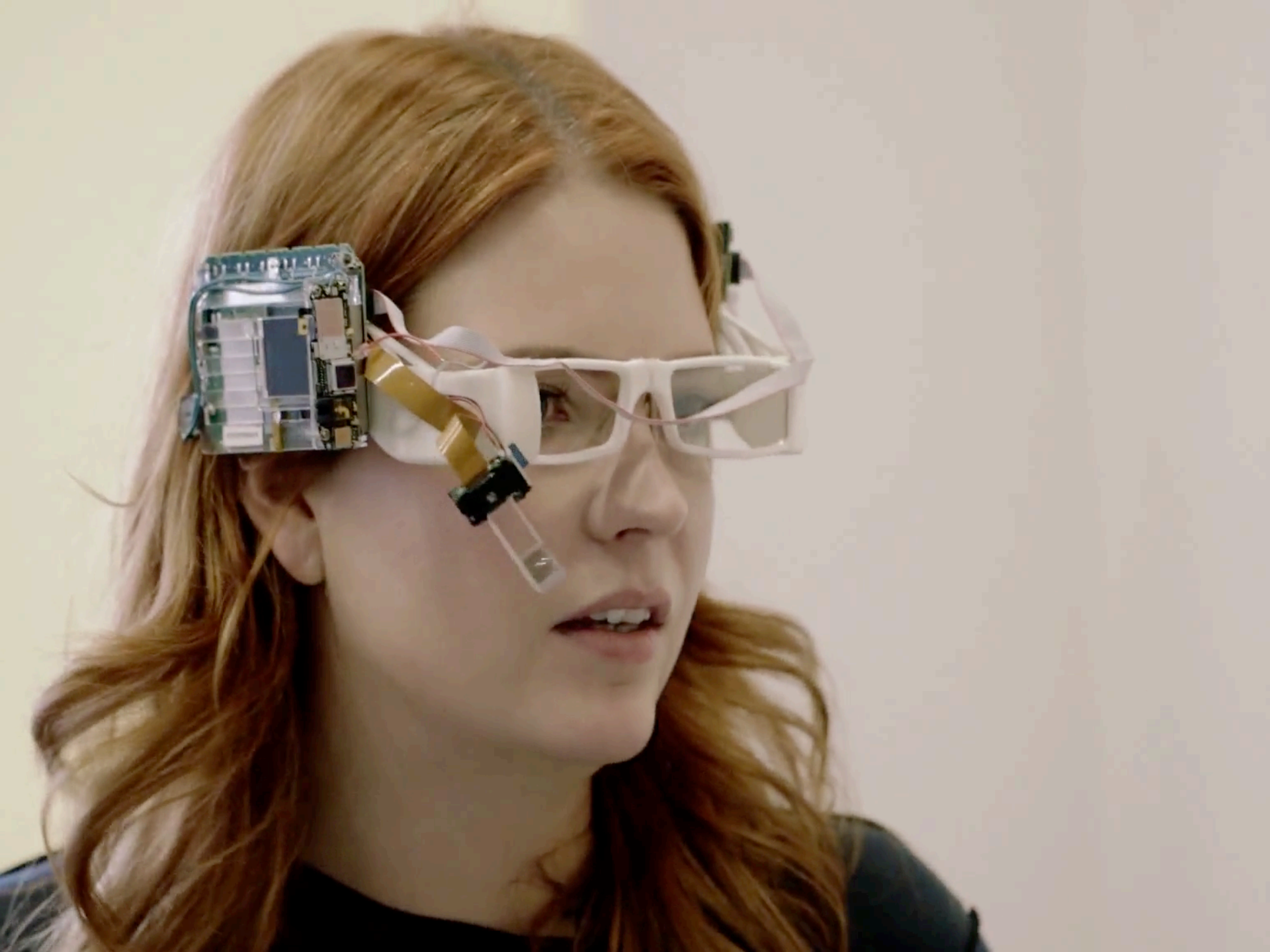




**VI JORNADAS** SOBRE  
TECNOLOGÍAS y SOLUCIONES PARA  
LA **AUTOMATIZACIÓN INDUSTRIAL**  
Vigo, 3 al 7 de NOVIEMBRE de 2014

Universidade de Vigo | Escola de  
Enxeñaría Industrial









What are "Wearable Technologies"?





