

Africa Health

Past, Present, Future: Shaping Health

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Past

Learn from the past



What is shaping digital health?



HEALTH

DIGITAL

Health

- Defining Health
- Reactive
- Focussed on Infectious Diseases
- Health Work Force
- Health Professionals as Gate Keeper

WHO definition of Health

Health is a state of complete physical, mental and social well-being and not merely the absence of disease or infirmity.

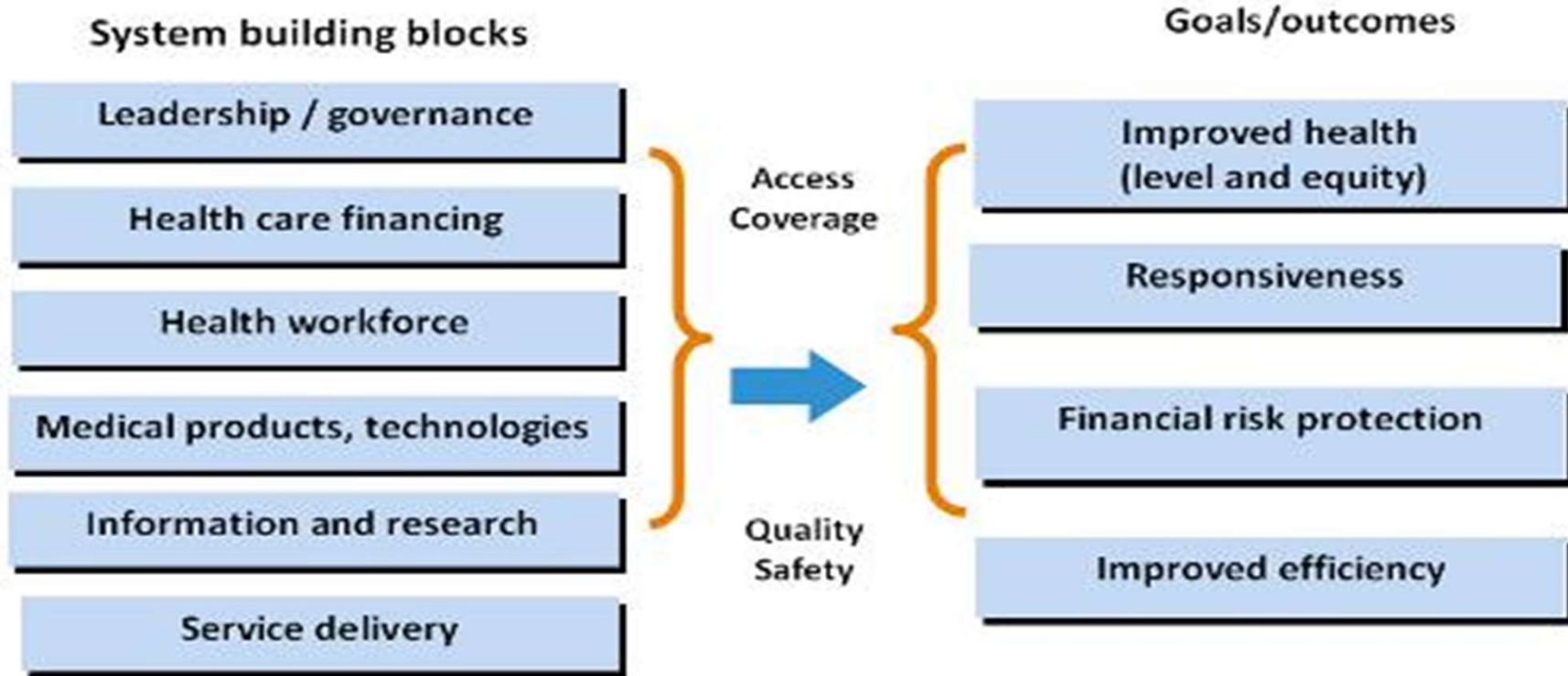
Millennium Development Goals (MDGs)

