

Label2Enable

defining success of labelling in 5 to 10 years

3rd multi-stakeholder workshop – Nov 3, 2023

Petra Hoogendoorn

there are great apps, but how to find them?

App Store Preview

mySugr - Diabetestracker-log

Suggesties voor jou



Dexcom Clarity
Geneeskunde



Glycemische index.
Diabetes
Geneeskunde



Glucose Blood Sugar
Tracker
Geneeskunde



Diabetes:M
Geneeskunde



LibreLinkUp
Geneeskunde



Diabeto Log Diabetes
Logboek
Geneeskunde



Glucose Buddy
Diabetes Tracker
Geneeskunde



Dario Health
Geneeskunde



iHealth Gluco-Smart
Gezondheid en fitness



One Drop: Better Health
Today
Gezondheid en fitness



iHealth Myvitals
(Legacy)
Gezondheid en fitness



Klinio: Diabetes
guidance app
Gezondheid en fitness



Glooko - Track Diabetes
Data
Geneeskunde



Sugarmate | Diabetes-
tracker
Geneeskunde



Glucose tracker++
Geneeskunde



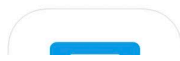
Diabetes Food Tracker
~ Fittur
Gezondheid en fitness



Carbs & Cals: Diet &
Diabetes
Gezondheid en fitness



DiabetesPal
Geneeskunde

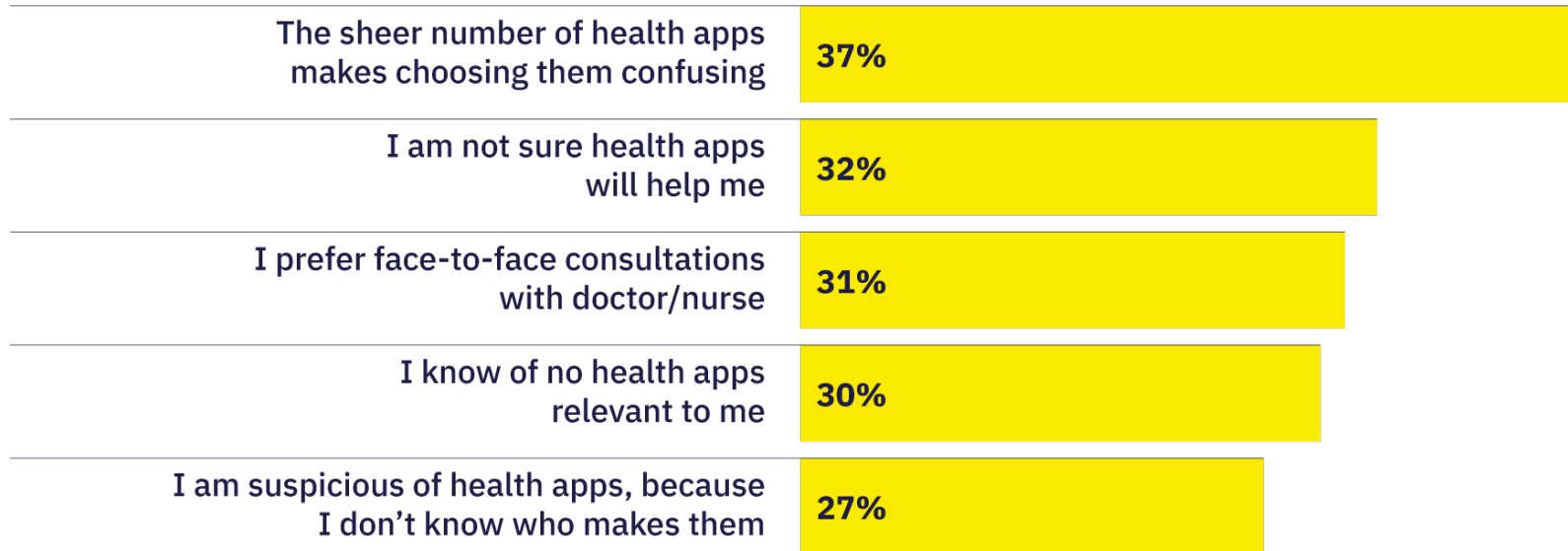


Wyatt (2018) How can clinicians, specialty societies, and others evaluate and improve the quality of apps for patient use?

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

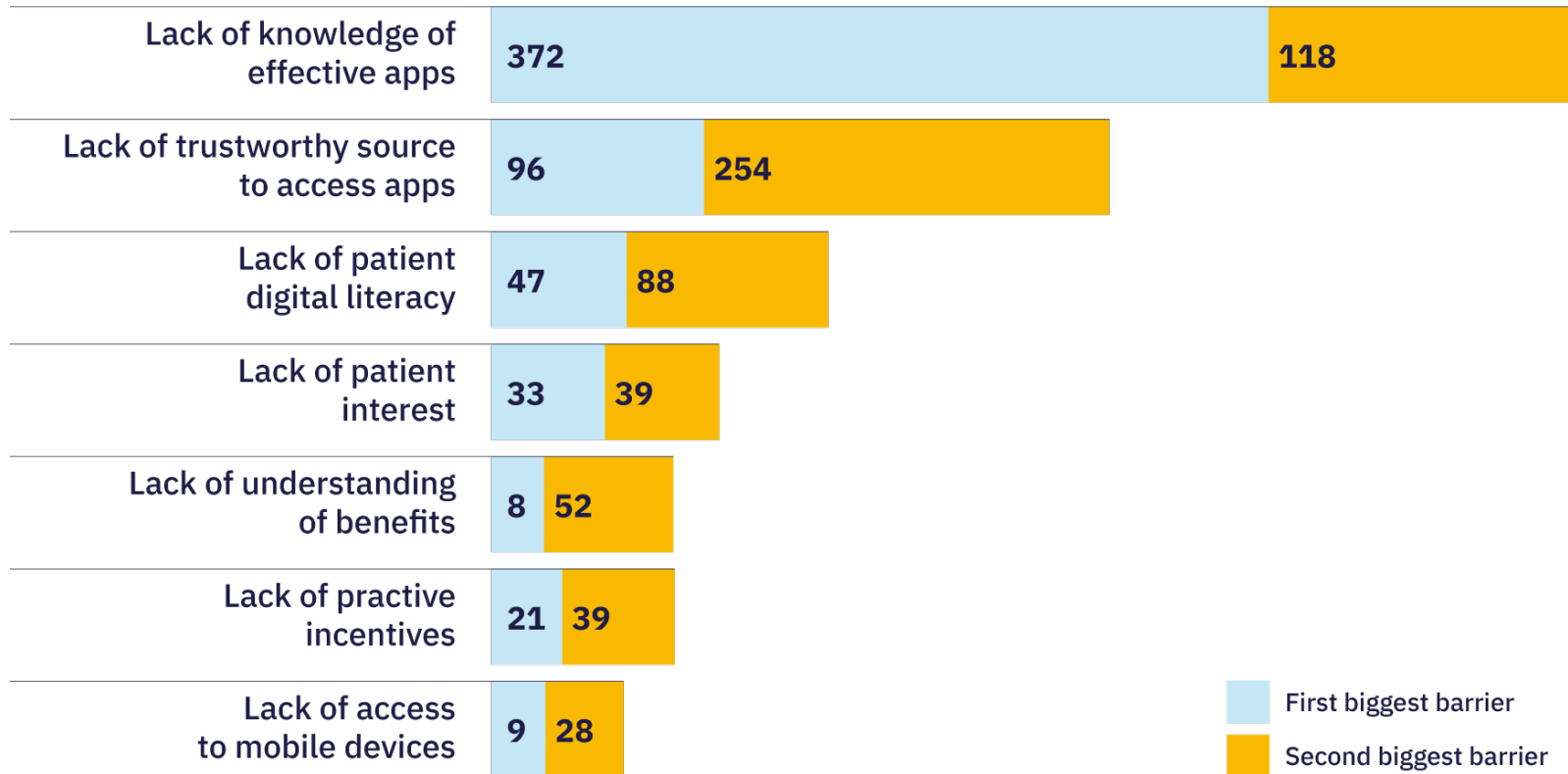
Singh et al. (2016) Many health apps target high-need, high-cost populations, but gaps remain

