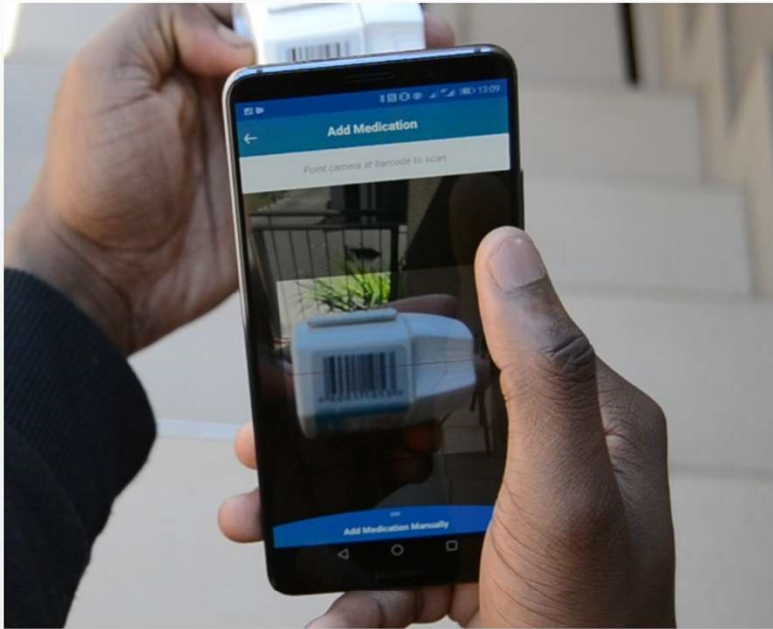

Nice to meet you

Dr Kofi Okyere-Dede









NELSON R. MANDELA SCHOOL OF MEDICINE



Campus Directory / Indlela Yesikhungo

Medical School Building	Izinkhaya SesiKole JaseMphahle
K. BETH Tower Building	Izinkhaya saseKwazi, KPH
DDMR Building	Izinkhaya saseKwazi
Microbiology Building	Izinkhaya zikaMikrobiyoloji
Parking Garage	Isigangatho Lokuparka
Visitor Parking	Indlela Yokuparka Yesikhungo
Undercover Parking	




 **VIRTUALCARE**



Piloting since Nov 2018
30 Pilot sites across RSA
3 Doctors actively servicing
Pilot with Dischem
Top site: 12 consults pm

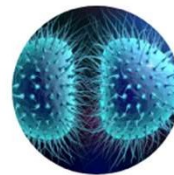


Google

Africa 

Google Search

I'm Feeling Lucky





Introducing Africa:

Young (60% <25)

Median Age 18

54 Countries

Density 80 km² (2050)

[World Population Prospects \(2017 Revision\)](https://www.businessinsider.com/africas-population-explosion-will-change-humanity-2015-8?IR=T) - United Nations population estimates and projections
<https://www.businessinsider.com/africas-population-explosion-will-change-humanity-2015-8?IR=T>

