

Adopting CEN-ISO/TS 82304-2 and a trusted EU mHealth label for a single market that enables patients, citizens, health professionals, systems and authorities to benefit from a healthy supply of useful apps.

Health Apps From a Health Authority Perspective

Petra Hoogendoorn, Tatjana Prenda Trupec, Carme Pratdepàdua Bufill, and Liyousew Borga.



Agenda – 4th Roundtable Health apps from a health authority perspective

Part 1. Introduction 14:00

Part 2. Presentations and Q+A

- Comparison of app assessment frameworks and country-specific requirements (Petra Hoogendoorn)
- Transforming Healthcare: A Journey Through Catalonia's Adoption of Health Apps (Carme Pratdepàdua Bufill)
- Real Value of Patient-centered Positive Health Effects of Digital Medical Devices: Lessons from the German DiGA (Liyousew Borga)
- Challenges and recommendations for the reimbursement of health apps (Tatjana Prenda Trupec)

Part 3. Closing







Comparison of app assessment frameworks and country-specific requirements

Petra Hoogendoorn Coordinator of Label2Enable



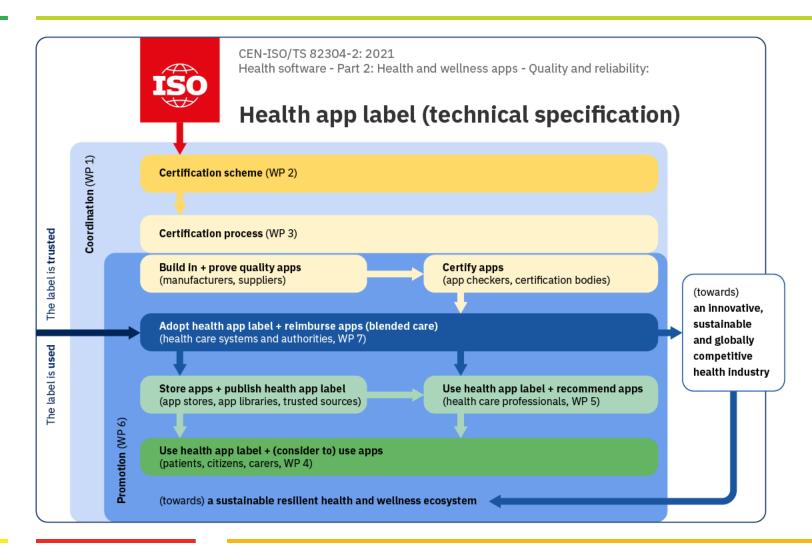
Adopting CEN-ISO/TS 82304-2 and a trusted EU mHealth label for a single market that enables patients, citizens, health professionals, systems and authorities to benefit from a healthy supply of useful apps.

Comparison of app assessment frameworks and country-specific requirements

Petra Hoogendoorn – Leiden University Medical Center / National eHealth Living Lab



multi-stakeholder: the importance





multi-stakeholder: the consortium

Title

Adopting CEN-ISO/TS 82304-2 and a trusted EU mHealth label for a single market that enables patients, citizens, health professionals, systems and authorities to benefit from a healthy supply of useful apps.

Duration June 2022 – May 2024

Instrument Horizon Europe

Type
 Coordination and Support Action

Grant Agreement number 101057522

Partners























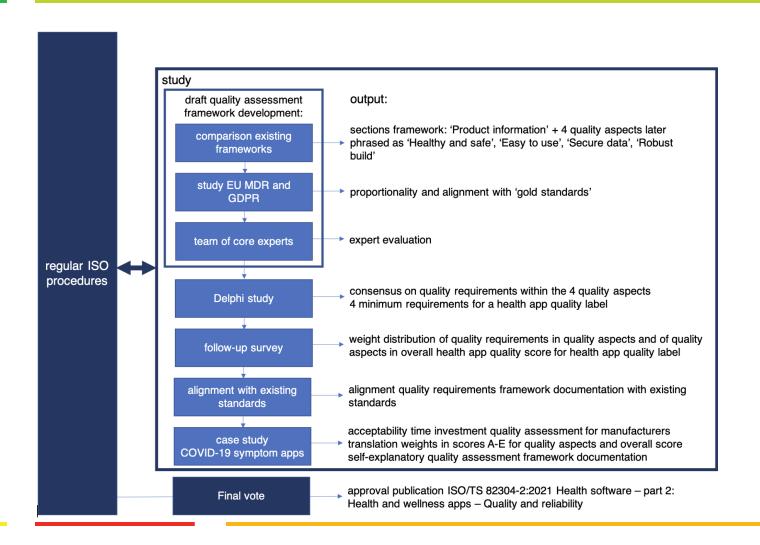








multi-stakeholder: the (Delphi) framework

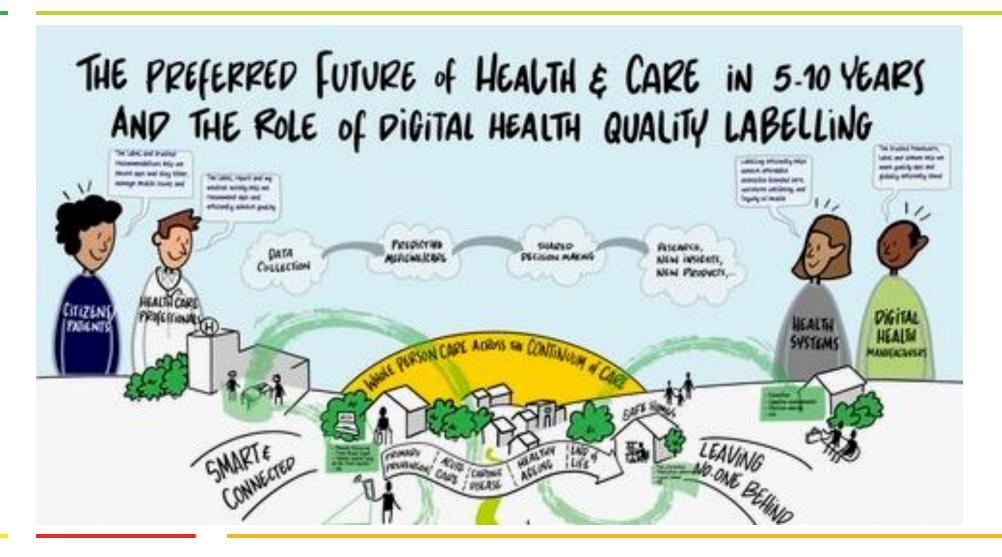


Hoogendoorn et al (2023)

What makes a quality health app – Developing a global research-based health app quality assessment framework for CEN-ISO/TS 82304-2: Delphi study



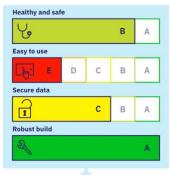
multi-stakeholder: the preferred future



LABEL2 **ENABLE**

how to distinguish a "good" health app?







Funded by the

European Union

Glooko - Track Diabetes Data Geneeskunde CEN-ISO/TS 82304-2:2021



Sugarmate | Diabetestracker Geneeskunde









LibreLinkUp Geneeskunde



Diabeto Log Diabetes Logboek Geneeskunde



Glycemische index.

Diabetes

Geneeskunde

Dario Health

Geneeskunde

Glucose Buddy Diabetes Tracker Geneeskunde

Dexcom Clarity

Geneeskunde

App Store Preview

mySugr - Diabetestracker-log Suggesties voor jou



Tracker

Geneeskunde

Glucose Blood Sugar



One Drop: Better Health Today Gezondheid en fitness



iHealth Myvitals (Legacy) Gezondheid en fitness



Klinio: Diabetes guidance app Gezondheid en fitness



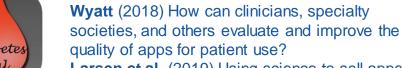
Diabetes Food Tracker ~ Fittur Gezondheid en fitness



Carbs & Cals: Diet & Diabetes Gezondheid en fitness



DiabetesPal Geneeskunde



Larsen et al. (2019) Using science to sell apps: Evaluation of mental health app store quality claims

Singh et al. (2016) Many health apps target highneed, high-cost populations, but gaps remain









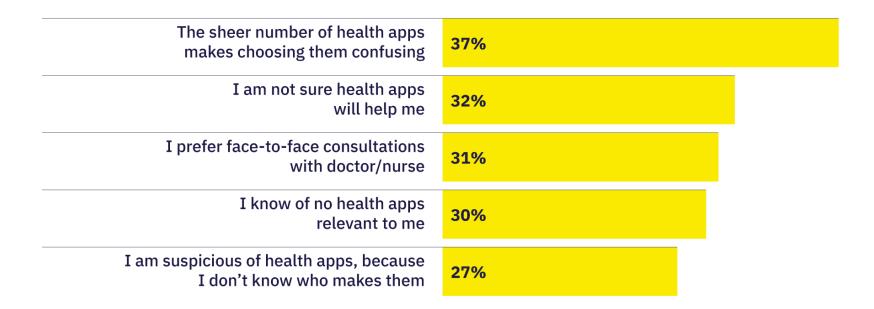








choosing a 'good' health app is difficult



Get-ehealth.eu (2015) What do patients and carers need in health apps – but are not getting? Global survey of 1,120 patients and carers

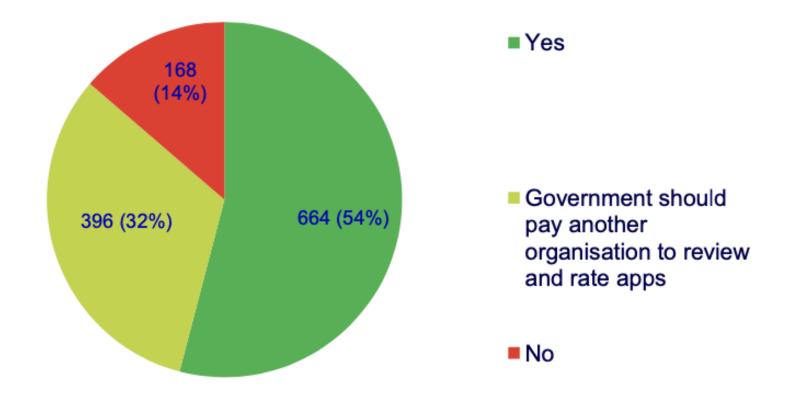


should the government review and rate health apps?

