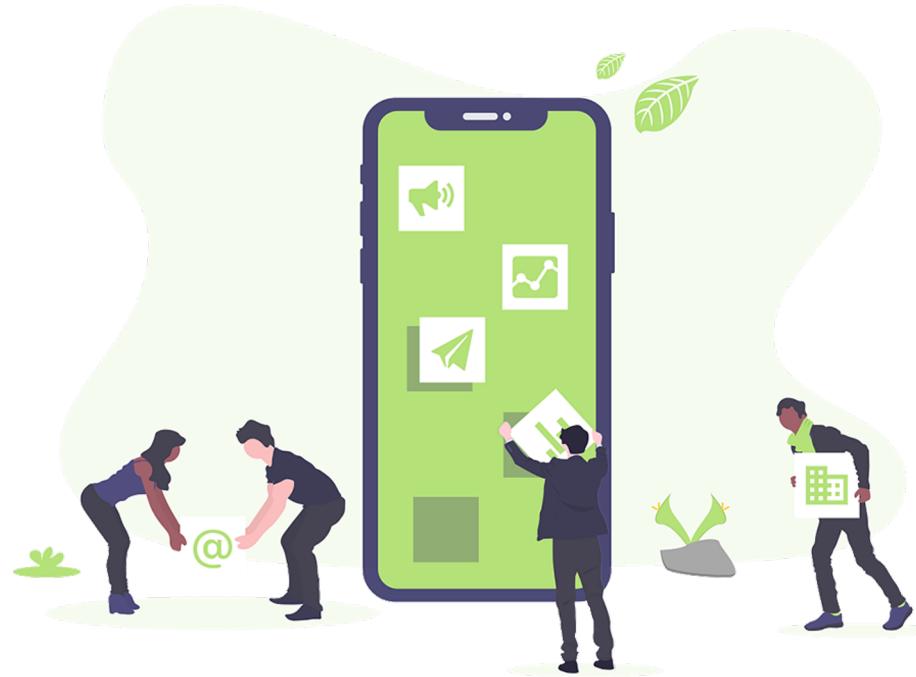


Wearables, Cloud y Ciencia de Datos

Francisco Manuel
García Moreno



Wearables



WRIST
WATCH



BUTTON
SPY CAMERA



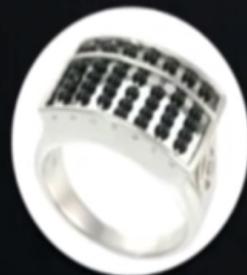
WEARABLE
COMPUTING



FITBIT
TRACKER



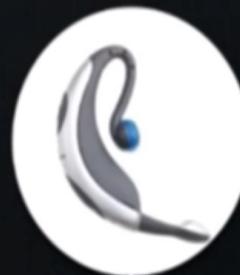
