

# Las Telecomunicaciones y la Salud móvil en Andalucía

Javier Ferrero Álvarez – Rementería

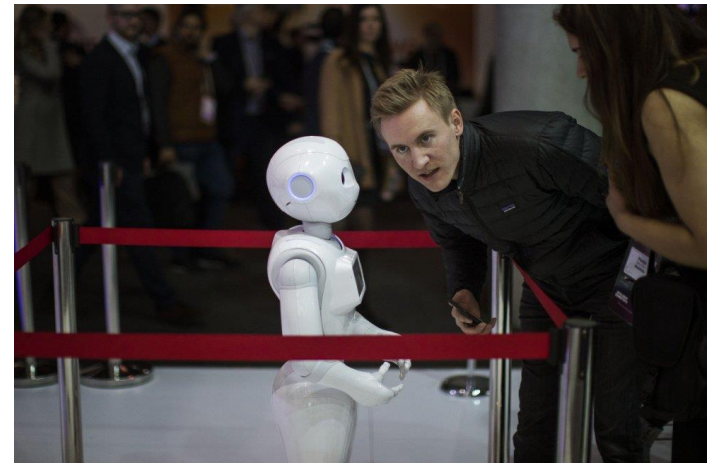
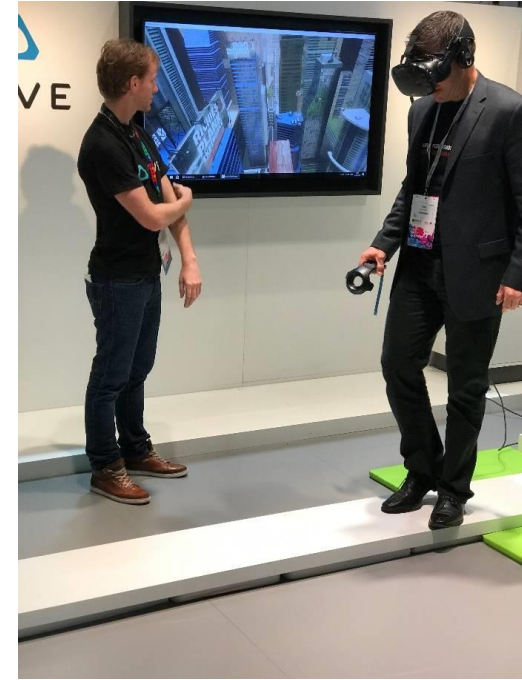
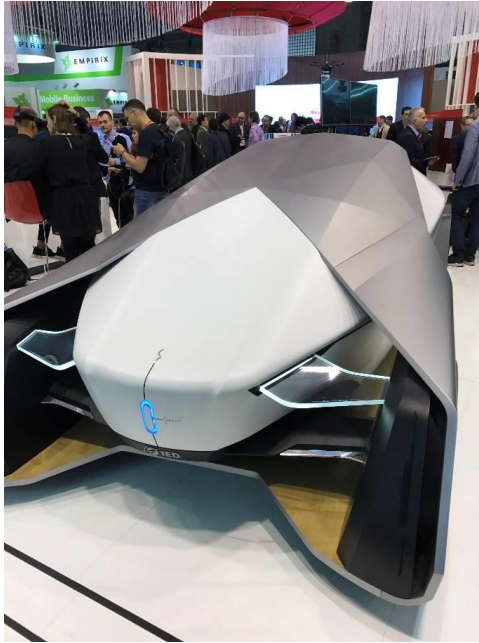