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

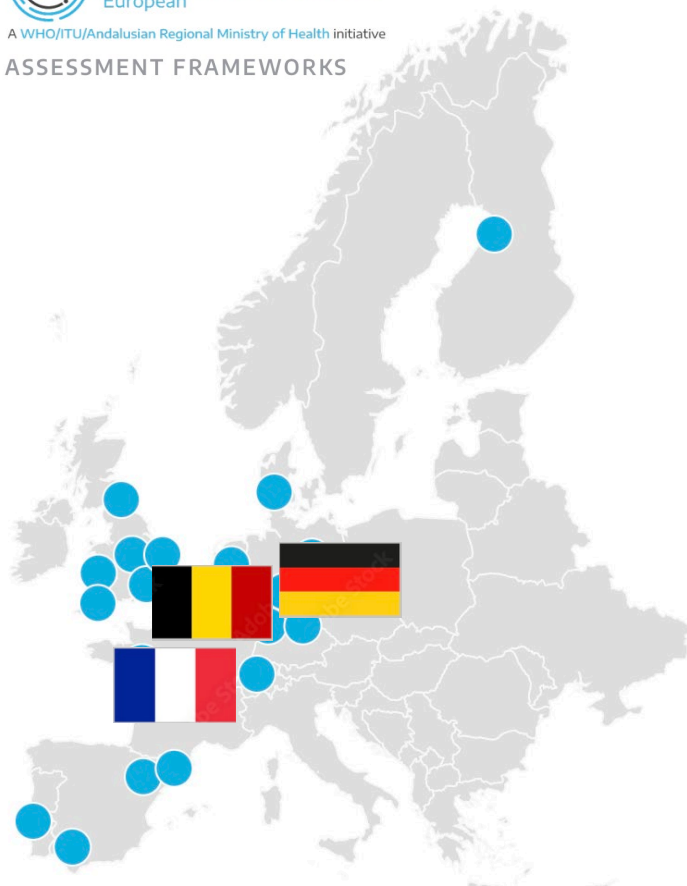
choosing a 'good' health app is difficult



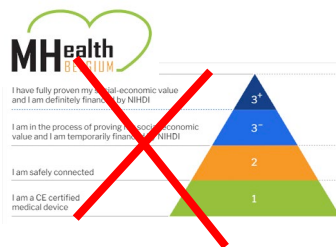
Byambasuren et al (2019) Current knowledge and adoption of mobile health apps among Australian General Practitioners: Survey study

delivering a 'good' health app is difficult

mHealthHUB
European
A WHO/IU/Andalusian Regional Ministry of Health initiative
ASSESSMENT FRAMEWORKS



mHealth Hub (2022) Health App Assessment Frameworks



Early access to reimbursement for digital devices (PECAN)



reviewing a 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

ISO/TS 82304-2 helps choose, deliver and review apps

Flag or logo Health app quality label

App icon App name

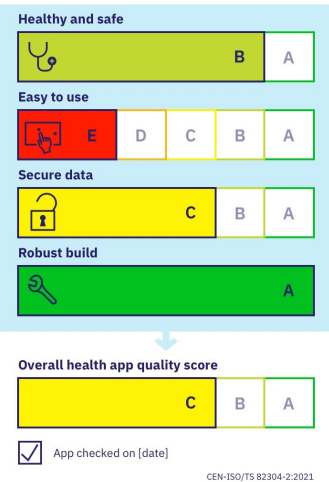
Platform icons

Name app manufacturer

Benefit of the app

With this app [intended users] can [intended use] / With this app [x in 10] [intended users] [health effect] [if use]

⚠ Check [here] when app requires approval from a health professional before use



Comprehensive

For wellness and medical device apps, not duplicating the work of notified bodies

Evidence-informed

Inspired by the EU energy label: used by 85% EU consumers and in 59 non-EU countries

Inclusive

Label tested with people with low health literacy

Informative

Score, label and report communicate quality in a glance to the needed detail

Proportionate

At most 81 questions, of which at most 67 score-impacting yes/no questions

Testable

Yes-answers require evidence to be assessed by accredited app assessors

Relevant

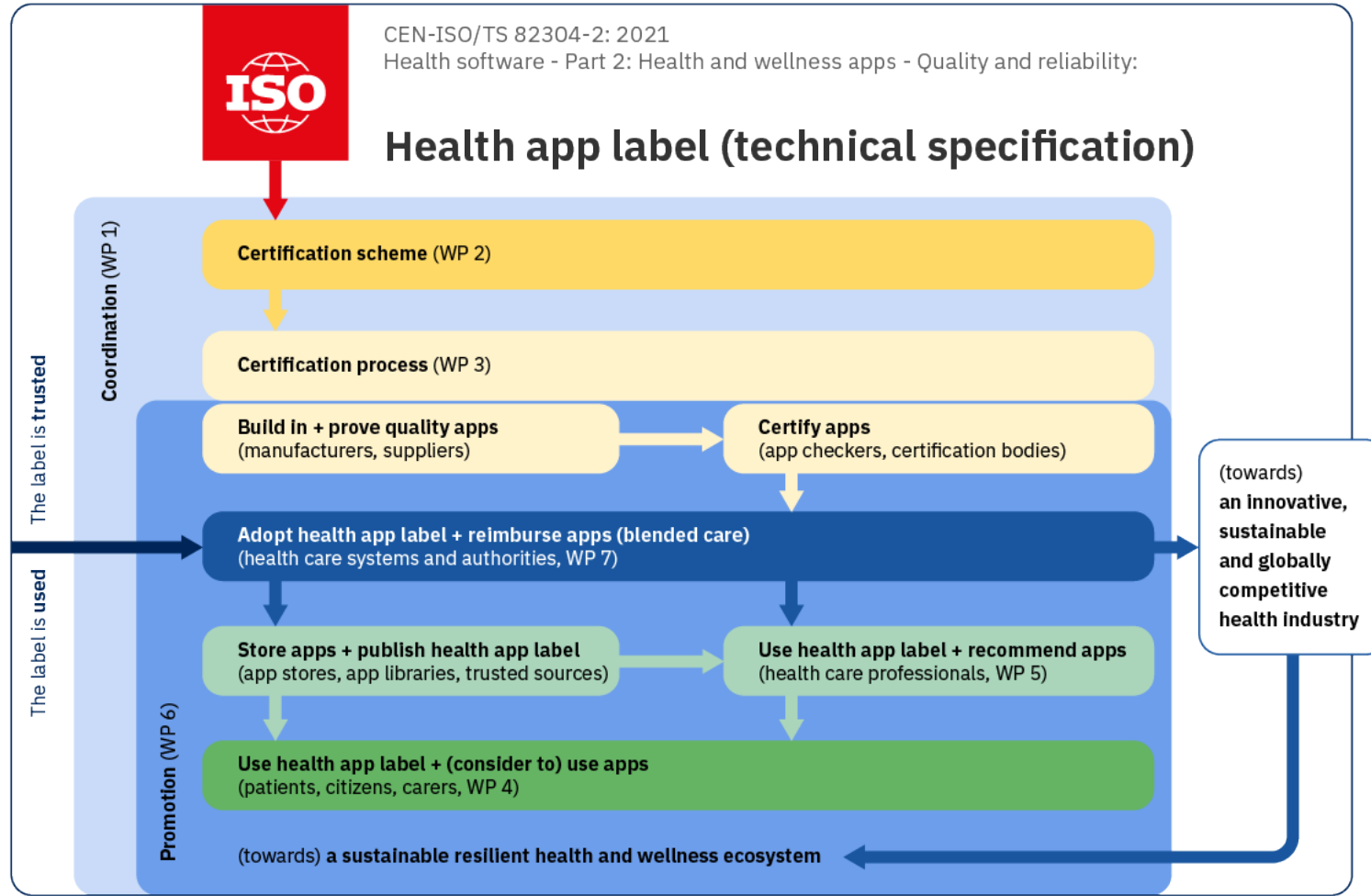
Assessment framework founded in a Delphi study with 83 experts from 8 stakeholder groups