# Watches



Pebble (159 USD)



SONY SmartWatch (179 USD)



SAMSUNG Galaxy  
Gear Smartwatch (259 USD)



Limmex Senator (649 USD)



Resultados de Google Shopping para **samsung sma...** Enlaces Patrocinados ⓘ



**Samsung**  
Galaxy Gear ...  
**76,25 €**  
PcComponen...



**Smartwatch**  
**Samsung ...**  
**224,90 €**  
eBay



**SmartWatch**  
**Samsung ...**  
**214,49 €**  
MobileFun.es



**Samsung Gear**  
Neo 2 ...  
**269,99 €**  
eBay



**Reloj Samsung**  
...  
**160,00 €**  
eBay



**Reloj Inteligente**  
...  
**285,00 €**  
eBay



**Reloj inteligente**  
...  
**205,67 €**  
LIFE Informáti...



**Samsung Gear**  
2 Neo ...  
**149,99 €**  
eGlobal Cent...





Resultados de Google Shopping para **sony smart w...** Enlaces Patrocinados ⓘ



**Sony**  
smartwatch 1  
**69,90 €**  
Madrid HiFi



Reloj  
SmartWatch ...  
**48,50 €**  
Chollitos



**Sony SW2**  
SmartWatch 2  
**122,99 €**  
telco-tec-spain



**Sony Inteligente**  
...  
**159,00 €**  
eBay



**Sony**  
Smartwatch  
**98,71 €**  
eBay



Reloj Android  
**Sony ...**  
**138,99 €**  
MobileFun.es



**Sony**  
SmartWatch 3  
**229,99 €**  
eXpansys Eu...



**Sony**  
Smartwatch 2  
**157,00 €**  
eBay

**Apple WATCH** Disponible en 2015





# Glasses



Liquid Image (199 USD)



Liquid Image WIFI (399 USD)



Liquid full HD (299 USD)



Buhel SpeakGlasses (210 USD)

# Clips On - Pocket



Blood Pressure(129 USD)



Back posture (149 USD)



Golf swing (130 USD)



Whitings Pulse (99 USD)



Fitbit Activity (60 USD)



Helmet (159 USD)

# Wristbands



Fitbit (99 USD)



ICEdot Band (15 USD)



Phyode (159 USD)