Agencia de Calidad Sanitaria de Andalucía



JUNTA DE ANDALUCÍA  
CONSEJERÍA DE SALUD Y FAMILIAS

# Tendencias...

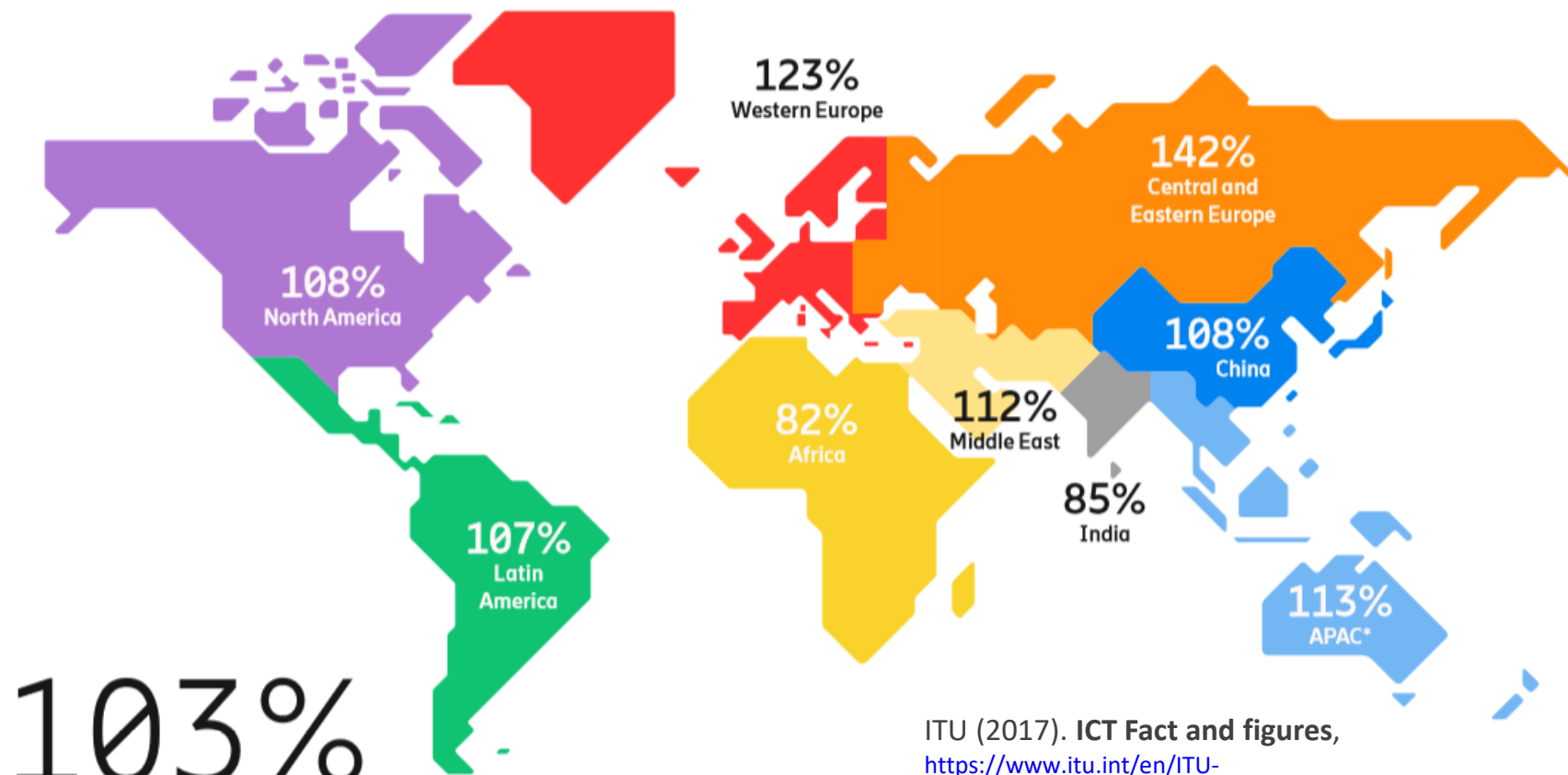


# ...Realidad





## The most prevalent technology on earth



# 103%

103 percent global subscription penetration in Q2 2018.

ITU (2017). ICT Fact and figures, <https://www.itu.int/en/ITU-D/Statistics/Pages/facts/default.aspx>, accessed 1 February 2018

# Comparaciones...



## mHealth

New horizons for  
health through mobile  
technologies

Based on the findings of the  
second global survey on eHealth

Global Observatory for  
eHealth series - Volume 3



**El uso de tecnologías móviles en el abordaje de problemas de salud puede transformar la manera en la que se prestan los servicios sanitarios en el mundo.**

## Speeding up detection to slow down Ebola: Smartphone app is game-changer for contact tracing in hotspots in the Democratic Republic of the Congo

Standing in front of her house, Kavira Kasomo chats with Léa Kanyere as if they are old friends. Kanyere shows Kasomo something on her mobile phone that makes her smile. Then Kanyere lends a hand as Kasomo hangs out her laundry.

No one around them seems suspicious of Kanyere.

The only sign that she may be more than a friend comes when she takes Kasomo's temperature. By the time Kanyere, a contract tracer working for the Ebola response, reaches the next household on her list, her supervisor sitting a few kilometres away in the health zone central office can already see Kasomo's temperature reading and other vital information.

Until recently, following up with people who have come into contact with Ebola was a complicated task for contact tracers like Kanyere, working in one of the epicentres of the Ebola outbreak in the Democratic Republic of the Congo (DRC), where suspicion can quickly reach a fever pitch.

"We used to use paper, filling out a form each day for every contact," she explains. "Then at the end of the day, we took the papers to our supervisors, who alerted the doctor if one of the contacts had signs of Ebola. It took a long time."

"Another big problem for me was security," adds Kanyere. Walking around carrying a folder of documents draws the attention of the contacts' neighbours, especially in a neighbourhood in which many people are suspicious of any official intervention.

Community resistance has been particularly strong in Mabolio. This has hindered the response. "Sometimes when I was carrying papers, I would be



[Click image to enlarge](#)

**For Additional Information or to Request Interviews, Please contact:**

Saya Oka  
Communications Officer, WHO Africa Health



*“La junta velará por la calidad y rigor de las aplicaciones médicas sanitarias para garantizar la seguridad de los ciudadanos.”*

*Rueda de prensa, 5 – oct - 2012*

## Compromiso con la **calidad**

### **DIARIO MEDICO**

ANDALUCÍA EVALUACIÓN DEL RIGOR

#### **La Junta presenta su estrategia para velar por la calidad de las 'app' móviles**

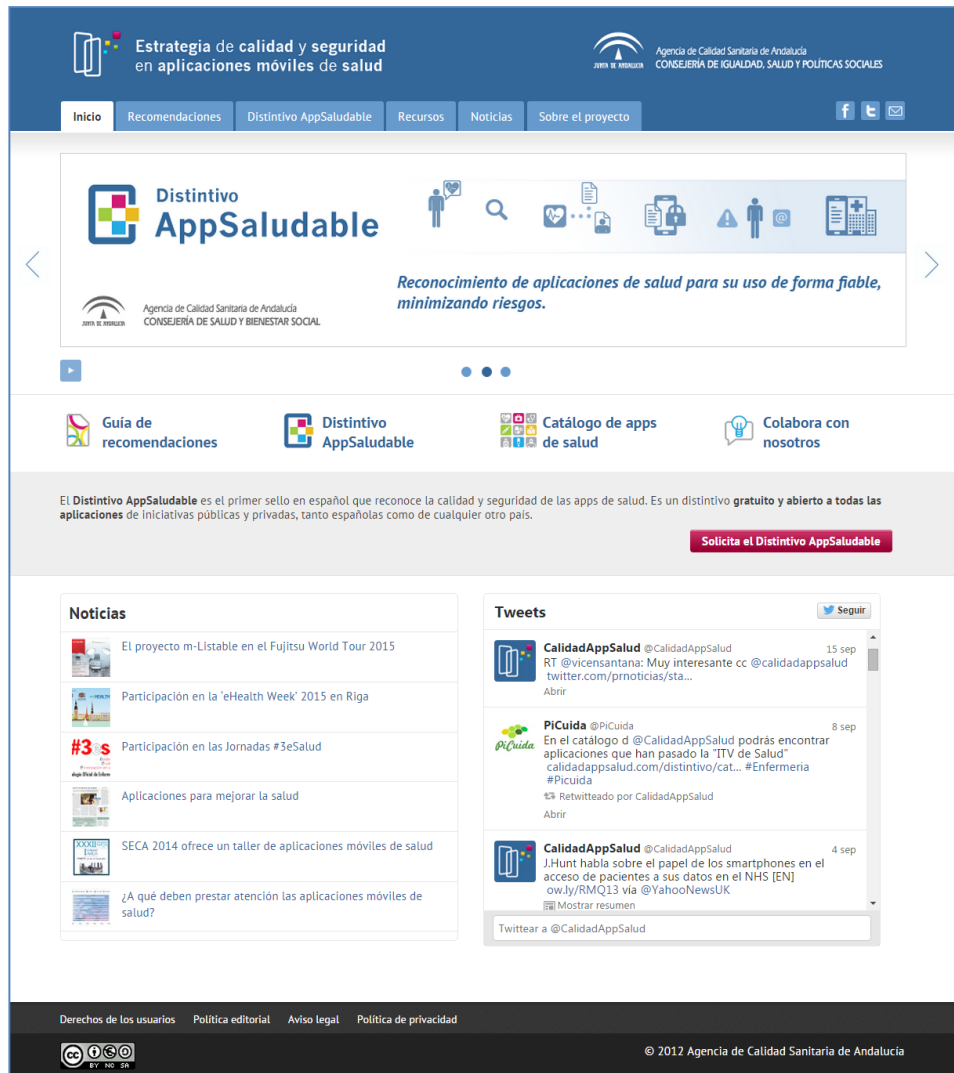
■ DM Sevilla resultado dos aplicaciones para *smartphone* creadas por la administración sanitaria y cuya descarga es gratuita. Se trata de *Pregunta por tu salud* y *RecuerdaMed*. La primera tiene la finalidad de ayudar al paciente a preparar sus consultas médicas, ofreciendo al ciudadano las herramientas



