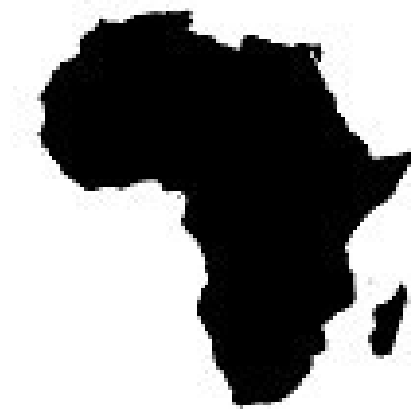


Big Data in African Healthcare: Re-emphasising the power of ‘small data’ for improved healthcare outcomes



Kudzai Chigiji
14 October 2016

I

The Global
Evolution of
Big Data...

And loss of
small data

II

Data in
Healthcare

III

A Trip Around
in Africa

- Ebola
- Rwanda
- Cameroon
- Ghana
- Nigeria
- South
Africa

IV

Big Data and
the Human
Touch

V

What Next for
Africa and
Healthcare
Data?

VI

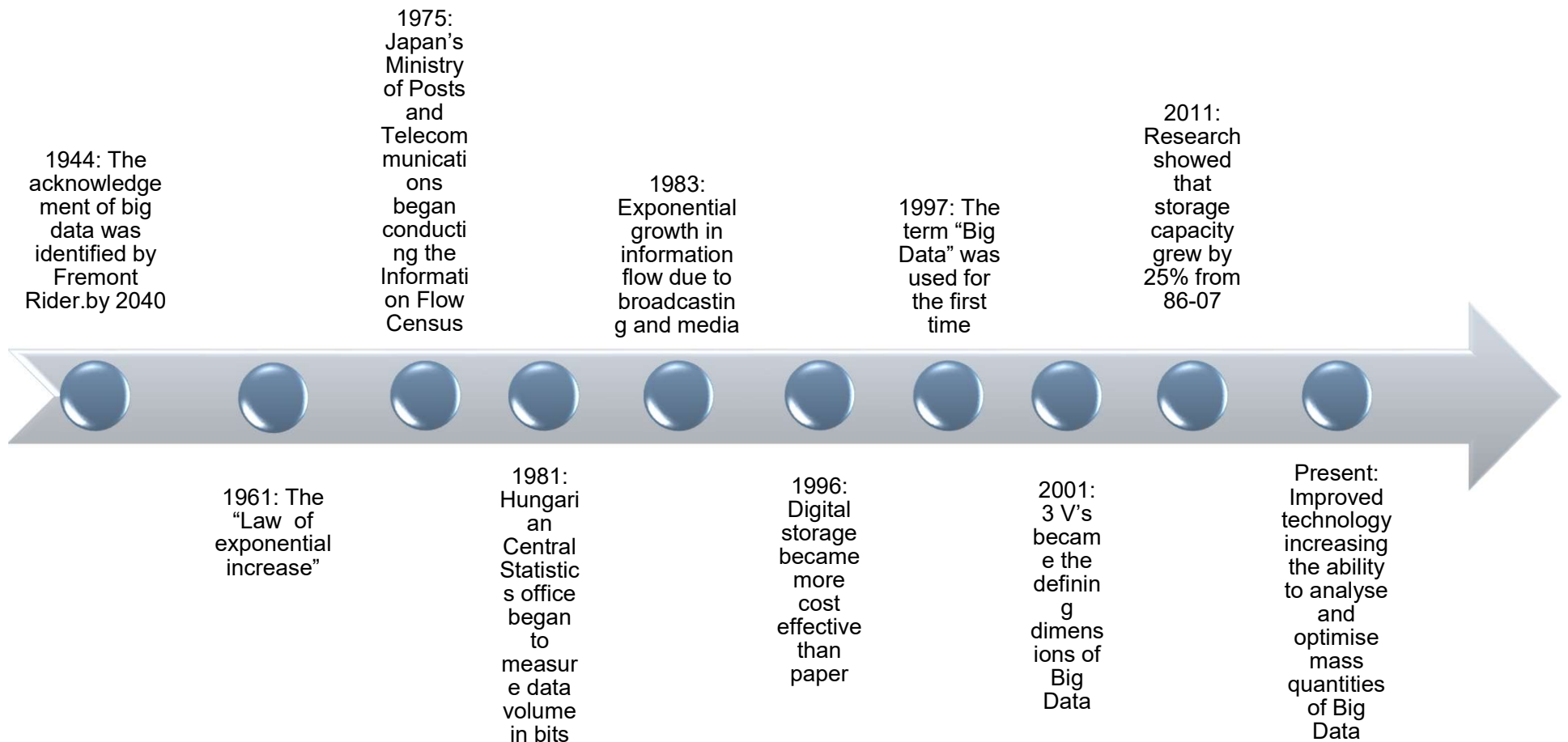
Questions

VII

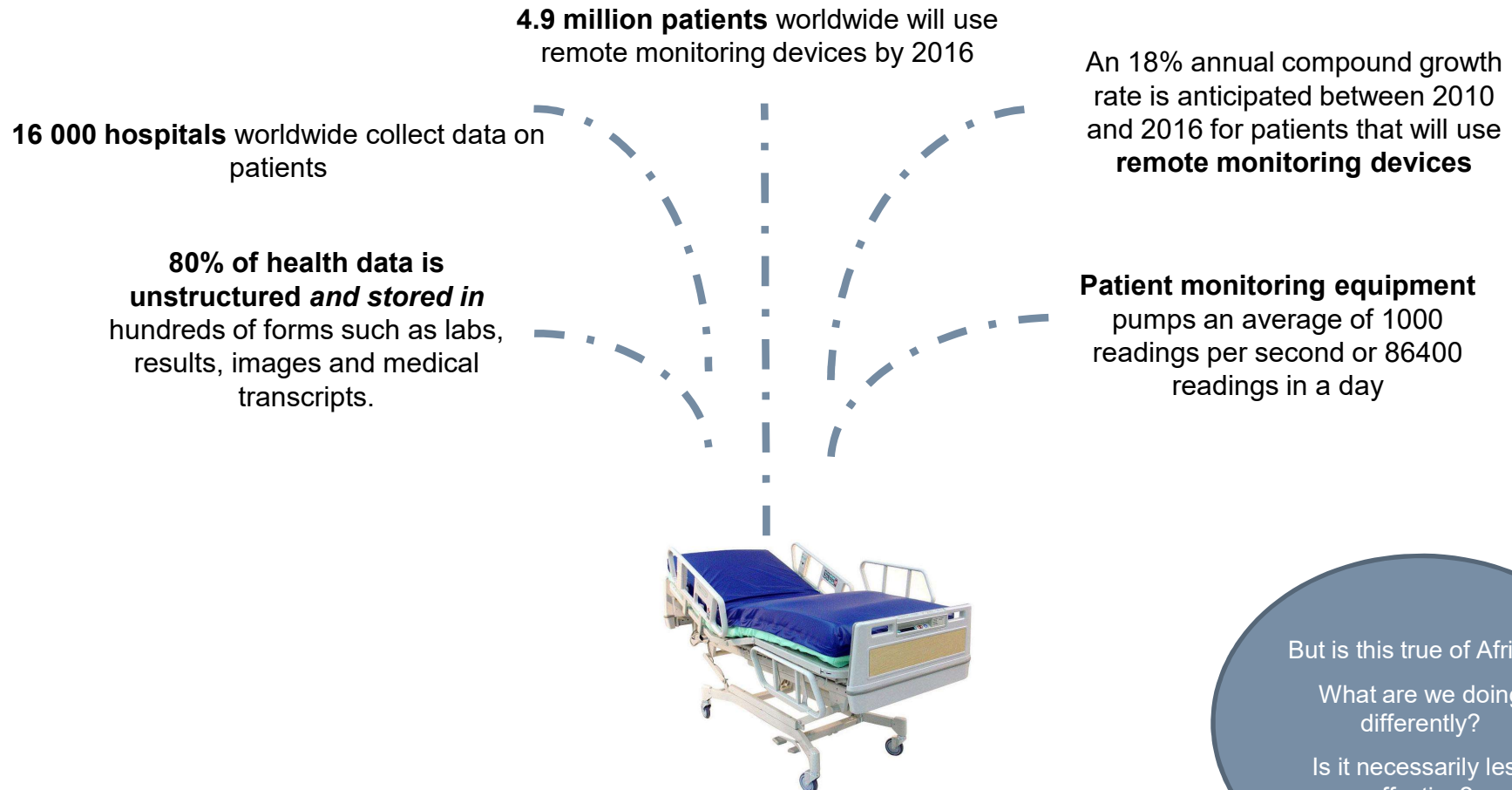
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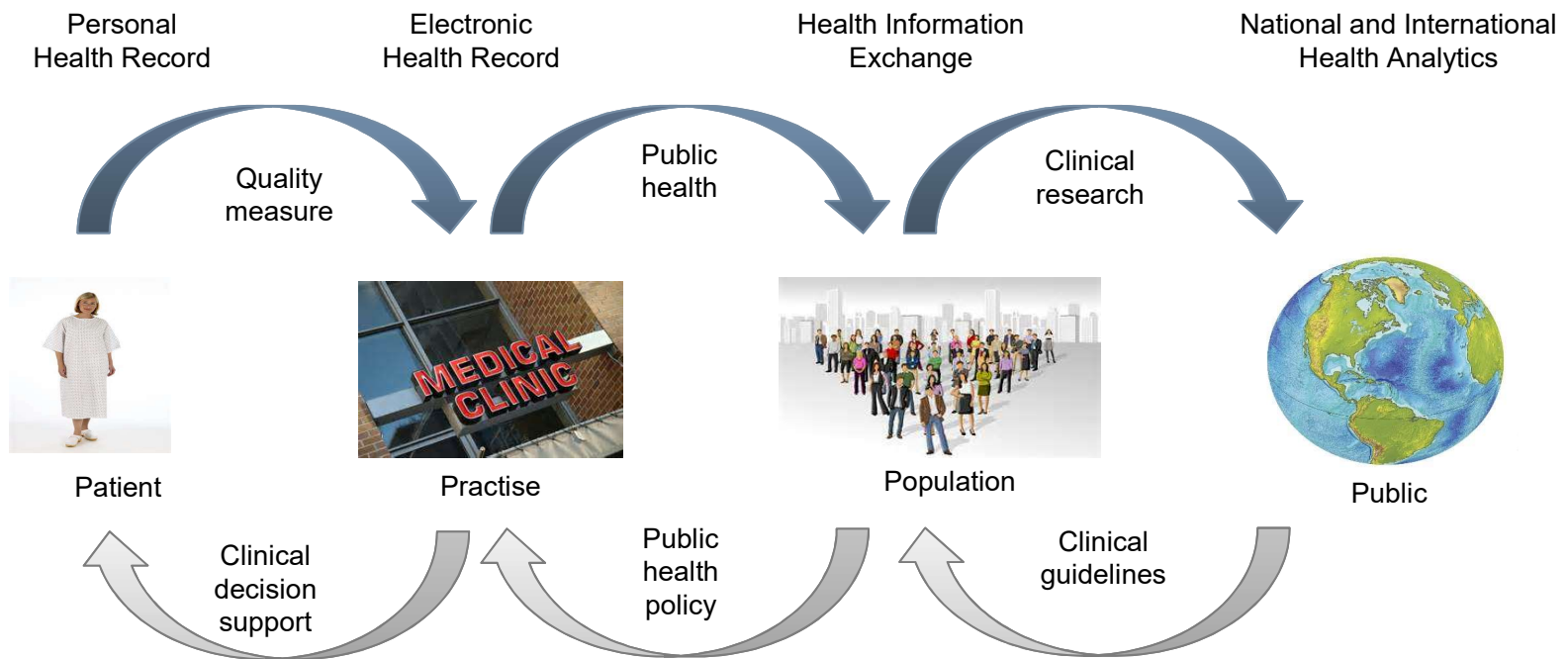
The Global Evolution of Big Data