Measures your mental state, agility and your ANS age



# Glasses to come



Epiphany EyeWear 299 USD

# Glasses to come



pre-order for \$2,985

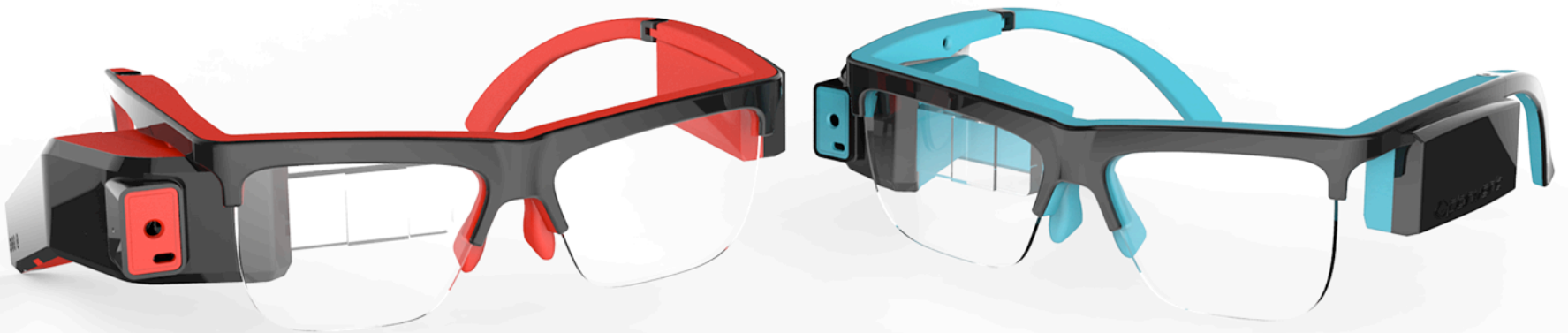
# Glasses to come



Recon JET 599 USD



# Glasses to come



Optinvent Ora 300 USD

# Glasses to come



# Glasses to come



VUZIX 1.500 USD

# Glasses to come



Telepathy One

# Glasses to come





# Glasses to come



# Glasses to come

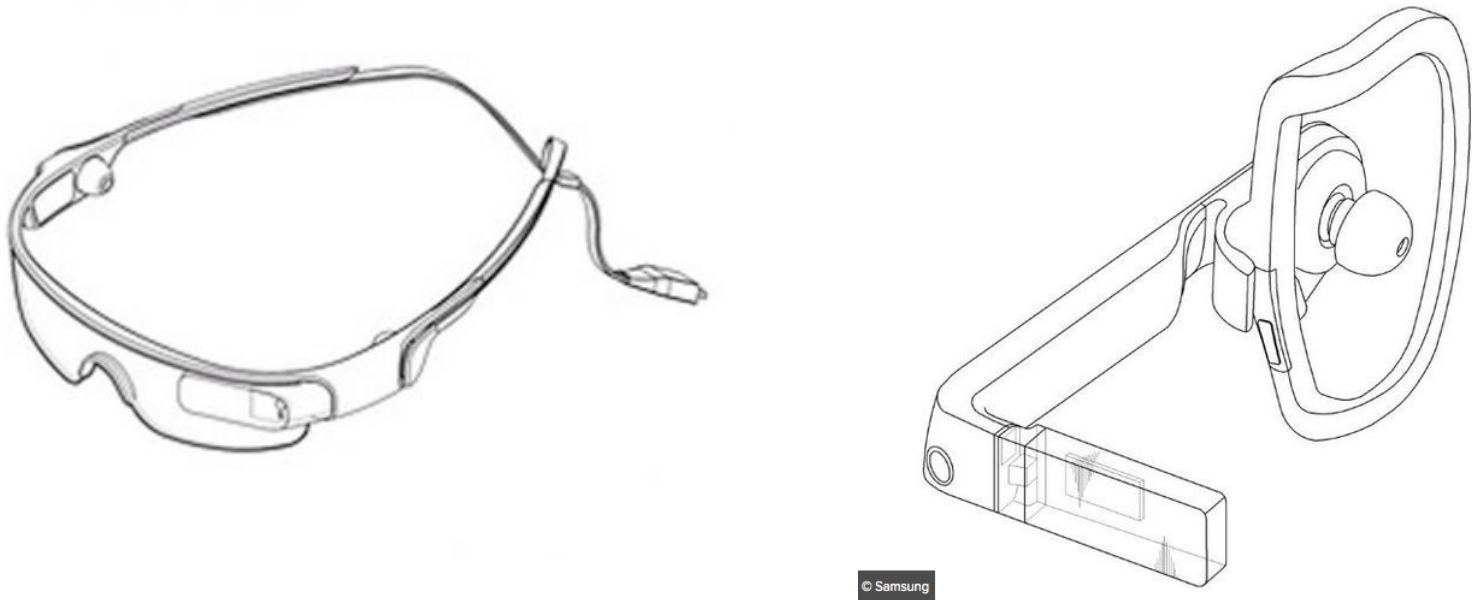


# Glasses to come



SAMSUNG Gear VR

# Glasses to come



SAMSUNG Patents

# Glasses to come

**iGlass**  
Reality reinvented

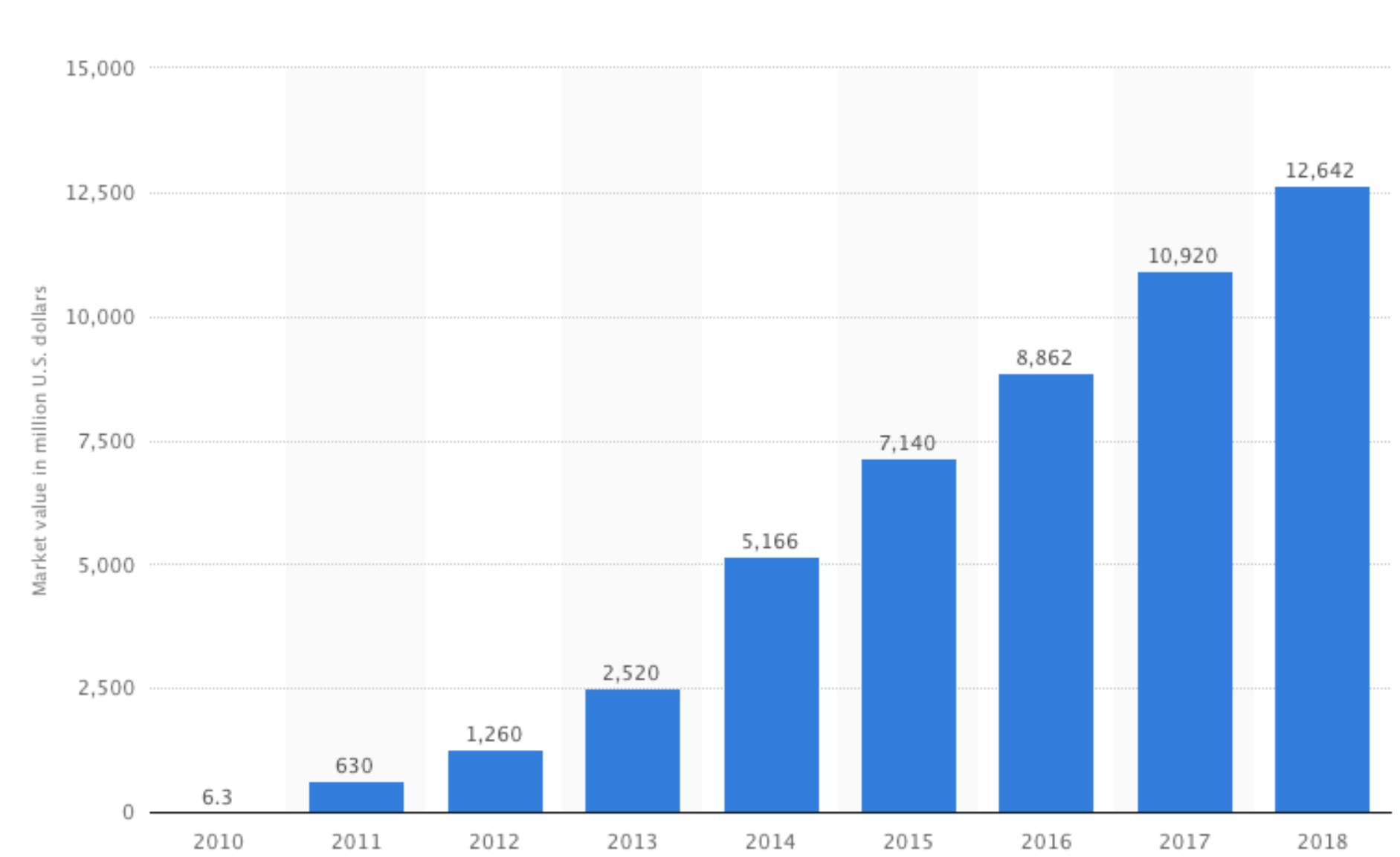


