Bringing mobile health to Catalan citizens

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www.ehealthtallinn2017.ee

AGENDA

- Overview of mHealth in Catalonia
- Challenges in the Catalan Health System
- mHealth Strategy Roadmap
- Accreditation Model
- Showcase: AppSalut
- Conclusions

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OVERVIEW OF MHEALTH IN CATALONIA

More than 300.000 health, lifestyle and wellbeing apps worldwide.

12% Healthcare providers have health apps aimed at citizen services, such as:

- **Health centres geolocation**
- **Visiting management**
- **Timeout in real time**
- **Virtual visits**

CHALLENGES IN THE CATALAN HEALTH SYSTEM

CHALLENGE	SOLUTION
Provide trusted apps	**ACCREDITATION MODEL**
Prescribe apps through the Information System	**APPSALUT WEBSITE**
Collect health data from several apps in a unique data repository	**HEALTHCARE PLATFORM**
Share health data with professionals	**INTEROPERABILITY FRAMEWORK**
Integrate health data in the Personal Health Record (PHR)	**INTEROPERABILITY FRAMEWORK and HEALTHCARE PLATFORM**

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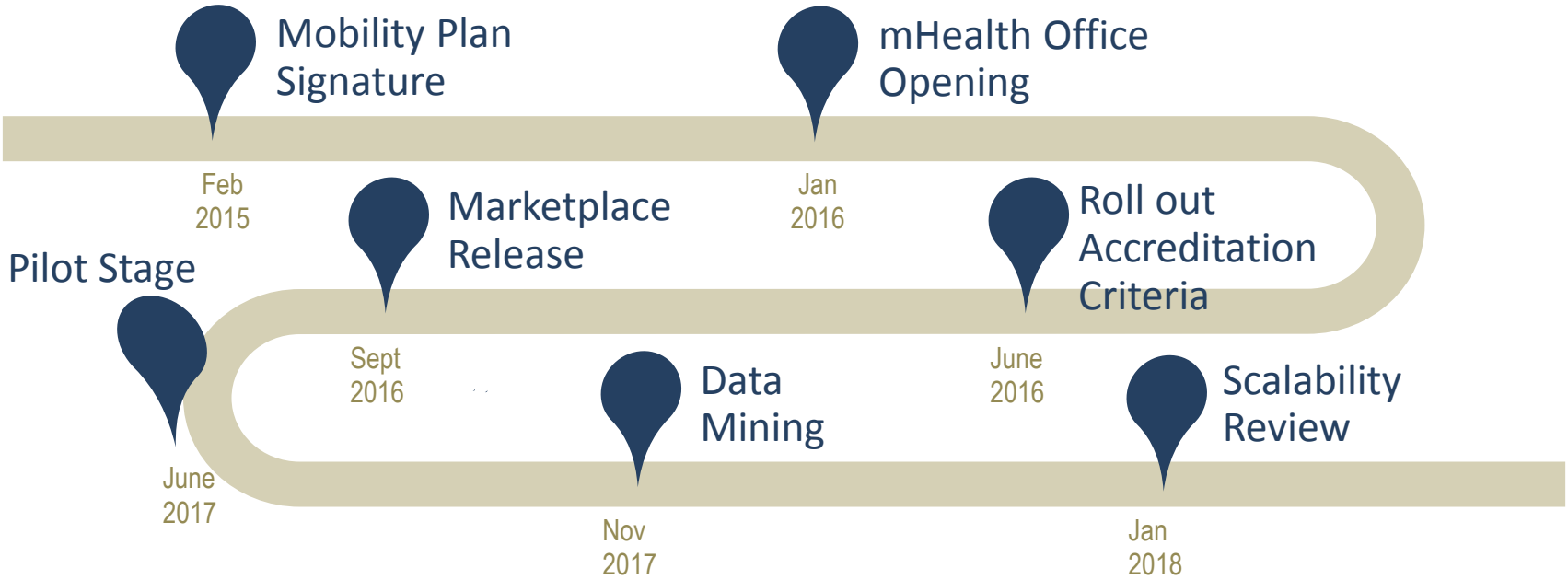
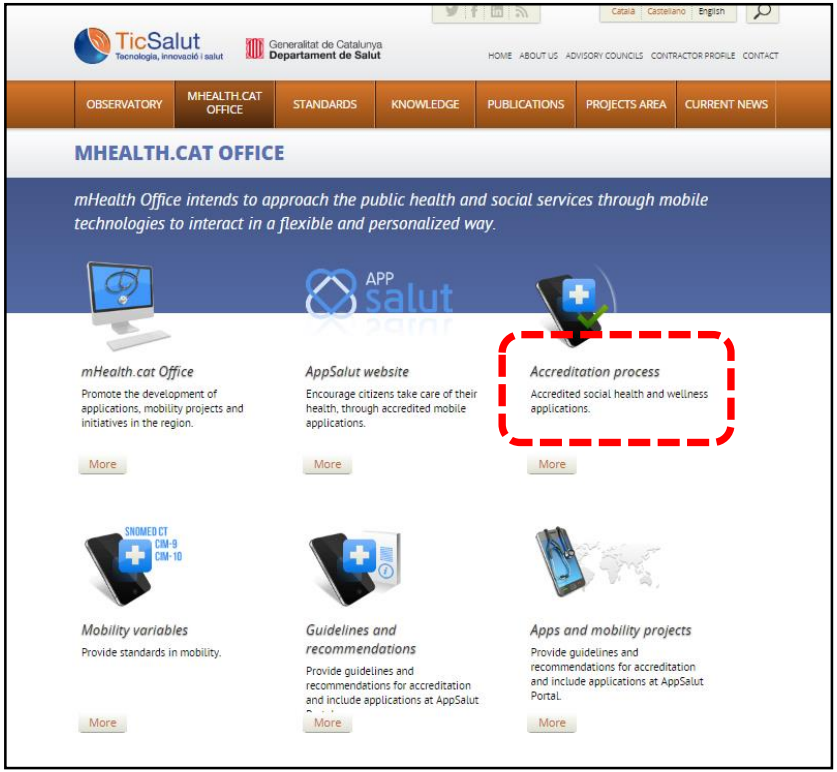
MHEALTH STRATEGY: **ROADMAP**