Maintained

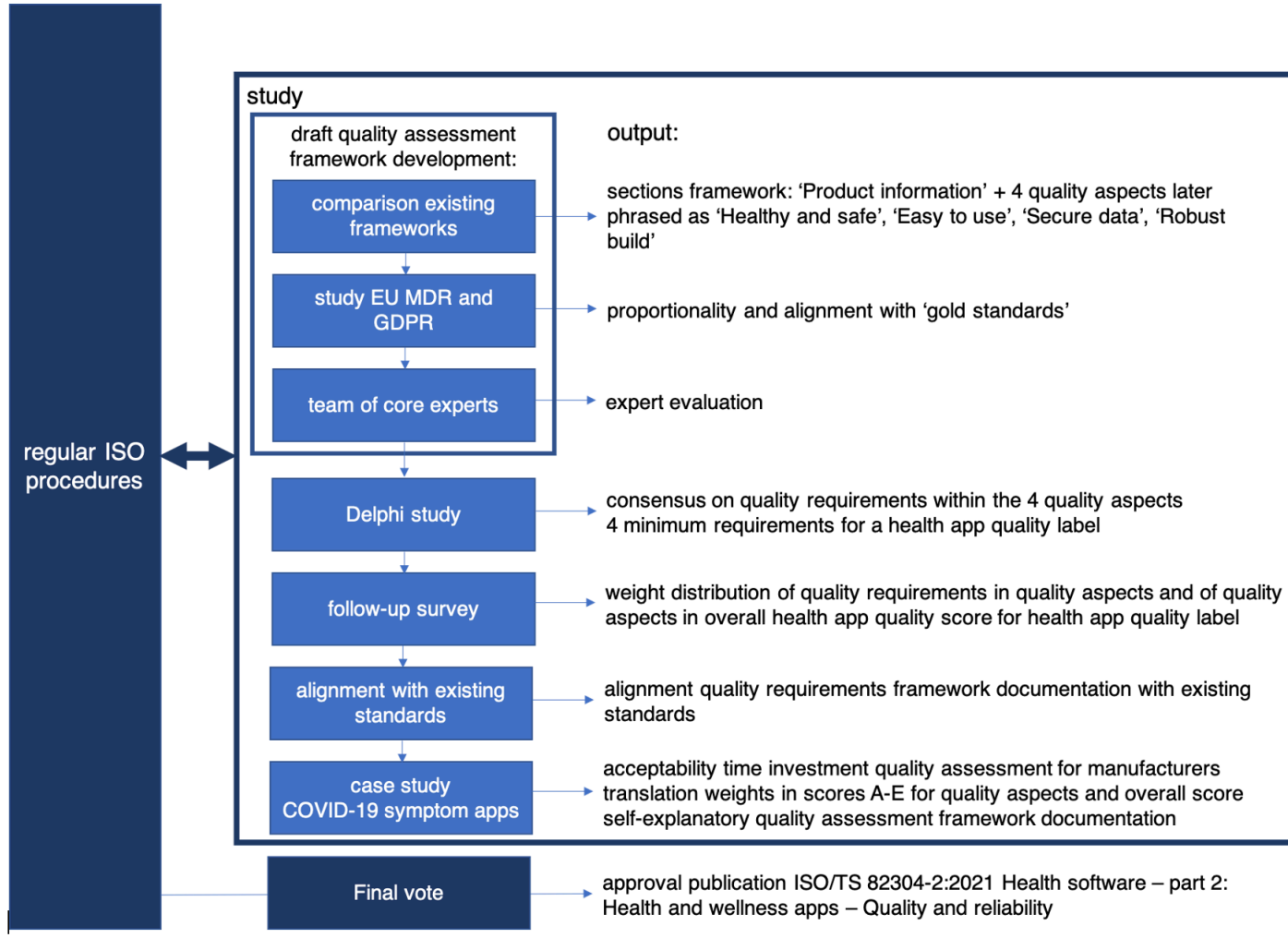


https://ec.europa.eu/commission/presscorner/detail/en/MEMO_19_1596

multi-stakeholder

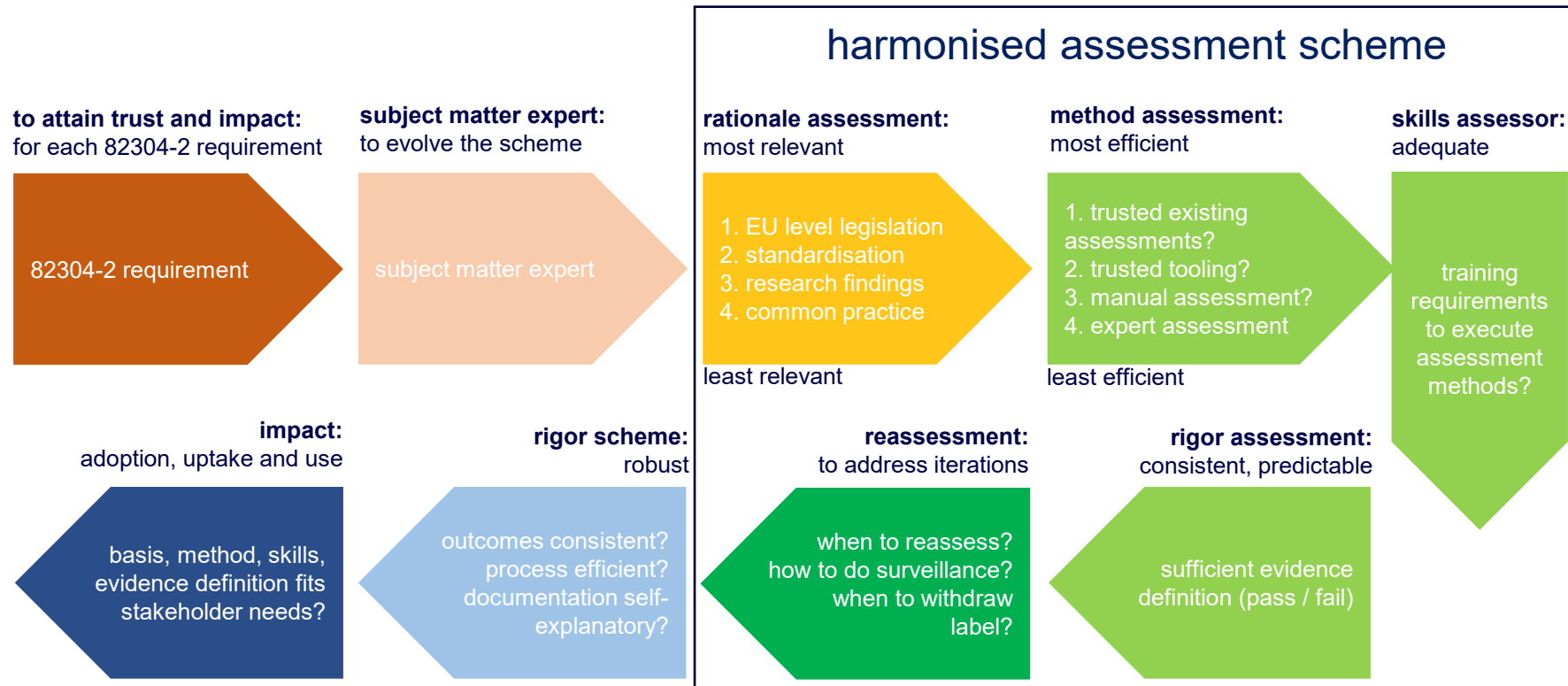


useful, proportional, ...