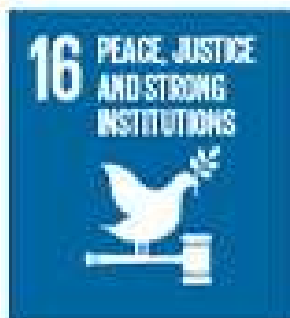
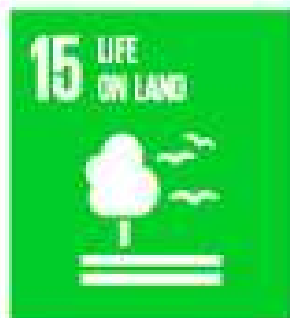
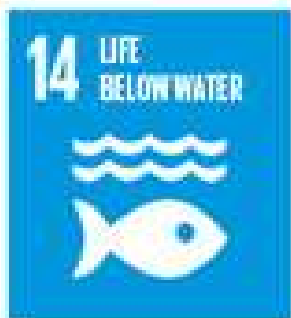
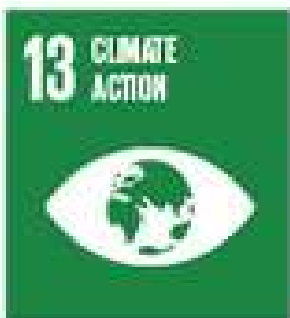
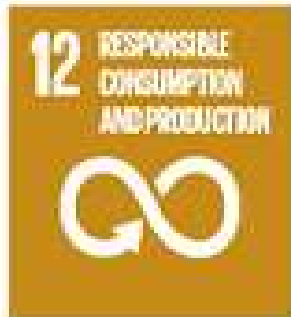
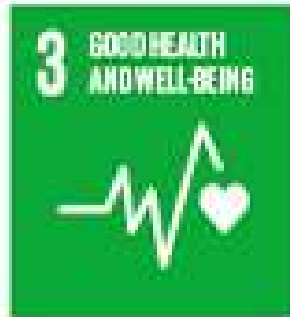
MDGs are 8 international development goals that all 192 United Nations and at least 23 international organizations have agreed to achieve by the year 2015. They include reducing extreme poverty, reducing child mortality rates, fighting disease epidemics such as AIDS and developing global partnerships for development

Sustainable Development Goals (SDGs),

The Sustainable Development Goals (SDGs), otherwise known as the Global Goals, are a universal call to action to end poverty, protect the planet and ensure that all people enjoy peace and prosperity.