ACCREDITATION MODEL

http://www.ticsalut.cat/mhealth/



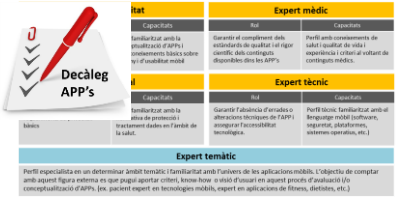
ACCREDITATION MODEL

1. FILL IN ONLINE REQUEST

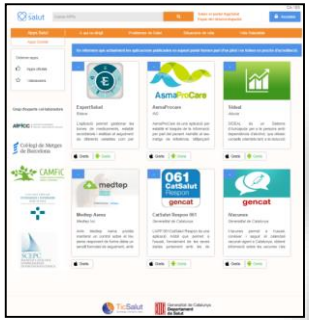
2. INITIAL VALIDATION AND CLASSIFICATION

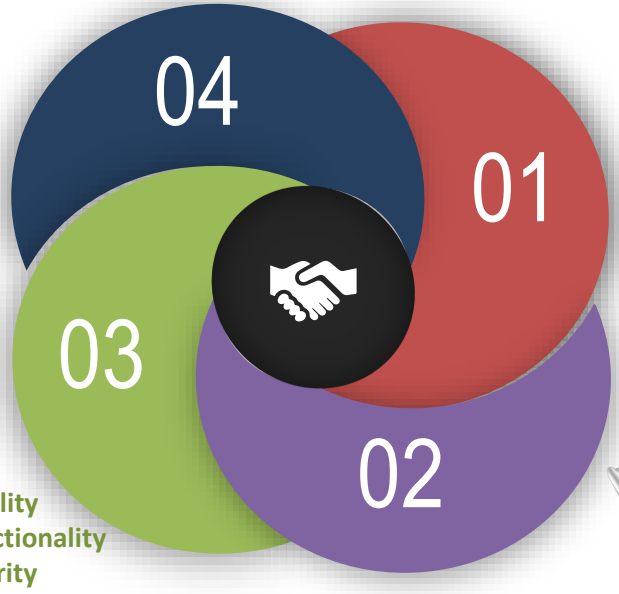
Impacte / risc	1	2	3
< 2%	Certificació nivell I	Certificació nivell II	Certificació nivell III
2% - 10%	Certificació nivell I	Certificació nivell III	Certificació nivell III + auditoria de seguretat
> 10%	Certificació nivell II	Certificació nivell III	Certificació nivell III + auditoria de seguretat + pla de contingència