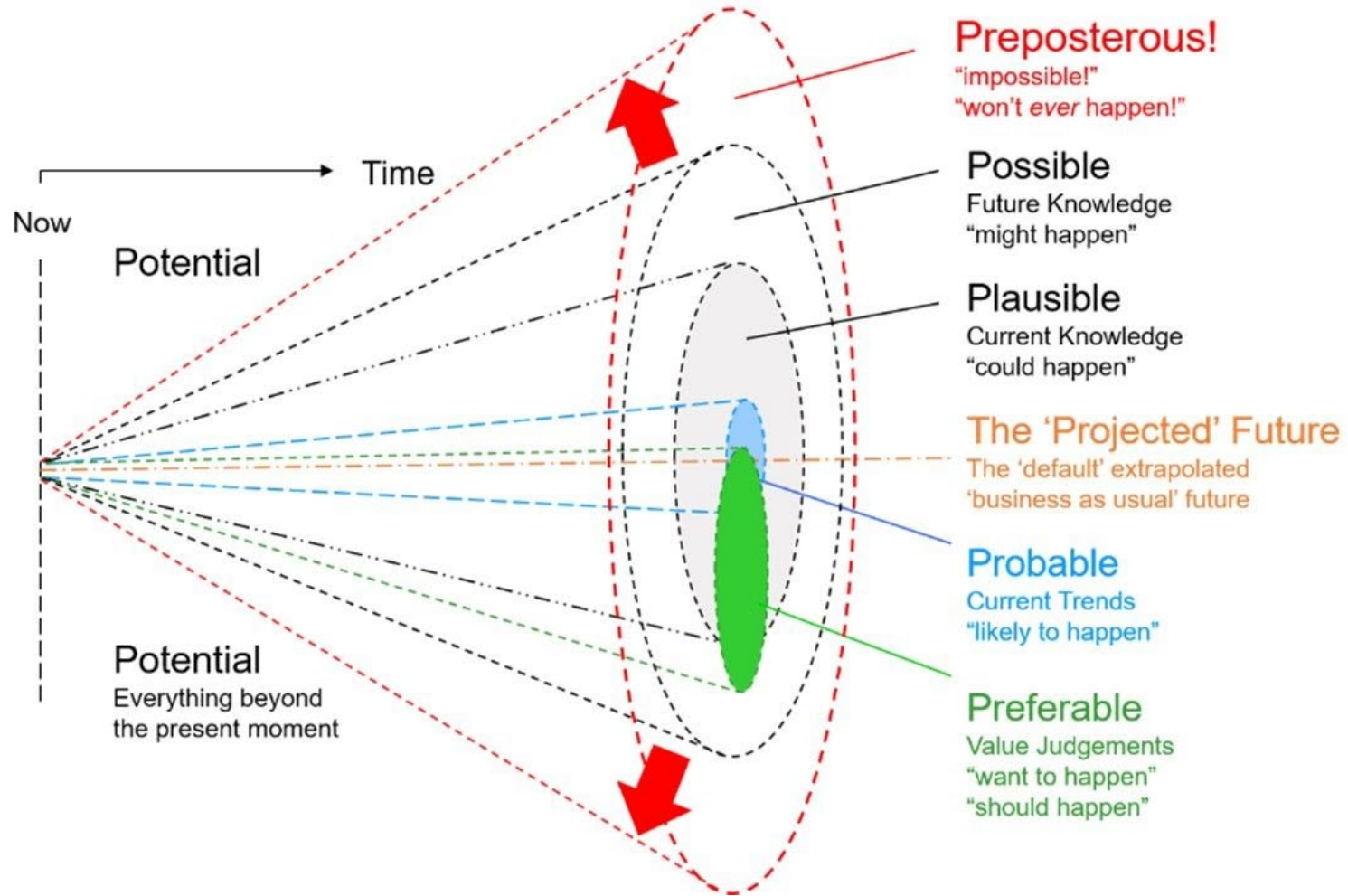


Hoogendoorn et al (2023)
 What makes a quality health app – Developing a global research-based health app quality assessment framework for CEN-ISO/TS 82304-2: Delphi study

trusted, scalable, self-explanatory, etc.

