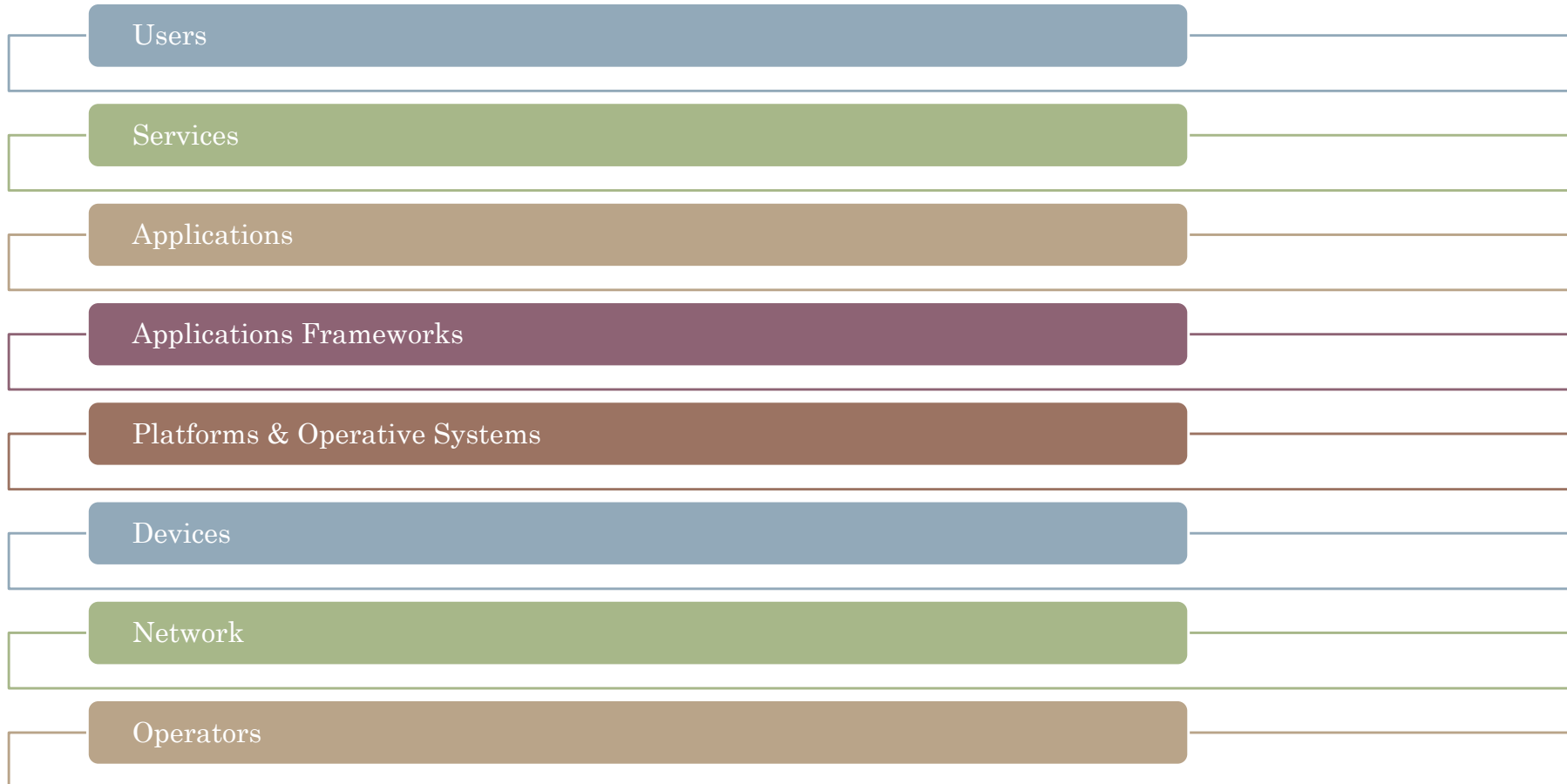


Mobile computation and mobile agents

Juan Camilo Rada

Mobile ecosystem



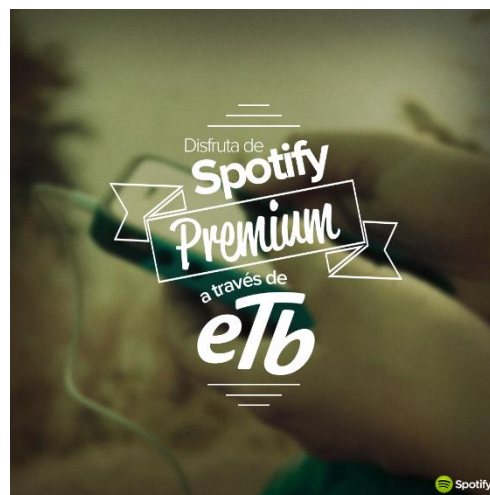
Operators

Rank	Operator	Technology	Subscribers (in millions)
1	Claro	GSM-850 (GPRS, EDGE)	29.1
		850 MHz UMTS, HSDPA, HSPA+	
		2600 MHz LTE	
2	Movistar	GSM-850 (GPRS, EDGE)	12.88
		850 MHz UMTS, HSDPA, HSPA+	
		1700 MHz LTE	
3	Tigo	GSM-1900 (GPRS, EDGE)	9.69
		1900 MHz UMTS, HSDPA, HSPA+	
		1700 MHz LTE	
4	Avantel	iDEN	0.31
		1700 MHz LTE	
Mobile Virtual Network Operators			
5	UFF!	GSM (GPRS, EDGE)	0,45
	(using Tigo)	UMTS, HSDPA	-