3. EXPERTS CHECKLIST REQUIREMENTS



4. APP PUBLISHED IN APPSALUT WEBSITE





I. Design and usability
II. Content and functionality
III. Privacy and security
IV. Technological requirements

ACCREDITATION MODEL

Technology

	Criteria	Level 1	Level 2	Level 3
T.01	**It verifies the mistaken data entry (format, range, etc.)** If the user provides incorrect data, the App detects them, and it notifies accordingly.	Compulsory	Compulsory	Compulsory
T.02	**It does not fail immediately during its use (blocks, etc.)** The App works and does not have constant failures which force to close it	Compulsory	Compulsory	Compulsory
T.03	**It is retrieved correctly in context changes (switch to other app and return), external interruptions (incoming call or message, etc.) and switched off the terminal** If the user switch to another App or receives an incoming call, he may resume to the previous App screen	Desirable	Recommended	Compulsory
T.04	**It does not waste resources excessively: battery, CPU, memory, data, etc..**	Desirable	Recommended	Recommended
T.05	**Installed and uninstalled correctly**	Compulsory	Compulsory	Compulsory
T.06	**It does not fail if it is used during long-time** The App works even if it has been a long time operating.	N/A	Recommended	Recommended

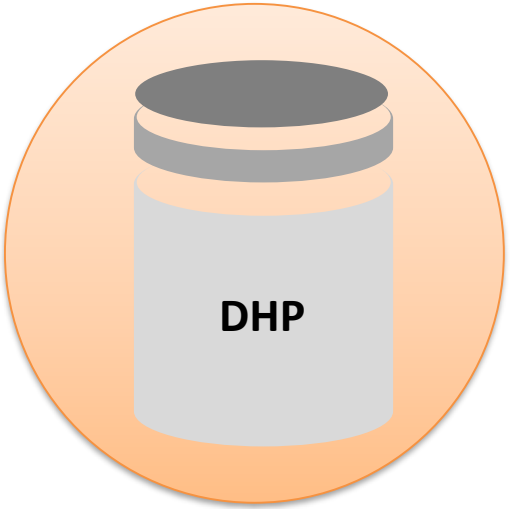
SHOWCASE: **APPSALUT**

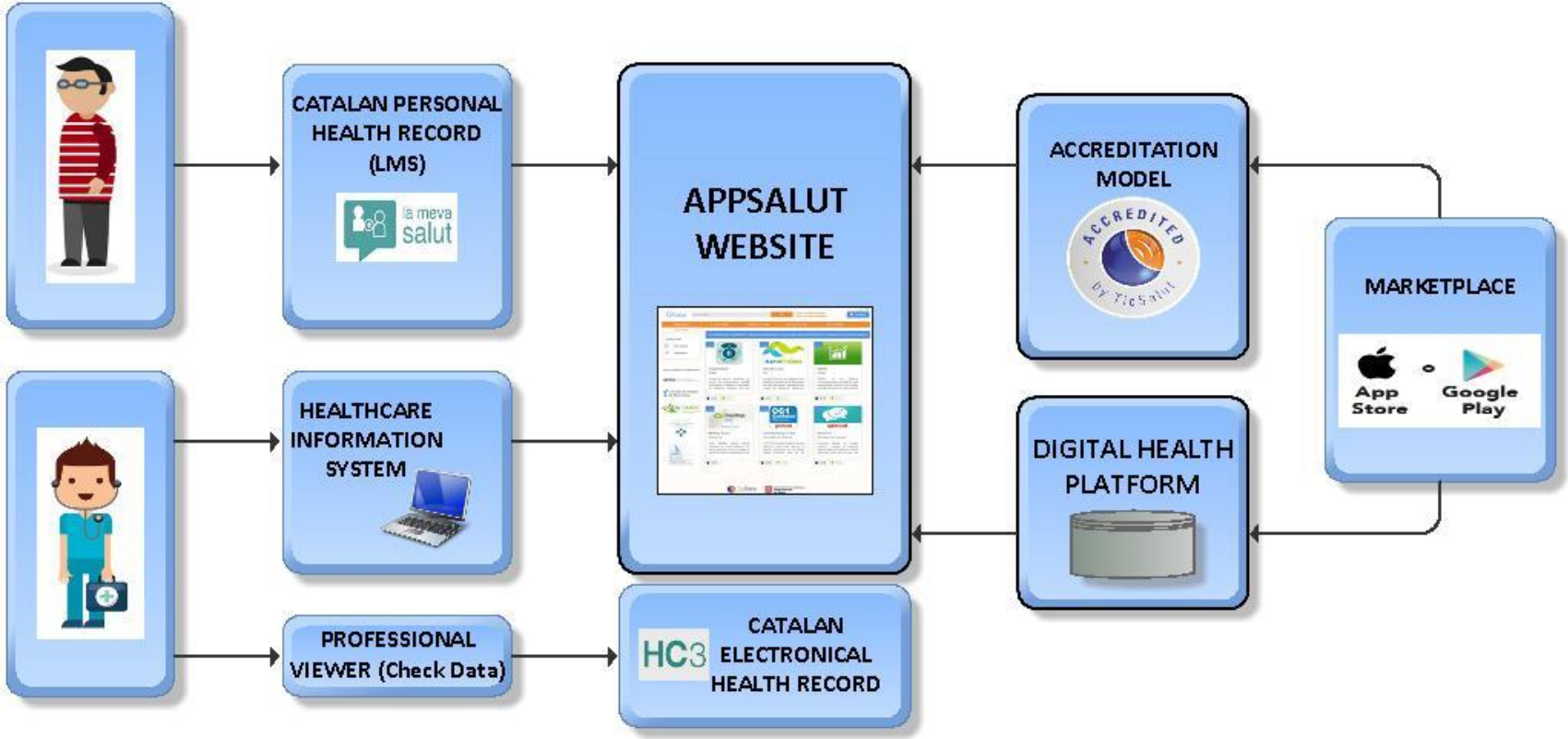
https://appsalut.gencat.cat/

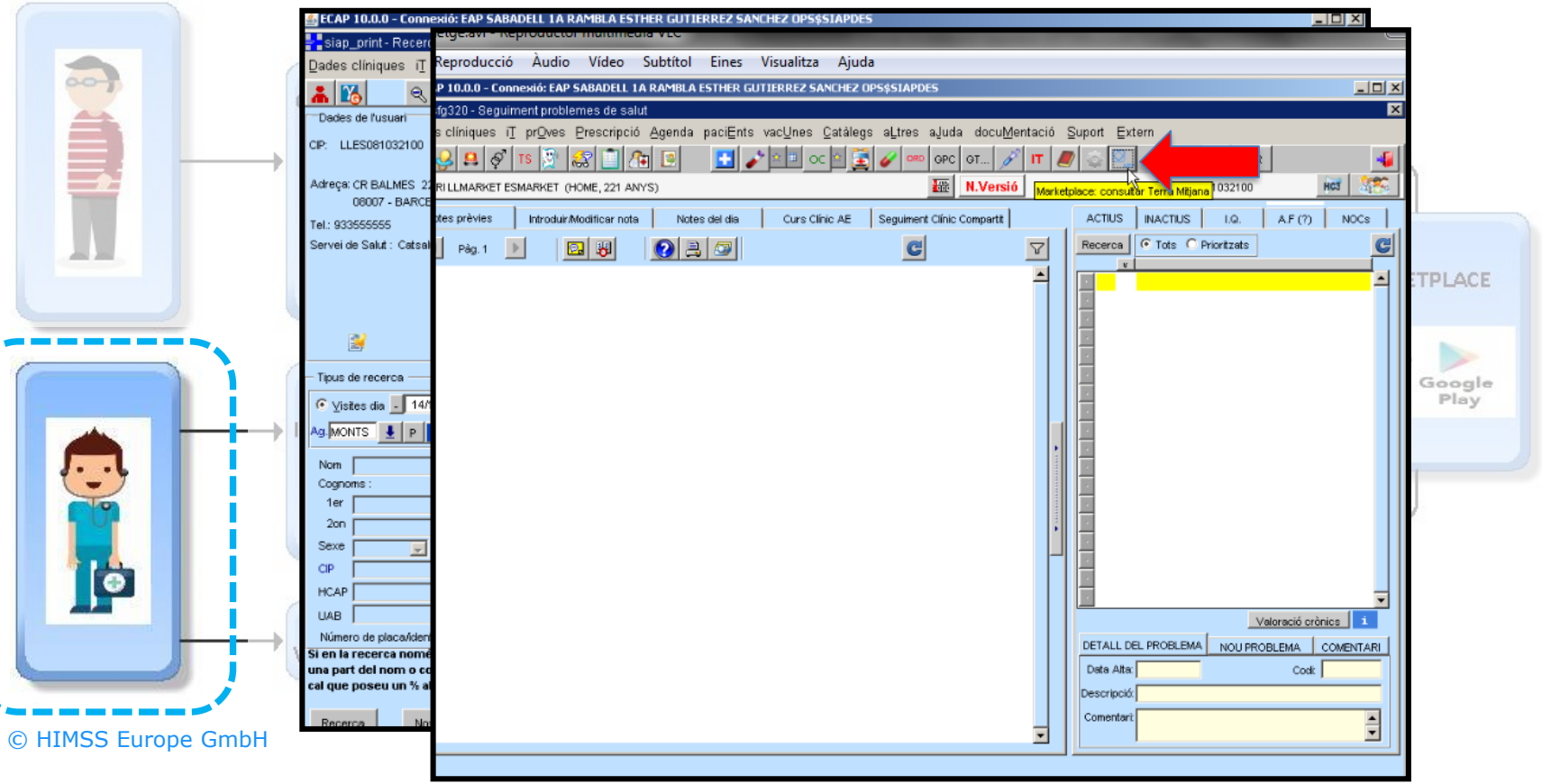
✓ **ACCREDITATION MODEL**

