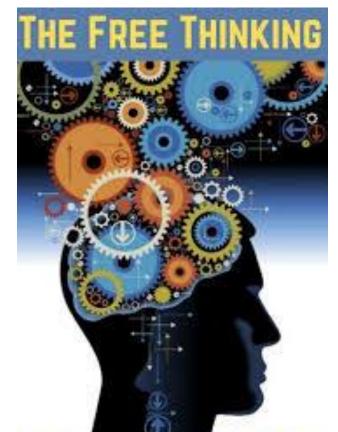
GLOBAL VIEW ON DIGITAL HEALTH

WONCA Europe
16th of November 2021
Steven Van de Vijver, MD, PhD
Amsterdam health & technology institute

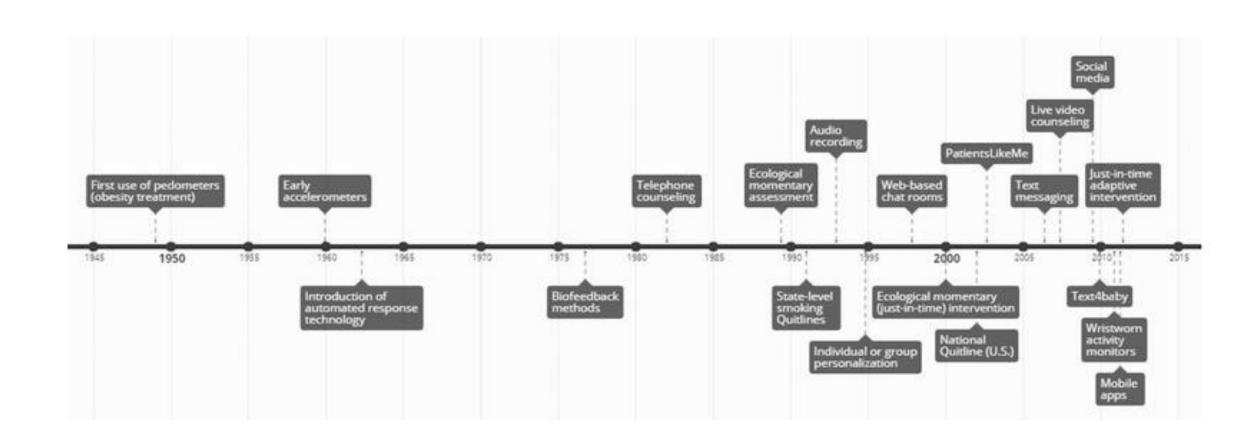


"How best can we use digital health to support primary health care for universal health coverage in Africa?"