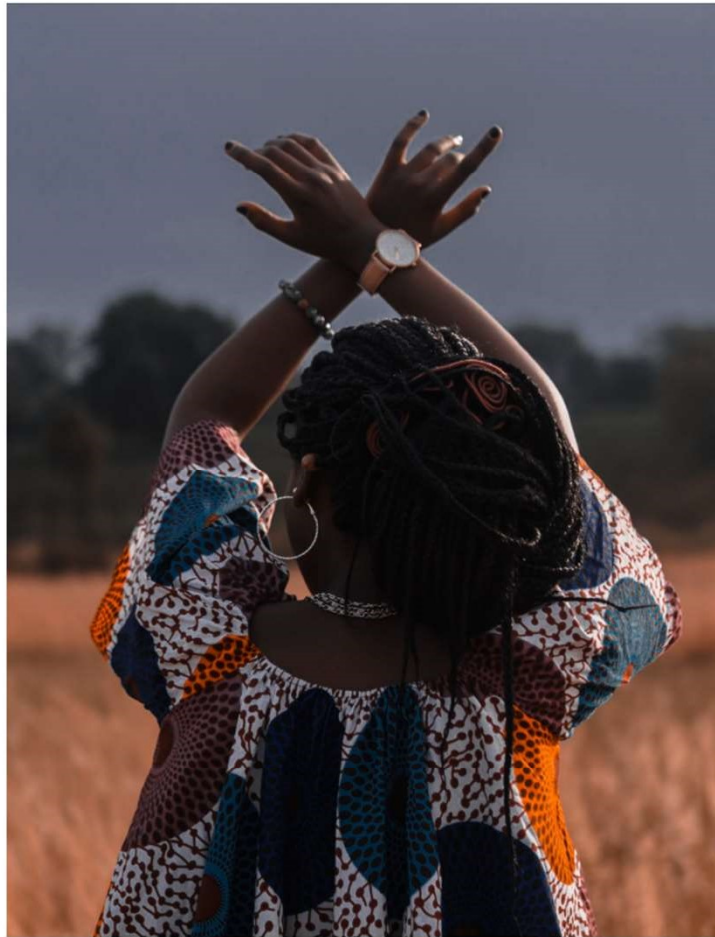


“the biggest change of our time”

$\frac{1}{2}$ World growth

Hans Rosling - Statistician





The untold story:

Over 2000 different languages
(1 in 4 only spoken in Africa)

Most centrally located continent

200 years post slavery

Never say die

<https://www.africanexponent.com/post/10157-25-top-interesting-facts-about-africa>



“Covering mirrors in a storm”

Behavioural Economics

<http://www.radiovop.com/the-future-of-africas-diaspora-is-in-africa/>





Rwanda:

48 least developed

20% Electricity access

Life expectancy 65

Top 5 gender equality globally

86% Female participation in labour force

Highest number of women in Parliament

<https://www.africanexponent.com/post/10157-25-top-interesting-facts-about-africa>



“Biggest unseen export – it’s people”

30 million (2050)