Desde 2012...

## Estrategia de calidad y seguridad de aplicaciones móviles de salud de Andalucía

[www.calidadappsalud.com](http://www.calidadappsalud.com)



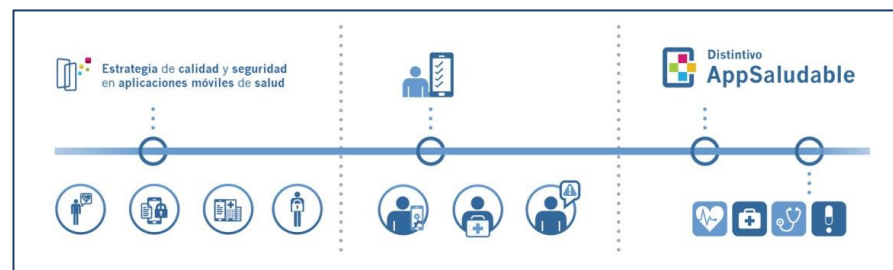
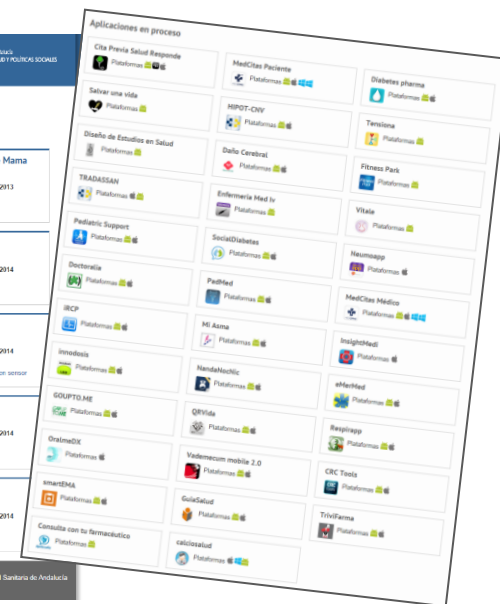
The screenshot shows the website's interface. At the top, there is a navigation bar with the following items: Inicio, Recomendaciones, Distintivo AppSaludable, Recursos, Noticias, and Sobre el proyecto. The main header features the logo for 'Distintivo AppSaludable' and the text: 'Reconocimiento de aplicaciones de salud para su uso de forma fiable, minimizando riesgos.' Below this, there are four main sections: 'Guía de recomendaciones', 'Distintivo AppSaludable', 'Catálogo de apps de salud', and 'Colabora con nosotros'. A central message states: 'El Distintivo AppSaludable es el primer seto en español que reconoce la calidad y seguridad de las apps de salud. Es un distintivo gratuito y abierto a todas las aplicaciones de Iniciativas públicas y privadas, tanto españolas como de cualquier otro país.' A red button below this message says 'Solicita el Distintivo AppSaludable'. The page is divided into two columns: 'Noticias' and 'Tweets'. The 'Noticias' column lists several articles with small images and titles. The 'Tweets' column shows a list of tweets from @CalidadAppSalud, including a retweet and a tweet about the 'ITV de Salud' catalog. At the bottom, there is a footer with links for 'Derechos de los usuarios', 'Política editorial', 'Aviso legal', and 'Política de privacidad', along with a Creative Commons license logo and the copyright notice '© 2012 Agencia de Calidad Sanitaria de Andalucía'.

<http://www.calidadappsalud.com/distintivo-appsaludable>



Desde 2013...

- Gratuito.
- Abierto a iniciativas públicas y privadas.
- Apps nacionales e internacionales.



Andalucía

## Convenio de Vodafone: invertirá más de 243 millones para impulsar las TIC en Andalucía



- ▶ La presidenta de la Junta y el presidente de Vodafone España firman un convenio por el que la operadora acelerará el despliegue de la banda ancha ultrarrápida móvil (4G) o pretende crear un centro de I+D+i en Big Data, entre otras cuestiones.