ABACUS
RING



GAMBLING
SHOE



BLUETOOTH
HEADSET



1571

1644

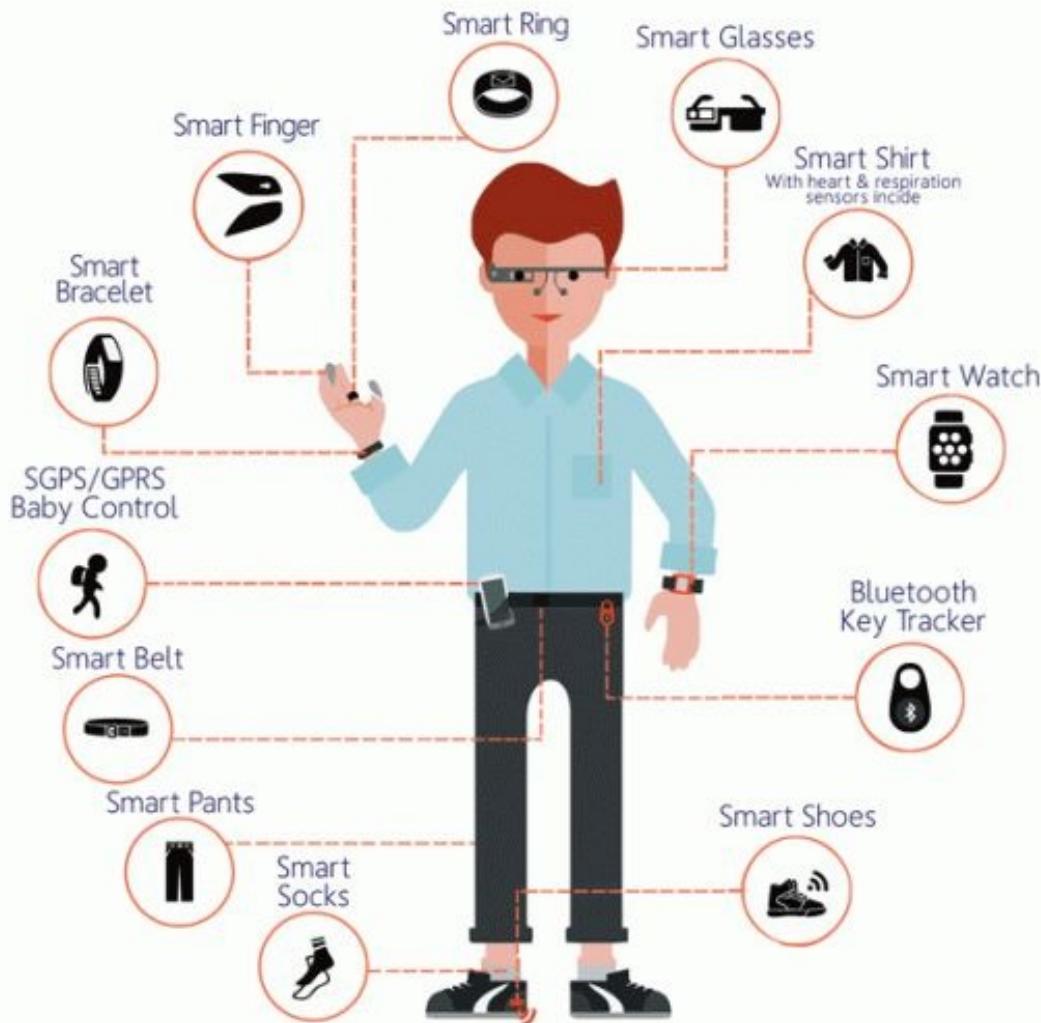
1950

1961

1979

2000

2009





ARROW
USA • 1851

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*Functions only on smartphones with NFC.

