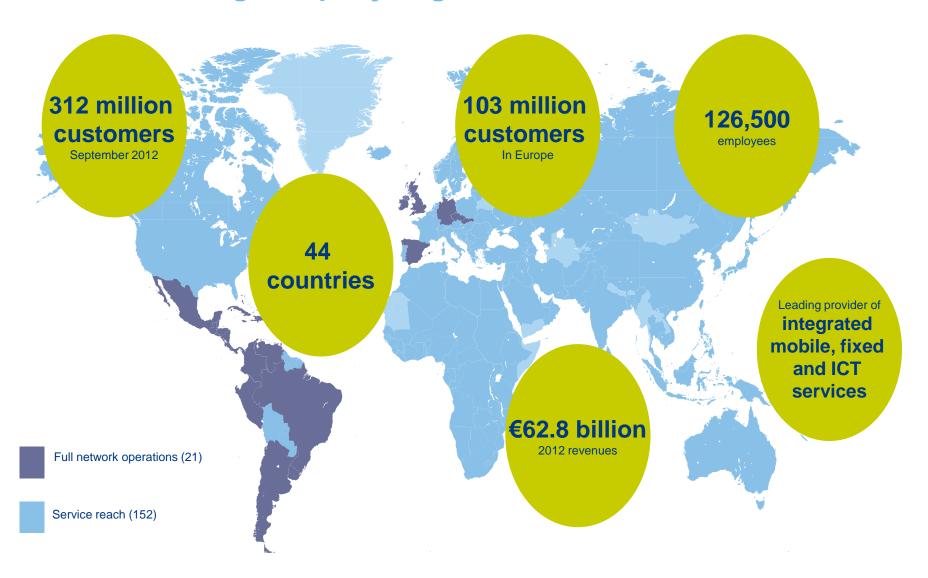
Internet for all

Dr Mike Short CBE FREng FIET Vice President – Telefonica Europe

mike.short@o2.com



We're a leading company in global Telecoms





Agenda

- + Market context Internet and mobile
- + Growth and new types of devices
- + Digitisation of services
- + Impact on the home
- + Conclusion

FINANCIAL TIMES

Mobile revolution marks fortieth year

By Daniel Thomas, Telecoms Correspondent



The first mobile phone call was made 40 years ago on a street in New York, a transformational moment in modern history that also marked the earliest known prank call, given the nature of the conversation between two rival engineers.

The two most significant developments in mobile phone technology have been the widespread availability of devices and their ability to access the internet. Short said.

"In the early days of mobile made for men in suits in bus much later.

"And t emarte Since April 3, 1973, the world has und The world is celebrating the 40th anniversary of the i

with the introduction of increasingly liphone. devices meaning that few now can clai On April 3, 1973, Motorola employee Martin Cooper mad

It was on a Motorola DynaTAC - a device 9in tall, comprising 30 circuit boards, as

which had a talk-time of 35 minutes and took 10 hours to recharge.

mobile phone in New York to competitor AT&T, reported just to see if my call sounds good at your end".

BBC ONE

disation was not considered. It was on followed

theguardian

more about data

long.

IET's Dr Mike Short was on BBC #Newsround today talking about the 40th anniversary of mobile phones pic.twitter.com/zfb74KjrJz