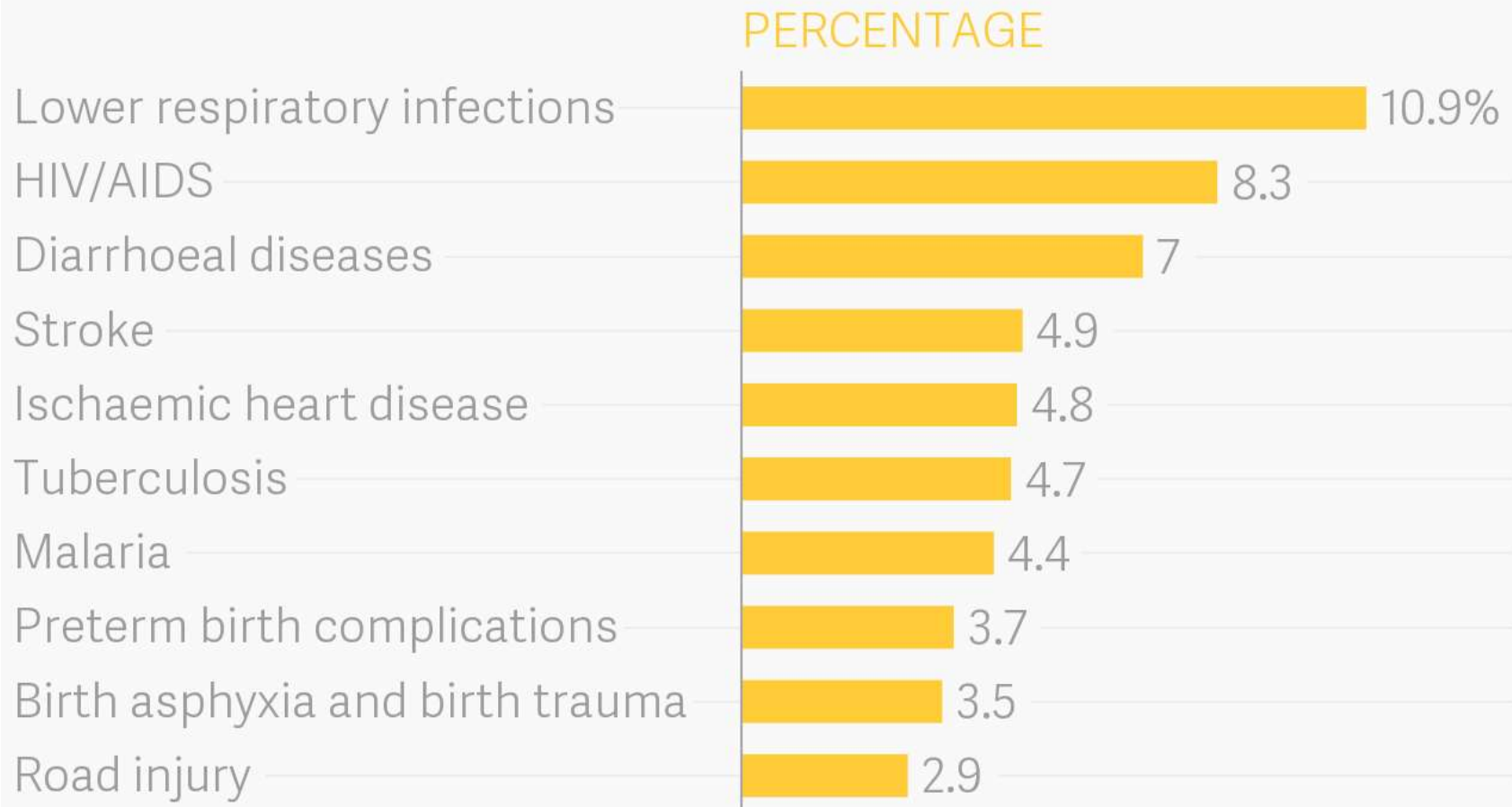
WHO Health System Framework





Infectious Disease

Top 10 Leading Causes of Death in Africa



Digital

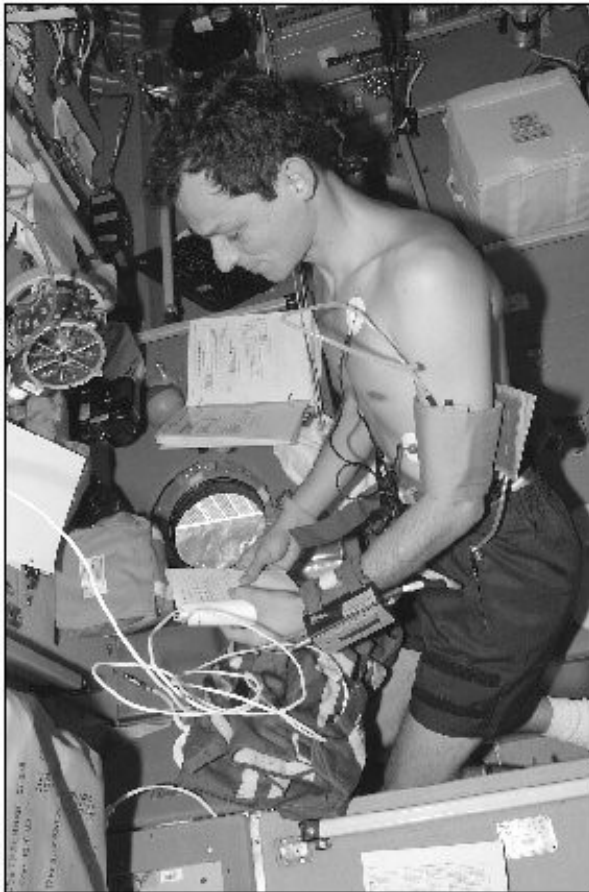
- Limited amount of digital
- Guided by the infrastructure and innovation