Apple

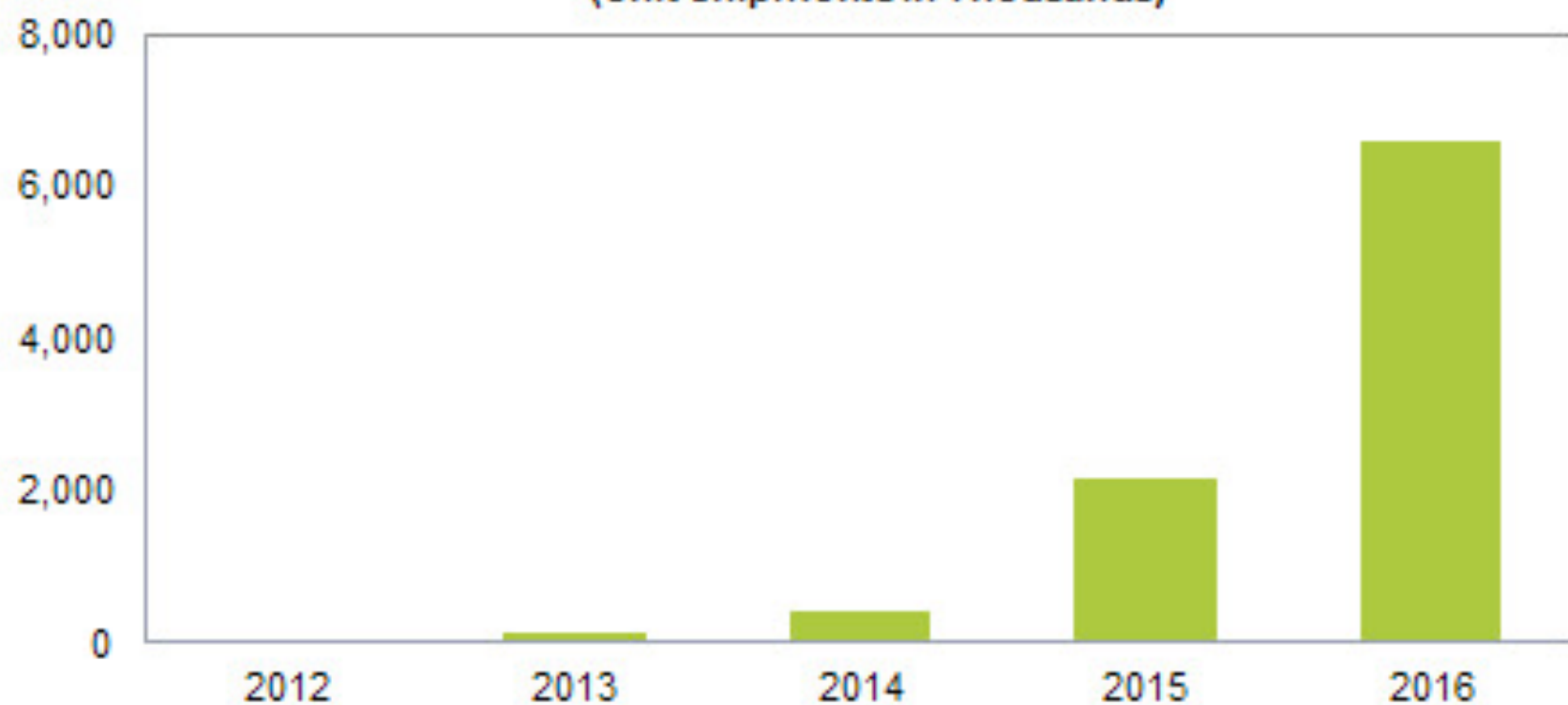




Wearable device market value from 2010 to 2018 (in million U.S. dollars)



**High-End Forecast of Worldwide Shipments of Smart Glass Products  
(Unit Shipments in Thousands)**



*Source: IHS IMS Research April 2013*

What is Google Glass?



# Google Glass





# Google Glass



# Google Glass



## Display

High resolution display is the equivalent of a 25 inch high definition screen from eight feet away.

## Camera

Photos - 5 MP

Videos - 720p

## Audio

Bone Conduction Transducer

## Connectivity

Wifi - 802.11b/g

Bluetooth