<http://www.radioweb.com/the-future-of-africa-is-africa-is-in-africa/>

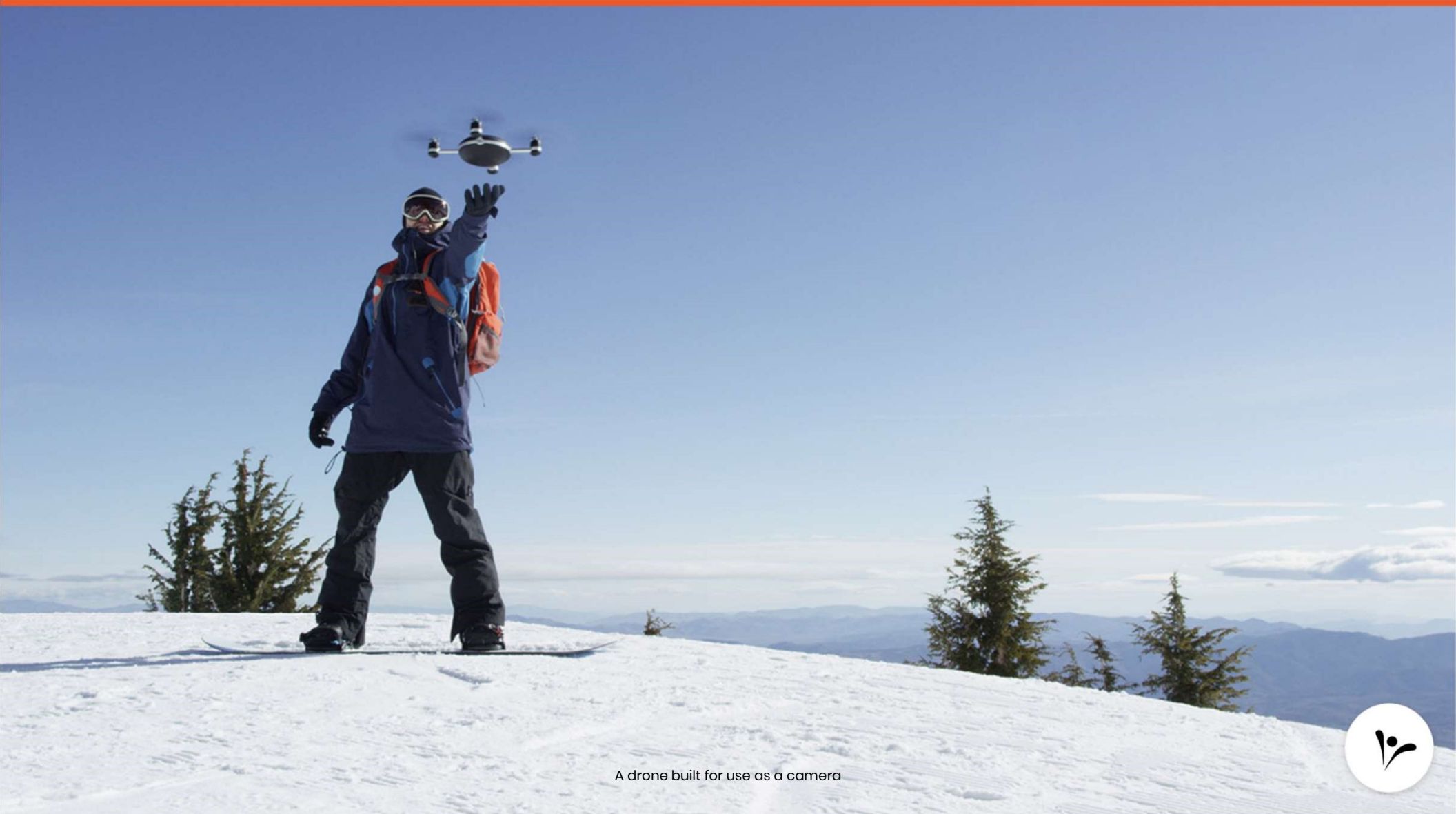




Titilope Oluwaseyiayo - Degree in information technology



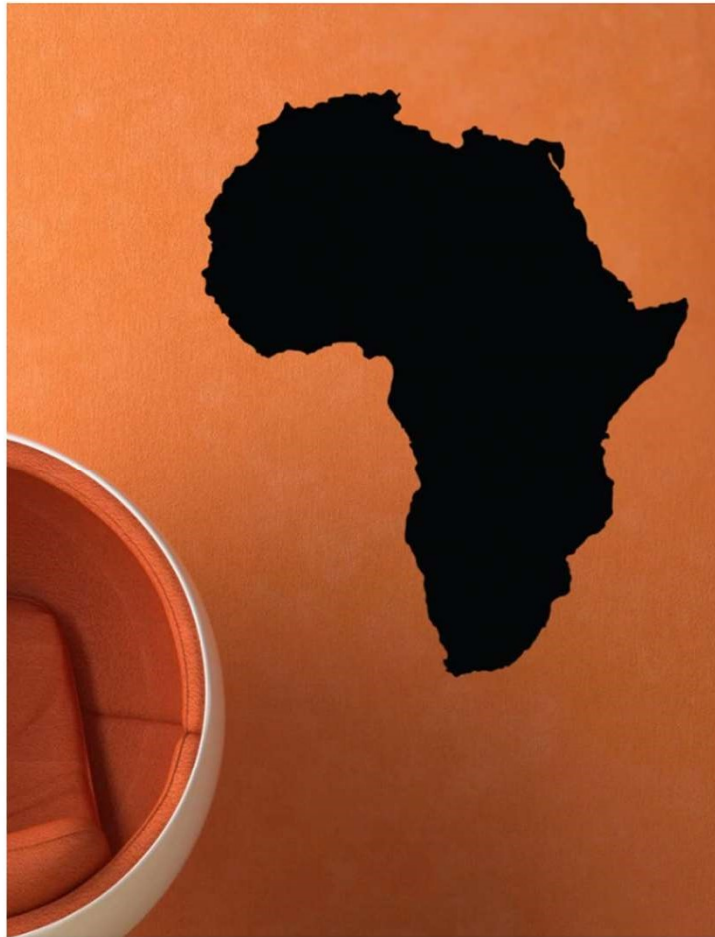




A drone built for use as a camera







The Promise of telemedicine:

Universal Access

Africa > 1:5000

RSA Public > 1 : 2457

RSA Private > 1 : 429

Distance

Disability

Cost

Family commitments

Service provider shortages

Specialist Shortages

Transfers

Training

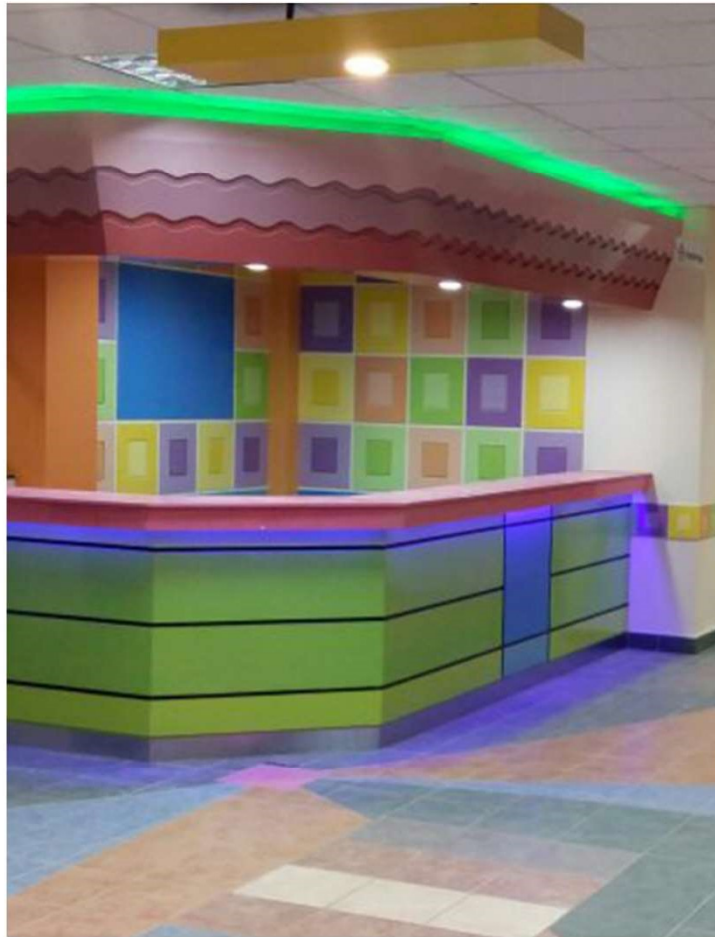
<https://www.africanexponent.com/post/10157-25-top-interesting-facts-about-africa>





Titilope Oluwaseyilayo – Degree in information technology





St Gertrude's Children's Hospital:
Liquid telecom backed project
56 Successful consultations

Supporting Dadaab Refugee complex
Award 2017
HISA 2017



“Telemedicine is the **practice of medicine at a distance**,
through which interventions, diagnoses, therapeutic decisions, and
subsequent treatment recommendations...”