Data in Healthcare



The Uses of Data in Healthcare



A Trip Around Africa

25k Cases

10k Deaths



Orange
Telecom

Flowminder

Esri

CDC



Rwanda

“ We have said it time and again: the role of ICTs in national, regional, and continental development and, specifically, in wealth creation, employment generation, and poverty reduction, cannot be over-emphasized...

- President Kagame

Rwanda: The Healthcare Data Journey

Rwandan
Ministry of
Health

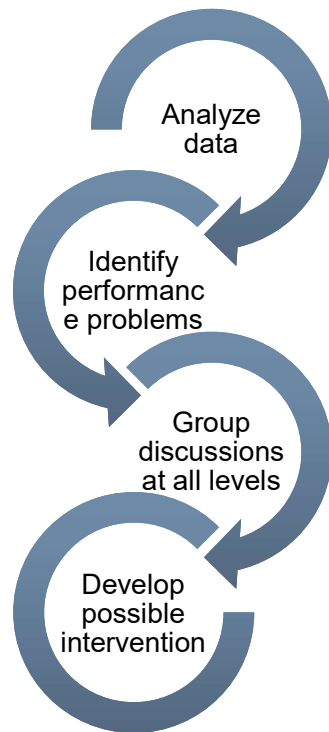
Integrated
Health Systems
Strengthening
Project (IHSSP)

**Simplified the data
collection process**

**Rwandan Health
Management Information
System (R-HMIS) rolled
out nationally in 2012.**

**A web-based software
platform to enter their
information directly into
the national database and
to view real-time analyses**

Rwanda: Cultivating a Culture of Data Use and Informed Decision-Making



Emmanuel Dumishana, Mayange Health Center's Data Manager

Rwanda: Cultivating a Culture of Data Use and Informed Decision-Making



RapidSMS

eHealth Enterprise Architecture Framework

Home Deliveries
+25%

Home Deliveries
+54%

U5 Deaths
-48%

Malawi, Ghana and Cameroon tackling Malaria

Interactive SMS & Edutainment

7.7m Suspected
Cases...

16.7m Population



“SMS for Life”