Agencias - SEVILLA

16/09/2014 - 20:13h

 Compartir 50

 Me gusta

 Twittear 29

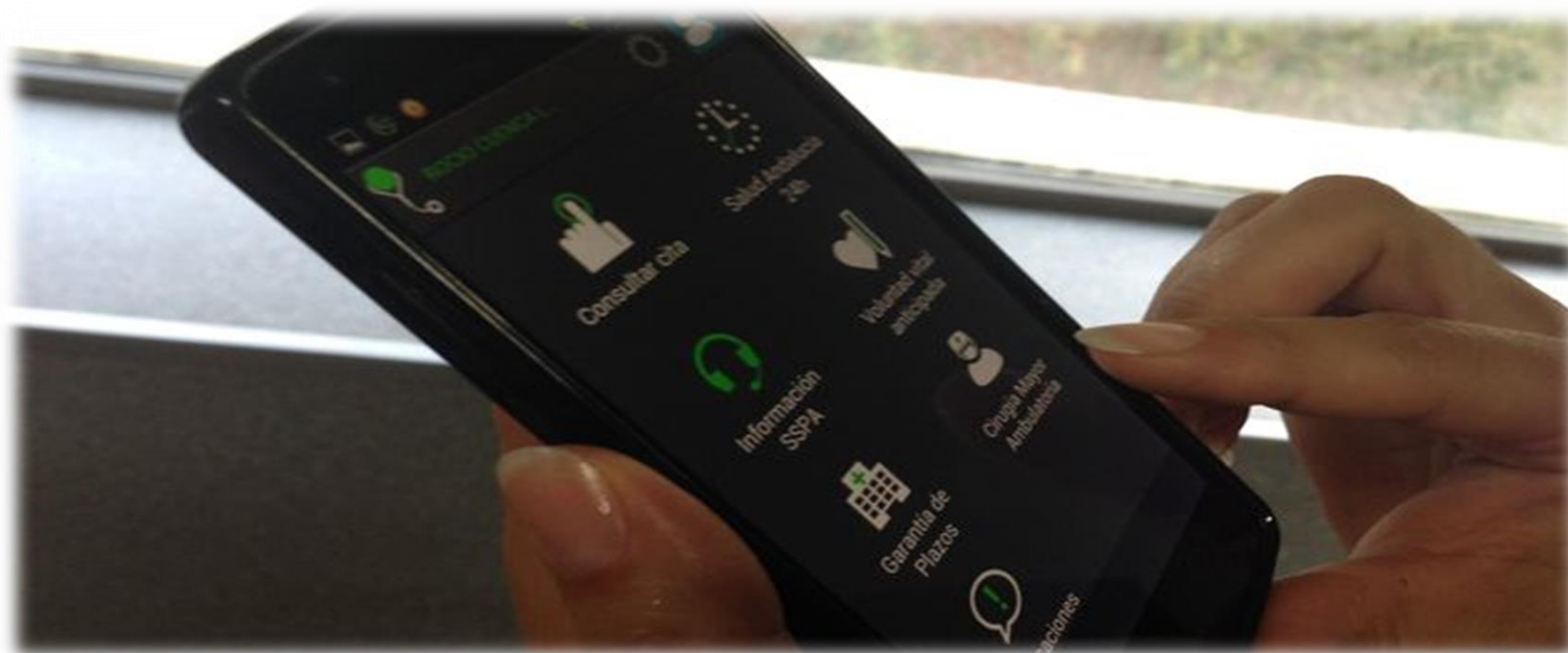
### Plataforma de Servicios y Aplicaciones Móviles en Salud

En virtud de los términos del convenio, Vodafone desarrollará una plataforma software para permitir la interconexión de terceros a los sistemas del Sistema Sanitario Público de Andalucía (SSPA) y generar así un ecosistema de innovación basado en servicios móviles, lo que consolidará el liderazgo nacional e internacional del SSPA en el entorno del 'e-health' (salud en línea) y el 'm-health' (salud en movilidad).

El desarrollo de esta plataforma permitirá ofrecer servicios personalizados a los ciudadanos en movilidad y la creación de 'apps' para que los profesionales cuenten con nuevas vías ágiles de interacción con los pacientes, lo que conllevará una mejor optimización de los procesos asistenciales y de los recursos públicos. En esta iniciativa se invertirán 600.000 euros en los próximos dos años.

En Andalucía...

**28%** de la población andaluza



**>17.000.000**

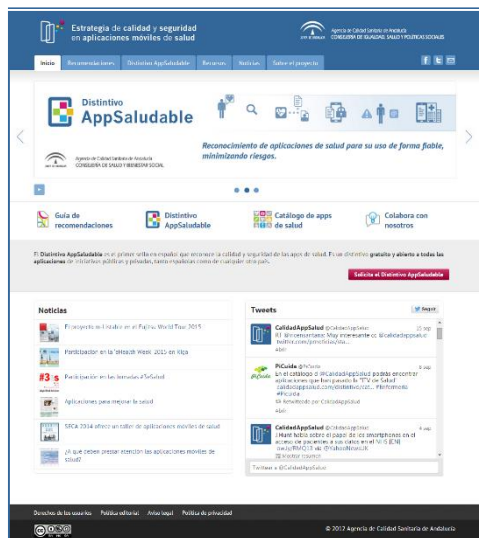
contactos via app Ene-Jun



## Estrategia Salud móvil de Andalucía

2014 - 2019

### Evaluación



[www.calidadappsalud.com](http://www.calidadappsalud.com)