1228

Do you think the government should review and rate health app quality to help you choose a health app?



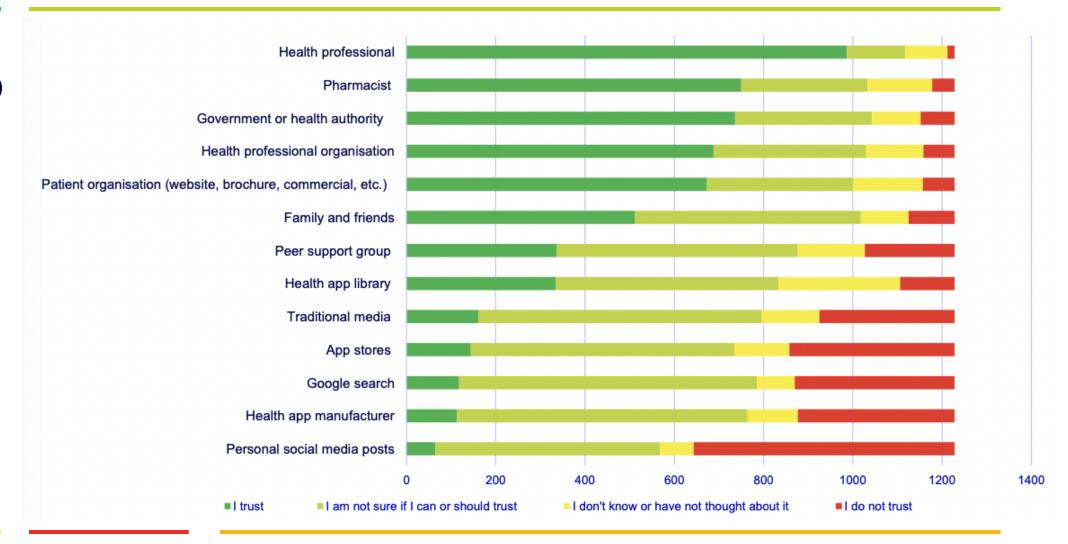




trusted advice to choose a health app

1228

respondents

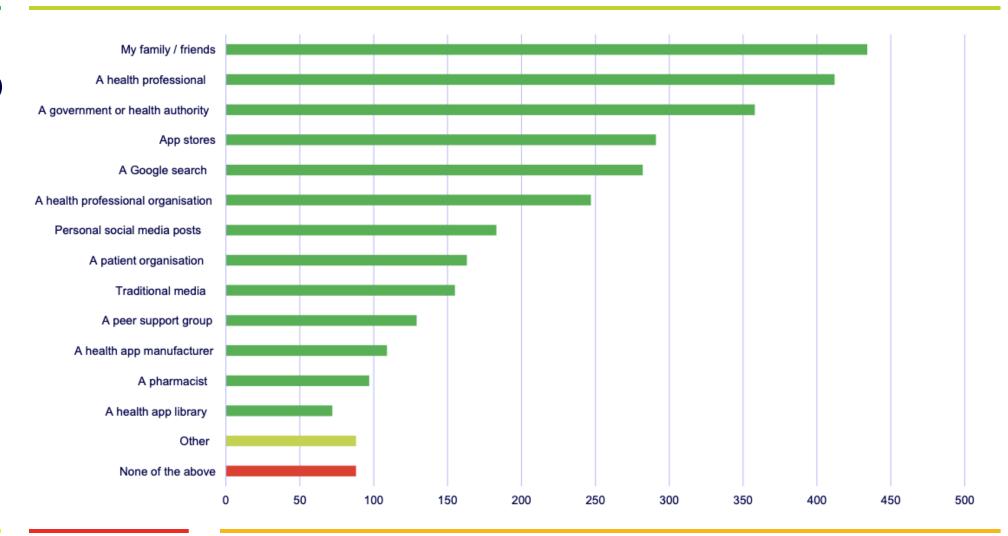




used advice to choose a health app

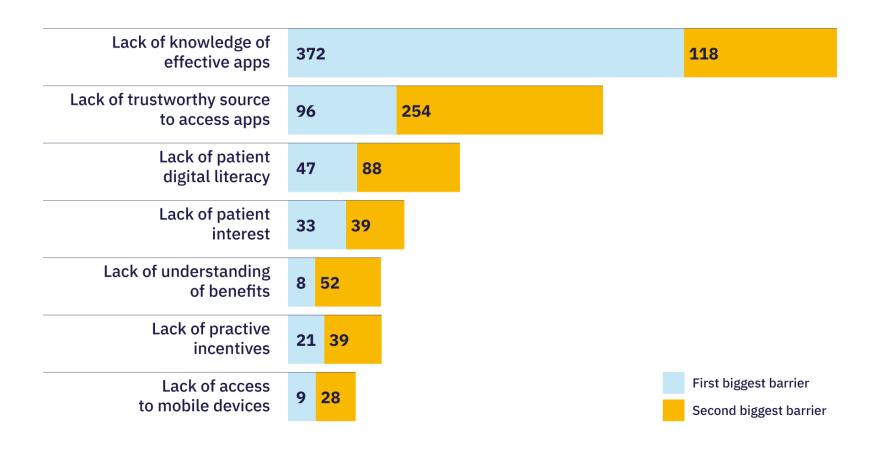
1228

respondents





choosing a 'good' health app is difficult

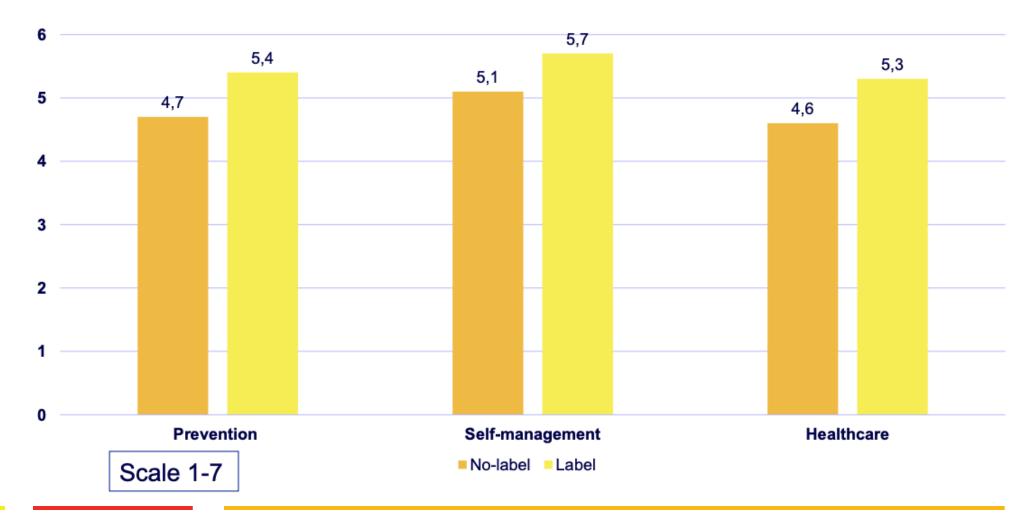


Byambasuren et al (2019) Current knowledge and adoption of mobile health apps among Australian General Practitioners: Survey study



