Can African countries leapfrog others by focusing on patients in digital health?

for patients

by patients

Vincent Keunen +32 475 473436
vincent.keunen@andaman7.com

Busoga Health Forum, 2022-11-04

Our vision: Africa can "skip one"

- Telecommunications
  - Skipped "landline" step
  - **Direct to mobile communications**

- Banking
  - Skipped "bank branches" step
  - **Direct to mobile banking**

- Healthcare
  - Skip "central HC infrastructure" step
  - Direct to mobile health

Skip One

Skip One

Skip One?

Opportunities of digital health 1/2

Remote care

- Addresses challenges of infrastructure, lack of doctors and rural inequalities
- Rest of the world is going that road, cf Covid19, video consultations, remote monitoring, reimbursement codes...

Partially automated care - doctor and AI

Clinical research via DCT (Decentralised Clinical Trials)

- For existing drugs, with underrepresented communities
- For endemic diseases

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Opportunities of digital health 2/2

- Patient empowerment → better care
  - Cf numerous studies
- Data accessibility → lower costs of care
- Patient as a health consumer
- Personalised medicine
- Faster, cheaper research for new treatments

Challenges in Africa (some)

- Insufficient healthcare infrastructure
    - Especially in rural areas
- Lack of doctors and HCP (Health Care Professionals)
- Inequalities of care between cities and rural areas
- Insufficient technical infrastructure
    - Especially in rural areas
    - Electricity and internet access
- Access to information for patients

Andaman7, in brief

- Founded in 2014, HQ in Belgium
    - Sales office in Silicon Valley
    - One investor in Rwanda
- Mission: **Improve health outcomes through empowered patients**
- Innovation: 2 EU financed projects
- Business model:
    - free app for patients, forever
    - revenues from B2B
    hospitals, research, gov…
- Available in 20+ languages

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A personal story

Vincent Keunen

> Leukemia at 43

> Gleevec

His son **Pierre**

> Bone cancer at 10

> 1 year of chemo, radiation, bone marrow transplant, leg amputation

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Global problems

1. **Patients**

Targeted treatments

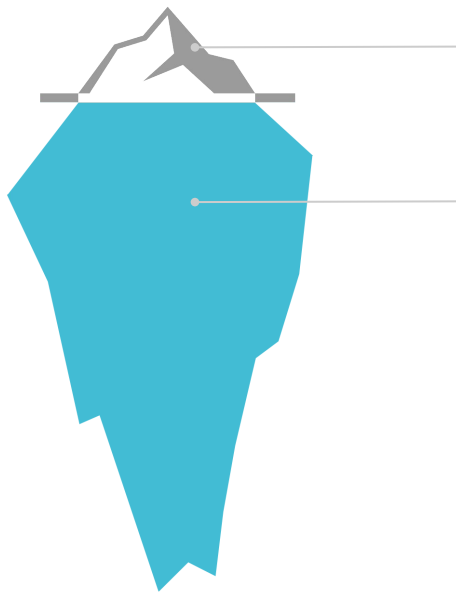**Scattered** health data

2. **Care**   3. **R&D**

Continuity of care

Virtrials, RWE, PRO

The Andaman7 solution

Easy to use & flexible mobile app
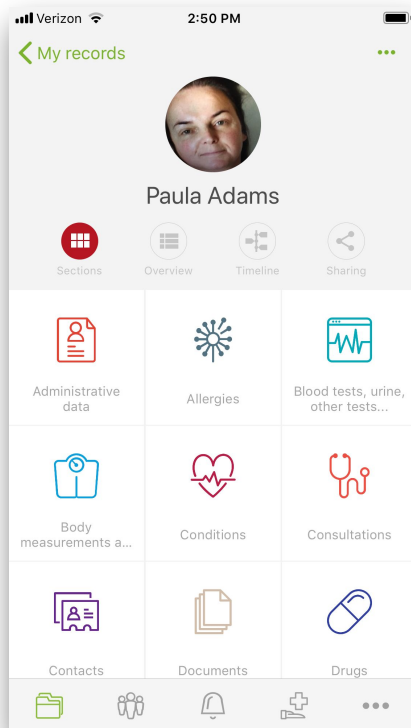
> Patient focused personal health record