03/04/2013 19:45







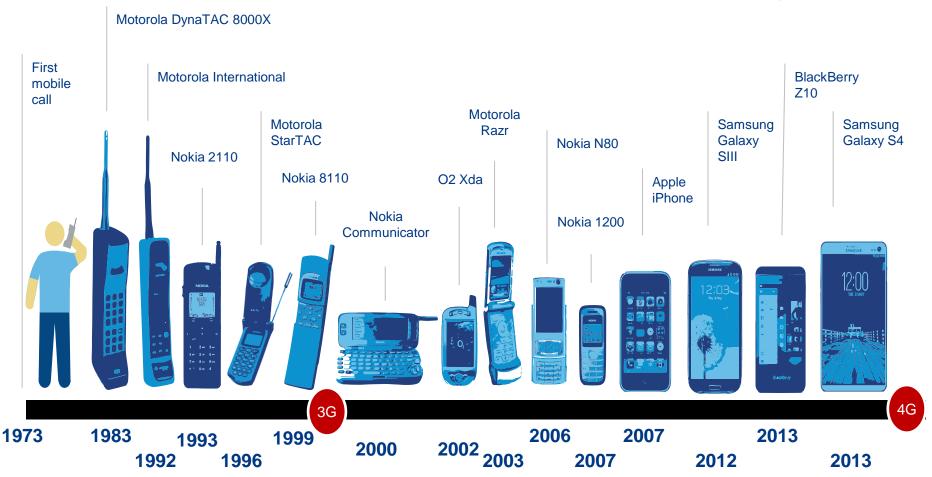




The mobile phone turns 40

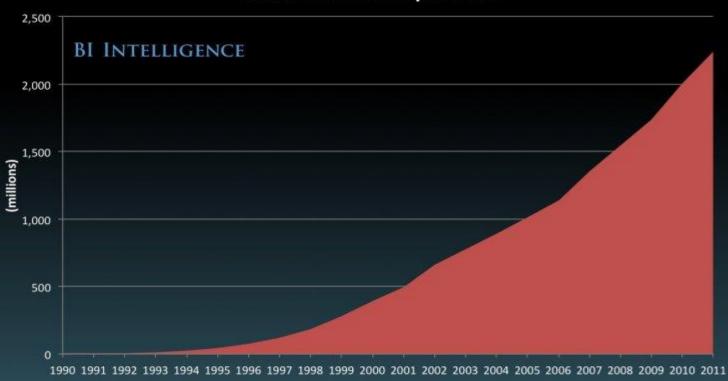
"Everyone now has the power to innovate in a digital world thanks to the marriage between the two great innovation platforms of the 21st century: internet and mobile."