58th WMA General Assembly, Copenhagen, Denmark, October 2007

<http://www.radiovop.com/the-future-of-africas-diaspora-is-in-africa/>



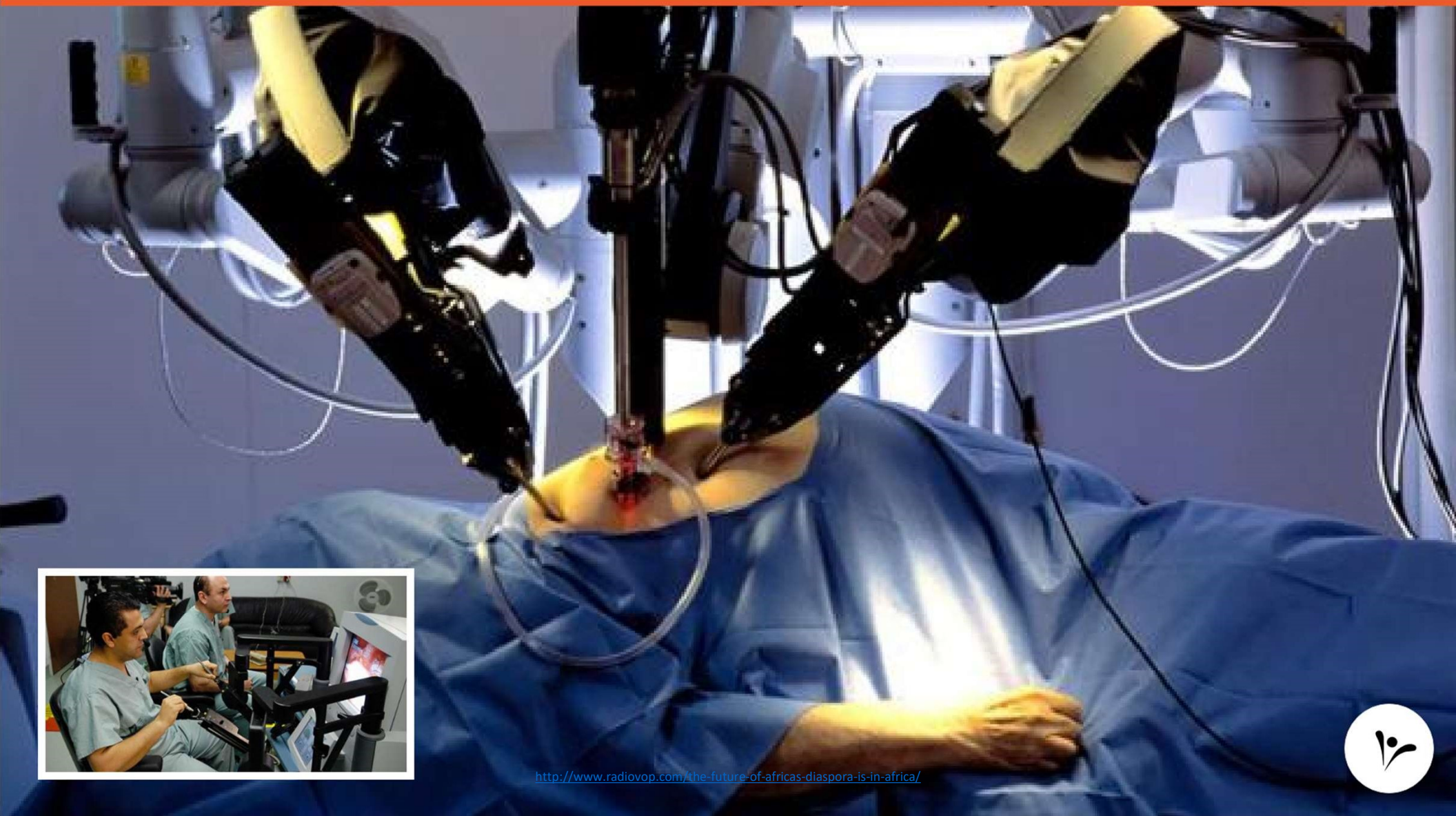


Is this telemedicine?

Phoning your Doctor
Emailing or WhatsApp with your Doctor
An Intern calling a Consultant
A nurse calling a Doctor

<https://www.africanexponent.com/post/10157-25-top-interesting-facts-about-africa>





<http://www.radiovop.com/the-future-of-africas-diaspora-is-in-africa/>





INKOS ALBERT LUTHULI CENTRA

<https://www.africanexponent.com/post/10157-25-top-interesting-facts-about-africa>



1924

Dr. Hugo Gernsback envisions the "teledactyl," a tool with robotic fingers and a projected video feed to examine the patient from afar. Back then, the idea was a fantasy.



01

1876

Alexander Graham Bell patents the telephone and launches the beginnings of our telecommunications field.



02

1950's

Medical personnel start doing experiments with close-circuit television.



03

1959-1964

The first interactive video link. Nebraska Psychiatric Institute in Omaha and the Norfolk State Hospital created the first video link to provide medical care across the 112 miles between them.



04

1960's

NASA Takes on Telemedicine. The 1960's Space Age pushed money into the telemedicine field as NASA researched ways to provide healthcare to astronauts and improve telecommunications technology.



05

1964

AT&T releases the Picturephone. AT&T's Picturephone was once of the earliest examples of videochat technology, transmitting interactive video over telephone lines. While it never gained commercial popularity, it opened the door to tech advancements in the telecommunications field.