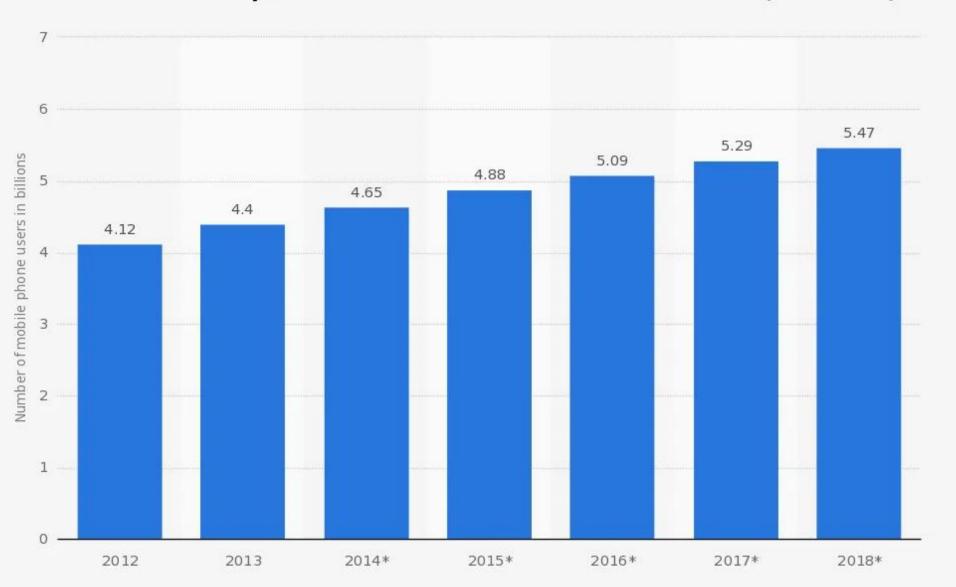




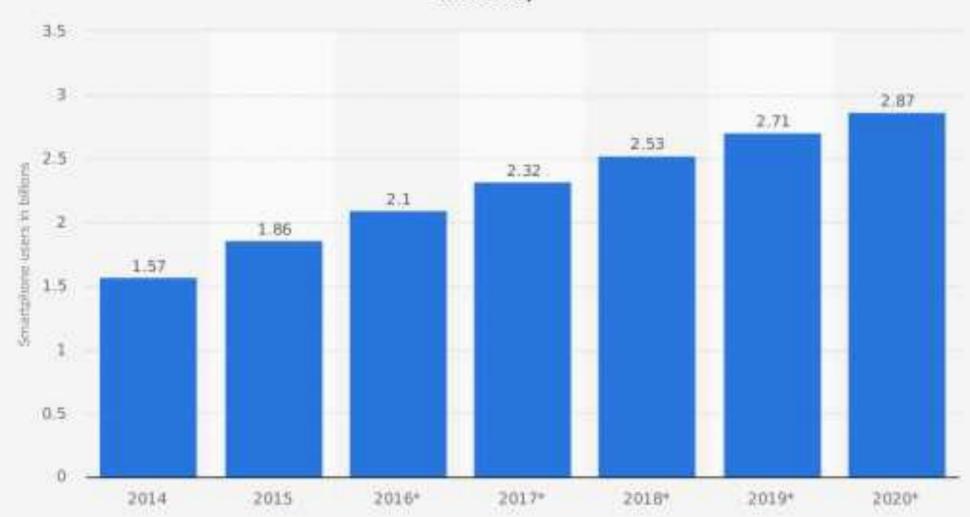
Timeline digital health



Number of mobile phone users worldwide from 2012 to 2018 (in billions)



Number of smartphone users worldwide from 2014 to 2020 (in billions)



Digital transactions in LMIC





mobile money transactions per minute









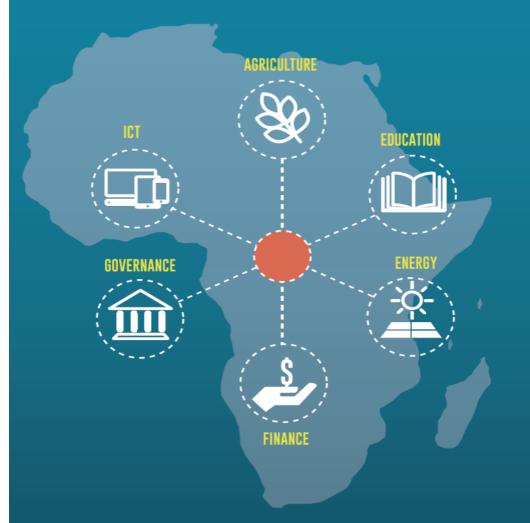


of the farmers we studied used this information to improve their farming





LEAP FROGGING: THE KEY TO AFRICA'S DEVELOPMENT? FROM CONSTRAINTS TO INVESTMENT OPPORTUNITIES



Example of other digital innovations



GLOBAL DIGITAL HEALTH INDEX

World Map

Indicators

Search by country name

Q

English

State of Digital Health around the world today

The Global Digital Health Index (GDHI) is an interactive web-based resource that aims to track, monitor, and assess the enabling environment for digital health throughout the world.

OVERALL

Phase 3

LEADERSHIP AND GOVERNANCE

VIEW COUNTRIES



Leaflet

OECD ranking

Digital Health Index		
Rank	Country	Index
1	Estonia (EST)	81.92
2	Canada (CAN)	74.73
3	Denmark (DNK)	72.47
4	Israel (ISR)	72.45
5	Spain (ESP)	71.36
6	NHS* England (GBR)	69.98
7	Sweden (SWE)	68.26
8	Portugal (PRT)	67.19
9	Netherlands (NLD)	66.05
10	Austria (AUT)	59.81