Dr. Mike Short, Financial Times, April 2013



2+ billion people online

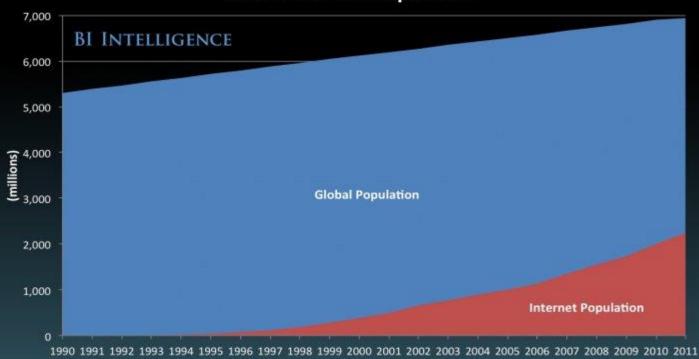
Global Internet Population



Source: International Communication Union, Google

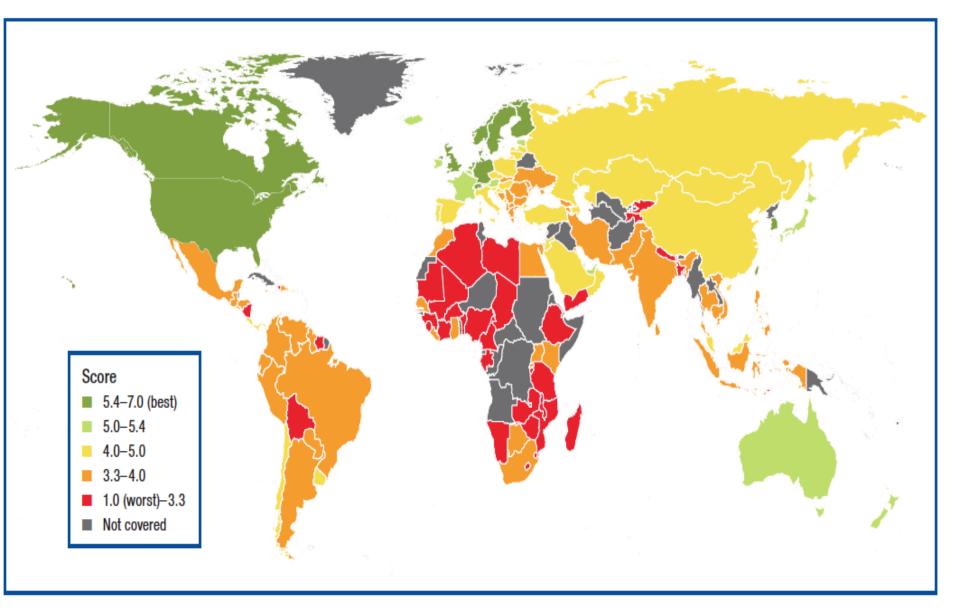
2/3 of the world left to go

Global Internet Population



Source: International Communication Union, Google

Figure 4: The Networked Readiness Index map

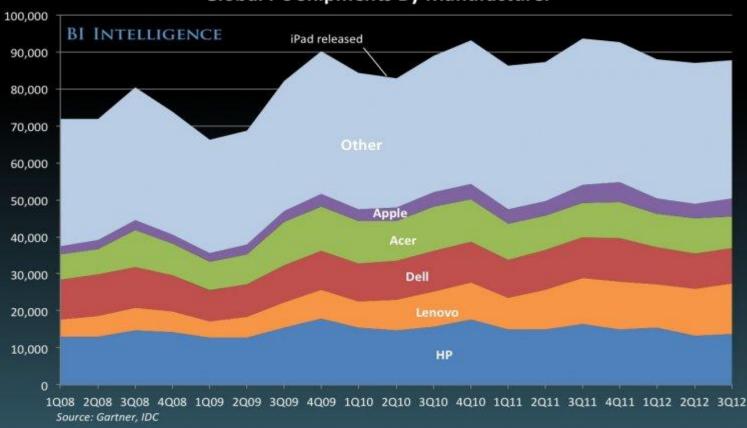


Note: An interactive version of this map is available at www.weforum.org/gitr.

)