hcp willingness to recommend health apps

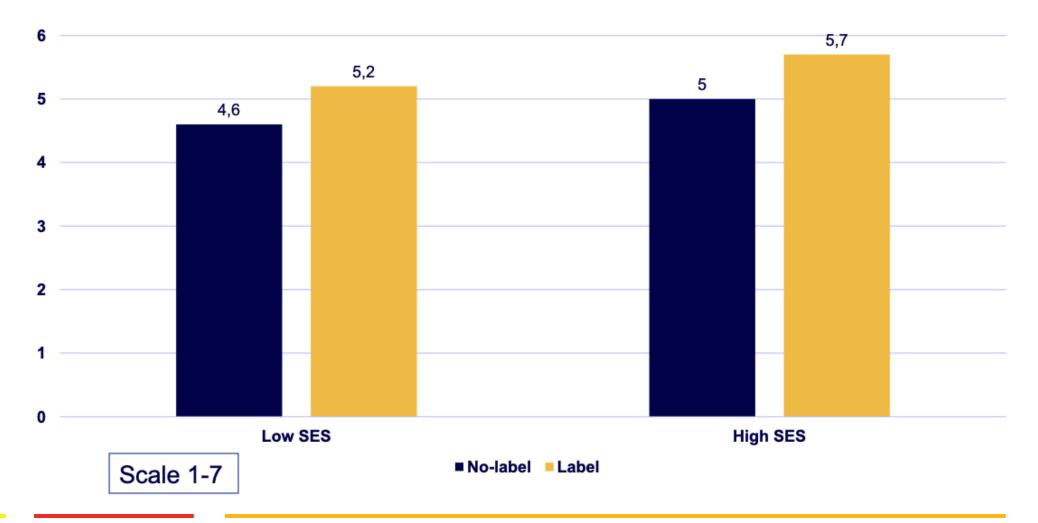
116 respondents





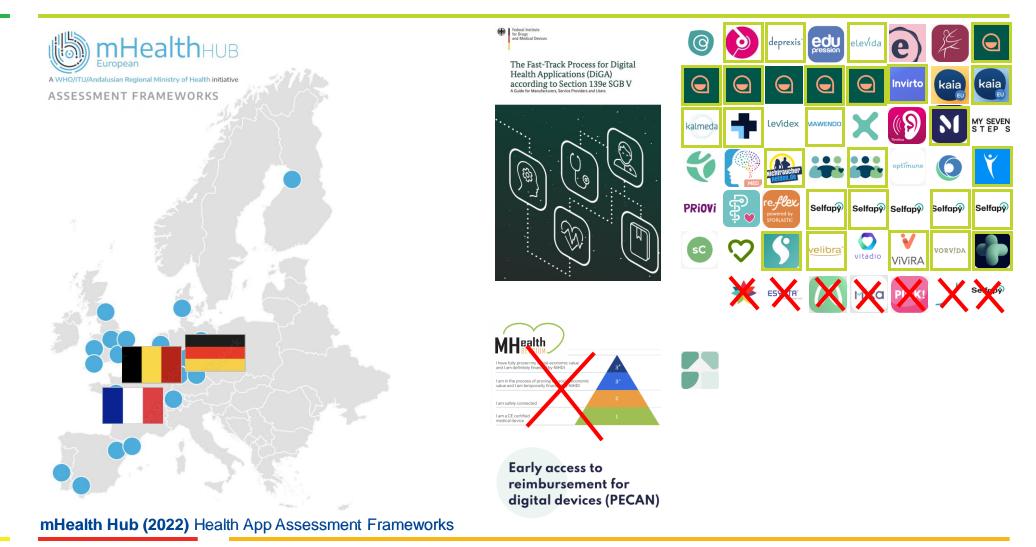
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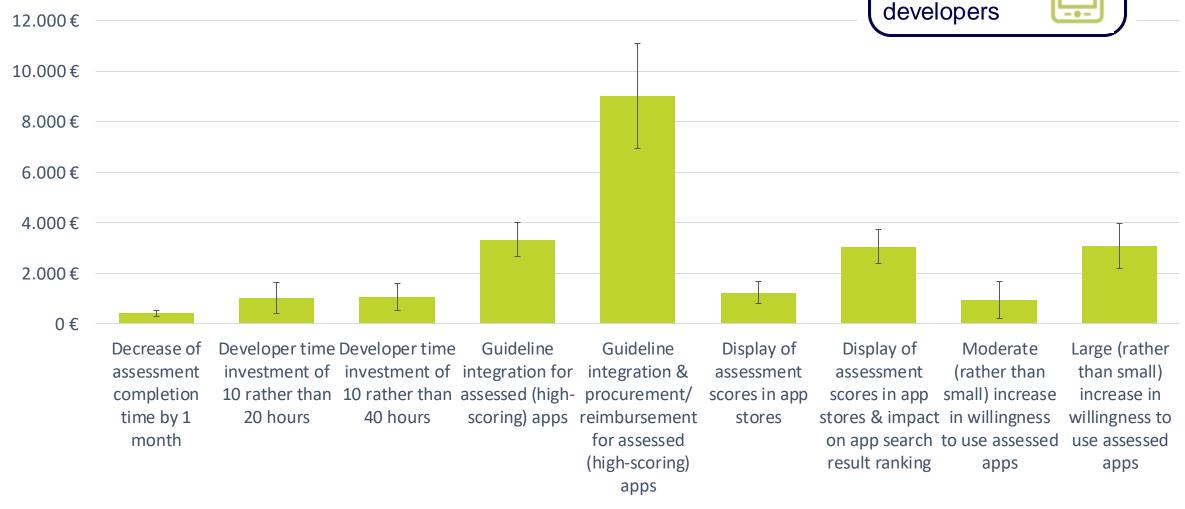
delivering a 'good' health app is difficult





willingness to pay







willingness to pay









reviewing a 'good' health app is difficult too

npj | digital medicine

Health app policy:

- Belgium
- Denmark
- England
- Germany
- Netherlands
- Norway
- Sweden
- Singapore
- United States

"There is great interest in the use of apps in all the countries evaluated, but even Belgium, Germany and the UK, which are relatively far along in their operationalization of frameworks, are struggling with efficient implementation.

Cross-national efforts are needed around regulation and for countries to realize the benefits of these technologies."

Essén et al (2022) Health app policy: international comparison of nine countries' approaches



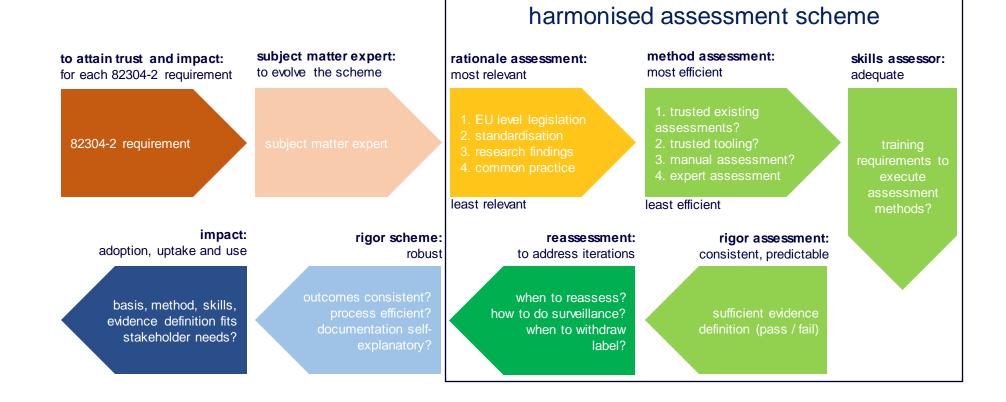
the context: EU policy

- The Green Paper on mobile health (2014) addresses the potential benefits and risks of health apps, questioning how to verify or ensure the efficacy of health apps (e.g. certification schemes) and how to better inform users on the quality and safety of these apps
- The Communication on enabling the digital transformation of health and care in the Digital Single Market (2018) highlights "digital tools and data for citizen empowerment and person-centred care" as a key priority and proposes common principles and certification to facilitate supply of these tools, also by Small and Medium-sized Enterprises
- CEN-ISO/TS 82304-2:2021 (health and wellness apps quality and reliability), an assignment from the European Commission to the European Committee for Standardization (CEN), International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC), delivers a common health app assessment framework and label
- The Proposal for a Regulation on the European Health Data Space (2022) calls for voluntary
 labelling of wellness apps (Article 31) and a cascading effect in medical devices that aim to be
 interoperable with Electronic Health Record systems
- Horizon Europe project Label2Enable creates ISO 17067 EU certification scheme for CEN-ISO/TS 82304-2 aligned with EU values and EU legislation, enabling accredited app assessors (third party assessment) to issue trusted CEN-ISO/TS 82304-2 health app quality labels, scores and reports