*T&C APPLY

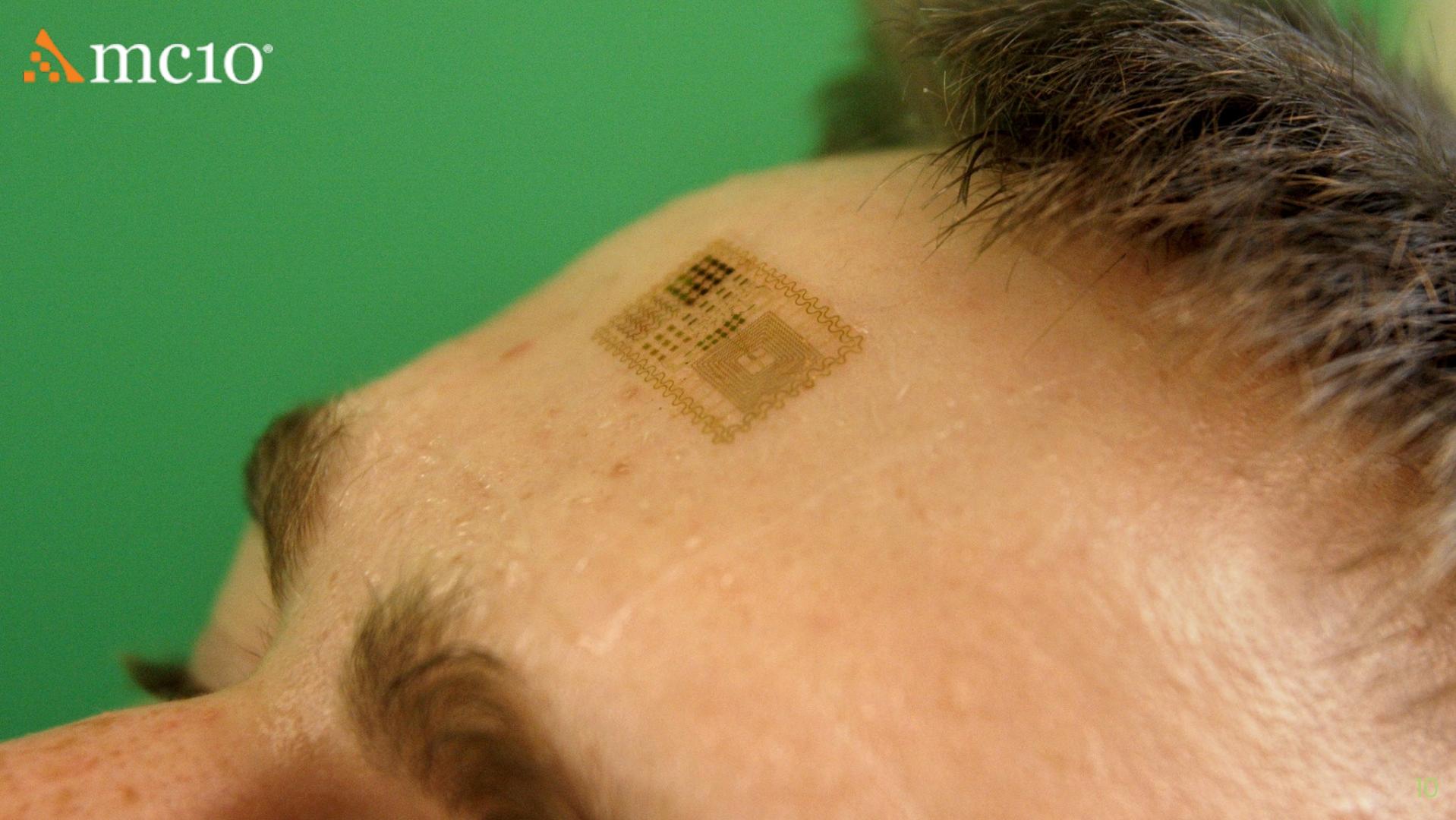




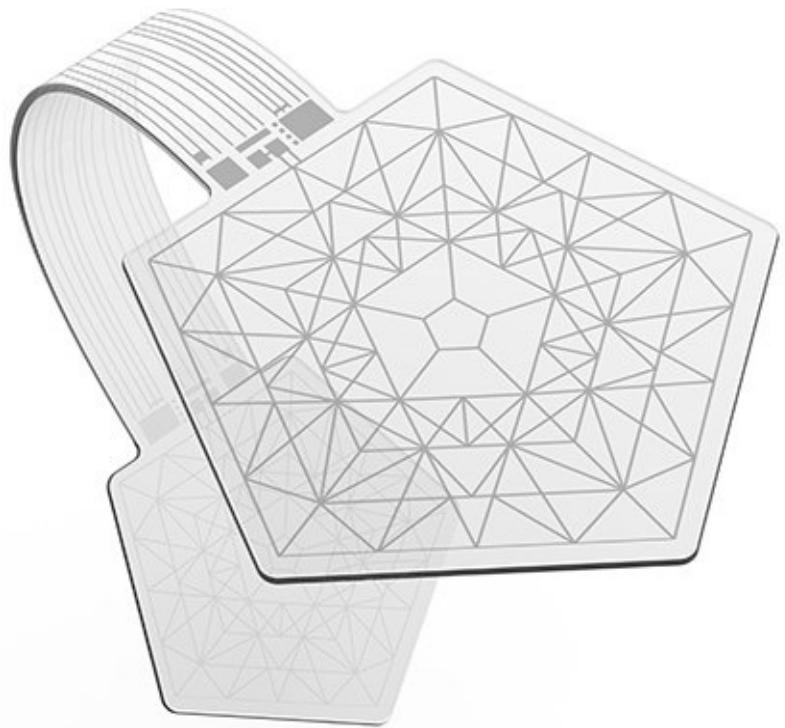
wimu®
• PRO

A grayscale X-ray image of a human hand, viewed from the underside. Two small, white, L-shaped surgical pins are visible, protruding from the skin on either side of the middle finger. The bones of the hand and fingers are clearly visible against the dark background.

Underskin



mc10®









¿Qué hacer con tantos datos?