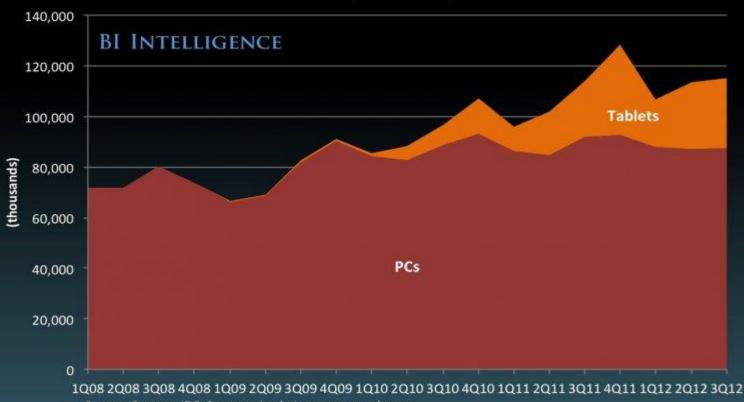
PC growth stalled

Global PC Shipments By Manufacturer



Tablets are now driving all the growth in PC market

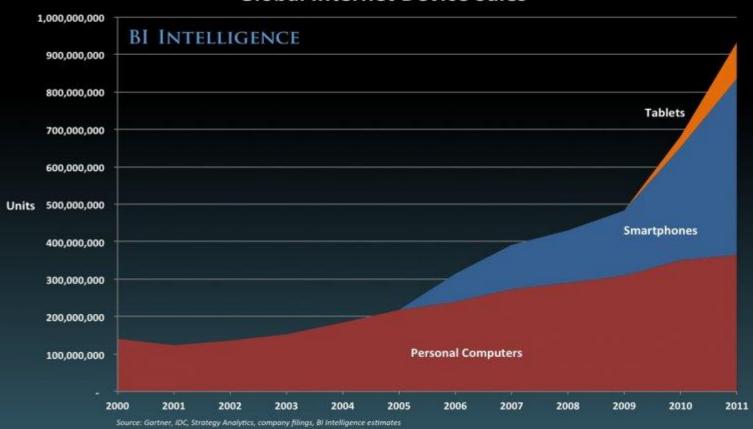
Global Computer Shipments



Source: Gartner, IDC, Strategy Analytics company releases

Smartphone sales blew past PC sales

Global Internet Device Sales



So the future is mobile

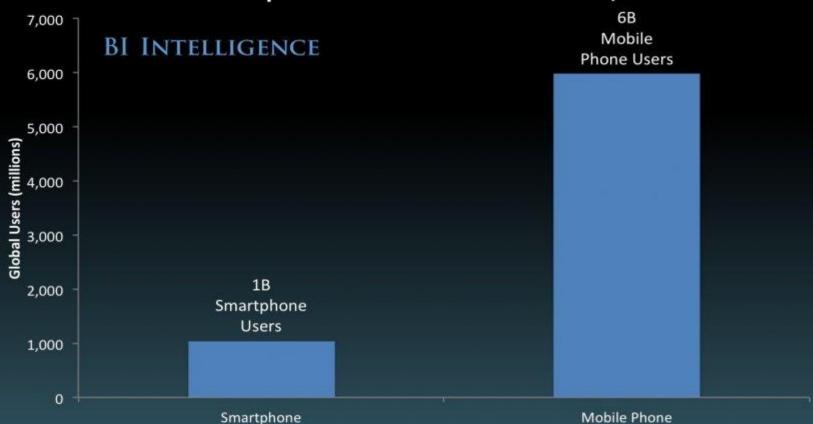
G-20 Internet Access



Source: Boston Consulting Group, Mary Meeker, Kleiner Perkins, Morgan Stanley Research, Berg Insight

Globally, we're still early...

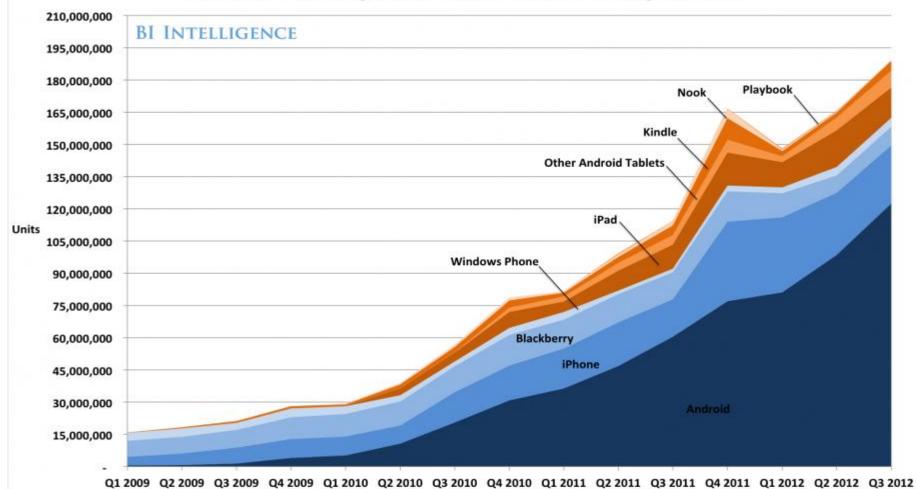
Global Smartphone vs. Mobile Phone Users, 2012E



Source: Strategy Analytics, International Telecommunications Union

Note: Some users own more than one device

Global Smartphone and Tablet Shipments



Source: Estimates based on information from Gartner, IDC, Strategy Analytics, and company filings

Digital is now a 4-screen world...