March 21, 2024



creating the common certification scheme





testing the common scheme: consistency+

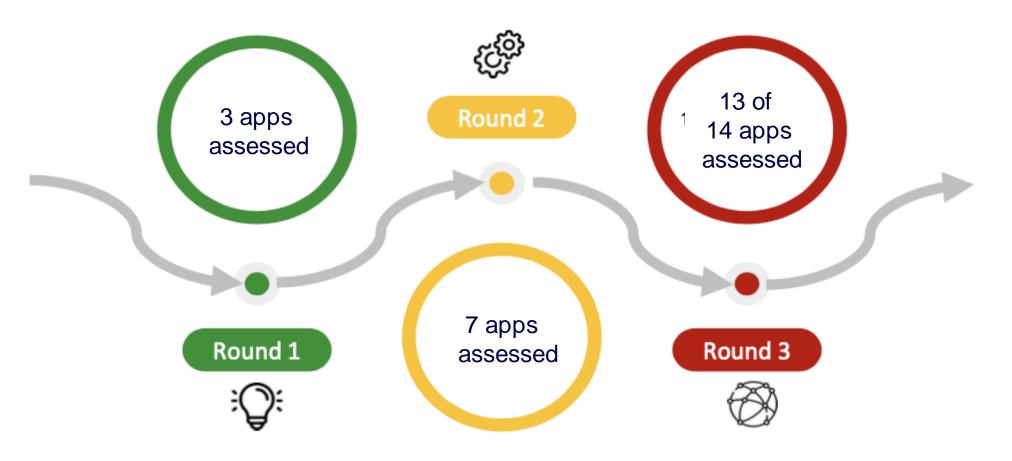






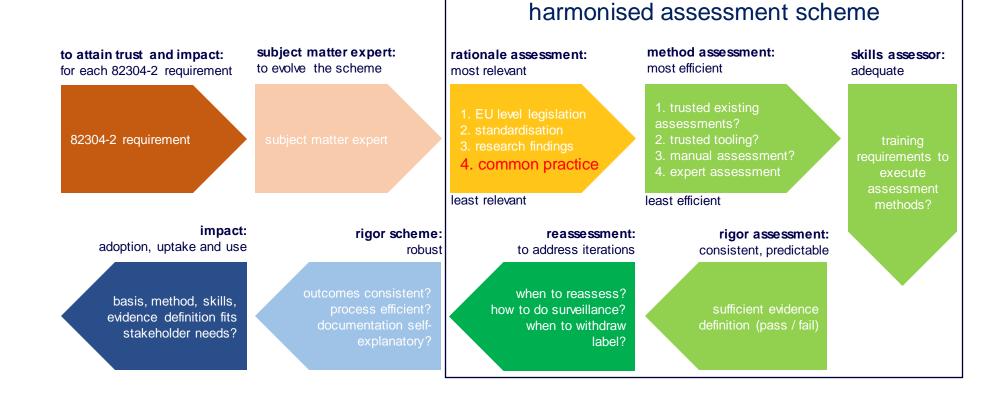








common practice – comparison





comparison – (key) requirements

- CEN-ISO/TS 82304-2
- EUnetHTA core model
- DiGA (DE)
- DAQ/DTAC (EN)
- DigiHTA (FI)
- PECAN (FR)
- Leidraad (NL)

March 21, 2024

Assessment framework for mHealth apps (AU)

- 5.2.2.1 health risks
- 5.2.3.1 ethical challenges
- 5.2.4.5 health benefit
- 5.2.5.1 societal benefit



aim 80-90-95% generic vs country-specific quality

Table 1: Mapping of assessment domains to ISO 82304-2 Health software — Part 2: Health and wellness apps — Quality and reliability standard

PROPOSED ASSESSMENT DOMAIN	ISO 82304- 2:2021	NOTES
Acceptability User, cultural and health professional acceptance that the app is suitable for its intended purpose.	Not included	This domain has been added to ensure alignment to the needs of the Australian health and wellbeing ecosystem including health care needs, intended users, models of care and our diverse multicultural population.
Safety and trust The app is free from unacceptable risk, the information included can be trusted and implications of using the app are transparent to the intended user.	Healthy and Safe	There is a strong alignment in these areas. Some of the risk measures are recommended for implementation in a later version of the Assessment Framework as medium to high risk assessment is covered by TGA. This will allow time for the assessing organisation to mature.
Ease of use The app is designed and delivered in such a way that it is accessible and usable by its intended users.	Ease of Use	
Privacy and security The app is designed and delivered to secure it from threats, complies with Australian Privacy legislation and processes personal data only with consent.	Secure Data	Privacy and Security has been modified to reflect Australian legislation and standards with the addition of Consent Management and User Control as requested by stakeholders.
Technical quality assurance The app is developed using best practices and is technically robust and, where relevant, can successfully exchange data using Australian recognised standards.	Robust Build	This has been modified to reflect Australian standards and the maturity of the app developers and assessing organisation.

Phase 1: Triage

Basic information on the app and app developer is collected. This is used to determine:

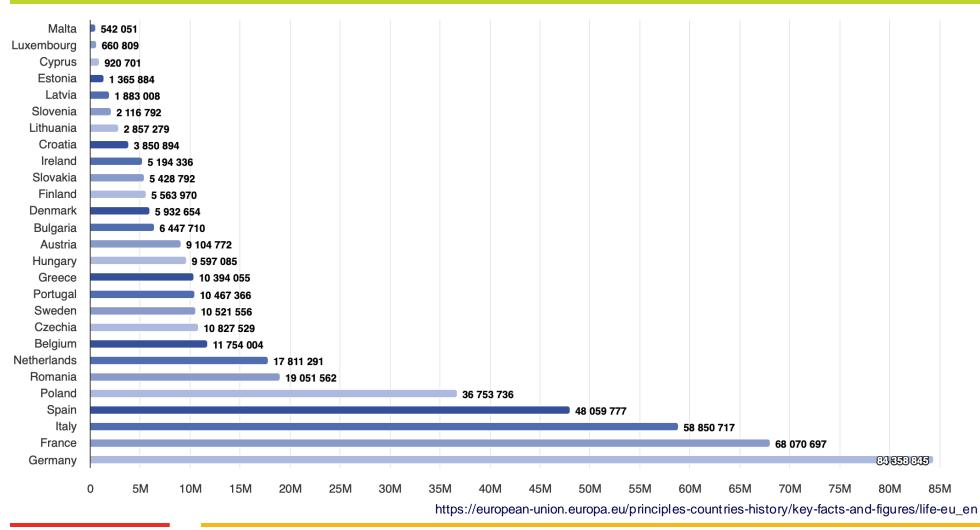
- whether the app is eligible for assessment
- whether the app qualifies for a streamlined (that is, reduced) assessment because it complies with other regulations or standards such as:
 - TGA regulation
 - ISO 82304-2 Health software —
 Part 2: Health and wellness apps Quality and reliability
- the complexity of the app, which will inform the type of assessment criteria and measures it will be assessed against.





duplication of efforts (27+) and size matters (mln)







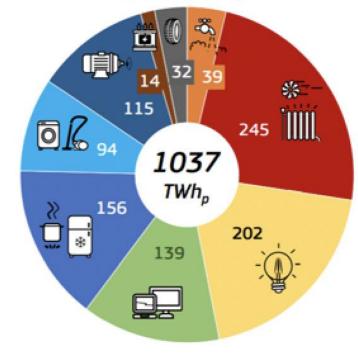
multi-stakeholder impact: EU energy label

Impacts estimates (2020 vs BaU)

- €60 billion/y in consumer expenditure (€ 210/household) based on pre-2021 energy price estimates
- Additional business revenue 21 billion euros and related jobs increase by 324 thousand

Source: Ecodesign Impact Accounting 2020

Energy savings 2020







comparison – in more detail

- topics requirements
- sub questions
- pass / fail (sufficient evidence)
- reassessment / surveillance
- context specific
 - national legislation and standards
 - national systems interoperability
 - national authorities' registration
 - national reimbursement system specifics
 - national patient identifier
 - indigenous population
 - scope digital health

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other items are considered for uptake in the proportional common scheme



over time more common? more proportional?





LabelDigitalHealth

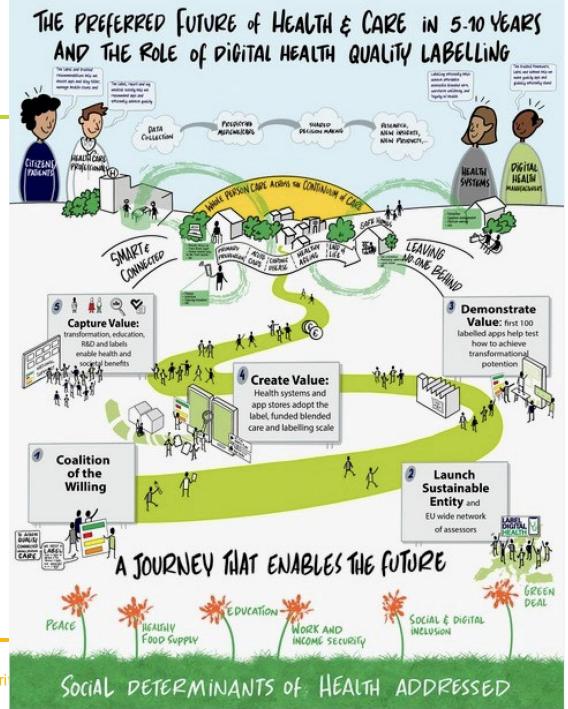
Stakeholders and **Expert Organisation**

maintains scheme

EU network of:

- Certification Bodies
- Conformity
 Assessment Bodies

 issues labels and reports





country-specific interest? do contact us



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Transforming Healthcare: A Journey Through Catalonia's Adoption of Health Apps

Carme Pratdepàdua Bufill

Leading the mHealth Office at TIC Salut Social Foundation

TIC Salut Social

Innovation and Digital Transformation

Transforming Healthcare: A Journey Through Catalonia's Adoption of Health Apps

LabelRoundtable 4 - Health Apps from a Health Authorities perspective

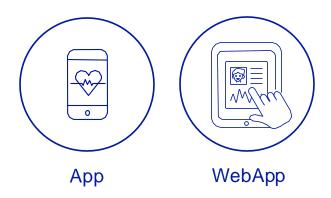
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Transforming Healthcare: A Journey Through Catalonia's Adoption of Health Apps

Digital Health Solutions



Substantial rise in availability and popularity



Importance in healthcare

- Management of personal health
 - Support to clinical practice



Redefinition of relationship



Patients

Professionals



Transforming Healthcare: A Journey Through Catalonia's Adoption of Health Apps

About Catalonia – Who we are?



Population in Catalonia on January 1, 2024.



Health care entities to provide health care services.



Universal coverage

The publicly health care system of Catalonia was founded in 1990 under the principle of universality; so all individuals and communities are able to receive the health services.



