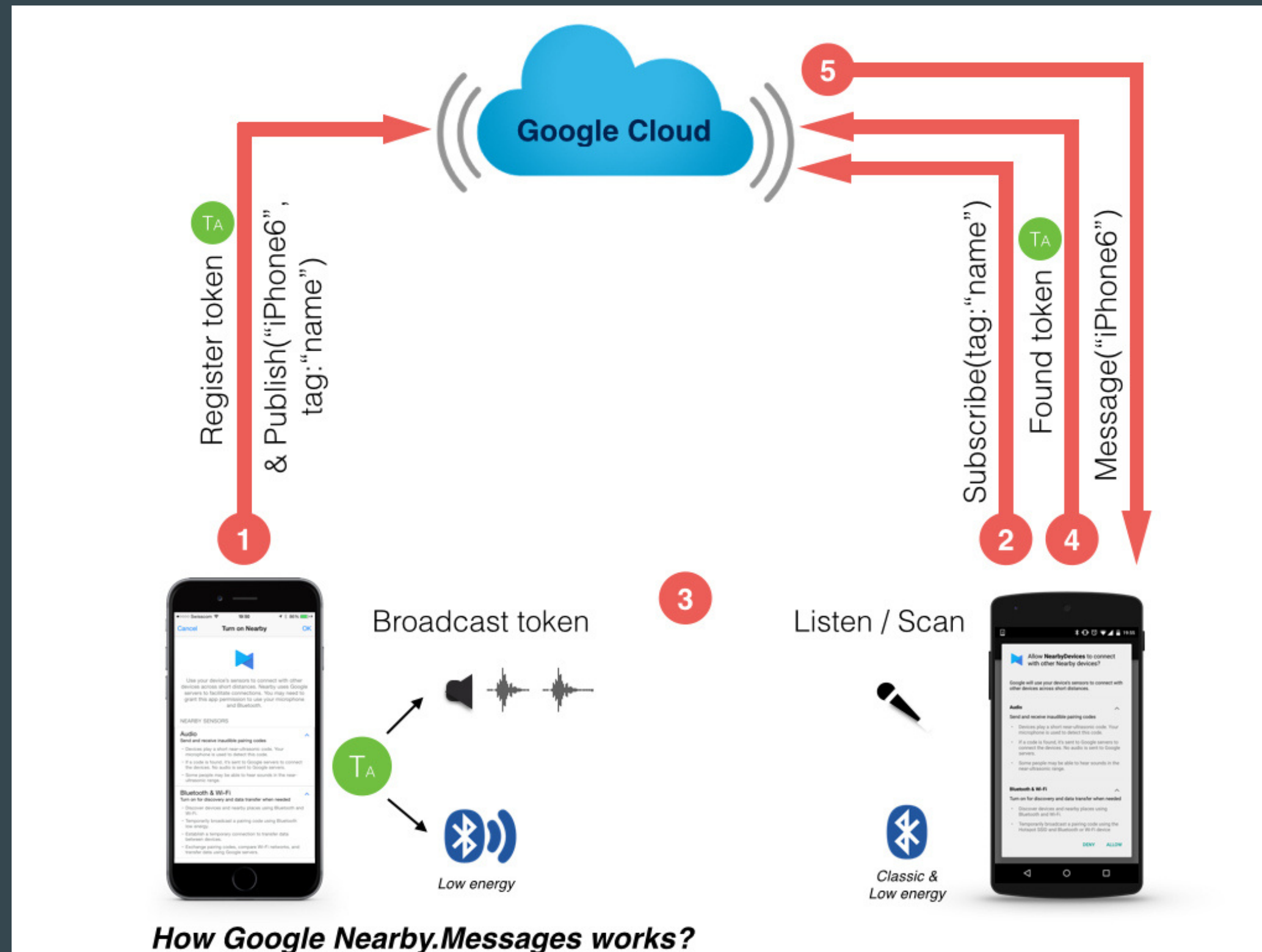


Discoverer



# 3 - COMPARAISON

## NEARBY MESSAGES API



How Google Nearby.Messages works?

# 3 - COMPARAISON

## NEARBY MESSAGES API

### MODES DE COMMUNICATION UTILISÉS

- Ultrasons
- Bluetooth  
(standard + BLE)
- Wifi

### CODE

```
private void publish(String message) {  
    Log.i(TAG, "Publishing message: " + message);  
    mActiveMessage = new Message(message.getBytes());  
    Nearby.getMessagesClient(this).publish(mActiveMessage);  
}
```

```
// Subscribe to receive messages.  
private void subscribe() {  
    Log.i(TAG, "Subscribing.");  
    Nearby.getMessagesClient(this).subscribe(mMessageListener, options);  
}
```

# 5 - DÉMONSTRATION

## ANALYSE DU CODE