HIP$^{©}$ - Health Intermediation Platform

> Connect patients, HCP, research

> High interoperability

> High security & privacy

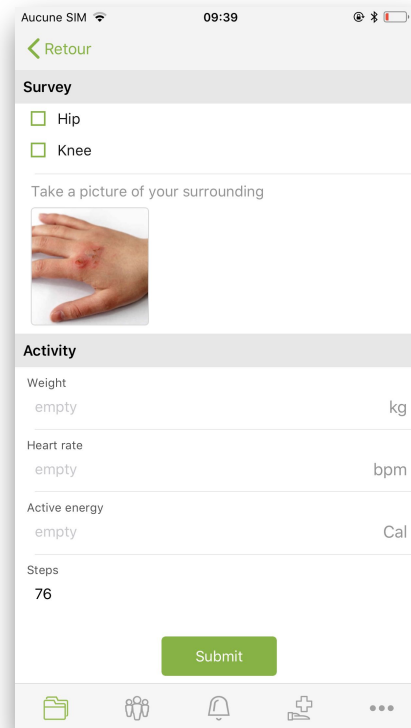Peer-to peer, no cloud storage
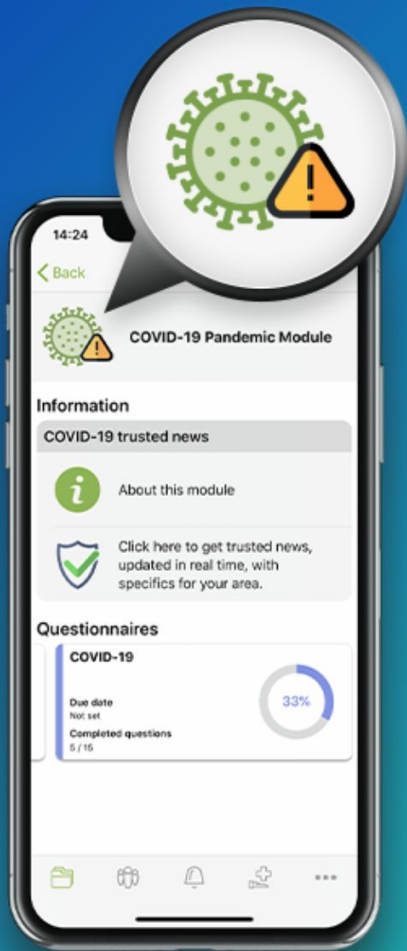GDPR by design

PHR

Personal Health Record

+

Modules

=

PEP

Patient Engagement Platform

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The coronavirus pandemic will last for months, and could lead to millions of people being hospitalised.

Andaman7 contributes with short and mid-term solutions.

Andaman7 can help patients, healthcare professionals, call centers, hospitals and authorities to manage the crisis.

We developed a free **in-app Pandemic Module** that can help with:

> **Informing** patients with trusted sources,

> **Triage** to reduce load on medical staff and call centers,

> **Self-test** to reduce the burden on the medical infrastructure,

> **Data collection** for medical and crisis management purposes,

> **Medical research** with urgent clinical trials, PRO, RWE, QoL studies.

Andaman7 is a trusted and certified partner. We are GDPR, HIPAA, GCP and 21 CFR part 11 (FDA) compliant.

INSTALL OUR FREE COVID-19 MODULE NOW ❯

Easy patient interfaces

Patient resources ⊕ Collect symptoms ⊕ Auto form fill

Patient resources

‹ Back

COVID-19 Pandemic Module

Información

Noticias confiables COVID-19

ⓘ   Acerca de este módulo

🛡   Click here to get trusted news, updated in real time, with specifics for your area.

Cuestionarios

COVID-19

Fecha límite
Sin fijar

Preguntas completas
0 / 14

0%

Collect symptoms

‹ Back

COVID-19

Fill out this questionnaire to give your doctor (or triage centre) an assessment of your situation. Your data will be transferred to the health authorities. Fill in this questionnaire as often as possible (but send it to your doctor only if necessary).