Morse Code

- Taking place since the early 19th century



Space Medicine



Close Circuit Television



Present

Live in the future

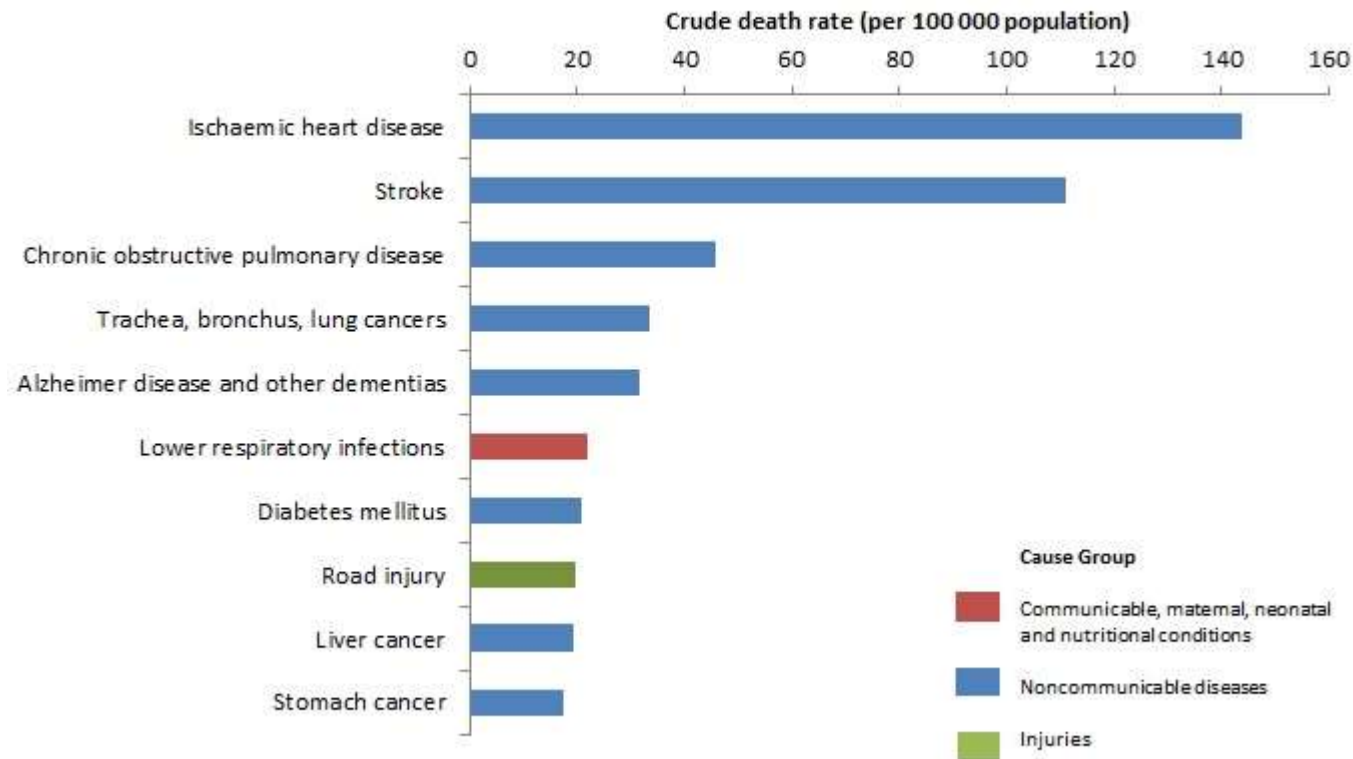


Health

- Non Communicable Diseases
- Patient Centred
- Environment

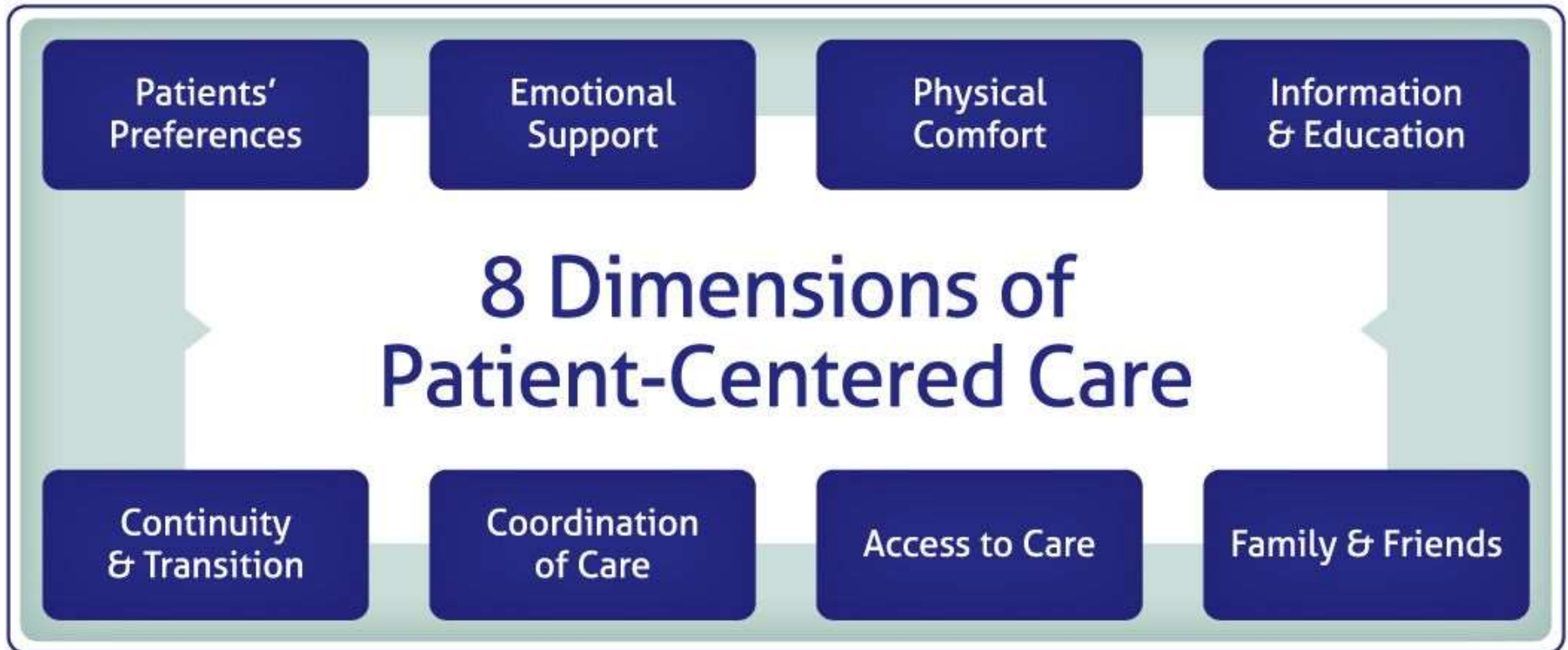
Burden of Disease: Non Communicable Disease

Top 10 causes of deaths
in upper-middle-income countries in 2016



Source: Global Health Estimates 2016: Deaths by Cause, Age, Sex, by Country and by Region, 2000-2016. Geneva, World Health Organization; 2018.
World Bank list of economies (June 2017), Washington, DC: The World Bank Group; 2017 (<https://datahelpdesk.worldbank.org/knowledgebase/articles/906319-world-bank-country-and-lending-groups>).

Patient Centred



Environment

Environmental determinants of health in Africa

Continental challenges and change

Environmental challenges

- Water and sanitation issues
- Reduced agricultural yields
- Rapid unplanned urbanisation
- Indoor and outdoor air pollution
- Climate change
- Temperature increase of 4°C

Health consequences

- Hunger, thirst and malnutrition
- Changing disease vectors and patterns
- Three diseases carry 60% of health impacts
 - diarrhoea
 - respiratory infections
 - malaria

In Africa,
28% of the disease burden
can be attributed to the environment.

It's going
to get worse

By the year **2100** the projections indicate:

Disease

Environmental changes lead to more vectors.
According to the Mapping Malaria Risk in Africa (MARA) Project, there may be...



