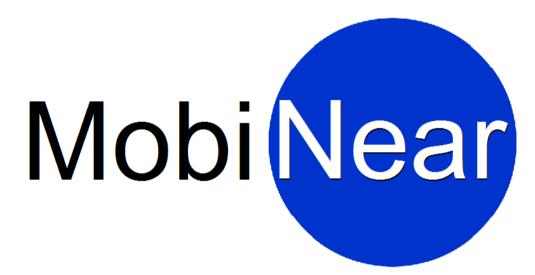
#### Bluetooth, BlueNFC & NFC: What steps for a Massive deployment of contactless mobile services ?

Bluetooth, BlueNFC & NFC: Quelles étapes pour un déploiement massif de services mobiles sans contact ?



Discover the Digital World around you

#### **CARTES & IDentification 2009**

C07 - MOBILE MONEY SERVICES: Wednesday, 18th of november 2009 - 14:30-15:00

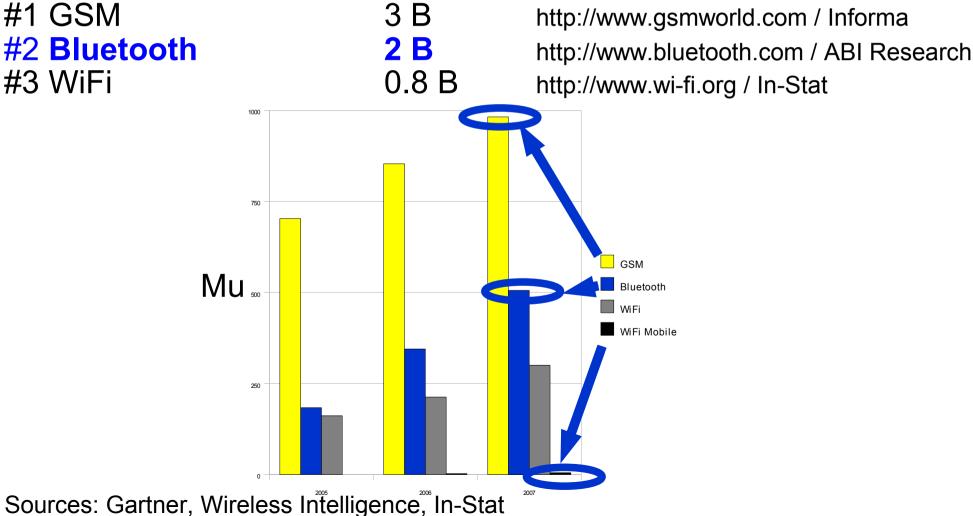






## Wireless Technologies

Wireless Technologies (2008 worldwide):



## **Bluetooth Mobiles Worldwide**

**Estimated in use Bluetooth Mobiles** 



**US: ~20%** 

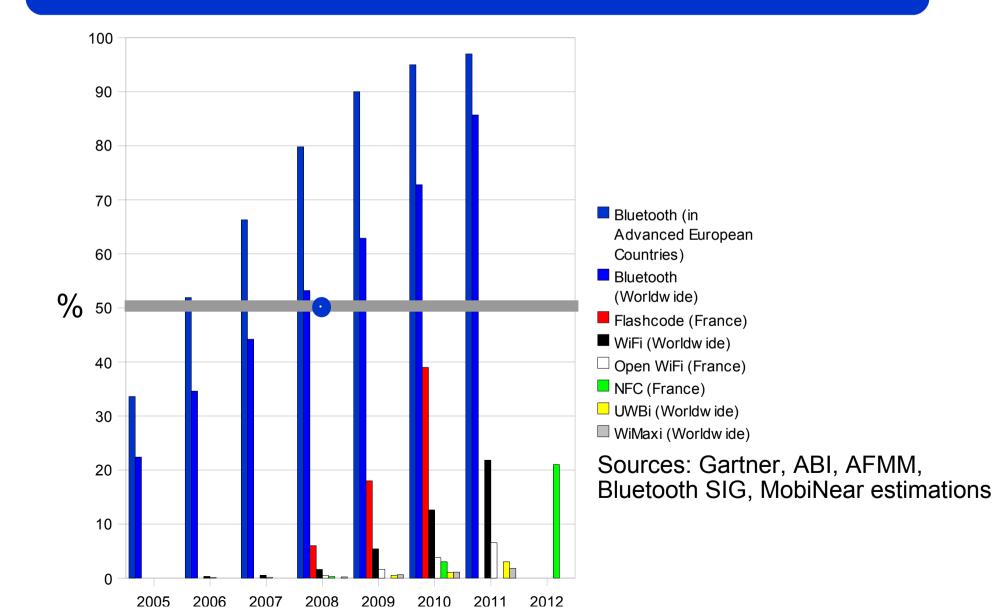
Europe: ~60% Asia: ~20% (Africa: < 10%)

(Japan: < 10%)