✓ **APPSALUT WEBSITE**

✓ **DIGITAL HEALTH PLATFORM**




CATALAN PERSONAL HEALTH RECORD (LMS)
la meva salut
HEALTHCARE INFORMATION SYSTEM
PROFESSIONAL VIEWER (Check Data)
APPSALUT WEBSITE
HC3
CATALAN ELECTRONICAL HEALTH RECORD
ACCREDITATION MODEL
ACCREDITED
DIGITAL HEALTH PLATFORM
MARKETPLACE
App Store
Google Play



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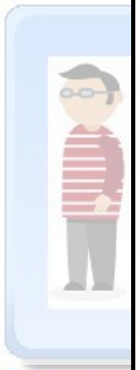


APP salut

Cercar APPs

Apps Salut | A qui va dirigit | Diagnòstic | Envia dades

Apps Socials

- El meu compte
- Recomanacions
- Nova recomanació
- Dades de les apps

Crear recomanació

CIP

TEST0000000001

Telèfon mòbil

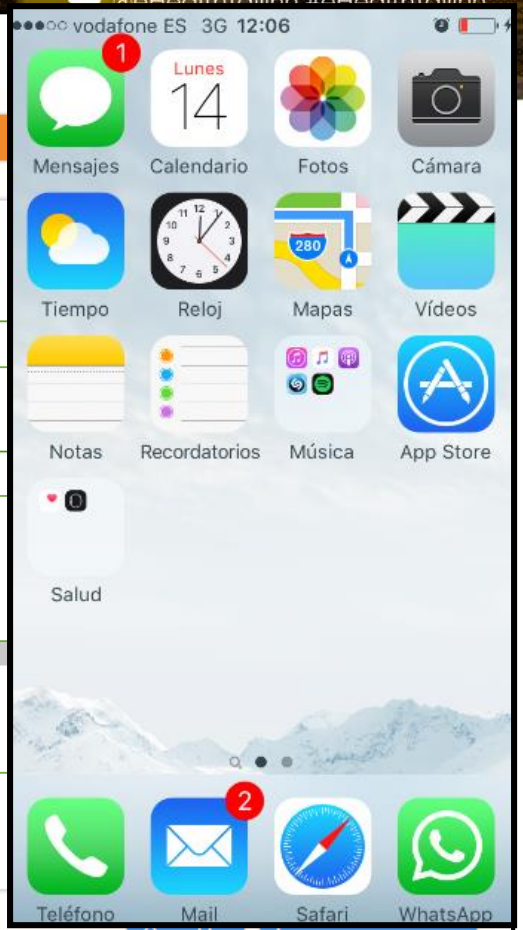
666000666

APPs

Feu clic a la lupa per buscar i seleccionar apps.