HIT fragmentation

Huge fragmentation of HIT across the Catalan Health System:

- 1 EMR for primary care.
- > 29 EMR products in the Intermediate care hospitals.
- At least 10 different systems for social care records.



12,500 M€

Catalan Health Service budget for 2020. The system is funded from general taxation and government founds and contributions.



Facilities that range from primary health care centres to hospitals and intermediate care centres.

- 369 Primary Care Centers
- 69 Hospitals
- 96 Intermediate Care Centers (long-terr
- 165 Mental Health Centers





About Catalonia – Organization



Regional Ministry of Health → Sets policy



Agència de Qualitat i Avaluació Sanitàries de Catalunya

Health Technology Assessment Agency → Quality and evaluation of new therapeutics



Public insurance → Health planning and allocation of resources

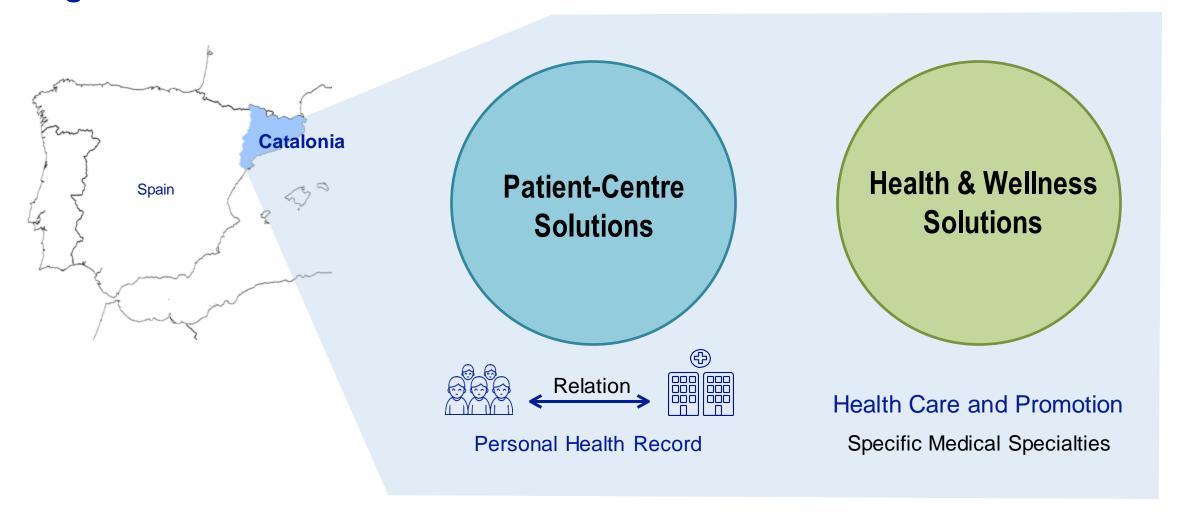


Digital transformation → Promote innovation through the digital transformation





Digital Health Solutions in Catalonia







Digital Health Solutions in Catalonia

Main Personal Health Record







Add value in the management of Health

Foster
Healthcare
Equity in Rural
Areas

•





Promoting Digital Health Solutions in Catalonia



Aim

Identify, adopt and upscale Digital Health Solutions in the public system

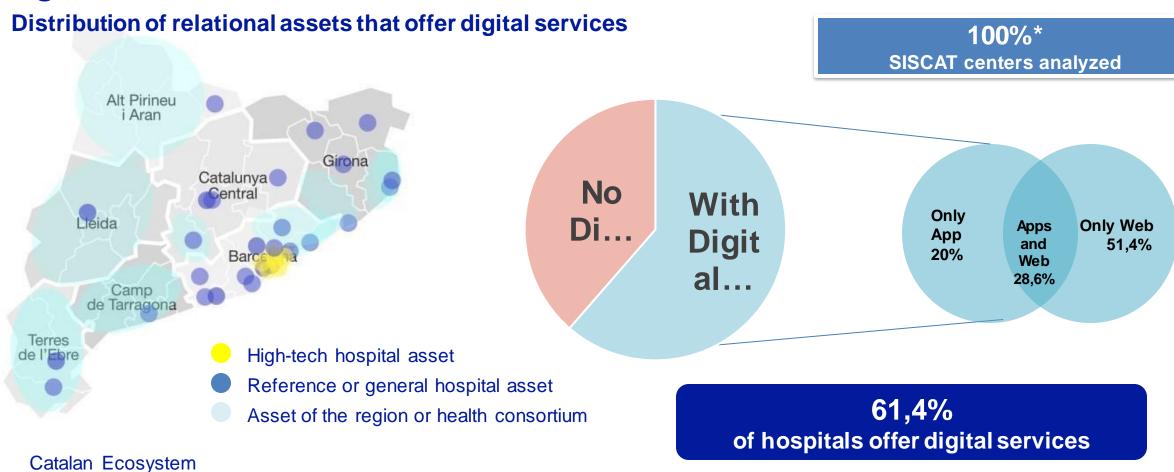
What do we present?

- Radar ADC Inventory of Solutions that exist in SISCAT
- Analysis of the services offered by public and private centers
- Good practice guide to develop solutions for Citizenship





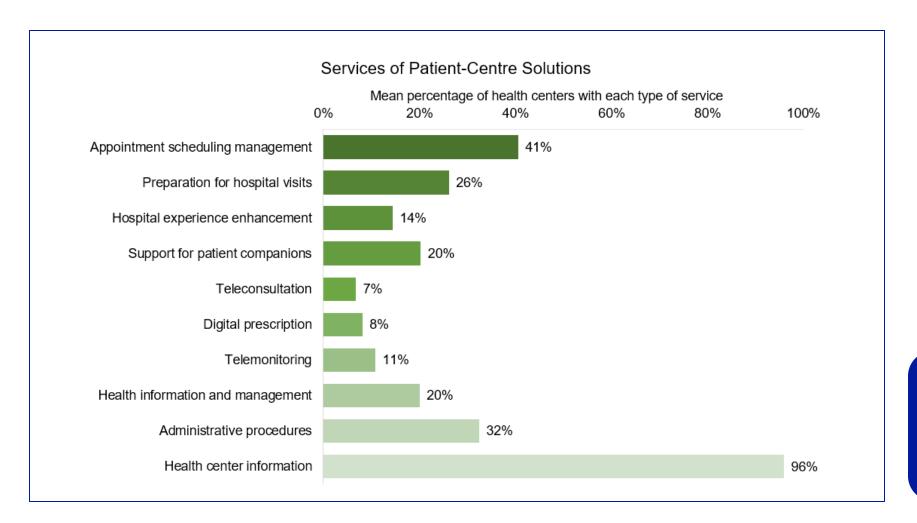
Digital Patient-Centre Solution Radar for citizens







Services of Patient-Centre Solutions

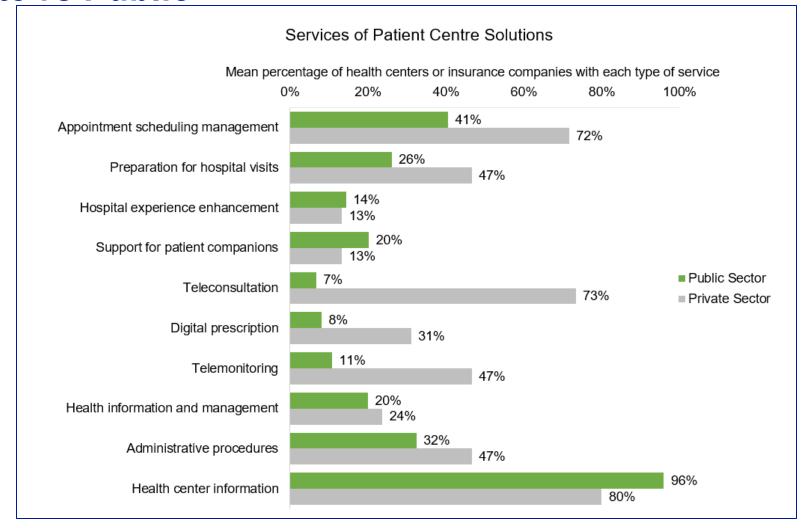


30 services grouped into 10 groups





Services Private vs Public

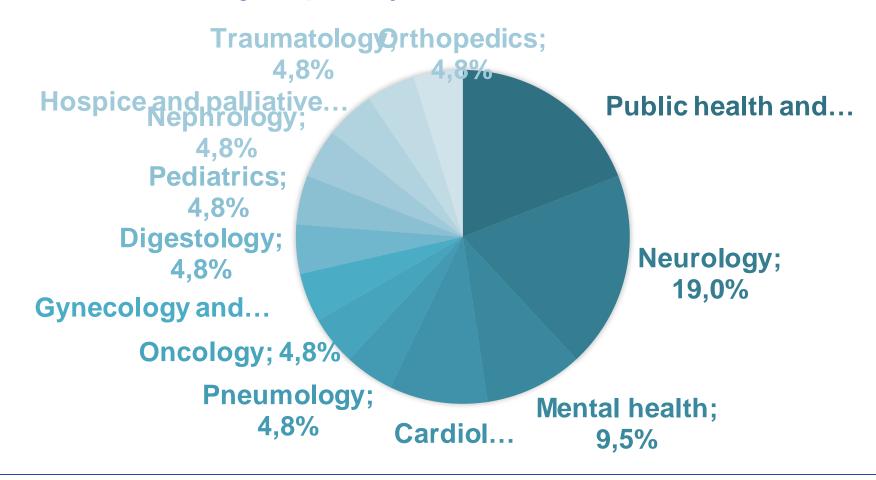




Health & Wellness Solutions

Classification according to specialty

Centers within the Public Health System





mHealth Adoption Journey

ZUID-2016

- mHealth plan
- Action Plan
- mHealth office

ZUI/-2019

- AppSalut project
- Assessment Framework for Health **Apps**
- Apps Pilot in **Primary Care** (4 centers)