6	UNE	GSM (GPRS, EDGE)	0,35
	(using Tigo)	UMTS, HSDPA, HSPA+	
		2600 MHz LTE	
7	ETB	GSM (GPRS, EDGE)	0,07
	(using Tigo [42])	UMTS, HSDPA	
		LTE	
8	Virgin Mobile	GSM-850 (GPRS, EDGE)	2.11
	(using Movistar)	850 MHz UMTS, HSDPA, HSPA+	
9	Móvil Éxito[43]	GSM-1900 (GPRS, EDGE)	0,41
	(using Tigo)	1900 MHz UMTS, HSDPA, HSPA+	

Operators

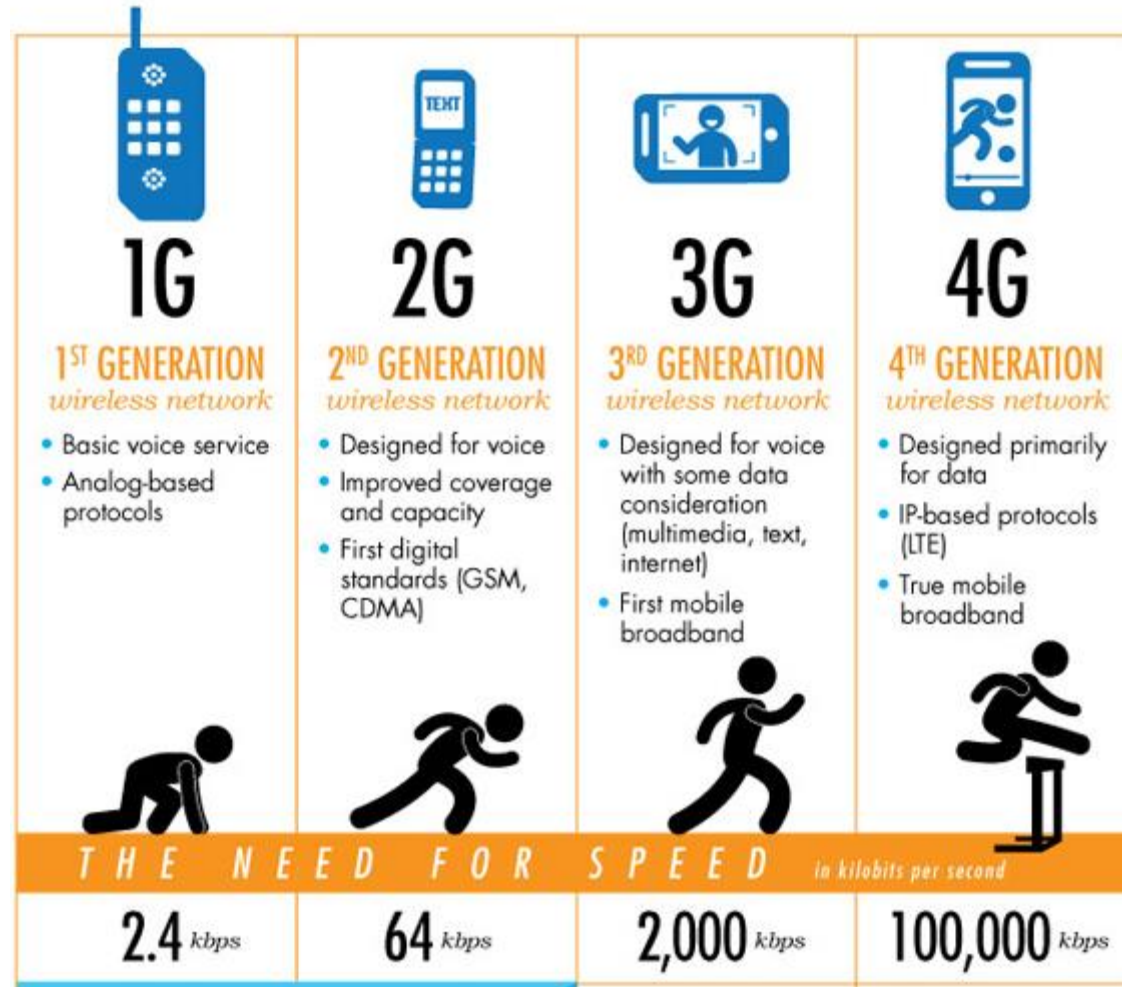
- Create and maintain a specific set of wireless services over a reliable cellular network.
- Handling billing.
- Make services (such as the Internet) available for mobile subscribers.
- Offering devices