ExpertSalud

Cancel·lar | Enviar recomanacions



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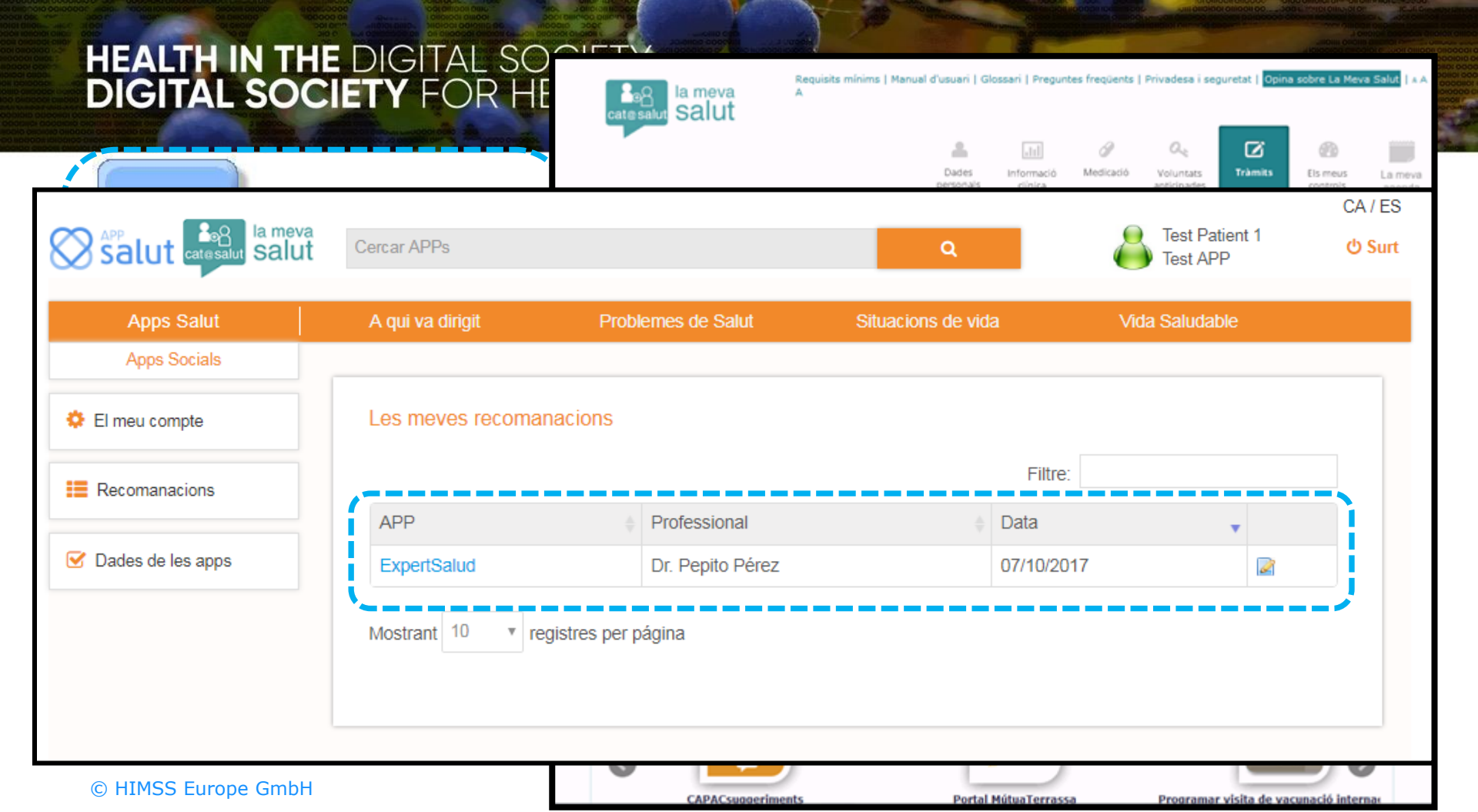