## Storage

12 GB of usable memory, synced with Google cloud storage. 16 GB Flash total.



## Battery

One full day of typical use. Some features, like Hangouts and video recording, are more battery intensive.

## Charger

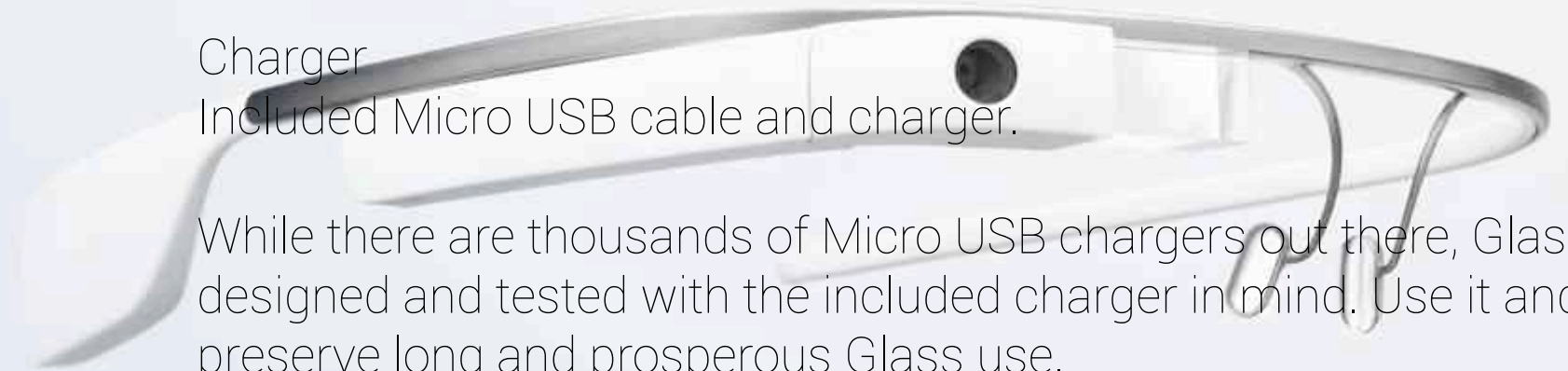
Included Micro USB cable and charger.

While there are thousands of Micro USB chargers out there, Glass is designed and tested with the included charger in mind. Use it and preserve long and prosperous Glass use.

## Compatibility

Any Bluetooth-capable phone.

The MyGlass companion app requires Android 4.0.3 (Ice Cream Sandwich) or higher. MyGlass enables GPS and SMS messaging.