Operators



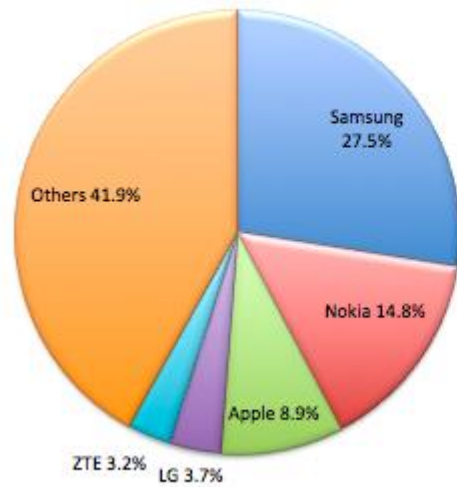
Networks

“Cellular technology is just a radio that receives a signal from an antenna”

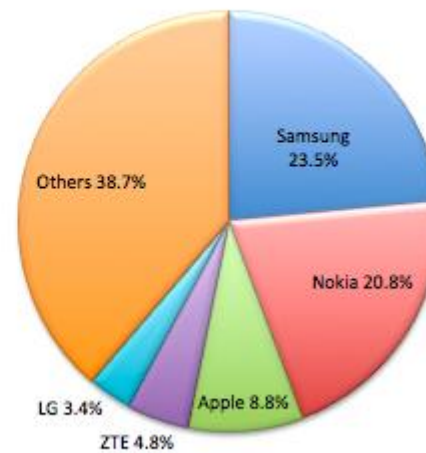


Devices

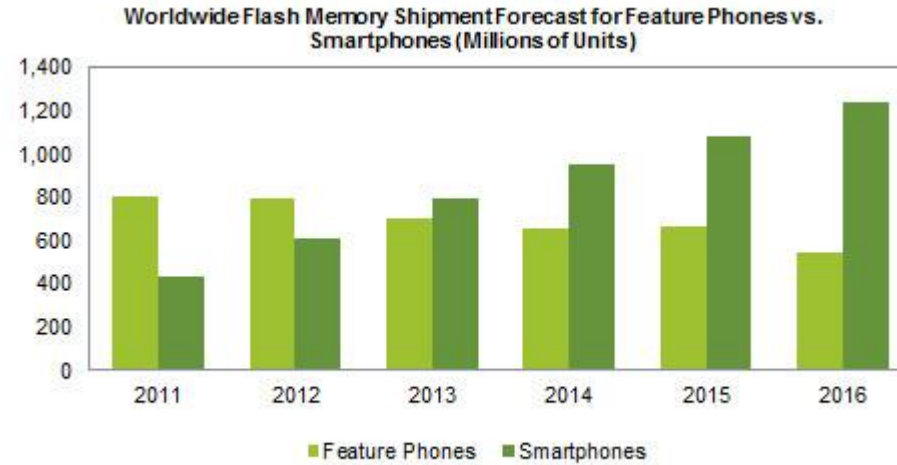
Market shares Q1 2013



Market shares Q1 2012



Devices



Source: IHS iSuppli Research, November 2012

Devices

								
	Zip	One	Flex	Charge	Alta	Charge HR	Blaze	Surge
	£49.99	£79.99	£79.99	£99.99	£99.99	£119.99	£159.99	£199.99
	4 colors	2 colors	10 colors	4 colors	4 colors	5 colors	3 colors	3 colors
 Steps, Calories, Distance	✓	✓	✓	✓	✓	✓	✓	✓
 Clock	✓	✓	—	✓	✓	✓	✓	✓
 Sleep Tracking	—	✓	✓	✓	✓	✓	✓	✓
 Auto Sleep Detection	—	—	✓	✓	✓	✓	✓	✓
 Silent Wake Alarm	—	✓	✓	✓	✓	✓	✓	✓
 Floors Climbed	—	✓	—	✓	—	✓	✓	✓
 Active Minutes	✓	✓	✓	✓	✓	✓	✓	✓