Automatically fill this survey from:

[Personal record] [Previous Survey]

Información específica COVID-19

Fecha de evaluación de los síntomas

vacío

Temperatura

vacío   °F

¿Tienes tos?

○

¿Tienes dificultad para respirar?

○

‹ Anterior   1/4   Siguiente ›

Auto form fill

‹ Back

Automatically fill this survey from:

[Personal record] [Previous Survey]

Factores de riesgo

Edad

vacío

Sexo

○ Masculino
○ Femenino
○ Otro

Vives en:

☐ Aislado/a
☐ Con un grupo (familia, coinquilinos,...)
☐ En una casa de reposo
☐ In a nursing/care home
☐ En un apartamento
☐ In an individual house

‹ Anterior   2/4   Siguiente ›

Example screenshots above are in Spanish but are also available in 22 languages **(local languages are planned)**
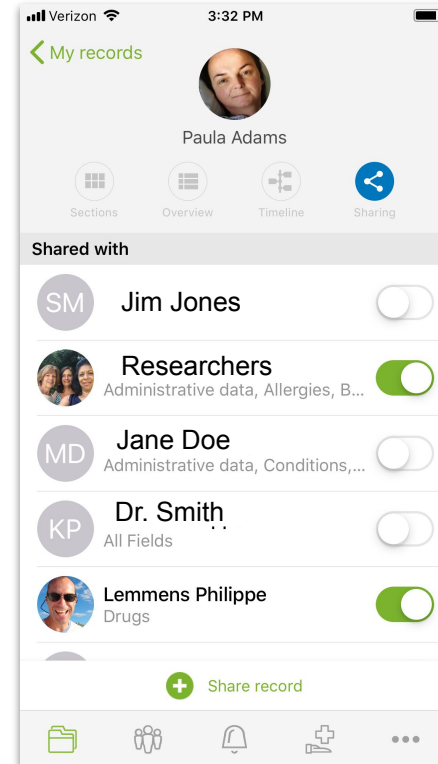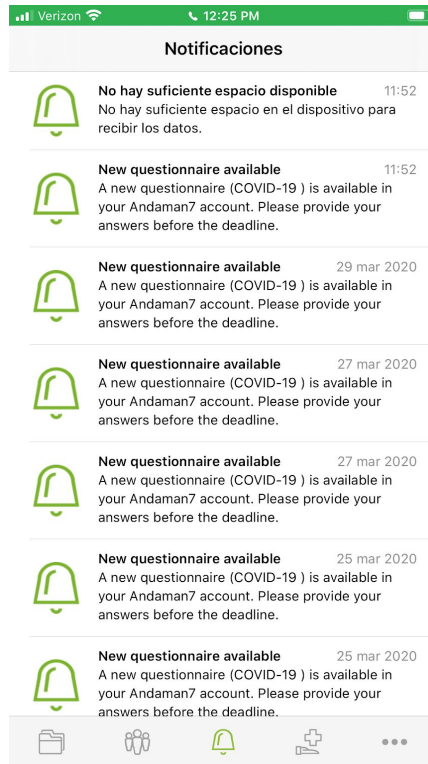
Full health record ➕ Notifications ➕ Privacy control

Example screenshots above are in Spanish but are also available in 22 languages **(local languages are planned)**

Andaman7 unique differentiators

1. Works without **electricity** or the **internet**

   - Data stored on smartphones ALSO
   - Data can be centralized when internet is available
   - Good for cities and rural communities