06

1967

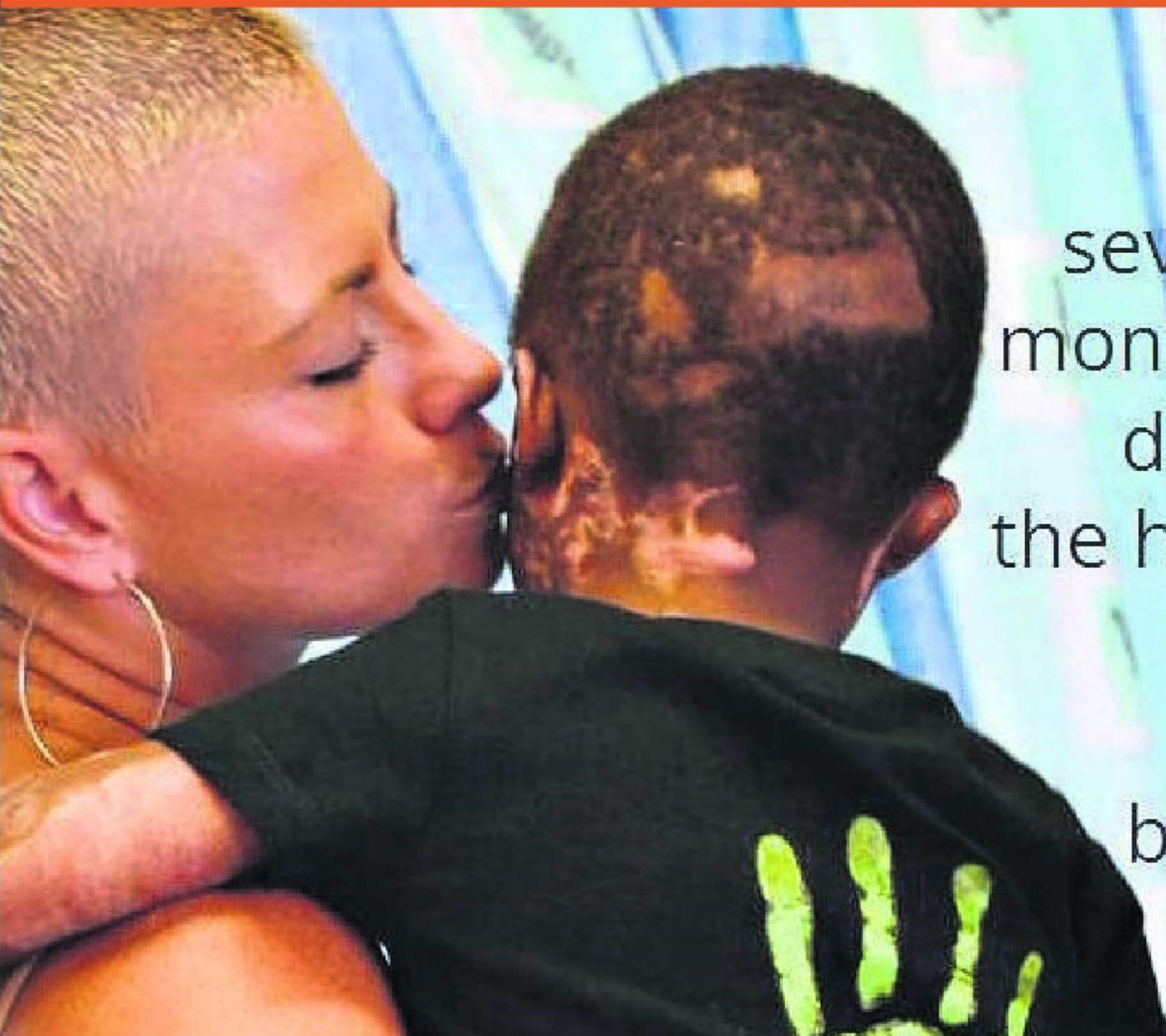
The first telehealth system is created that connects paraprofessionals to physician-patient encounters. The system linked a medical station at the Boston Logan Airport to the Massachusetts General Hospital 2.7 miles away using two-way audiovisual microwave circuit.



07

Telemedicine is not new:
The TELE in telemedicine
SA Telemedicine system (1999)
6 Provinces > Phase 1
Teleradiology, teleultrasound
Waiting times (7 days > 1hr)





“161 children are severely burnt every month in South Africa, due to accidents in the home. Six of these children die due to an inadequate burn care system.”

- Dr Nikki A





TALK TO A DOCTOR
on your phone.

SIGN UP NOW



“Solutions in search of problems”