- Análisis de datos (avisar de caídas)
- Análisis predictivos (avisos de riesgo de infartos)
- Lanzar eventos (encender luces al llegar a casa)





20.000 M

Dispositivos conectados en 2020



Gartner[®]

Internet of Things (IoT)

- Interconectividad de todo
- Recolectar datos de todo
- Apps de consumo
- Medicina y salud



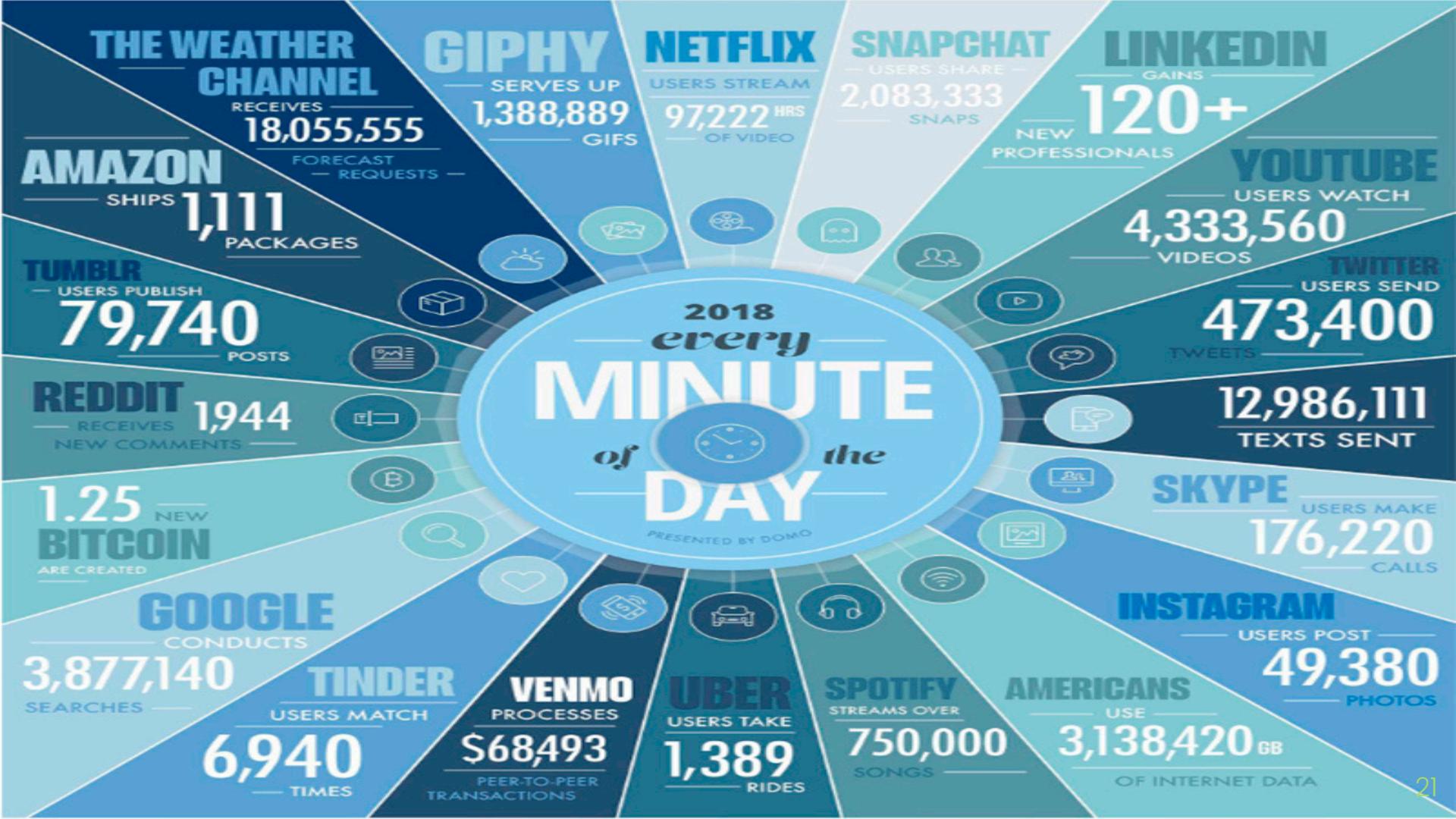
El Cloud

Todo conectado y almacenado
en la nube

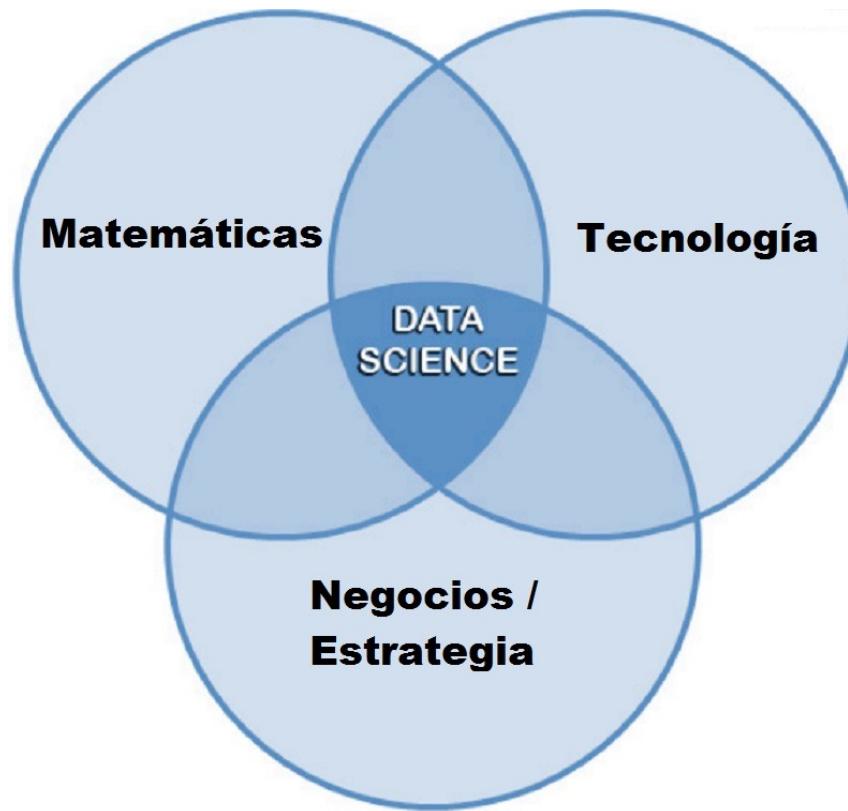


Tecnologías Cloud





Ciencia de datos



Machine Learning

- Inteligencia Artificial
- Imitar aprendizaje humano
- Aprender de datos históricos

Mannequin

Statue

Human

Dog

Bench



Mach

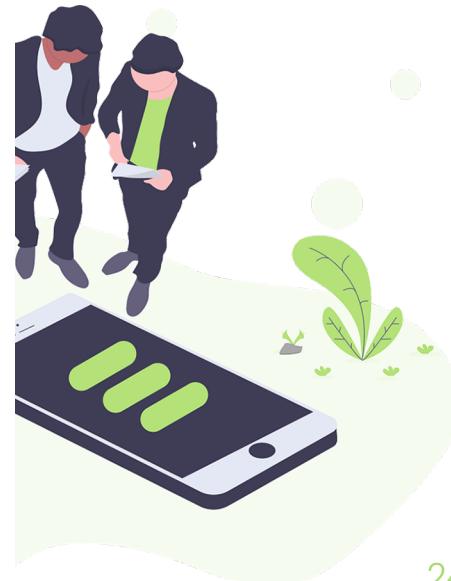
Inteligencia

1 Etiquetar



19/03/2019	06:08:59.258	3.491128	-3.345166	9.248260
19/03/2019	06:08:59.316	4.520042	-2.464607	7.886744
19/03/2019	06:08:59.533	4.311867	-2.593820	8.489735
19/03/2019	06:08:59.569	3.907479	-3.802195	9.267403
19/03/2019	06:08:59.638	4.292724	-2.385644	8.551948
19/03/2019	06:08:59.719	4.048656	-3.479164	8.793623
19/03/2019	06:08:59.827	3.878766	-3.479164	8.394022
19/03/2019	06:08:59.966	3.914658	-3.962514	8.315059
19/03/2019	06:09:00.29	3.926622	-3.538985	8.475377
19/03/2019	06:09:00.132	4.134798	-4.402793	8.037491
19/03/2019	06:09:00.245	3.543770	-3.589234	8.611769
19/03/2019	06:09:00.357	3.926622	-3.814159	8.394022
19/03/2019	06:09:00.425	3.627519	-3.208775	8.678767
19/03/2019	06:09:00.522	3.694518	-3.304488	8.456236
19/03/2019	06:09:00.620	3.653840	-3.136991	9.052048

stóricos



Demostración: Análisis de datos

- Pulsera [Empatica](#)