2. A full **mobile digital health solution**

   - For patients & health care providers
   - Much more than a COVID-19 solution
   - Can be connected to hospital systems like OpenClinic, OpenMRS
   - Platform for **HIV, vaccination, contraception...**
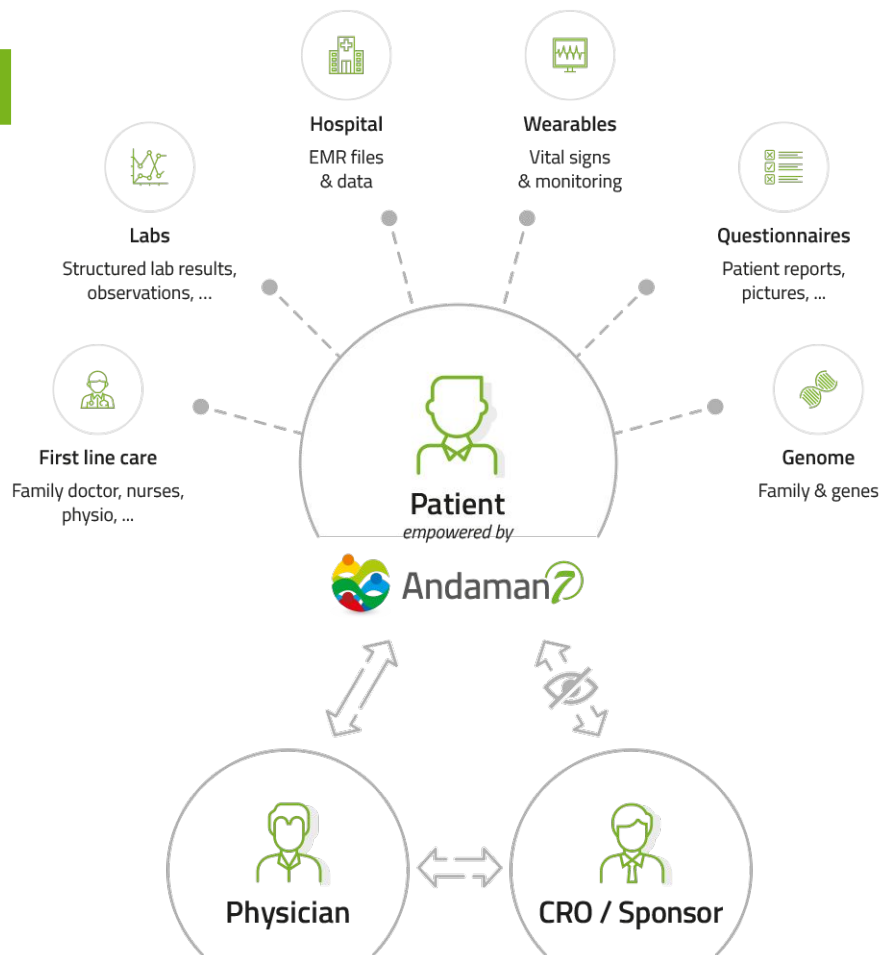
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Benefits

Andaman7 is both a short and long term (full digital platform) solution : a **basis for new health features to the population** with focus on the patient and their family. In this context, it is planned interfaces with existing health information systems.

The project is also part of the **government's objectives of promoting mobile tools**. Andaman7 runs entirely on smartphones. Estimates of 15% of smartphones in several African countries means coverage of millions of citizens in each country. In addition, one Andaman7 application manages several medical records. This will allow a user to manage the files of their **family members**. It will also be possible to use the tool by **medical staff** in remote areas. We can expect a **broad population coverage** by these mechanisms.

Patient centered

- Many use cases:
    Care, Research, Crisis
- Data from many sources
    EMR, Lab, Patient, Devices
- Deployed globally
    22 languages & growing
- Privacy, security, compliance
    GDPR, HIPAA,
    FDA 21 CFR part 11, EU Ann 11

Hospital
EMR files
& data

Wearables
Vital signs
& monitoring

Labs
Structured lab results,
observations, ...

Questionnaires
Patient reports,
pictures, ...

First line care
Family doctor, nurses,
physio, ...

Genome
Family & genes

Patient
empowered by

Andaman7

Physician

CRO / Sponsor

Andaman7

What does the future of digital health look like in Africa?

- Each citizen has a **mobile** app
  - With all their health data, locally, in a private PHR
  - Easy and secure access to additional services
  - Interaction channel (2 ways) with HCP, hospitals,…
- **Remote** care – for better quality, equality, costs
  - A large part of consultations can be done remotely
  - Even a part of them can be automated (!)

Skipped One !

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andaman7.com

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Google Play

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