### Integración de servicios



mSSPA  
Fase 1

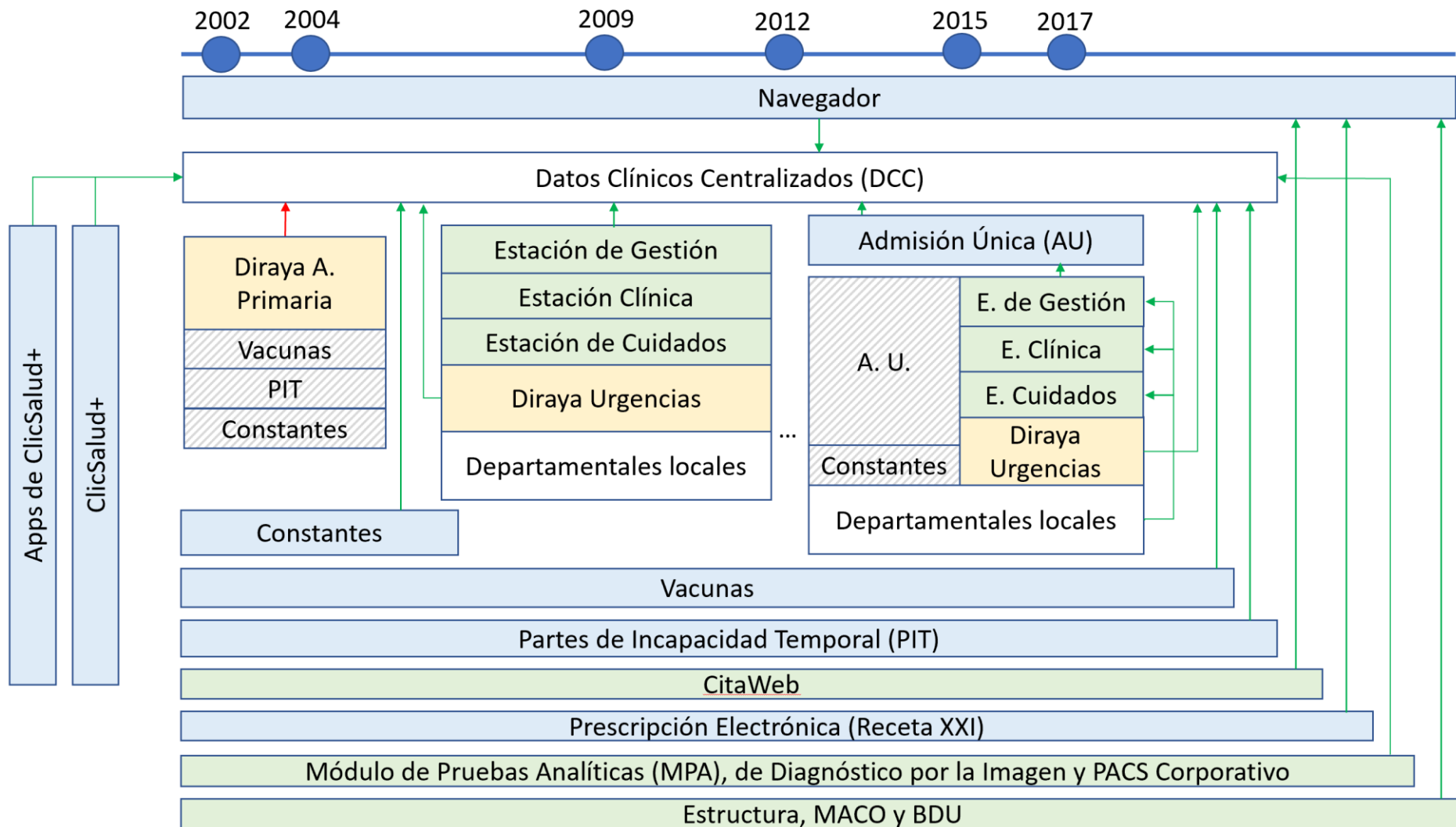
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## Estrategia Salud móvil de Andalucía

2014 - 2019



...