The Estonian example



E-education

- Independence in 1991 from Soviet Union, origin of Skype in 2003
- Introduction of E-Health system > EHR (2008) > now 99% digitised
- Contact doctor: mail, chat, phone, Skype, real life
- E-prescription (easier repeat, interaction control, 99%)
- E-ambulance (pre filled forms after ID input)
- Patient can access data, and decides who has insight
- Easier transition from curative to preventive medicine
- Next step personalised medicine > decision support for GP's
- Data privacy and use of blockchain
- High quality, cost efficient and sustainable



E-tax

E-banking

E-land

Digital health is not just digitizing health

Current view	Evolving model of care
Geared towards acute conditions	Geared towards long-term conditions
Hospital centred	Embedded in communities
Doctor dependent	Team based
Episodic care	Continuous care
Disjointed care	Integrated care
Reactive care	Preventative care
Patient as passive recipient	Patient as partner
Self care infrequent	Self care encouraged and facilitated
Carers undervalued	Carers supported as partners
Low tech	High tech



Different elements of digital health

- Telemedicine
- Medical devices
- Artificial intelligence and Machine learning
- Virtual ward
- Electronic Health Records

Continuum of care



Feb 2020

10 year partnership with the Government of Rwanda

Jan 2020

1 million completed consultations

Apr 2018

30% adult population registered with Babyl



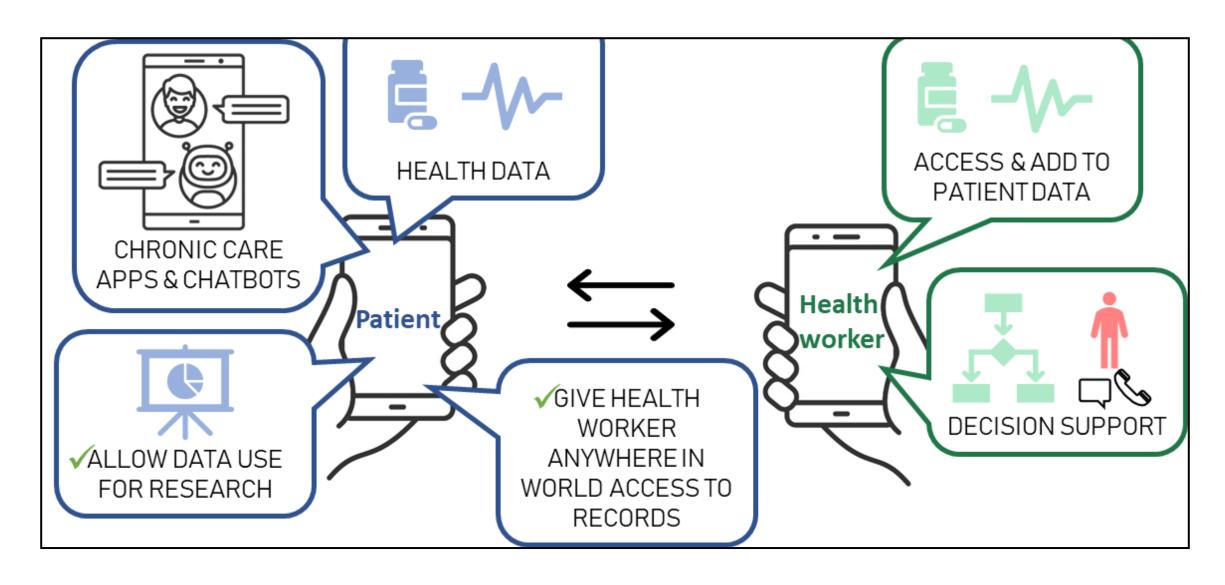
Babylon UK > Babyl Rwanda

AfyaPro is linked to Philips VitalHealth





Platform Africa



Initial idea: mobile based, patient-owned digital health records

WHO Principles for Digital Development

- Design With the User
- Understand the Existing Ecosystem
- Design for Scale
- Build for Sustainability
- Be Data Driven
- Use Open Standards, Open Data, Open Source, and Open Innovation
- Reuse and Improve
- Address Privacy & Security
- Be Collaborative

Conclusions

Digital health is not just digitizing steps but innovating the system

Many different tools already available to use

Interoperability is key

Check where the data are going

Person centered > and include all risk digital divide