 Auto Exercise Recognition	—	—	—	—	✓	✓	✓	✓
 Multi-Sport	—	—	—	—	—	—	✓	✓
 Continuous Heart Rate	—	—	—	—	—	✓	✓	✓
 Caller ID	—	—	—	✓	✓	✓	✓	✓
 Text Notifications	—	—	—	—	✓	—	✓	✓
 Music Control	—	—	—	—	—	—	✓	✓
 GPS Tracking	—	—	—	—	—	—	—	✓

Platforms & Operative systems

- Technical features and available APIS
- How your applications is going to do money?

Platforms & Operative systems

- [Android Design guide](#)
- [IOS Design guide](#)
- [Windows Universal Design guide](#)

Platforms & Operative systems

- **Licensed**
- **Proprietary**
- **Open Source**

Application Frameworks



Trident



Internet Explorer

Gecko



Firefox

WebKit



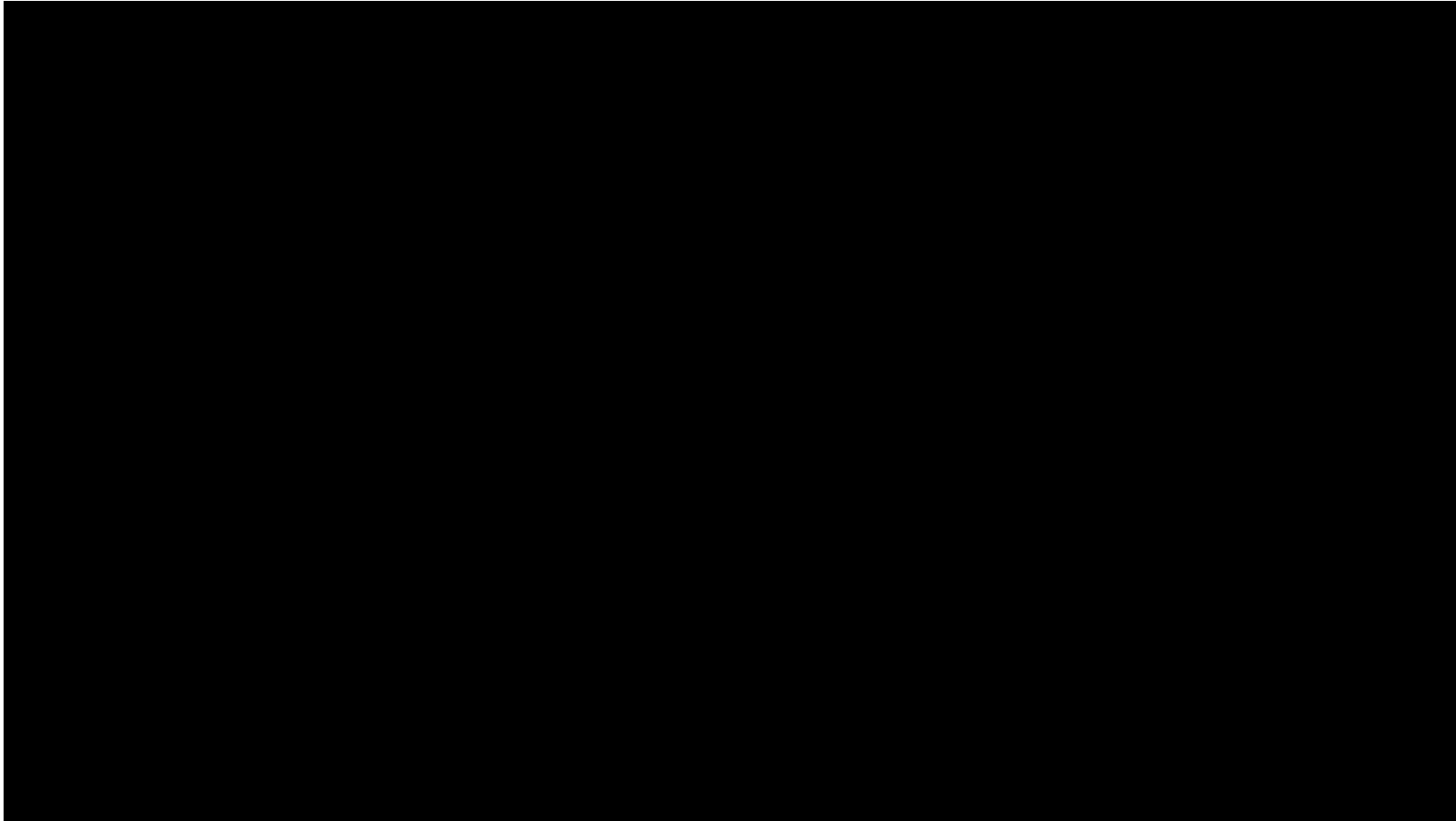
Chrome, Safari, iOS, Android, Qt, Blackberry, webOS, Kindle, etc.