2014 - 2019

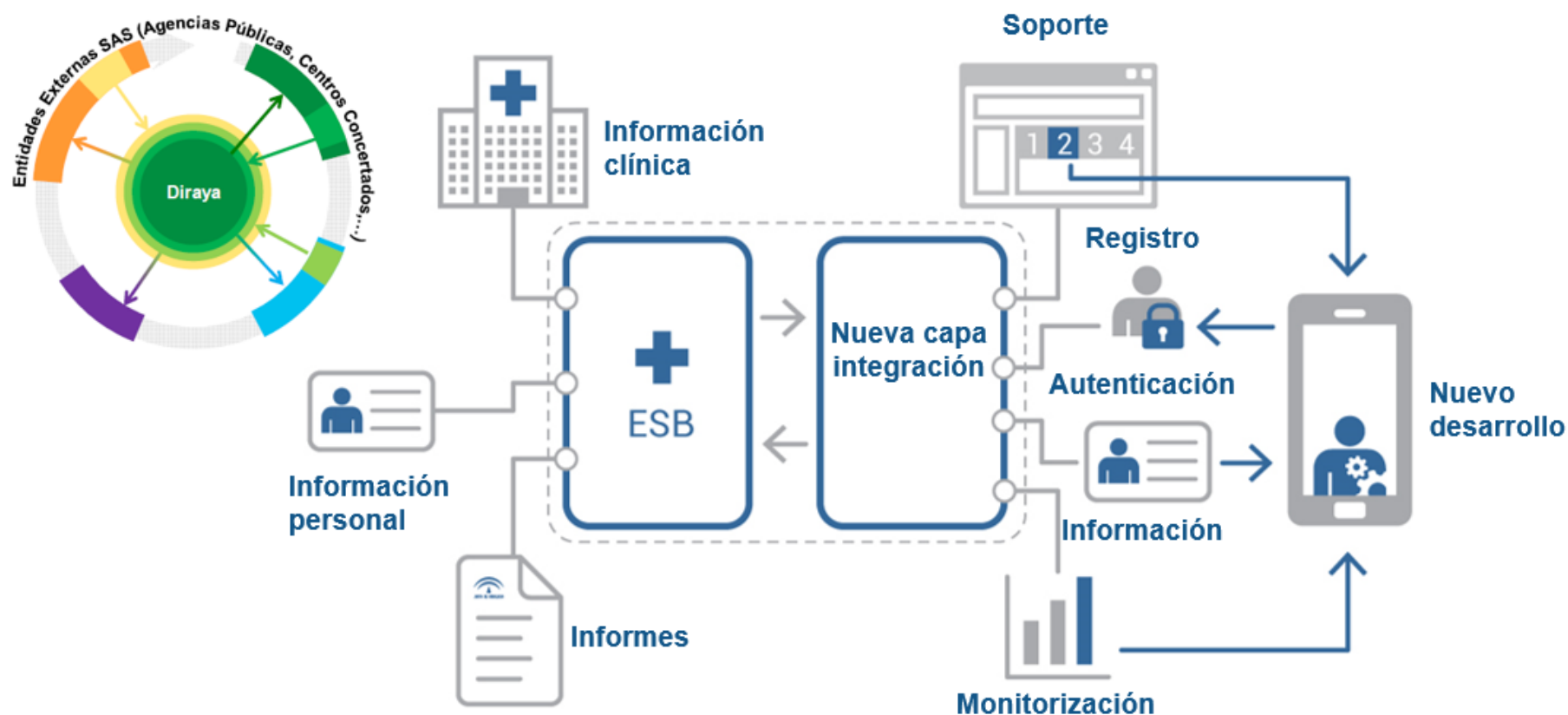


**mSSPA**  
Ecosistema único de servicios móviles de salud  
Unifica el acceso tanto a pacientes como profesionales

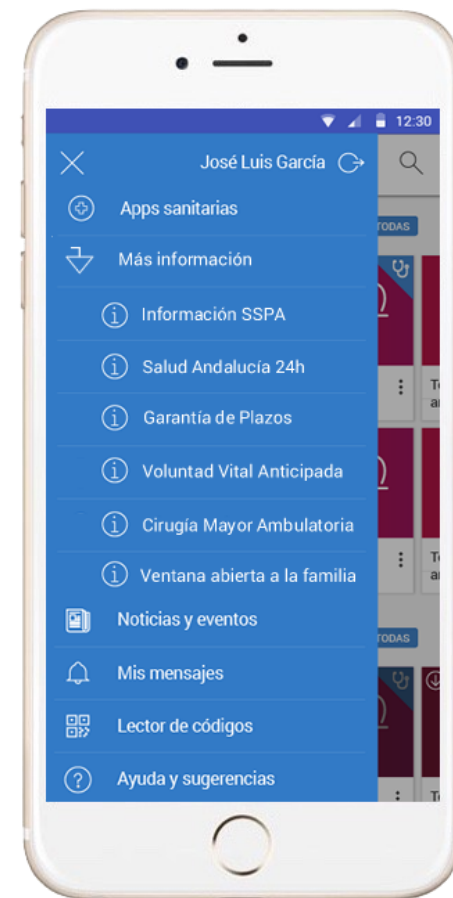
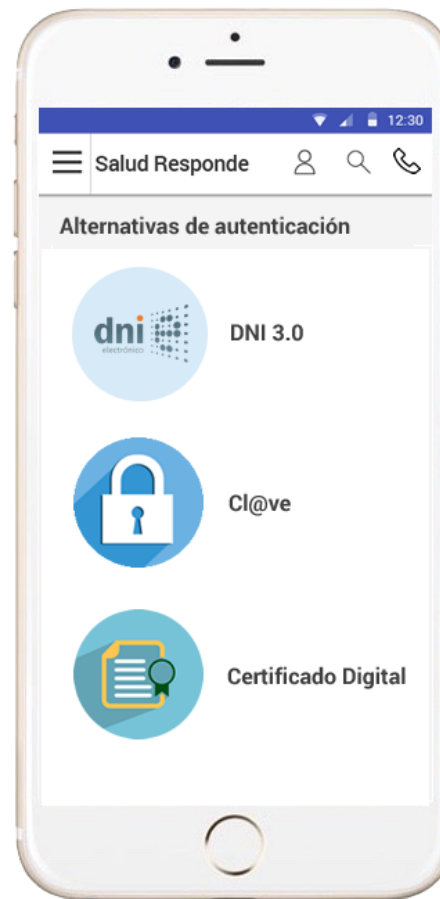


## Modelo abierto: Nueva capa de integración orientada a apps

- Modelo de integración simplificado
- Abierto a iniciativas de terceros (pymes, ciudadanos, otras instituciones)