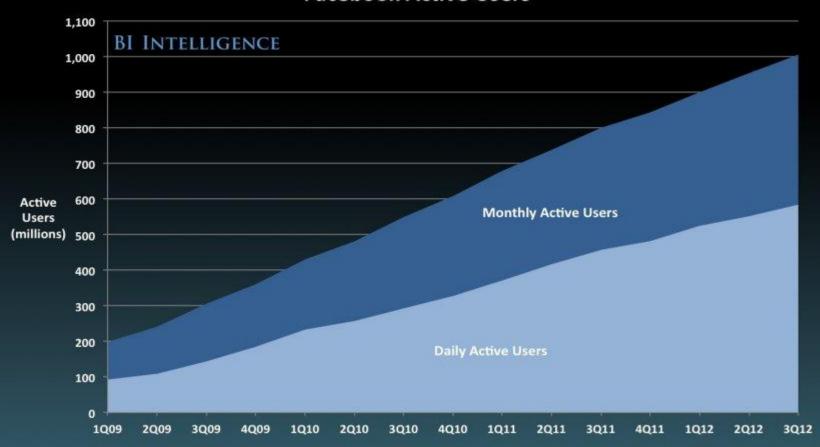






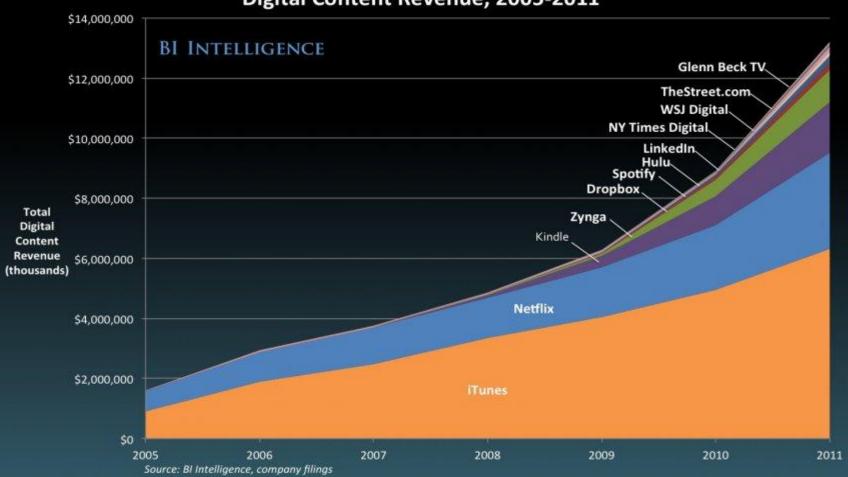
1/7th of the world's population now use Facebook