Helga Stegmann –Mantaray UX

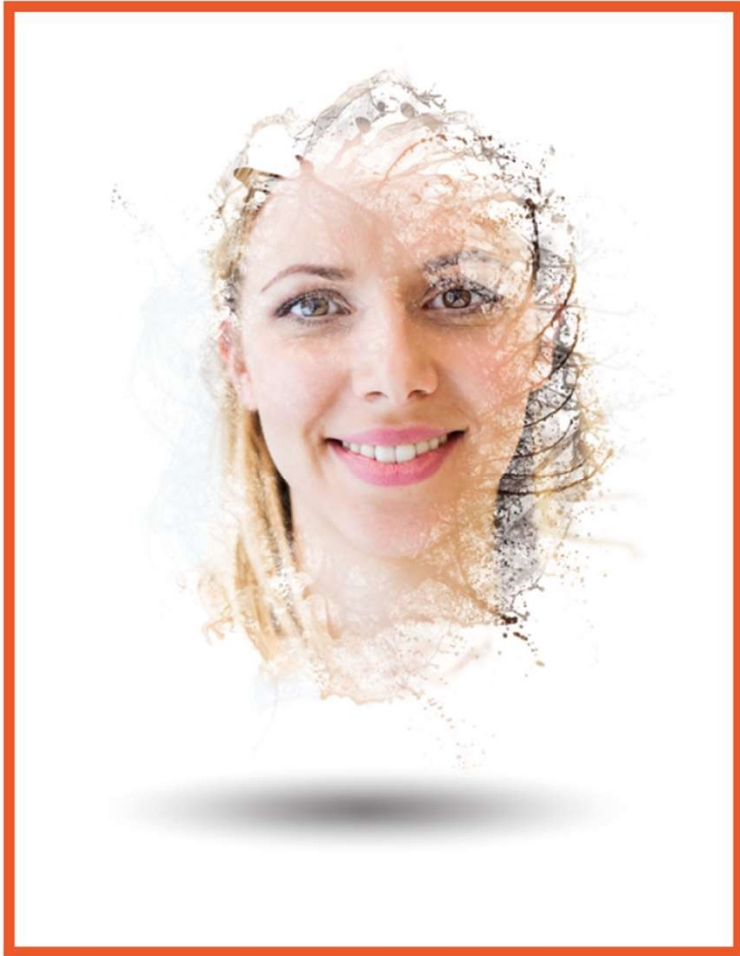




Patients:

Positive response
How much is time worth?





Nurses:

Love the concept

UX problem

Trust

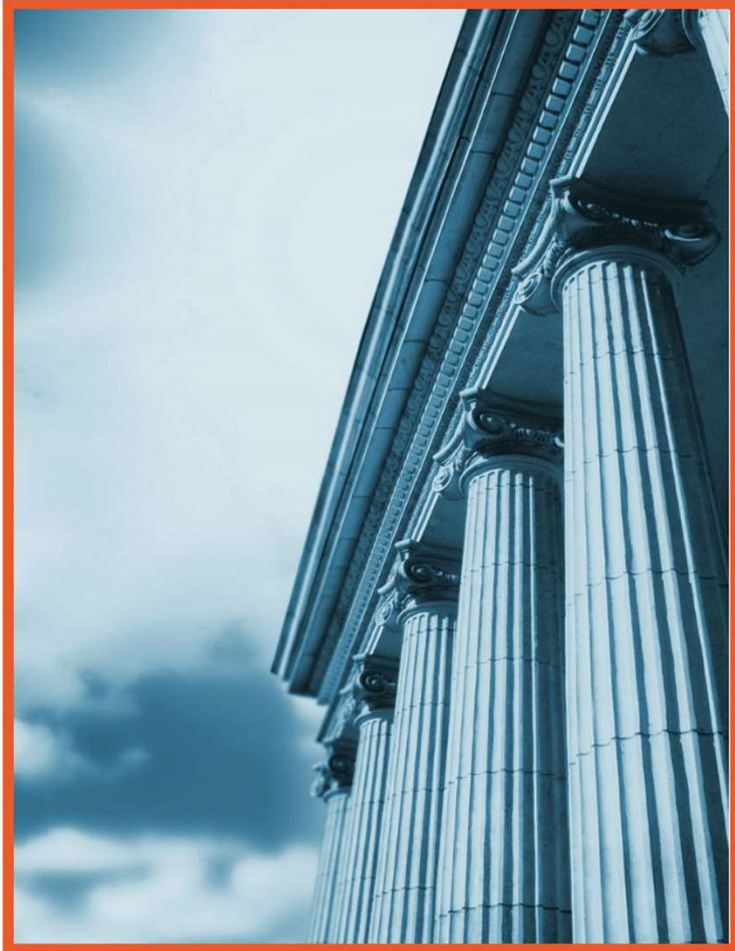




Doctors:

Suspicion/Trepidation
Aversion to tech
What about my practice?





Landscape:

Collaboration

Online offline care continuum

Intervention at a single point > and then?

Legislation