ZUIJ-2020

- mConnecta **Platform**
- Pathways models:
 - Diabetes
 - Bipolar Disorder
 - Post-surgery

2021

- Diabetes tender
- Requirements for Health Apps

ZUZZ-2021

- Comparison ISO 82304-2-**FTSS** assessment framework
- Guidelines based in ISO for all providers









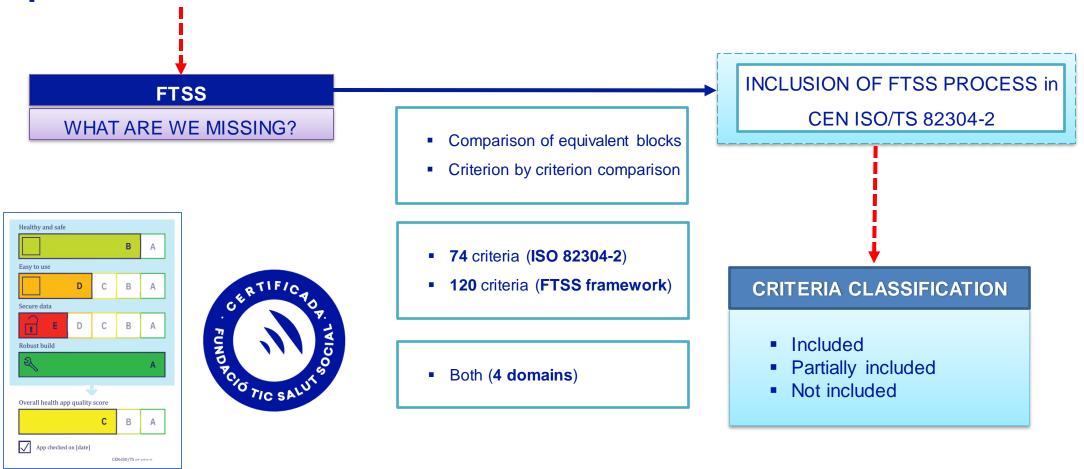








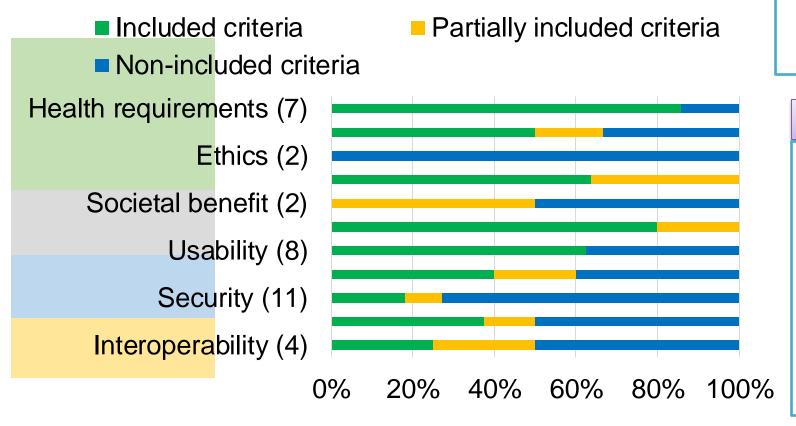
Comparison between CEN ISO/TS 82304-2 and FTSS framework







Inclusion of CEN-ISO/TS 82304-2 requirements in the FTSS certification



TOTAL

55.4%

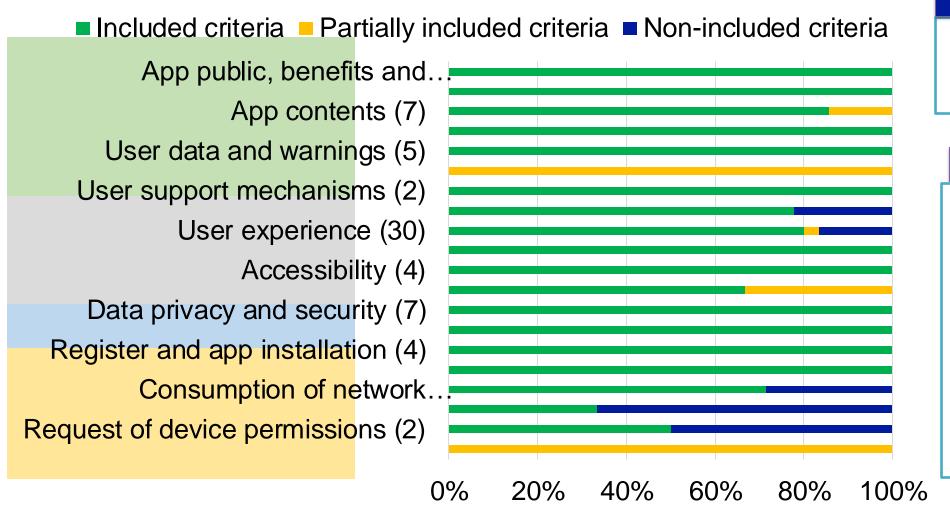
of inclusion

WHAT IS NOT COVERED?

- Ethics (Solution has been evaluated by a Comitte of ethics?)
- Societal benefits (evi
- Health risks (in FTSS sometimes ask AIPD not all apps accomplish)
- Health benefit (ask about that but we don't ask for any evidence)
- Clinical evidence (more restictive in evidence about articles)
- Security



Inclusion of FTSS criteria in CEN-ISO/TS 82304-2



TOTAL

87.5%

of inclusion

WHAT IS NOT COVERED?

- Usability (FTSS Affordance bottons user experience)
- Technical robustness (Consumption of network, behavior in front an event,
- Clinical content (minor and dependent people info)
- Wearables requirements
- Interoperability framework specific from Catalan System





Guidelines for developing Health Solutions for SISCAT



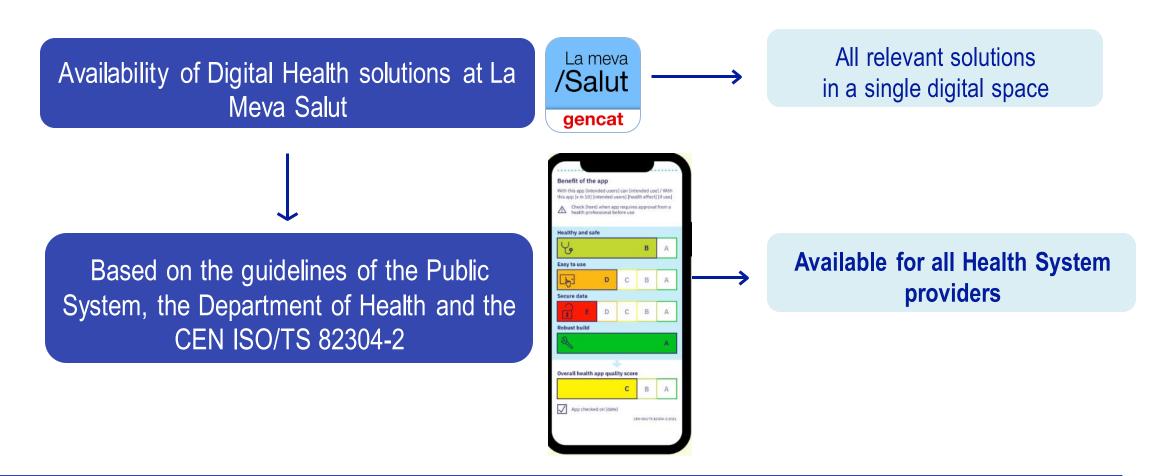
Aimed at SISCAT providers to develop **validated and secure digital solutions** with the requirements and good practices established in La Meva Salut and, thus, facilitate access to all citizens.

Robust, secure, reliable, easy-to-use digital assets that preserve data privacy and are accessible to all citizens.