Applications

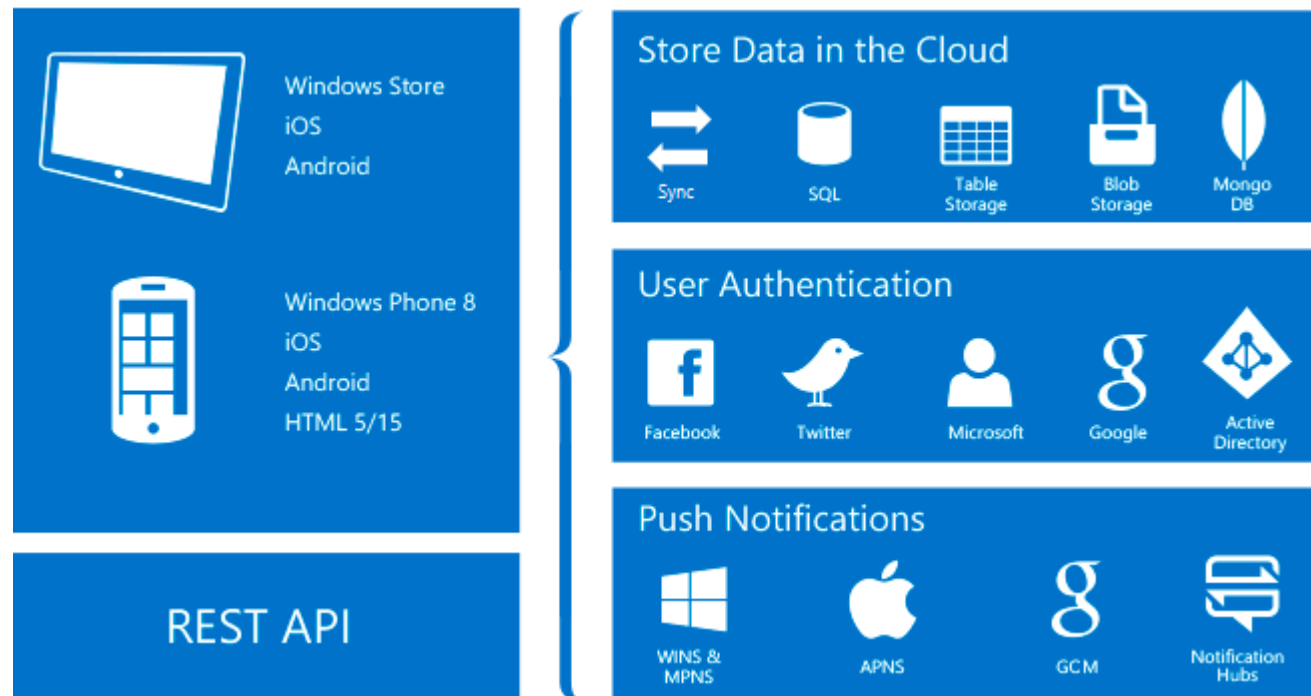


Services

Services – Google Play



Services - WUA



Users