Facebook Active Users



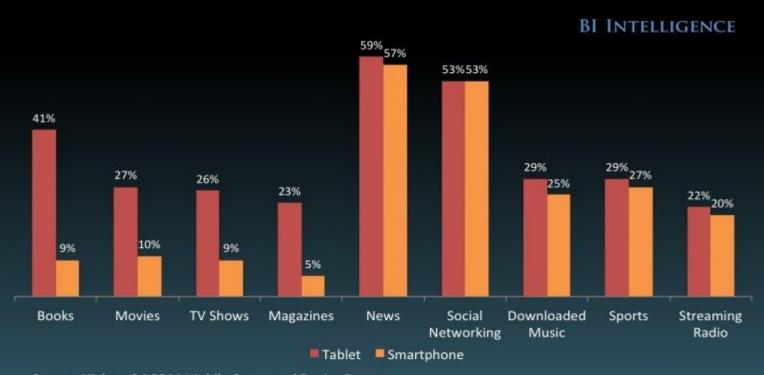
Digital content revenues are exploding





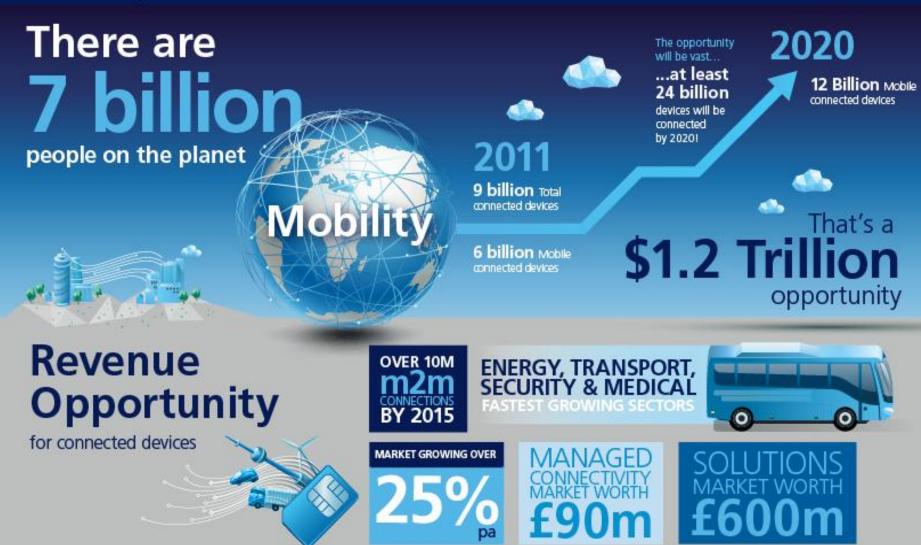
People are consuming a huge amount of content through mobile...

Media Content Accessed Through Mobile Device



Source: Nielsen Q4 2011 Mobile Connected Device Report

A new digital revolution



The next revolution



It's already started









Sat Nav

Public Transport

Point of sale Transactions

Fitness and heart monitors

Live data for traffic congestion Real time information displays at bus stops and on vehicles Cash free with a tap/swipe Track your vital signs













All delivered in the unique O₂ way...

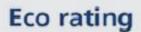




























And we are here to stay































Conclusion

- Mobile and Internet services continue to innovate and grow
- Tablets and smartphones outstrip PC sales
- Connected devices open up to new markets in the Digital economy
- Homes and cities getting smarter
- Digital economy will continue to grow and diversifya solutions focus is key.

- With thanks to Business Insider, GSM Association, and the Institution of Engineering and Technology (IET)
- The full Business Insider slide deck can be viewed at; http://www.businessinsider.com/future-of-digital-slides-2012-11?op=1
- The Opportunity for Mobile Operators Guide to Smart Cities
- http://www.gsma.com/connectedliving/smart-cities
- Connected Living in Smart Home
- http://www.gsma.com/connectedliving/wp-content/uploads/2012/03/vision20of20smart20home20report.pdf
- www.gsma.com
- mike.short @ o2.com

Further references

- The Mobile Economy http://www.gsma.com/
- World economic forum April 2013 report http://www3.weforum.org/docs/WEF_GITR_Report_2013.pdf

- BBC SCIENCE MUSEUM interview 4/04/2013 http://www.bbc.co.uk/news/technology-22012720
- BBC MARTY COOPER interview
- http://www.bbc.co.uk/news/technology-22013228
- 7 Questions about Mobiles
- http://www.bbc.co.uk/news/magazine-22016173



Impact on the home

- Security / alarms
- Home working
- Mobile learning
- Media or family data storage
- Connected appliances
- Telecare
- Remote patient management
- Assisted living /sensors
- Maintenance and related services
- Energy and water management

Our world continually evolves...







