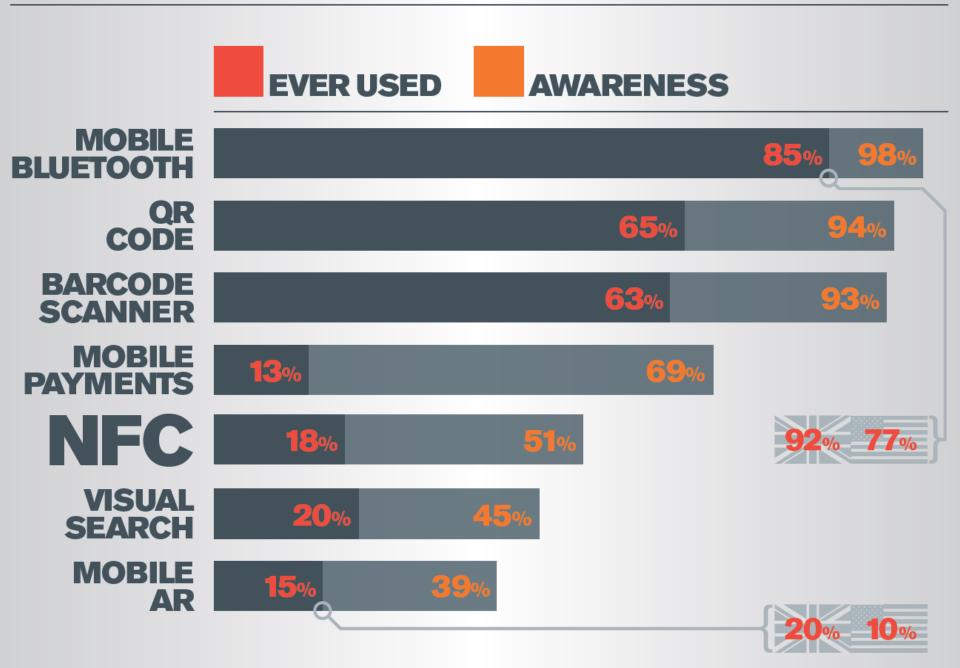


#### Mobile technologies



## **RFID Technology**

"Radio-frequency identification is the use of a wireless system that uses radio-frequency electromagnetic fields to transfer data from a tag reader, for the purposes of automatic identification and tracking"





# Why Should I Care About RFID?





**Mastercard PayPass** 



#### **Financial Transactions**





SF Muni Clipper pass

#### **Access control**



# Casino Chips Theft Fail

man steals \$1.5M in chips, cashes them in for \$0 and jail



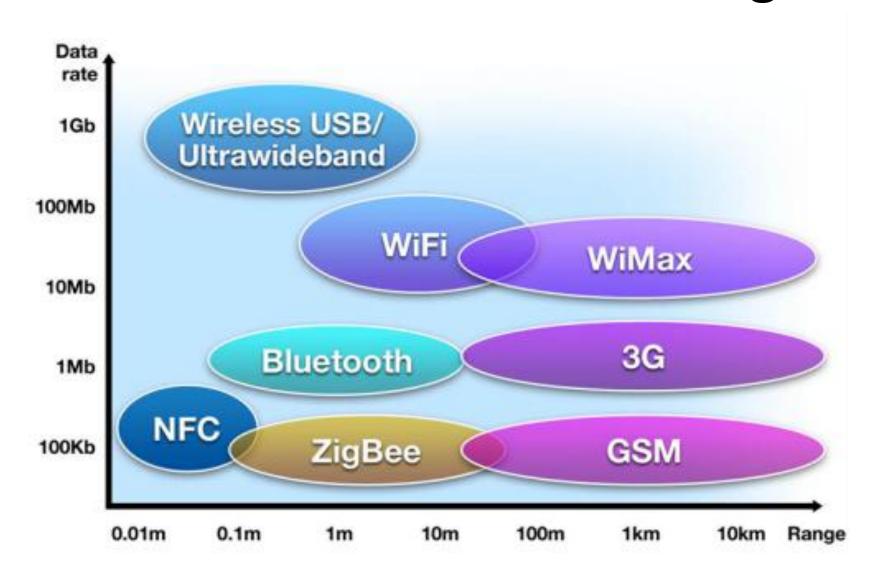


#### **Near Field Communication**

- Contactless technology based on RFID 13,56MHz
- NFC is standardized ECMA-340 and ISO/IEC 18092
- Short distance: 0 4 cm
- Data rate up to 424 kbit/s