Guidelines for developing Health Solutions for SISCAT





Guidelines for developing Health Solutions for SISCAT

Context and starting point

European efforts for the creation of Solutions

Healthy and Safe Content

Accessible and Usable Design

Secure Data and Privacy

Robust Technology and Performance

Availability of Solutions in LMS

Themes

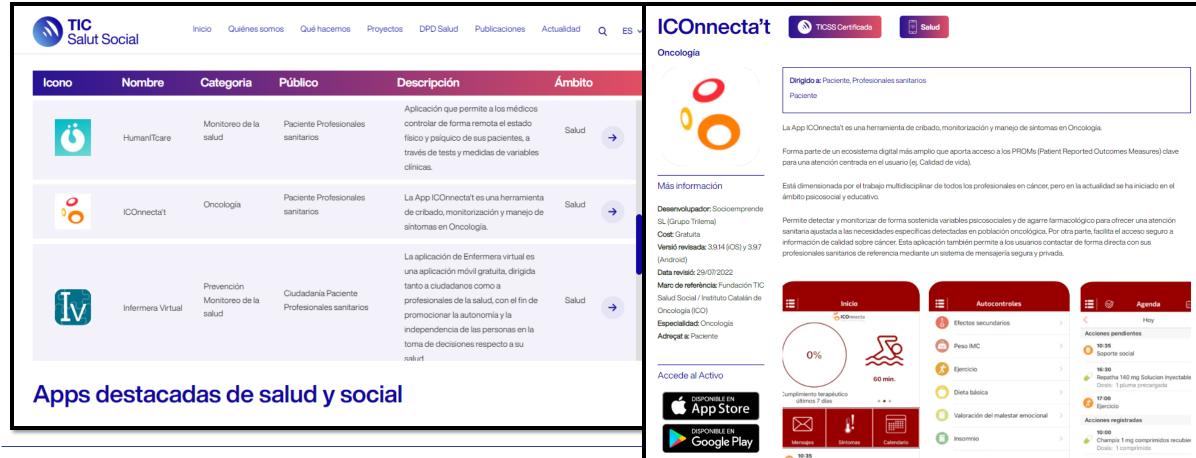




Health Apps Library

https://ticsalutsocial.cat/es/que-fem/activos-digitales-para-los-ciudadanos/actius/







Adoption of CEN ISO/TS 82304-2



More objective, the result should be the same independently of the assessor.



Increases the certification's value: global standard promoted throughout Europe.



Designed so that everyone can benefit from it. The ISO empowers patients, healthcare workers, and healthcare systems to use and recommend healthcare apps



Saving time and cross-border recognition - Developers won't have to apply for a different certification in each territory.



Easy for early adopters, saving costs due not to start from scratch.



Including digital solutions in the same space as citizens' health records seems a good technique to promote them and improve their equity

Thank you!

Carme Pratdepàdua Bufill cpratdepadua@ticsalutsocial.cat

Fundació TIC Salut Social www.ticsalutsocial.cat











Real Value of Patient-centered Positive Health Effects of Digital Medical Devices: Lessons from the German DiGA

Liyousew Borga Luxembourg Institute of Health











Positive Care Effects of DiGAs

Digital Healthcare Act (DVG)

- One or more "positive healthcare effects"



Medical Benefit

Outcomes that are known from trials of clinical or pharmaceutical interventions:

- □ based on the corresponding standards for the evaluation of drugs
 - improvement of the state of health,
 - reduction of the duration of a disease,
 - prolongation of survival, or
 - improvement in the quality of life.



Patient-relevant improvement of structure and processes (pSVV)

Outcome core area in the context of proof of benefits:

- offer good and new possibilities for improving care, especially regarding processes in the patient
 - detection, monitoring, treatment or alleviation of disease / injury / disability
 - supporting the health behaviour
 - ☐ **integrating** processes between patients and providers









pSVV: Untapped Potential

The motivation behind adding **pSVV** was to **empower patients** to become more active and informed, encourage shared decision-making, and promote health literacy.

- ☐ It increases patient-centeredness in healthcare delivery and contributes to the principles of value-based healthcare.
- □ Patients have low-threshold access to qualityassured digital health applications.

Lack of widespread understanding of **pSVV** among stakeholders



- pSVVs are underutilized by DiGA applicants
- Established methods for measuring **pSVV** outcomes are limited
- Economic value of *pSVVs* not fully demonstrated









Domains of Patient-Centred Improvement

ADHERENCE

Involves patients actively following parts of the therapy agreed with their physician, with DiGA increasing adherence by integrating health behaviours into daily activities.

COORDINATION OF TREATMENT

Supports coordination between healthcare providers and patients, leading to improved care through adapted therapies and accessible communication.

FACILITATING ACCESS

Improves access to healthcare services, ensuring reliable and equitable health support.

PATIENT AUTONOMY

Empowers in health management and decisionmaking, utilizing their knowledge for better outcomes and quality of life.

REDUCTION OF EFFORTS

Streamlines treatment and disease management, reducing stress and improving safety through simplified procedures and targeted physician visits



















ALIGNMENT OF GUIDELINES

Ensures treatments align with guidelines and standards by translating medical instructions into patient-friendly formats.

COPING WITH ILLNESS

Helps manage daily challenges by utilizing technology for early warnings, facilitating remote monitoring, and developing coping strategies.

HEALTH LITERACY

Enhances understanding and application of health-related information, crucial for informed decisions and successful therapy outcomes.



LUXEMBOURG INSTITUTE

PATIENT SAFETY

errors, or side effects.



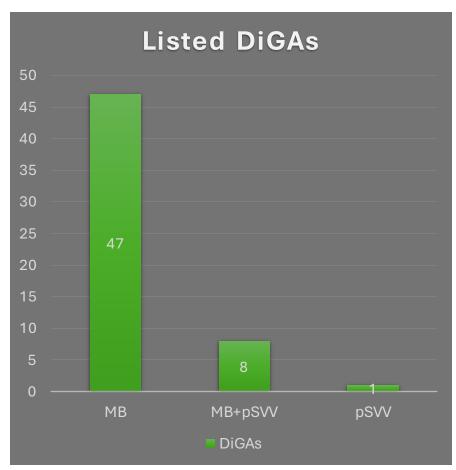
Extends quality and safety measures

to the home, enabling recognition

and response to treatment risks,



pSVV: Underrepresented in Current DiGAs





56 DiGAs listed, Mar. 2024











Are DiGA Developers Embracing pSVV?

	DiGA	Condition	Core <i>pSVV</i> Area	Endpoint	Instrument	
	Cara Care	Irritable bowel syndrome	Coping with illness-related difficulties in everyday life	Work Impairment	Work Productivity and Activity Impairment questionnaire (WPAI:IBS)	
9			Health literacy	Health literacy	European Health Literacy Survey Questionnaire (HLS-EU-Q16)	
edu	education.com®	Mild depressive episode Recurrent depressive disorder	Health literacy	Health literacy	Depression Literacy Questionnaire (D-Lit)	
	Kranus Edera	Impotence of organic origin	Patient sovereignty	Patient sovereignty	Patient Activation Measure-13 (PAM-13)	
Tinnitus	Meine Tinnitus App	Tinnitus aurium	Coping with illness-related difficulties in everyday life	Change in perception, behaviour and dealing with tinnitus	Bochum Change sheet 2000 (BVB-2000)	
M	Mindable	Agoraphobia Panic disorder	Patient sovereignty	Patient sovereignty	Anxiety Control Questionnaire (AKF)	
₽ P	ProHeart	Heart failure	Alignment of treatment with guidelines and recognized standards	Alignment of treatment with guidelines	9-item European Heart Failure Self-Care Behaviour Index (EHFScBS)	
₽ ♥			Health literacy	Health literacy	Atlanta Heart Failure Knowledge Test (AHFKT)	
velibra°	velibra	Agoraphobia Panic disorder Generalized anxiety disorder	Reduction of therapy-related expenses and burdens on patients and their relatives	Patients' general psychological stress	Brief Symptom Inventory (BSI)	
VORV!DA	vorvida	Mental and behavioural disorders caused by alcohol	Patient sovereignty	Patient sovereignty	Alcohol abstinence self-efficacy questionnaire (AASE-G)	









The Measurement Hurdle?

Evaluation Framework

Relatively new focus within the digital health evaluation landscape.

Broad Domains

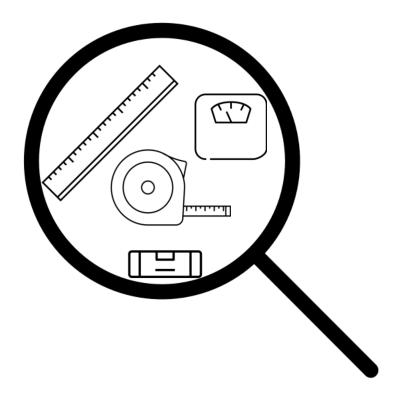
Some domains are broad and multifaceted (e.g., "Coordination of Treatment Processes").

Standardized Tools

For some **pSVV** outcome categories, validated outcome measurement instruments are lacking.

Evidence Generation

pSVV evidence can be more challenging to generate \rightarrow less clear path to reimbursement.











The Real Value of *pSVV*



Up to a FIFTH of health spending in OECD countries is at best ineffective and at worst, wasteful*

Failures of care delivery

Failures of care coordination

Overtreatment

Administrative waste

Pricing failures

Fraud and abuse

Patients do not receive the right care

Benefits could be obtained with fewer resources

Resources are unnecessarily taken away from patient care



- □ *pSVV*'s have potential for long-term cost savings and improved health outcomes.
- Economic value hidden in patient outcomes
 - Undervalued potential in healthcare efficiency
- ☐ Challenge in quantifying economic benefits of *pSSVs*









Conclusion: The Path Forward

Quantify Impact:

☐ Standardize methods to measure *pSVV's* healthcare outcomes and economic benefits.

RWD/RWE:

☐ Promote novel study methodologies.