Our distinctive approach has helped us become market leaders

O₂

23 MILLION 25+ YEARS
CUSTOMERS OF EXPERIENCE

TOP 20 MOST RECOGNISED AND TRUSTED BRANDS

BEST NETWORK EIBN+ INVESTMENT

AWARD WITHING



313 MILLION CUSTOMERS OVER €608N TURNOVER

•

44 COUNTRIES, 1M+ M2M CONNECTIONS

•

#1 FORTUNE 500 most romined teleco's

84

#1 TELECO DOLU JONES
SUSTRINABILITY INDEX

Smart meters are more than just a better way to read the meter







Infrastructure challenges

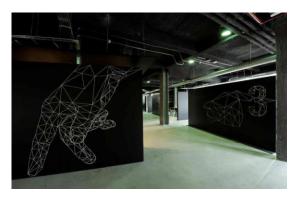
- More than networks and shops
- Sustainable investment and quality
- Network coverage / capacity / speed / access / ease of use and support
- Planning for the Digital economy covers a much wider range of sectors and services, but much more than Apps!

Wayra moves quickly



- Launched in April 2011, Wayra now has 12 Academies in 11 countries
- With Prague soon to come
- Wayra has received more than 14,000 applications from entrepreneurs
- Wayra has invested in over 170 businesses
- The external investment received by the Projects now far outweighs Telefonica's

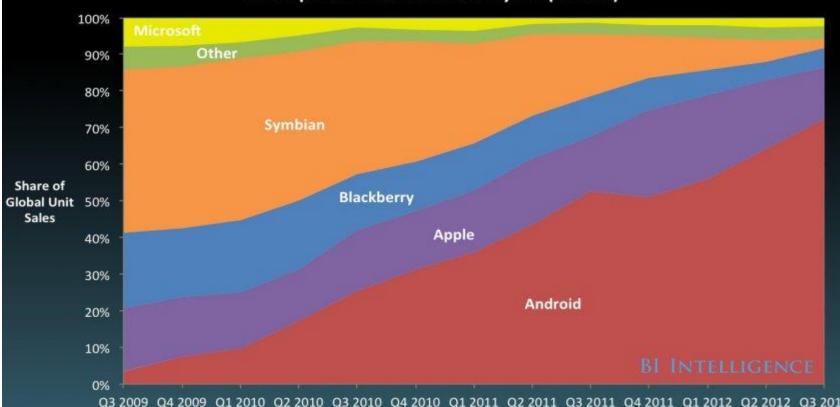






Android has the largest smartphone platform globally.

Smartphone Market Share By OS (Global)

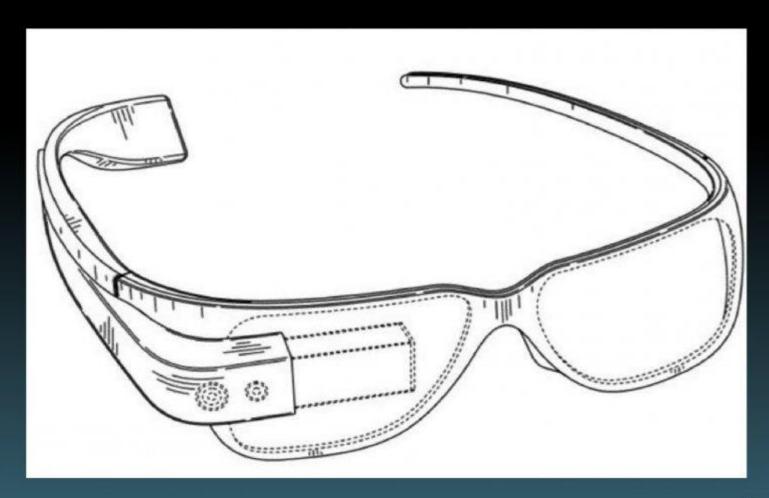


Q3 2009 Q4 2009 Q1 2010 Q2 2010 Q3 2010 Q4 2010 Q1 2011 Q2 2011 Q3 2011 Q4 2011 Q1 2012 Q2 2012 Q3 2012

Source: Gartner

BUSINESS INSIDER

Maybe 5 screens soon...



App Store downloads on pace to hit 6o billion by mid-2013

Apple App Store Downloads