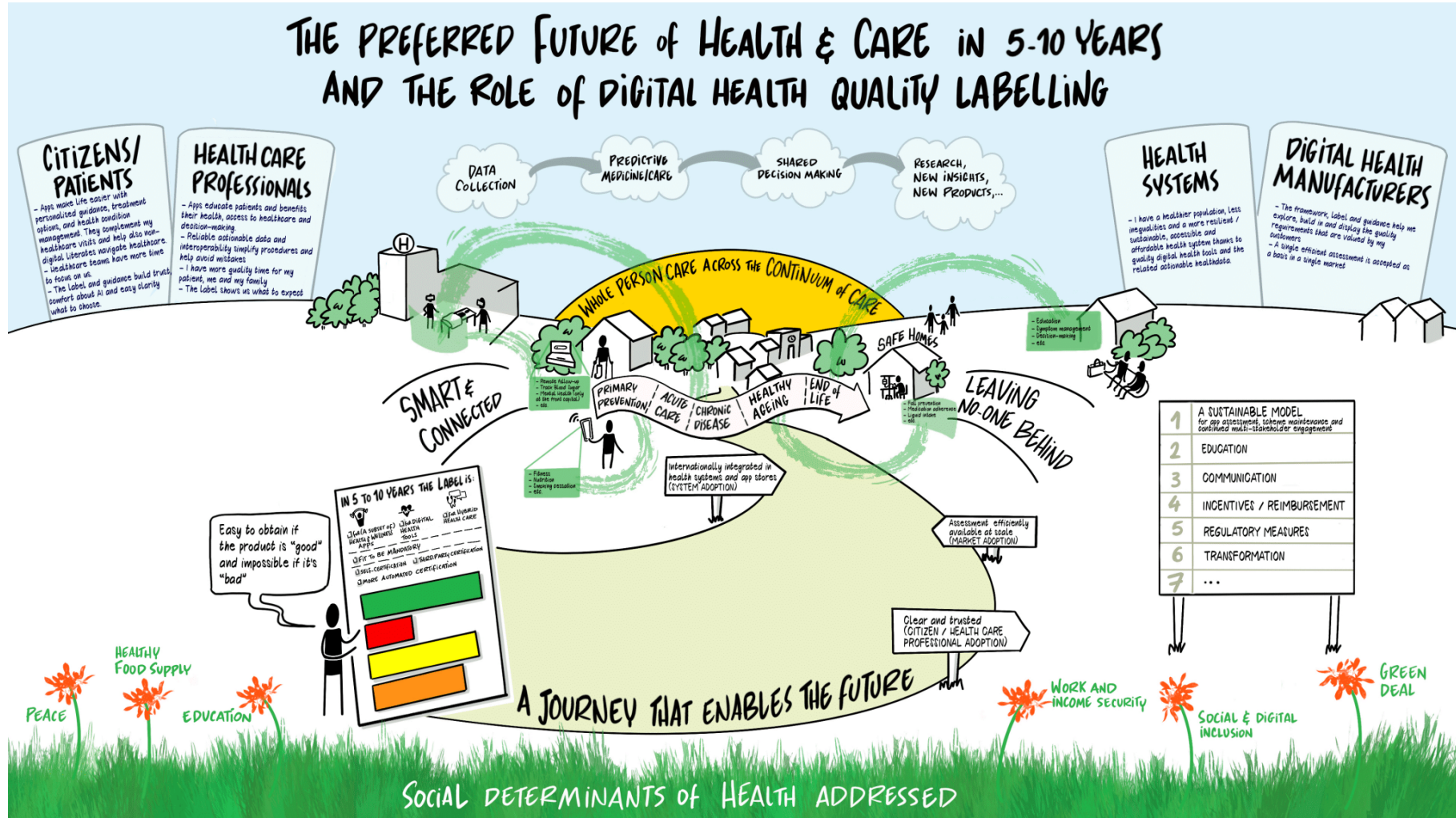


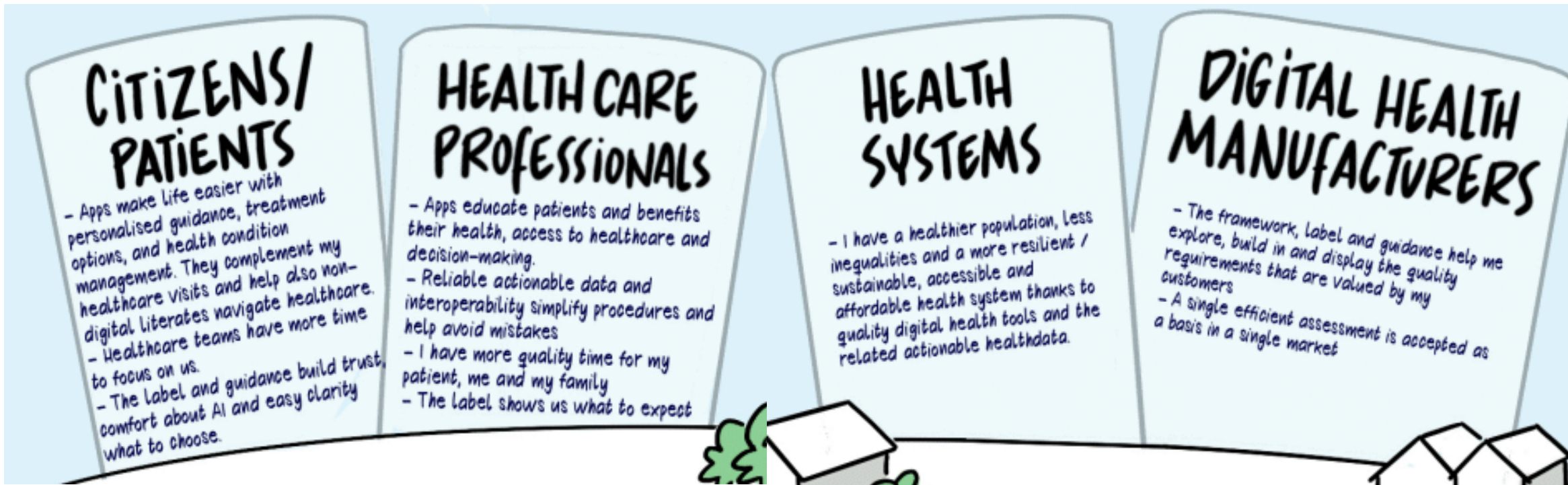
1st workshop: the preferred future



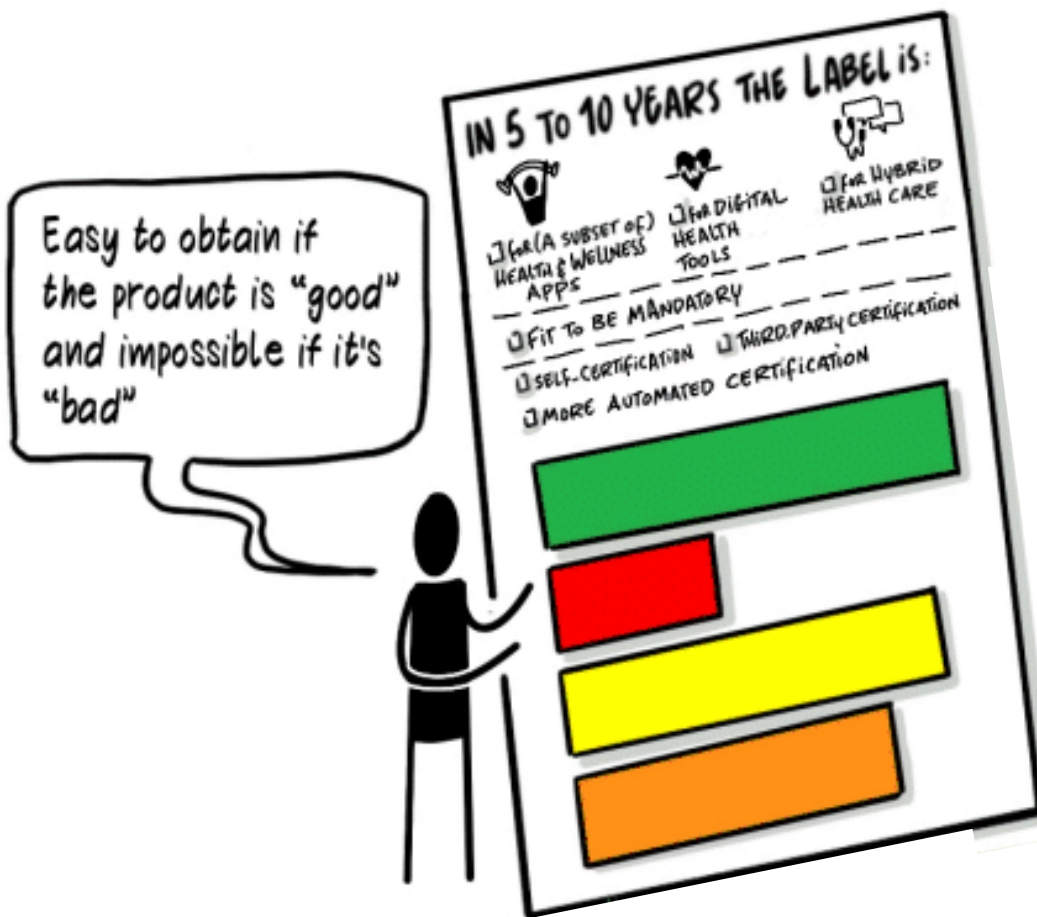
"The Futures Cone"