Reimbursement:

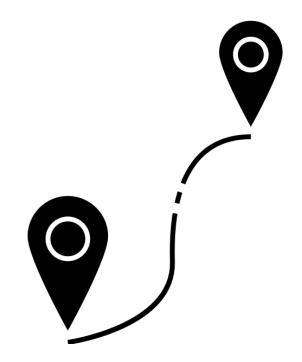
☐ Rethinking reimbursement models to reward patientcentred innovation.

Engagement:

- ☐ Greater support for DiGA developers targeting **pSVV** outcomes.
- ☐ Engage all stakeholders in all phases: development, testing, policy dialogue.

Harmonisation:

☐ International harmonisation of best evidentiary practices











THANK YOU

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Postdoctoral Fellow: Digital Medicine Group

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For more information visit: www.lih.lu

Join us on social media:

















Challenges and recommendations for the reimbursement of health apps

Tatjana Prenda Trupec International Consultant



Challenges and recommendations for the reimbursement of health apps

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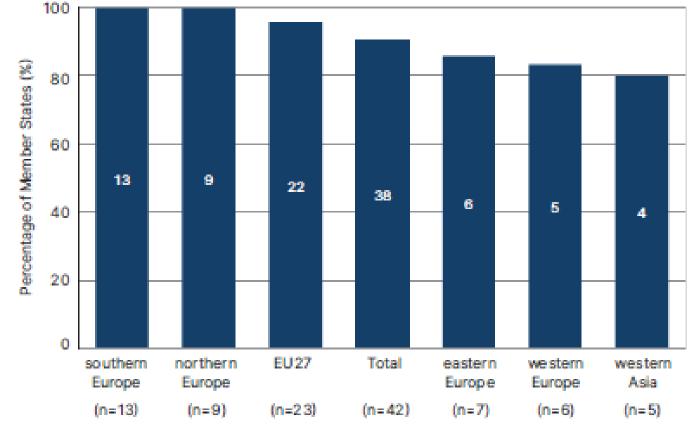
Label2Enable_4th Roundtable on Health Apps from Health Authority Perspective

March 21, 2024

LABEL2



Percentage of Member States that reported at least one government-sponsored mHealth project



91% of WHO EU Member States (38 out of 42) reported having at least one government-sponsored mHealth programme.

from Toni Dedeu's presentation for the 3rd roundtable on the reimbursement of health apps Feb 13

Note: central Asia is not included in the figure as only one Member State replied to this question.

https://cdn.who.int/media/docs/librariesprovider2/data-and-evidence/english-ddh-260823_7amcet.pdf?sfvrsn=4c674522_2&download=true



product people payment challenges solutions challenges a solutions challenges solutions existing budgets device ownership platform availability fit existing scheme: e.g. product/pathwa Challenges tariff when not yet proven contribution patient (vs equity) abundance of apps funding mechanism CE marking Al, including equity financial incentive hcp equity clinical evidence patient safety funding scope trusted assessment substitution transformation costs trusted recommendations complement to in person care trust business model hospital data security (patients, hcps) cost effects skills / training assessment costs (manufacturers, customers sustained use (patients, hcps) (financial) incentives evolving nature (patients, hcps) investor interest infrastructure smaller countries/languages: not EU but national responsibility time constraints - lack of HTA body copy paste front runners not feasible disruption workflow - other priorities regional/municipal healthcare interoperability market influence capacity regulation care pathway integration what is sufficient evidence assessment methods when to reassess / surveillance standardisation assessment scheme awareness roles and responsibilities predictability outcome rigor / scoring mechanism uptake in clinical guidelines ansparency process requirements maintenance assessment framework

challenges solutions

policy

challenges solutions

place

challenges solutions procedure / process why

are health

apps rarely

reimbursed

and wellness



Current EU legislation on the reimbursement of health apps

Reimbursement of apps in the healthcare sector is <u>not</u> regulated at EU level

Why?

Public Health is a shared competences (Art 168 TFEU)

- Member States define and deliver healthcare, including allocation of resources
- EU's actions are complimentary, focusing on cross-border aspects and harnessing new technologies for the benefit of efficient health systems

from Petra Willson's presentation for the 3rd roundtable on the reimbursement of health apps Feb 13



Reimbursement models are defined by national law

Existing approaches selected markets – as reported by EFPIA*

Country	National value	National	Available funding
	assessment	reimbursement	mechanisms
	framework	pathway	
	DTx clinical and/or	Apps in Level M3 of	Centralised funding
	socioeconomic value	Validation Pyramid	for mHealth apps
Belgium	evaluated through	reimbursed by payers	
	Validation Pyramid		
	DiGA process:	DiGA process:	GKV-SV centralised
	Standalone DTx evaluated	All listed DiGA are	funding for DiGA
Germany	by BfArM	reimbursed	
		Apps in Level M3 of	Centralised funding
		Validation Pyramid	for mHealth apps
France†		reimbursed by payers	

^{*}https://www.efpia.eu/media/677347/improving-access-to-digital-therapeutics-in-europe.pdf,

European Federation of Pharmaceutical Industries and Associations

from Petra Willson's presentation for the 3rd roundtable on the reimbursement of health apps Feb 13





Reimbursement models are defined by national law

Existing approaches selected markets – as reported by EFPIA*

Country	National value assessment framework	National reimbursement pathway	Available funding mechanisms
Netherlands			Covered by individual health insurers
Spain			Evidence of limited regional reimbursement
Sweden			
UK	NICE has developed evidence standards framework for digital health technologies		Can be funded locally by Integrated Care Systems

^{*}https://www.efpia.eu/media/677347/improving-access-to-digital-therapeutics-in-europe.pdf, from Petra Willson's presentation for the 3rd roundtable on the reimbursement of health apps Feb 13







Recommendations for the reimbursement of health apps

Results of three 3-hour roundtables in 2023/2024 with 135 participants from 34 countries, focussing on 1) EU Member States' challenges in reimbursement of health apps, 2) multi-stakeholder solutions to these challenges, and 3) Member State decision-makers' perspectives.

1. Value

Acknowledge apps can do things that pills can't (and vice versa). Approximate with key stakeholders the added value of apps for health, public health and care (e.g. for health literacy, healthy behaviours, early diagnosis, personalized shared decision-making, self-management, remote consultations, symptom monitoring, multidisciplinary care delivery, treatment adherence, recovery, efficiency, primary and secondary use of (big) data), suggest accepted endpoints for studies and revisit this effort periodically.

2. Focus

Identify which (packages of) types of apps or their functional components for which health issues and which patients, and if applicable integrated in which care pathways are likely to add value. Prioritize these apps according to value added and explore existing policy goals, political support and day-to-day challenges. Start small, consider a pilot and assess the need for changes in or additions to policies and legislation.

3. Govern

Establish who or more specifically which multidisciplinary collaboration within or beyond the health authority is responsible for policymaking, evidence generation, innovation promotion, assessment, reimbursement, transparency, education and transformation (data usage). Manage change.

4. Create

Enable manufacturers. clinicians and researchers to achieve more evidence-based, effective, value-adding apps and care pathways. Use adequate outcome measures to quantify the (potential) value of individual health apps and blended care pathways, and study how to create, capture and measure it. Harmonise accepted endpoints, comparators etc. where possible.

5. Assess

Determine quality requirements, assessors (internally and/or trusted third parties), assessment methods and what is sufficient evidence. Consider the trusted EU-initiated global CEN-ISO/TS 82304-2 framework as a basis, adding country specific requirements on top, to increase health system and manufacturer efficiency and avoid a duplication of efforts.

6. Inform

Ensure intended users and prescribers are aware of and able to easily access positively assessed value-adding apps (e.g. quality label in app stores and frequently used trusted sources).

7. Fund

Allocate funding for value-adding apps and / or related blended care pathways. Consider innovative payment models, transparent criteria, and incentivizing all stakeholders involved (manufacturers, users, prescribers, providers) to achieve equitable sustainable use of value-adding apps at scale. Have pricing reflect the added value and needed investments.

8. Transform

Create the environment in which quality apps can deliver value: integrate into clinical guidelines. pathways, prescription practice, and care delivery. Educate and support health professionals and citizens to increase digital literacy, attain equitable sustained app use and capture value of data. Enable internet access, interoperability and safe data exchange with EHR systems. Use standards.

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- P	2 II 68	2			E	D		

WHO European Member States:

most important barriers to mApp integration into clinical practice ¹

(72% of European Member States (MS) lack regulatory oversight entity for mApps)

В

61% MS: lack of evidence effectiveness of mApps in clinical practice

В

Healthy and safe

75% MS: privacy, security (15% MS reported evaluating mHealth)

Secure data

77% MS: lack of a trustworthy source to access effective mApps

WHO: evaluations should inform investment and implementation decisions

73% MS: lack of patient digital literacy

В

9. Measure to scale

Overall health app quality score

Identify key value indicators and measure and present value transparently. Realise that the measurements will only reflect the attainable value when apps are quality-proven effective, where applicable integrated into care pathways, if users are sufficiently enabled, if the resulting data is used, if appropriate outcome measures, scope, comparators are utilised, etc. Explore, again in a multi-stakeholder effort, what are the promising next steps to capture the attainable value of health apps.



Health apps



Adopting CEN-ISO/TS 82304-2 and a trusted EU mHealth label for a single market that enables patients, citizens, health professionals, systems and authorities to benefit from a healthy supply of useful apps.

Thank you for your attention



Country-Specific Interest? Do Contact Us



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Thank you for your attention

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