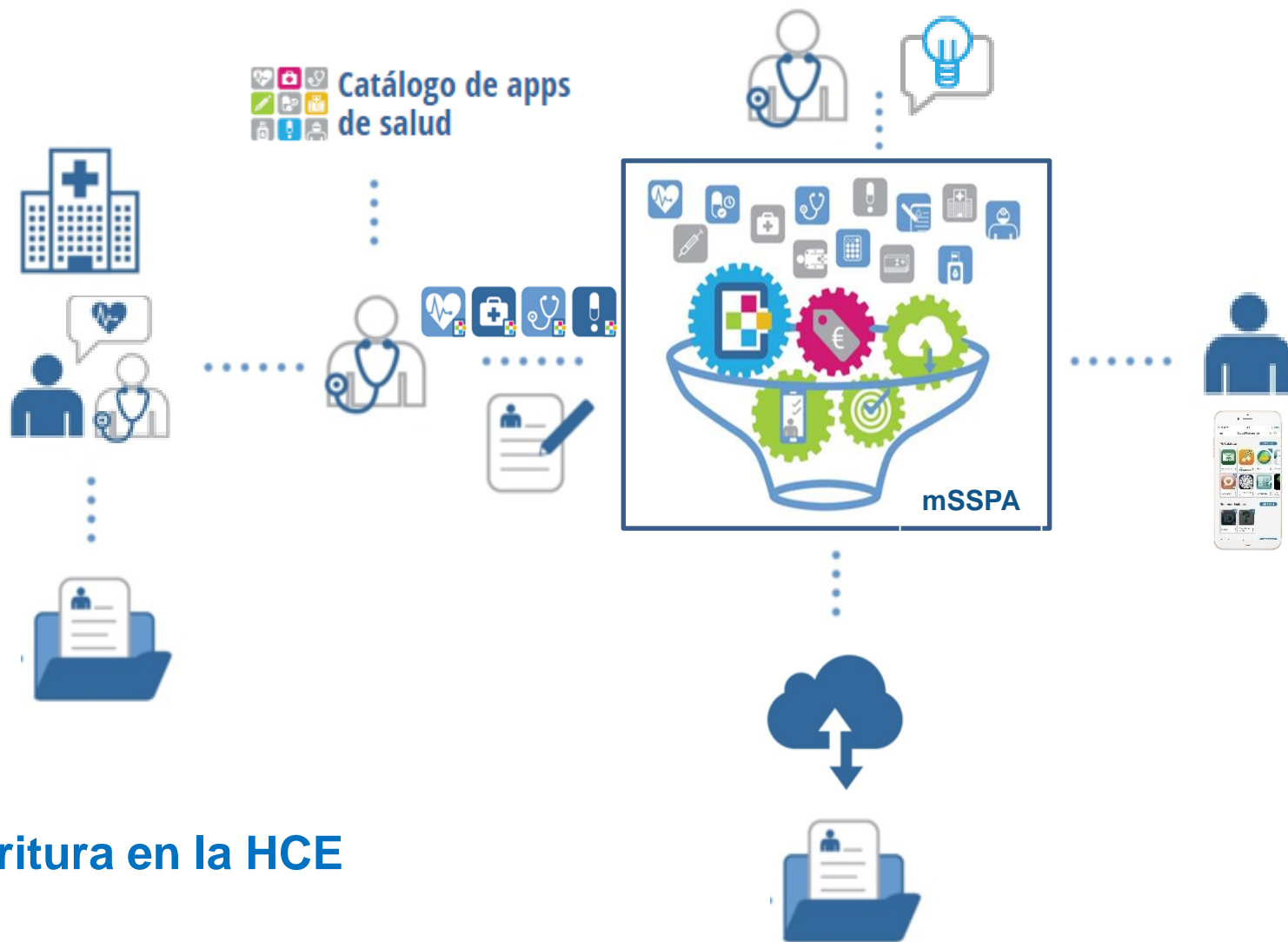


## Lanzador de Servicios → ClicSalud+



## mSSPA. Colección inicial de apps







## AtlanTIC, teleasistencia sociosanitaria en Andalucía

La Junta de Andalucía, de la mano de su socio tecnológico Telefónica, da luz verde a un ensayo clínico en el que se observarán las virtudes y defectos a corregir de la teleasistencia de pacientes con múltiples patologías y la integración sociosanitaria



NUMA pretende mejorar la colaboración entre la farmacia comunitaria y el Sistema Sanitario Público de Andalucía (SSPA).

Esta colaboración se apoya en los servicios de **telemedicina** a través de las tecnologías de la información y de la comunicación (**TIC**), que permite incluir a la **farmacia comunitaria** como un nuevo interlocutor entre pacientes y servicios sociales y sanitarios.





## Working Group on mHealth assessment guidelines

### *Introduction*

8 March 2016, Brussels

Pēteris Zilgalvis, J.D.,  
Head of Unit, Health and Well-Being,  
DG CONNECT



## Vision

- Healthcare providers (HCP) able to recommend that a patient uses an app in a treatment, prevention or care plan, confident that the app and its data would be reliable
- HCP and patients are able to work with patient generated data by linking apps with the electronic health records or personal health records

## mHealth subgroup Report on national mHealth strategies

Presented to the 10<sup>th</sup> eHealth Network  
meeting on 21 November 2016  
Version 25/10/2016

### Contents

Summary	3
1. Background	6
1.1 Mobile Health	6
1.2 EU Policy Actions	7
2. National Level Strategic Approaches to mHealth	10
3. Existing and Prospective mHealth Activities	11
3.1 Linking Patient Generated Data to Electronic Health Records	11
3.2 Reimbursement of mHealth as Part of Service Provision	11
3.3 Training and Education of Health Professionals and/or General Public	12
3.4 Guidelines or Recommendations to Users or Developers	13
3.5 Certification/Endorsement of mHealth Applications	14
3.6 Evidence on mHealth	16
3.7 mHealth in Public Health Programmes, Primary Care and Hospitals	17
3.8 Projected Future Activities	18
4. Activities in the Member States in the Horizontal Domains Related to mHealth	19
4.1 Governance, Legal Framework, Market Surveillance	19
4.2 Data Protection	19
4.3 Digital Authentication and Authorization	20
5. Areas for Collaboration	21
6. Next steps	24
Annex 1. Questionnaire to the Member States on mHealth strategies	25
Annex 2. List of Respondents	28
Annex 3. Country Profiles	29
Croatia	29
Denmark	30
Estonia	31
France	32
Finland	34
Germany	35
Greece	37
Ireland	38
Malta	39
Netherlands	40
Portugal	42
Spain/Catalonia	43
United Kingdom	44

Home Health Topics Countries Newsroom Emergencies About Us


## Be He@thy, Be Mobile

### Scaling up digital health


The use of mobile and wireless technologies has the potential to transform the face of health service delivery across the globe. There are more than 7 billion mobile telephone subscriptions in the world - in many places people are more likely to have access to a mobile telephone than to clean water. Preventing disease is the most sustainable way of improving population health. However, it can be challenging to reach people with the right information to stop avoidable conditions developing.

Be He@thy, Be Mobile (BHBM) is an initiative run jointly by the WHO and ITU. Since 2013 it has worked with governments to address a global challenge around improving disease prevention by using mobile technology.

Read more  
Video: Be He@thy, Be Mobile: scaling up digital solutions for a healthier world




#### Handbooks



##### About the handbooks

The handbooks are comprehensive and evidence based documents that provide guidance for country governments and policymakers to develop, implement, and evaluate an mHealth programme for the prevention and control of different noncommunicable diseases and their risk factors.

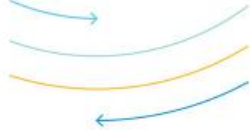
#### Countries



##### National programmes

BHBM now works with 11 countries from a range of regions and income levels, tackling issues as diverse as raising awareness on cervical cancer to helping people quit tobacco use. Each country implements a different intervention or a combination of interventions, depending on the need and political will behind each disease or risk factor.


#### Innovations



##### Beyond the mobile phone

Digital innovations that can support healthcare include a broader range of technologies than SMS, such as smartphone applications, wearables, Artificial Intelligence and machine Learning. Together with partners and collaborators, BHBM works towards understanding how to best deploy these new digital health solutions at scale.


#### The EU mHealth Hub Project



##### About the EU mHealth Hub

The EU mHealth Hub Project is a collaboration between WHO and ITU to collect best practices on the use of mHealth in Europe. It will work with the Be He@thy, Be Mobile initiative to collect and share country experiences of operating mHealth programs within national health systems.