2nd workshop: the desire and the path





the label



report 2nd workshop: the path (1/3)

a sustainable model for app assessment and certification scheme maintenance and continued multi-stakeholder engagement

an entity should be established to maintain the label certification scheme, collect, and publish the evidence, including a label verification service; if and when mandatory and regulated, the latter will likely become a normative EU database

education

- reach out to the entire population to bridge the gap between early and late adopters of the label
- consider, in particular, digitally deprived citizens and otherwise disadvantaged populations
- embed in digital health literacy programs and in financing and quality incentivization policies
- facilitate access to technology and facilities
- train students early in their career
- prepare and support the workforce

report 2nd workshop: the path (2/3)

communication

- pursue an adoption roadmap for market and consumer uptake
- an adequate understanding and trust will promote uptake by consumers and health care professions, which in turn will contribute to a path to reimbursement and other revenue-based business models
- market demand for certification and labeling will drive establishment of a or more Certification Bodies, competition is likely to create a need for certification, which in turn will create certification capacity with Conformity Assessment Bodies
- create demand for and supply of skilled assessors
- create a market for supporting Certification Bodies and Conformity Assessment Bodies and training of assessors
- eventually prepare the ground and conditions for EU level legislation

incentives / reimbursement

- affordable quality
- address unmet needs and equity
- fewer apps broader scope?
- evidence based health app selection and acquisition choices
- beyond reimbursement of apps also recognize health care professionals' support role and time allocated

report 2nd workshop: the path (3/3)

regulatory measures

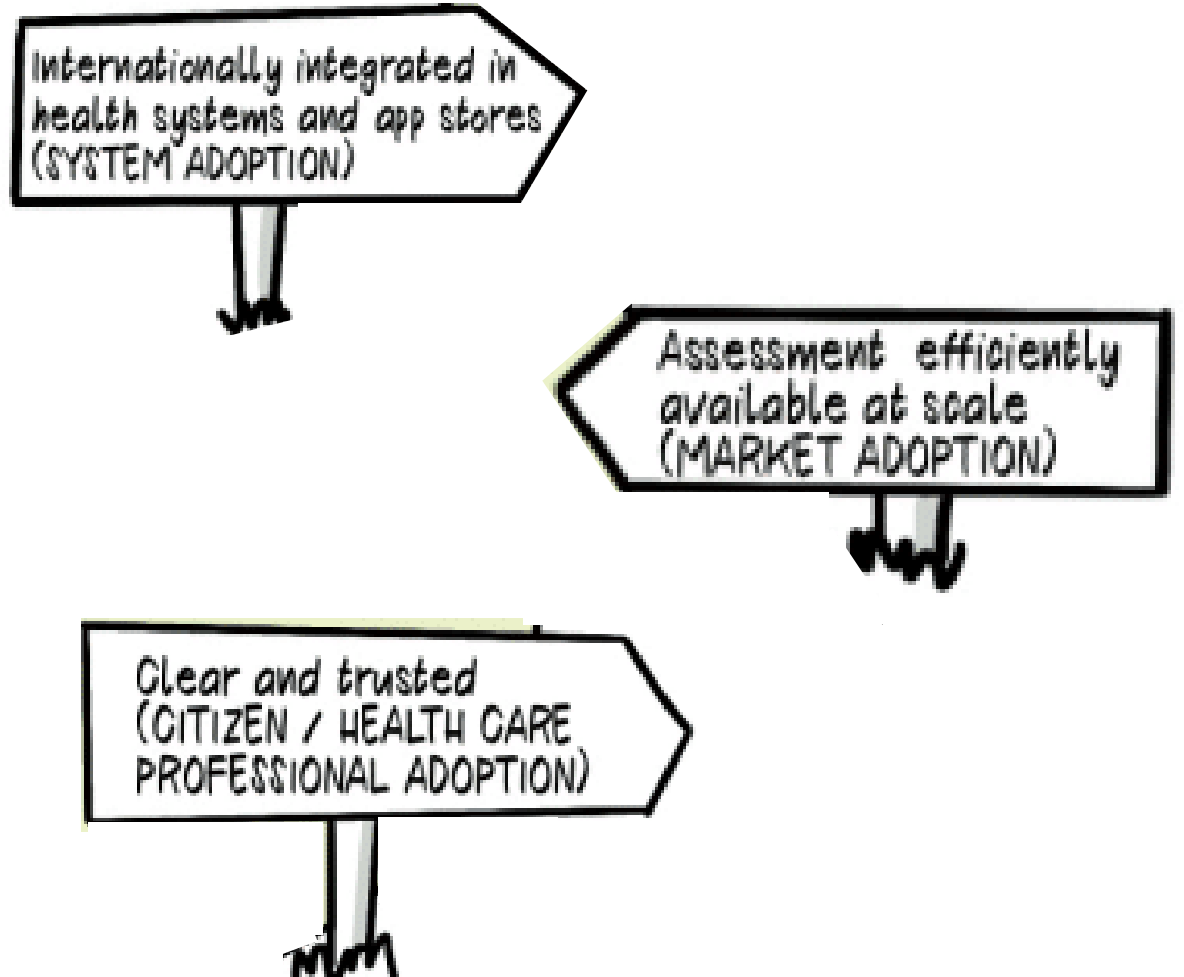
- EU harmonization implies legal intervention at EU level
- Based on EU labeling framework in place
- labelling may be voluntary or obligatory; likely to impose third party assessment for certain categories of apps/digital health technologies
- Member States establish oversight mechanisms
- EU level co-ordination, monitoring, and updates
- EU database of labels and labelled products
- meet prerequisites: sufficient Member State interest and demand for legislation

transformation

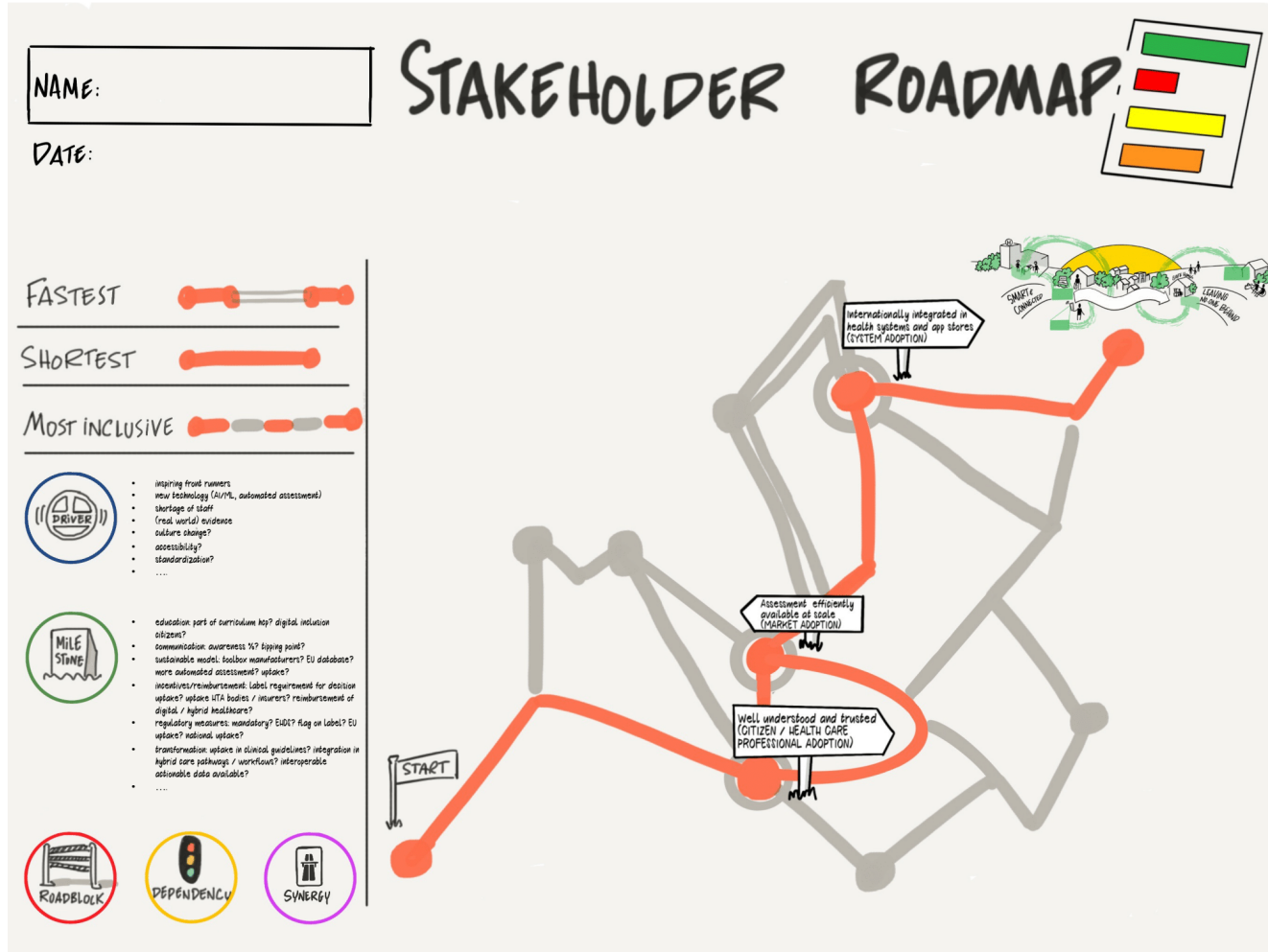
- uptake in clinical guidelines
- integration into clinical care pathways / workflows
- interoperability with electronic health records