### NFC and Contactless Technologies



## **NFC Modes**

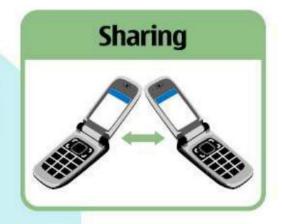


### NFC Use cases



Your phone is your travel card

Share files between phones



# Touch to connect



Get information by touching smart posters Your phone is your credit card



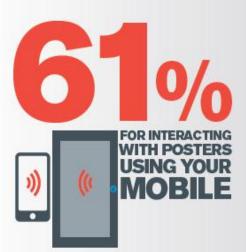
#### In what context is NFC known











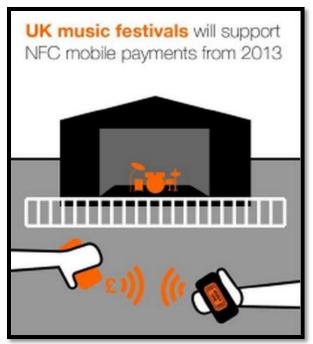


## **Mobile Payments**

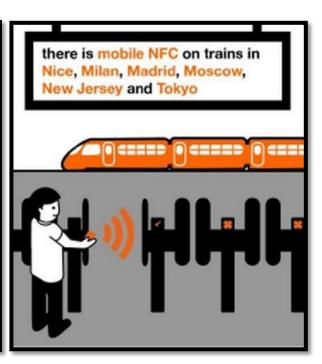




## Ticketing 2.0

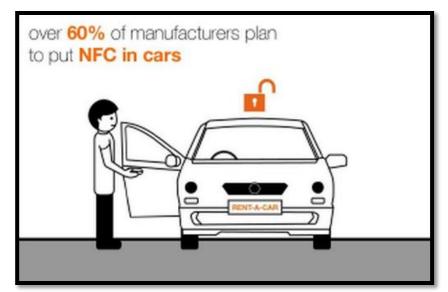




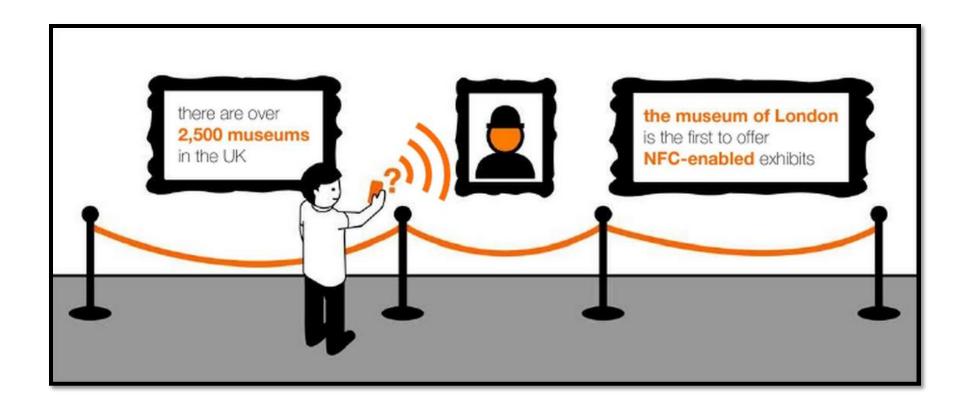


#### **Car Rentals**





## **Information Everywhere**



#### **Medical Matters**