MobiNear

Source: MobiNear estimates after discussions with Bluetooth SIG

### **Bluetooth on Mobile**



## NFC success story in Japan

- July 2004: Launch by NTT DoCoMo In Europe: Vodafone ?
- i-mode FeliCa: a technology from FeliCa Networks (Sony + NTT DoCoMo)
   In Europe: Orange + Thomson ? Who will pay for the + \$5 phone BOM ?
- NTT DoCoMo invested more than 10B yens (73,6 millions euros) in the readers subsidies.
   In Europe: Vodafone to pay for readers ?
- Apr. 05: 34% of Mitsui Sumitomo Card (Mitsui Sumitomo Bank) stakes hold by NTT DoCoMo.
   In Europe: Orange to buy a stake in BNP ? In 2006, SMBC was the #3 largest bank in Japan and the 8th largest bank in the world.
- Nov. 05: Launch of Mobile credit card platform "iD"
- 2005: Partnerships with retail, bank, transport, ...
- 2006: Equipment of the Japanese convinis (small convenience stores), restaurants, taxis
- Jan. 2006: 10 millions of i-mode FeliCa sold.
- 2008: Coca Cola (C-mode2) 20 000 vending machines forecasted
   Mobi Near Source: from a Jap'Presse presentation on NFC at MobileMonday

# Why BlueNFC ?

Use Bluetooth to pave the way to NFC usages

Advantages:

- > 50% of Mobiles compatible the day of launch
- Gain 7 years on the market (NFC: 20% in 2012; Bluetooth: 20% in 2005)
- Low cost (Bluetooth volumes)



### MobiNear BlueNFC



**Simple Operation** 

**Secured Connection** 

**Efficient Transfer** 



## **Technologies** Comparaison

	Bluetooth	BlueNFC	NFC
Network Type	Point-to- multipoint multipoint		Point-to-point
Range	10m	<ul> <li>&lt; 0.1m - 10m</li> <li>10m</li> <li>&amp;</li> <li>Programmable</li> </ul>	
Speed	721 kbit/s <b>3 Mbps</b>	721 kbit/s <mark>3 Mbps</mark>	424 kbit/s
Set-up time	6 s	<b>Typ.: 3 s</b> 1-6 s	< 0.1 s
Compatible with RFID	No	No	Yes
Zero Click	No	Yes with Software	Yes with Software
Security	No	Yes with Software & SIM	Yes with Software & SIM



Source: http://en.wikipedia.org/wiki/Near\_Field\_Communication

## Applications

- Shopping: loyalty card, in store micro-payment
- Outdoor advertising: couponing, promotion (trailers), informations, URL, dial-up
- Transports (Airport: read in ~3 seconds): buy, store, validate tickets
- Government Services:
   informations



## Usages BlueNFC

Applications	Energy	BlueNFC	Remarks	<b>Best Solution</b>
Transport / Fast (e.g. Tube)	Reader	No	Read Time 3s Typ.	NFC
Transport / Slow (e.g. Plane)	Reader	Yes		BlueNFC
Payment	Reader	Yes		BlueNFC with Software & SIM
Physical Access Control	Reader	Yes		BlueNFC with Software & SIM
Network / PC Access Control	Reader	Yes		BlueNFC with Software & SIM
PayTV / VoD Access Control	Reader	Yes		BlueNFC with Software & SIM
Ticketing	Mobile !	Yes	BlueNFC & Flashcode	BlueNFC & Flashcode
Ticketing via URL	Reader	Yes	BlueNFC & Flashcode	BlueNFC & Flashcode
RFID	Mobile !	No	Compatible RFID: No	NFC
Loyalty	Reader	Yes		BlueNFC
Couponing	Reader	Yes		BlueNFC
Information	Reader	Yes		BlueNFC
Security Check Points Control	Reader	Yes		BlueNFC
Easy Bluetooth Pairing	Reader	Yes		BlueNFC
Advertising	Reader	Yes	Compatible A/V Multimedia: Yes	BlueNFC













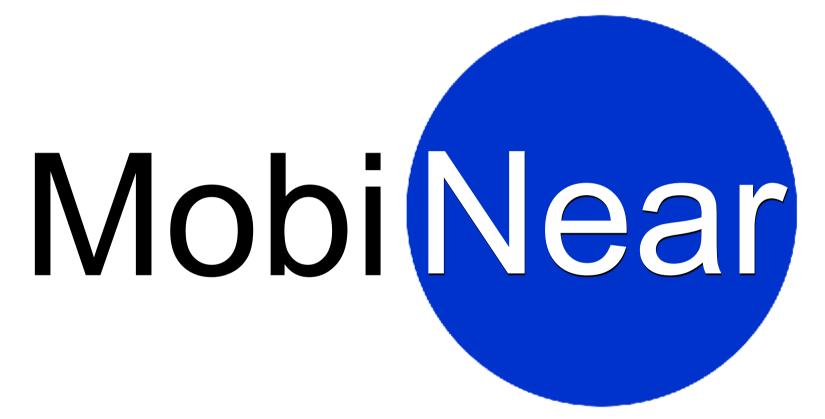
Source: MobiNear

## **BlueNFC Mobile Application**

- Multi-Operator Solution
- Multi OEM (i.e. phone manufacturers) Solution
- Multi-Languages Solution
- Multi-Services Solution



#### Thank you for your attention. Any Question ?



Discover the Digital World around you Christian CHABRERIE, Ph.D. Founder & CEO christian.chabrerie@mobinear.com