in short: new elements in the visual

1	A SUSTAINABLE MODEL for app assessment, scheme maintenance and continued multi-stakeholder engagement
2	EDUCATION
3	COMMUNICATION
4	INCENTIVES / REIMBURSEMENT
5	REGULATORY MEASURES
6	TRANSFORMATION
7	...




3rd workshop: the stakeholder roadmap



building on the 2nd workshop

1	A SUSTAINABLE MODEL for app assessment, scheme maintenance and continued multi-stakeholder engagement
2	EDUCATION
3	COMMUNICATION
4	INCENTIVES / REIMBURSEMENT
5	REGULATORY MEASURES
6	TRANSFORMATION
7	...




- education: part of curriculum hcp? digital inclusion citizens?
- communication: awareness %? tipping point?
- sustainable model: toolbox manufacturers? EU database? more automated assessment? uptake?
- incentives/reimbursement: label requirement for decision uptake? uptake HTA bodies / insurers? reimbursement of digital / hybrid healthcare?
- regulatory measures: mandatory? EHDS? flag on label? EU uptake? national uptake?
- transformation: uptake in clinical guidelines? integration in hybrid care pathways / workflows? interoperable actionable data available?

building on the 2nd workshop

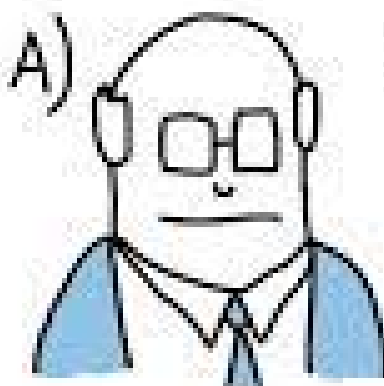


- inspiring front runners
- new technology (AI/ML, automated assessment)
- shortage of staff
- (real world) evidence
- culture change?
- accessibility?
- standardization?
-



aware we cannot predict it all

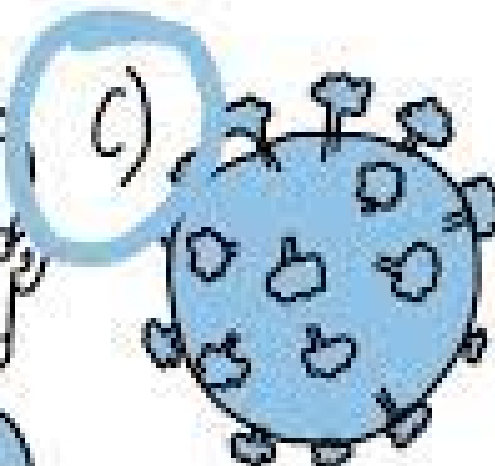
WHO LED THE DIGITAL TRANSFORMATION
OF YOUR COMPANY ?



THE CEO



THE CTO




COVID-19

[BUSINESSILLUSTRATOR.COM](https://www.businessillustrator.com)

aware we cannot predict it all

NewScientist

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Enter search keywords

When will Storm Ciaran hit and what makes it a bomb cyclone?

The strongest winds from Storm Ciaran are expected to hit south England on the morning of 2 November, and the storm may set a record for the lowest air pressure recorded in 200 years

By [Michael Le Page](#)

📅 1 November 2023



yet innovative solutions will likely emerge then



The European Commission and WHO launch landmark digital health initiative to strengthen global health security

- “By using European best practices we contribute to digital health standards and interoperability globally—to the benefit of those most in need.” said Stella Kyriakides, Commissioner for Health and Food Safety.
- “With **80 countries** and territories connected to the **EU Digital COVID-19 Certificate**, the EU has set a global standard. I am pleased that the WHO will build on the privacy-preserving principles and cutting-edge technology of the EU certificate to create a global tool against future pandemics,” added Thierry Breton, Commissioner for Internal Market.

and existing solutions can prove very helpful :-)



problem



solved



miro

NAME: **STAKEHOLDER ROADMAP** 

DATE:

FASTEST 

SHORTEST 

MOST INCLUSIVE 

 defining that report, not changing it?!, advanced discussion!

 defining of goal, find list of courses, later change!

 accessibility, transparency!

 addition part of curriculum not apply, relation to other?

 communication, awareness? not applying just?

 sustainable, specific, further development? to address?

 work, automatic discussion? ideas?

 awareness, understanding, skill, improvement for decision making, relation to other, relation? measurement of impact? apply? discussion?

 regulatory, awareness, understanding? not? how to start? to address? address, ideas?

 implementation, action in change, guidance? integration of digital core strategy? curriculum? integration, alternative ways needed?

 ROADBLOCK

 DEPENDENCY

 SYNERGY



Miro for online whiteboarding

09.50-10.55h - Plenary Session I: Recent developments and inspiration

Inspiration from front-of-pack nutrition labelling – later in November

The changing EU landscape for health and wellness apps - Petra Wilson, HIMSS

Label2Enable findings and updates

TS 82304-2 certification scheme and sustainability considerations – Christophe Maes, Charlie McCay, I~HD

Testing the label scheme with 24 apps and 5 assessment organisations – Liz Ashall-Payne, ORCHA, Menno Kok – EIT Health

Discrete choice experiment on the value proposition of health app assessment – Anna Frey, ORCHA

Exploring the value of 82304-2 in decision-making on reimbursement – Tatjana Prenda-Trupec, OptimIT

Co-creating and testing educational communication around the label – Corine Meppelink, University of Amsterdam

Initiatives of participating stakeholders

agenda

11.15-12.30h - Break-out session I: What is a realistic roadmap to success of the label?