# Google Glass Sensors





# Google Glass Sensors

## Supported

A pair of Google Glass is shown horizontally. The left temple has a list of supported sensors, and the right temple has a list of unsupported sensors. The central frame of the glasses is white, and the temples are black.

- Accelerometer
- Gravity
- Gyroscope
- Light
- Linear acceleration
- Magnetic field
- Orientation (Deprecated)
- Rotation vector

## Not Supported

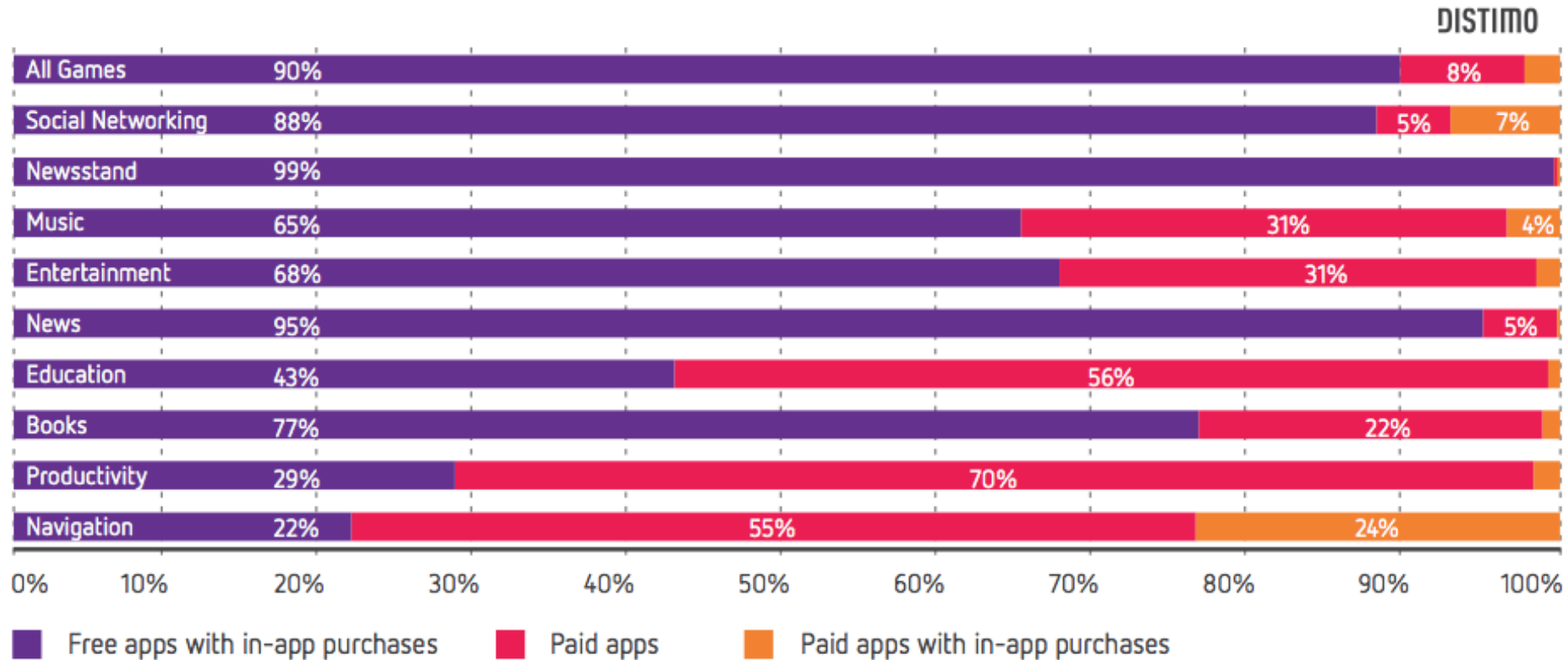
- Ambient temperature
- Pressure
- Proximity
- Relative humidity
- Temperature

Not GPS (get GPS by  
a mobile connected  
to the glasses by  
bluetooth)

¿Qué son las "apps"?