#### Resources




BHBM Fact Book  
Digital health resolution  
mCessation results in India  
mDiabetes results in Senegal  
BHBM @ ITU

#### Annual reports

Annual report 2017  
Annual report 2016  
Annual report 2015  
Annual report 2014

#### Contact us



We would love to hear from you: bhbm@who.int  
Follow us on Twitter

## BHBM programmes:

- Burkina Faso - mTobaccoCessation
- Costa Rica (no longer active) – mTobaccoCessation
- Egypt - mDiabetes, mTB-Tobacco
- India - mTobaccoCessation, mDiabetes
- Norway – strategic support
- Philippines - mTobaccoCessation
- Senegal - mDiabetes
- Sudan - mCervicalCancer, mBreastCancer, mDiabetes
- Tunisia - mTobaccoCessation, mDiabetes
- United Kingdom - strategic support
- Zambia - mCervicalCancer



## BENEFICIARIES



REGIONAL OFFICE FOR

World Health  
Organization

Europe



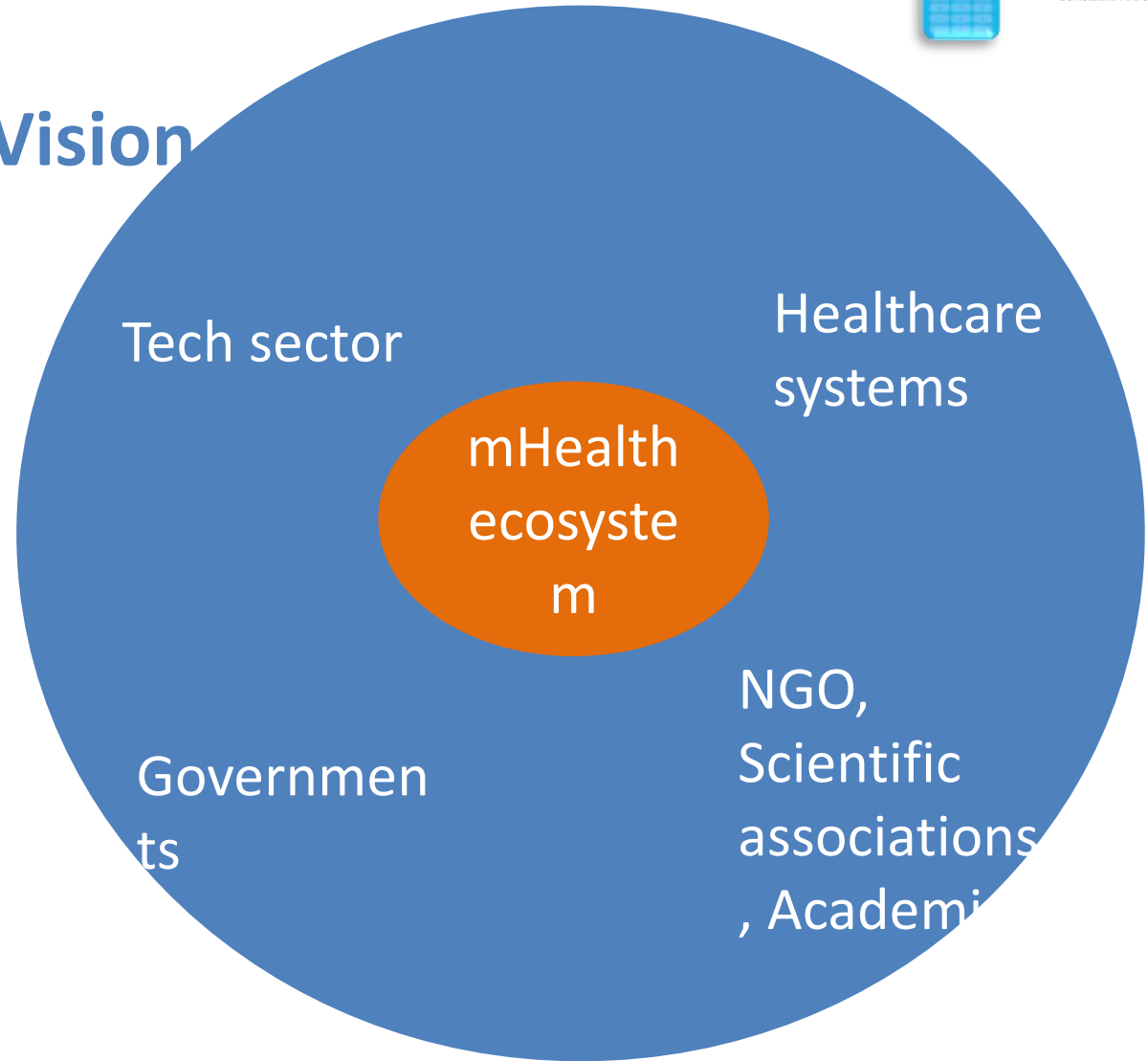
<https://www.youtube.com/watch?v=ekUtRoFYeKw>





## Hub Concept & Vision

Stakeholders which **complement** each other



# European mHealth Hub Hub Concept & Vision

mHealth  
ecosyste  
m



## Tech sector

- empirica Communications and Technological Research
- Ericsson Nikola Tesla
- Foundation Tallinn Science Park Tehnoopol / Connected Health Cluster
- HL7
- PCHAlliance
- EHTEL

## Healthcare systems

- Andalusian Public Health System
- Campania Region
- Health Center Zagreb “Centar”
- Madrid Public Health Service
- Basque Health Service
- County Council of Jämtland (Jämtland Härjedalen)

## Governments

- Spanish Ministry of Health, Consumer Affairs and Social Welfare
- SPMS (Portuguese Ministry of Health)

## NGO, Academia, Scientific associations

- European Society of Cardiology
- The European Institute for Innovation through Health Data
- Mijn Data Onze Gezondheid
- ULSS 4 Veneto Orientale – ProMIS Department
- Centre of eHealth University of Agder
- University of Applied Sciences Technikum

Vienna



Estrategia de calidad y seguridad en aplicaciones móviles de salud

Agencia de Calidad Sanitaria de Andalucía



## Consortium strengths

### Real programme implementers

Public entities with responsibilities for stablishing and implementing mHealth programmes.

Public healthcare providers with real experience in large-scale deployments.

### Academia's involvement

Research bodies both from public authorities and from the educational sector.

### Clear vision & position on cross-cutting topics

International organizations of reference (dissemination, training, interoperability, data exchange, security...).

### Consultancy services & solutions development

Valuable expertise in consultancy services, development of mHealth solutions & infrastructures.

### The voice of professionals and patients

Professional associations (NCD); citizenship and patients.





## 1 Hub

12 countries

- 60% Public institutions
- 30% Non-for-profit institutions
- 10% For-profit institutions



# Muchas gracias!

[www.calidadappsalud.com](http://www.calidadappsalud.com)

@CalidadAppSalud

[facebook.com/CalidadAppSalud](https://facebook.com/CalidadAppSalud)



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