Citizens patients carers and healthcare professionals - Gözde Susuzlu, Christophe Maes

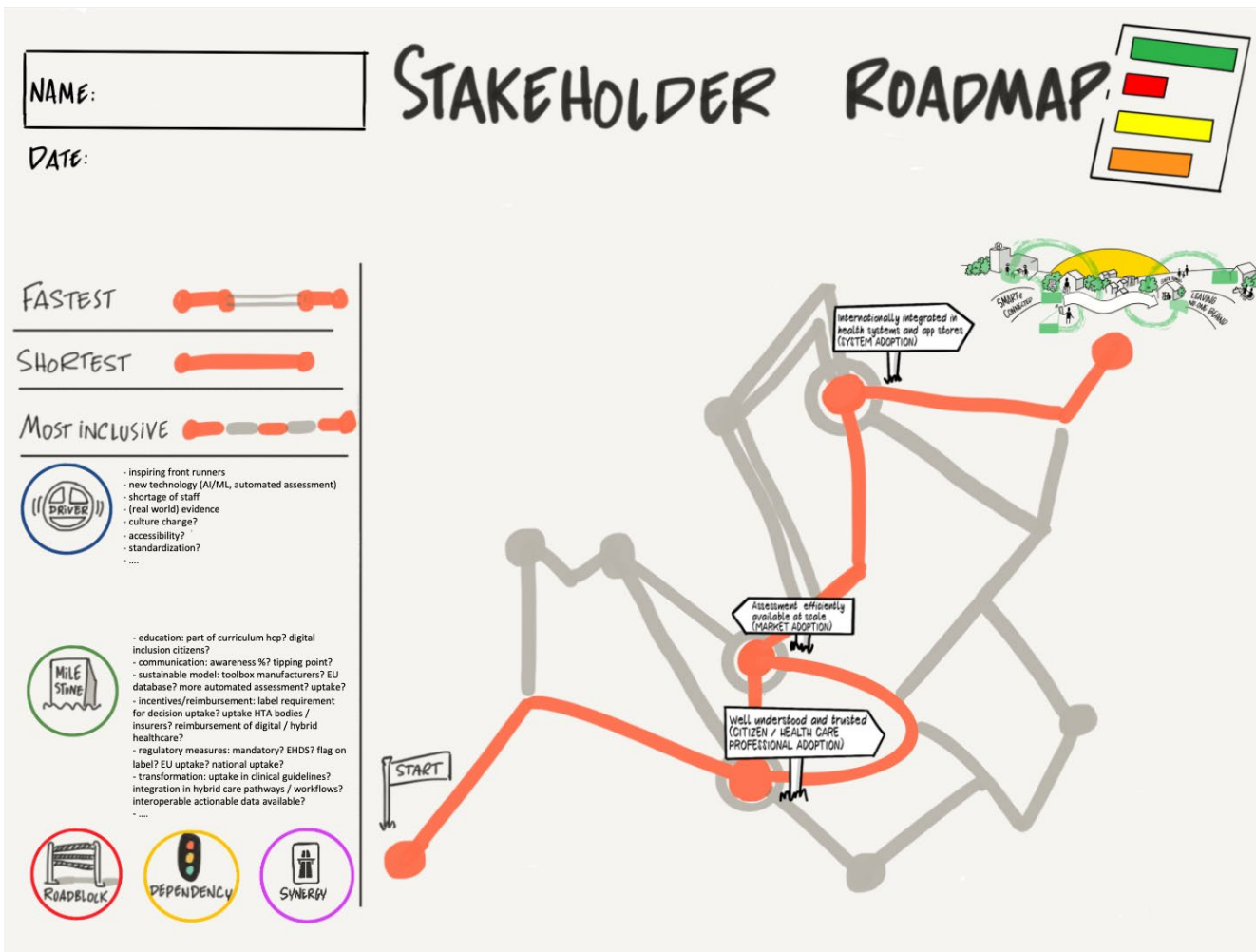
App assessors, libraries, manufacturers, SDOs, consultants - Petra Hoogendoorn, Menno Kok

Health authorities and insurers - Zoi Kolitsi, Charlie McCay

13.30-14.15h Plenary Session II: Reports from break-out session I

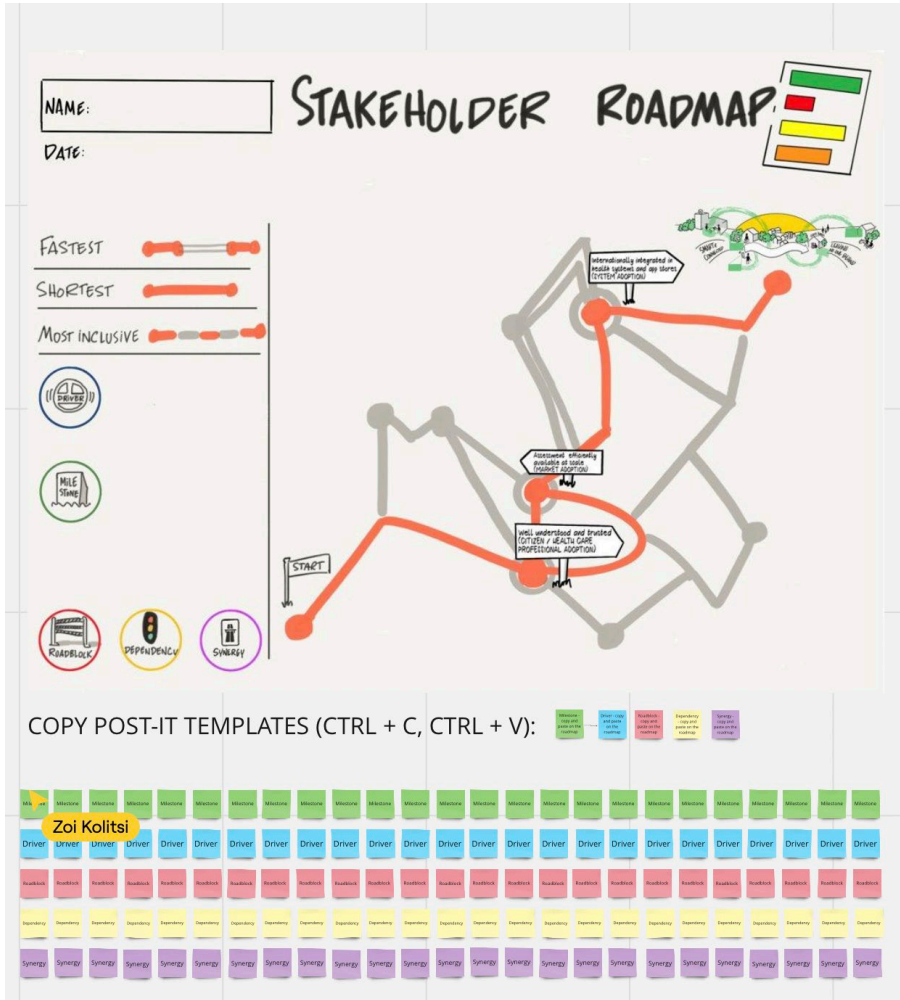
14.15-15.30h Break-out session II: Multi-stakeholder dependencies and synergies

15.45-16.30h Plenary Session III: Reports from break-out session II and wrap up



- information session
- break-out I: stakeholder roadmaps
 - name: stakeholder group
 - focus on your own stakeholder group: what needs to happen to arrive at each major milestone? what intermediate milestones need to be reached by your stakeholder group?
- break-out II: ecosystem
 - merge stakeholder milestones
 - what needs to happen for intermediate milestones to be reached collectively by the ecosystem?
 - identify synergies and optimise efficiency
 - LESS IS MORE!

for online participants: actively participate :-)



- Miro: [https://miro.com/app/board/uXjVNT8Book=/
■ use adequate color post-it](https://miro.com/app/board/uXjVNT8Book=/)
- alternatively indicate in chat Teams
 - D: driver - ...
 - B: barrier - ...
 - M: milestone - ...
 - De: dependancy - ...
 - S: synergy - ...
- discussion:
 - raise your hand to intervene (shout out if we miss it)
 - place your comments in the chat