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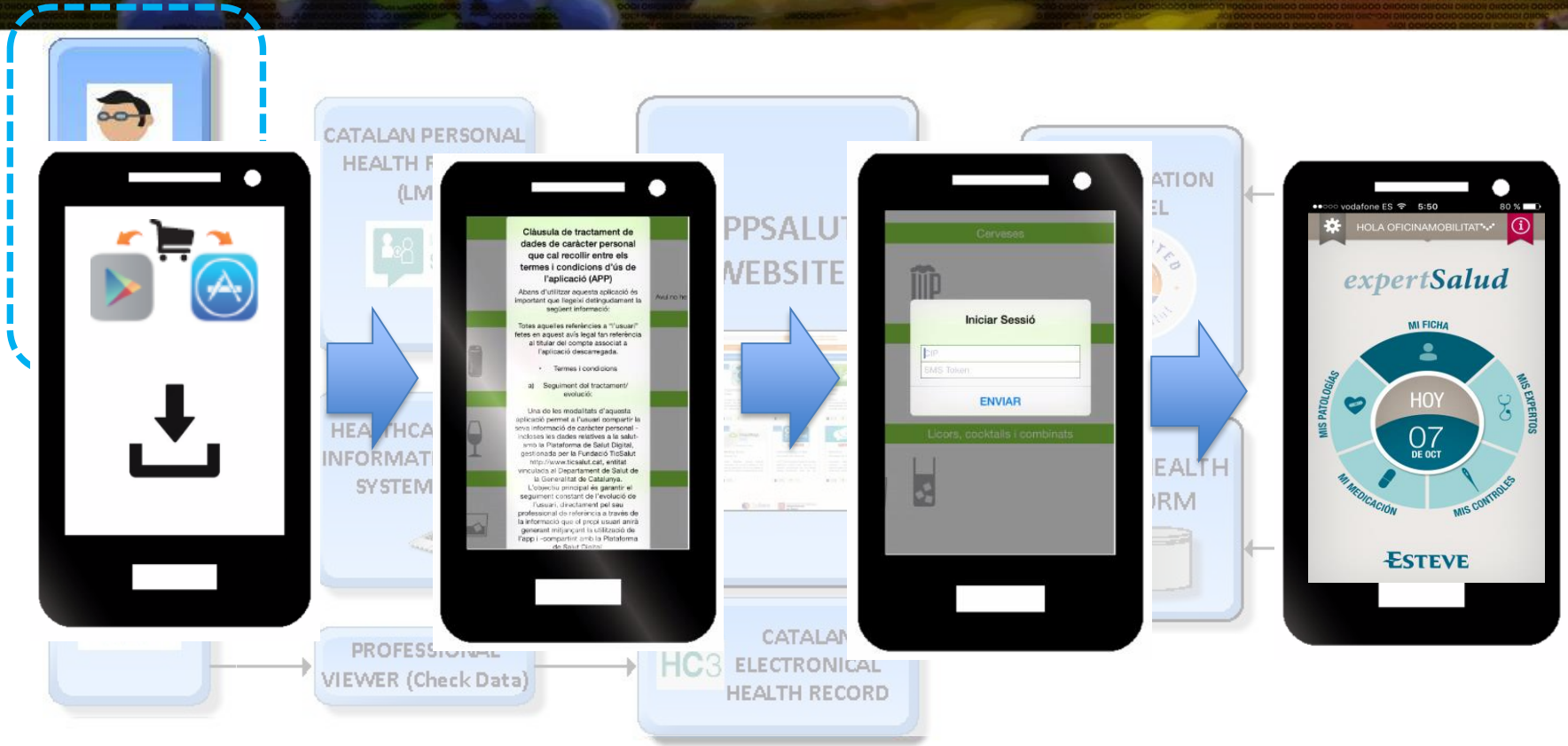
CATALAN PERSONAL HEALTH
Cláusula de tractament de dades de caràcter personal que cal recollir entre els termes i condicions d'ús de l'aplicació (APP)
Cerveses
Iniciar Sessió
ENVIAR
Licors, cocktails i combinats
vodafone ES 5:50 80 %
HOLA OFICINAMOBILITAT
expertSalud
MI FICHA
MIS EXPERTOS
MIS CONTROLES
MI MEDICACION
MIS PATOLOGÍAS
HOY
07
DE OCT
ESTEVE
PROFESSIONAL VIEWER (Check Data)
CATALAN ELECTRONICAL HEALTH RECORD

HEALTH IN TI
DIGITAL SO

APP salut

Cercar APPs

CA / ES

Dr. Pepito Pérez

Surt

Apps Sal

El meu compte

Recomanacion

Nova recoman

Dades de les a

Gràfic

flux màxim (peak flow) (l/min)

155
150
145
140

temperatura (°C)

11h22: 35.0 (°C)

pes (kg)

11h22: 69.0 (kg)

Marcar com a no vàlid

Marcar com integrable

Tancar

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CONCLUSION

- For **end users**: secure, informative, share data with professionals
- For **professionals**: efficient and useful for their daily objectives
- For **providers**: have the information integrated in the information systems
- For **healthcare sector:** this data can help predict future requirements
- For **industry**: provide secure and trusted apps

THANK YOU

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