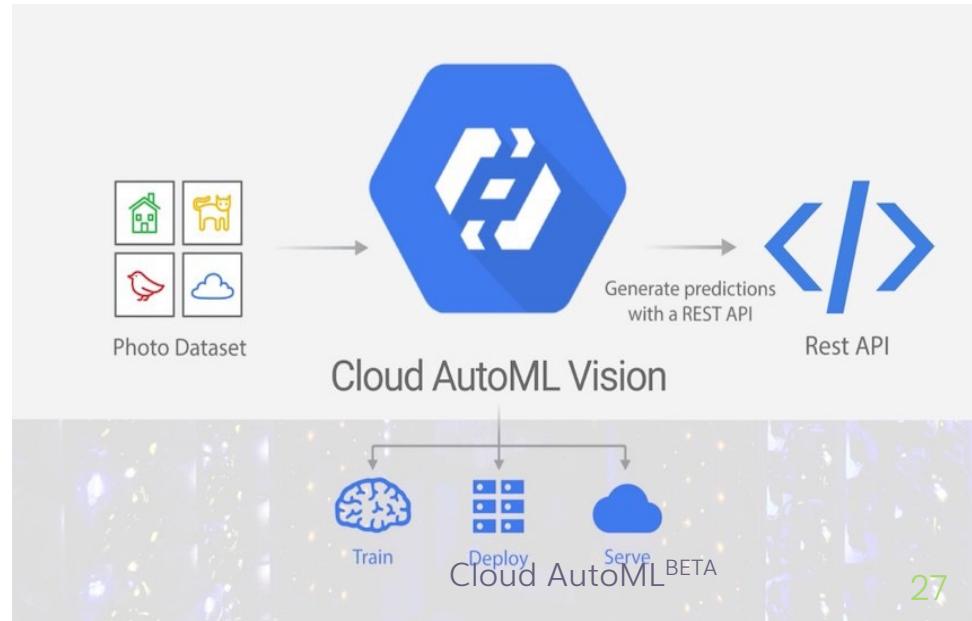
Guardar datos en servidor propio

- Xampp
- Configuración propia
- Programación
- Más tiempo de desarrollo

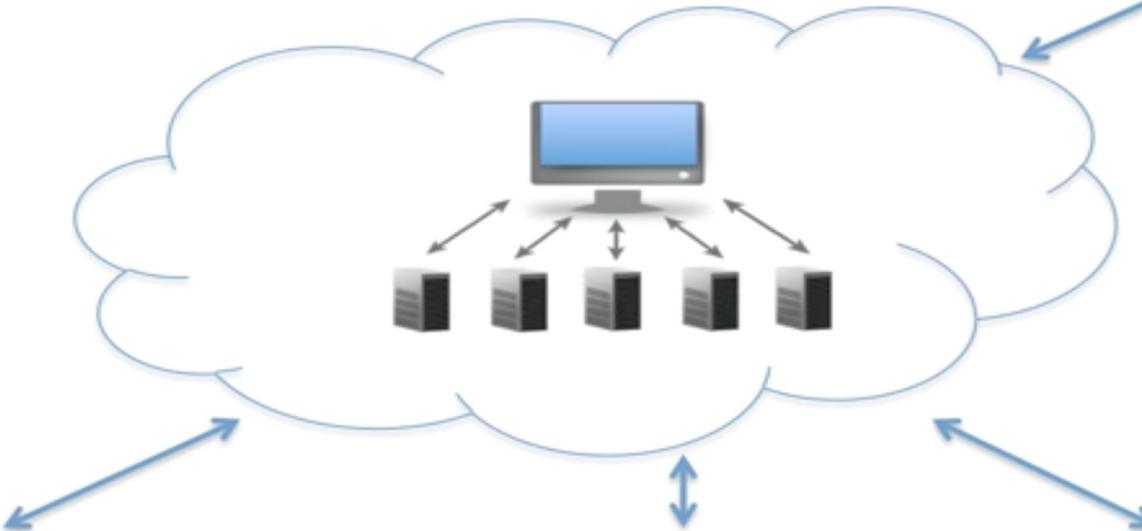


Machine Learning para todos (MLaaS)

- Democratización
- Google [Cloud Platform](#)
- Google [Cloud AutoML](#)^{BETA}
- [AutoML UI](#)



Privacidad



¡Gracias!

¿Preguntas?

- fmgarmon@ugr.es