16-28%
increase in
person-month
malaria exposures

Water

Rising temperatures
and droughts may mean...



40% less
rainfall

Climate change

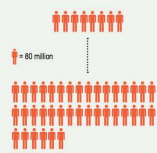
Altered weather patterns
will possibly lead to...



4°C
increase in
temperature

Population

The population could grow from
800 million to 4 billion, which is...

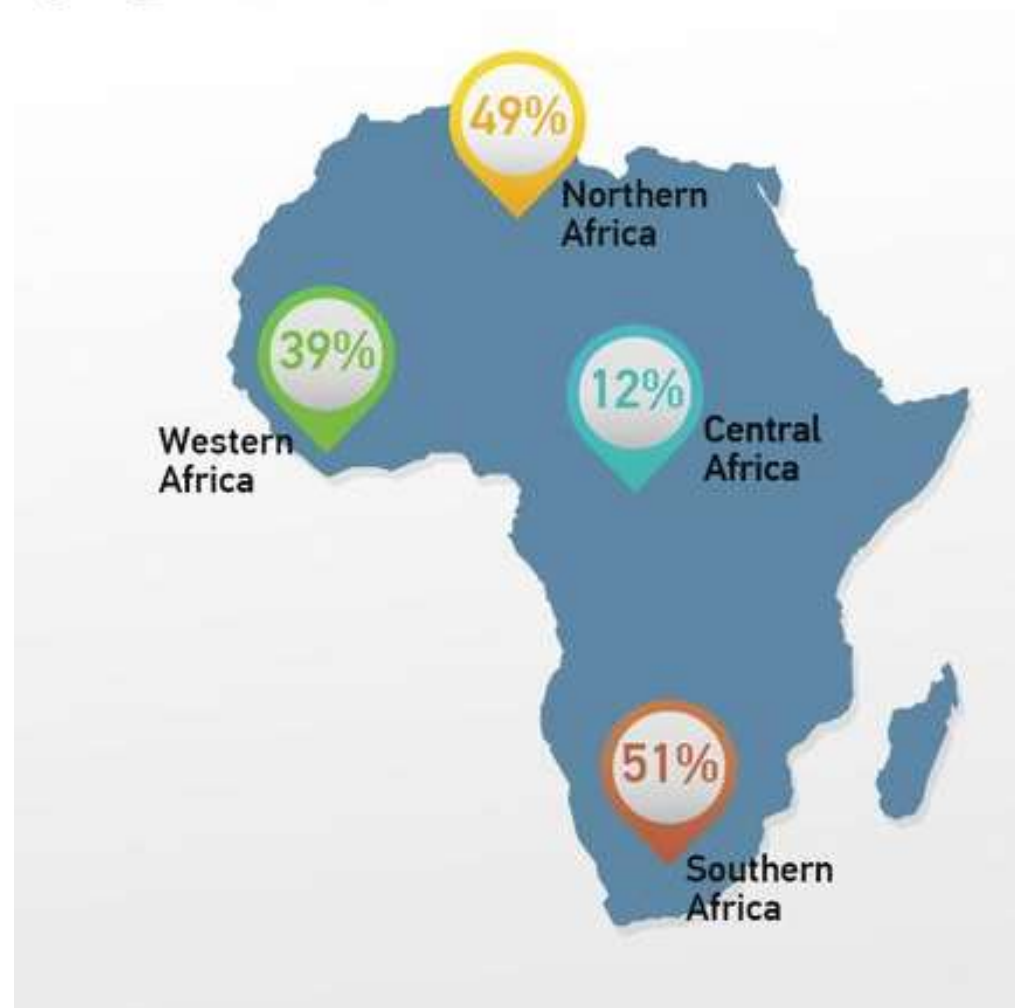


500%
more people

Technology

- Technology Hardware
- Technological Infrastructure
- Cost
- Security
- Cloud

Internet penetration in Africa *by region (2018)*





Future

Plan for the future



Digital Health

- Behaviour Change Models
- Environment
- Integrated & Connected Health
- Artificial Intelligence
- Security



Thank You