# Apps Market



# Apps Market

## Top 10 Free Apps in the Apple App Store

Globally aggregated over 2013

	App	Publisher
1.	 Candy Crush Saga	King.com Limited
2.	 YouTube	Google, Inc.
3.	 Google Maps	Google, Inc.
4.	 Temple Run 2	Imangi Studios, LLC
5.	 Despicable Me: Minion Rush	Gameloft
6.	 Facebook	Facebook, Inc.
7.	 Instagram	Instagram, Inc.
8.	 Snapchat	Snapchat, Inc.
9.	 Subway Surfers	Kiloo
10.	 Find My iPhone	Apple

# Apps Market

## Top 10 Free Apps on Google Play

Globally aggregated over 2013

	App	Publisher
1.	 Facebook	Facebook
2.	 WhatsApp Messenger	WhatsApp Inc.
3.	 Skype - free IM & video calls	Skype
4.	 Facebook Messenger	Facebook
5.	 Candy Crush Saga	King.com
6.	 Instagram	Instagram
7.	 Subway Surfers	Kiloo
8.	 LINE: Free Calls & Messages	LINE Corporation
9.	 Temple Run 2	Imangi Studios
10.	 Twitter	Twitter, Inc.

# Apps Market

## Top 10 Paid Apps in the Apple App Store

Globally aggregated over 2013

	App	Publisher
1.	 WhatsApp Messenger	WhatsApp Inc.
2.	 Minecraft – Pocket Edition	Mojang
3.	 Pou	Paul Salameh
4.	 Temple Run: Oz	Disney
5.	 Plague Inc.	Ndemic Creations
6.	 Angry Birds Star Wars	Rovio Entertainment Ltd
7.	 Heads Up!	Warner Bros.
8.	 FIFA 13 by EA SPORTS	Electronic Arts
9.	 Where's My Water?	Disney
10.	 Pages	Apple



# Apps Market

## Top 10 Paid Apps on Google Play

Globally aggregated over 2013

	App	Publisher
1.	 SwiftKey Keyboard	SwiftKey
2.	 Titanium Backup PRO Key ★ root	Titanium Track
3.	 Minecraft - Pocket Edition	Mojang
4.	 Poweramp Full Version Unlocker	Max MP
5.	 Nova Launcher Prime	TeslaCoil Software
6.	 Beautiful Widgets Pro	LevelUp Studio
7.	 TuneIn Radio Pro	TuneIn
8.	 Root Explorer	Speed Software
9.	 Where's My Water?	Disney
10.	 HD Widgets	cloud.tv

¿Qué es itglas?





a company specialized in developing apps for Google Glass

FOCUS  
ON  
BUSINESS

GLASS  
EXPLORER  
AND  
DEVELOPER

TRACK  
RECORD

# 21.000.000

Google Glass units in 2018  
(BI Intelligence report)



6,8 Billion

**MOBILE PHONES (WORLDWIDE)**

Total Available Market

1,5 Billion

**SMARTPHONES (WORLDWIDE)**

Total Available Market

800.000

**APPS (WORLDWIDE)**

Total Available Market

iPhone: 2007  
Android: 2008

**25 Billion US\$**

Apps market volume 2013  
(Gartner Inc.)



# Partners



GLASS





## Our success in Caixabank



CaixaBank, S.A., is a Spanish financial services company Headquartered in Barcelona, with universal banking and insurance activities of the La Caixa group, along with the group's stakes in the oil and gas firm Repsol, Telefónica and its holdings in several other financial institutions. It is Spain's third-largest lender by market value and with 6,631 branches to serve its 13.2 million customers.



## Our success in Sanofi



Sanofi S.A. is a multinational pharmaceutical company headquartered in Paris, France, as of 2014 the world's fifth-largest by prescription sales.

Sanofi engages in the research and development, manufacturing and marketing of pharmaceutical drugs principally in the prescription market, but the firm also develops over-the-counter medication.



## Our success in SEAT



SEAT, S.A. is a Spanish automobile manufacturer with its head office in Martorell, Spain.

It is currently a wholly owned subsidiary of the German Volkswagen Group, as a member of the now-defunct Audi Brand Group, together with Audi and Lamborghini, and marketed as a car maker with a youthful sporty profile. Three-quarters of the annual production of SEAT is being exported to over seventy countries worldwide.



## Our success in Optima Facility Management



Optima Facility is a company specialized in the management and provision of a wide range of services of facility Management. With headquarters in Cornellà, near Barcelona, has subsidiaries in Spain, Abu Dhabi, Hong Kong and Shanghai.

Optima has been recently appointed at facility management provider of F.C. Barcelona with a project developed with Google Glass by itglas.



## Our success in Lufthansa



AirPlus International is a global provider of business travel payment solutions for corporations.

Many products are offered to support business travel payment, accounting, and analysis functions.

Lufthansa AirPlus Servicekarten GmbH only shareholder is Deutsche Lufthansa AG.



## Our success in Ferrovial

**ferrovial**

Ferrovial, S.A. is a Spanish multinational company involved in the design, construction, financing, operation (DBFO) and maintenance of transport, urban and services infrastructure.

It is a publicly traded company and is part of the IBEX 35 market value-weighted stock market index. The company headquartered in Madrid has more than 61.000 employees and year revenues of 8,176 million €.





## Our success in Catalonia Tourism Bureau

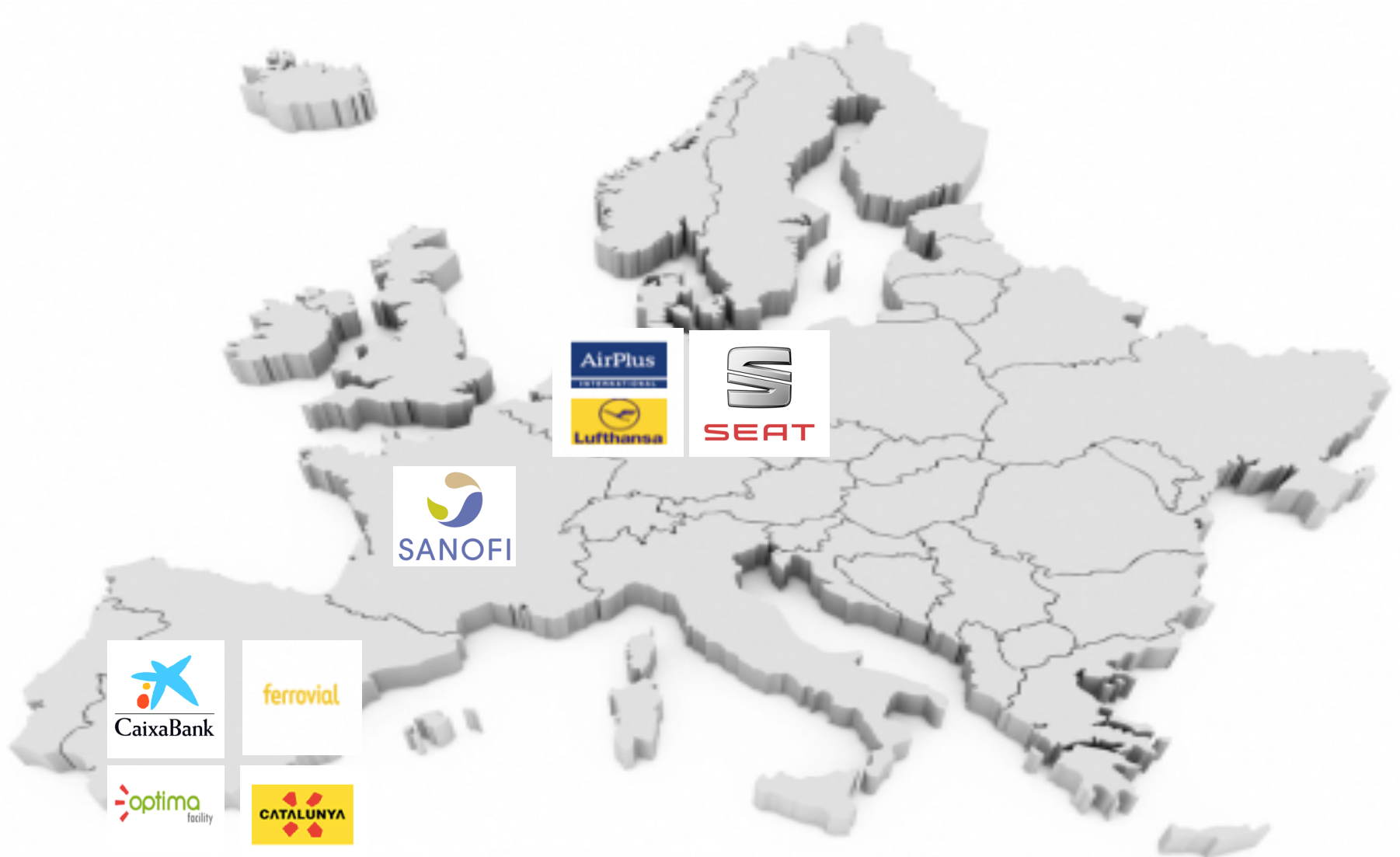


The Catalan Tourist Board was created as a body of the Government of Catalonia.

The purpose of the CTB is to promote Catalonia as a leading tourist destination based on quality and the social and economic profitability of the tourism industry.



## Our Clients





Thank you

www.itglas.es  
www.itglas.com



@JordiBoza  
@itglas