Improving medicine access through innovation

SMS For Life

National Medicine Inventories

Outpatient visits

37.5%

Hospital
Admissions

36%

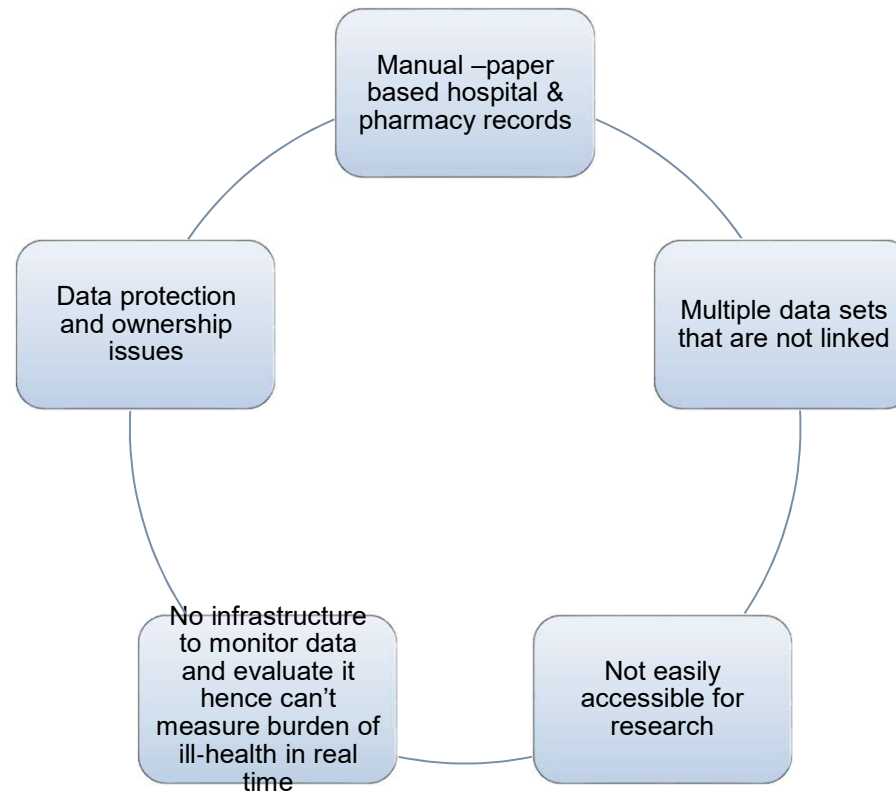
U5 Deaths

33.4%

Pregnancy
Deaths

9.4%

Nigeria: The Contradiction



South Africa

Public Sector

Fragmented systems

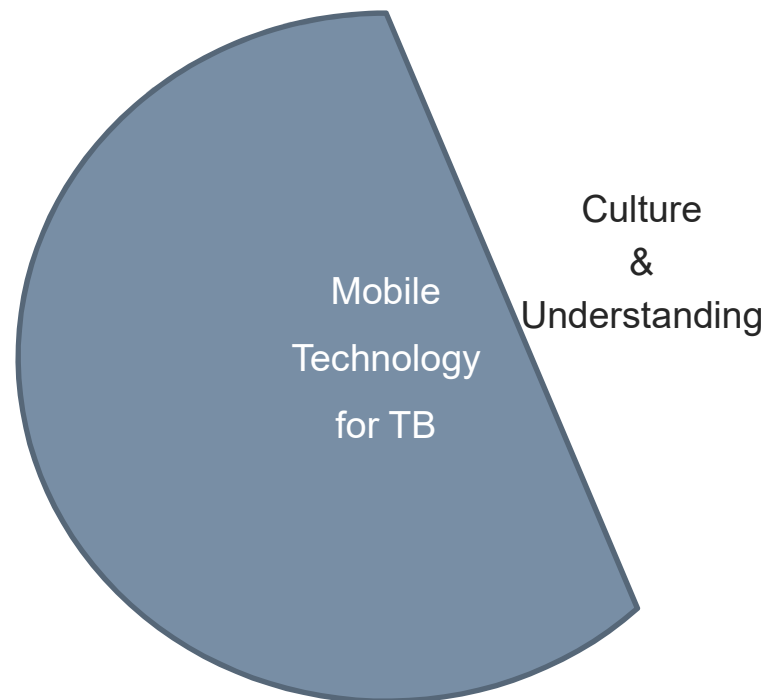
Announced
implementation of
EHR 9 years ago

Private Sector

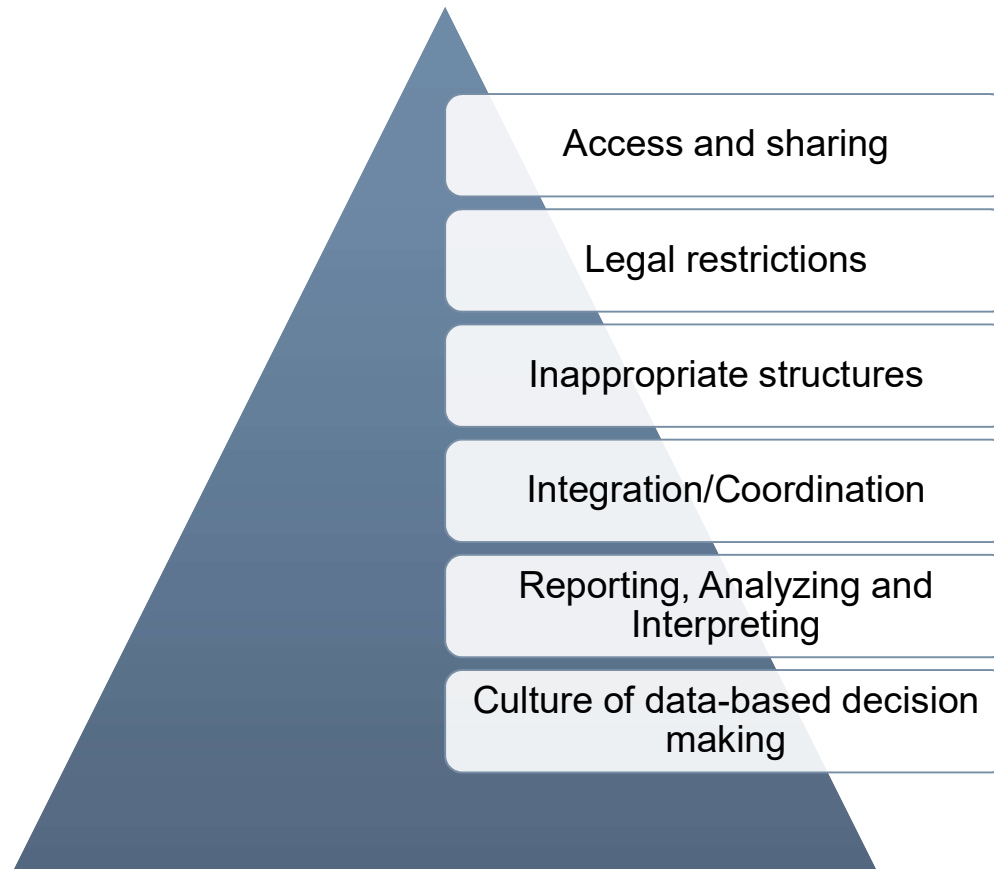
Pockets of excellence

Discovery Health –
leading best practise
example

South Africa



Key Common Challenges

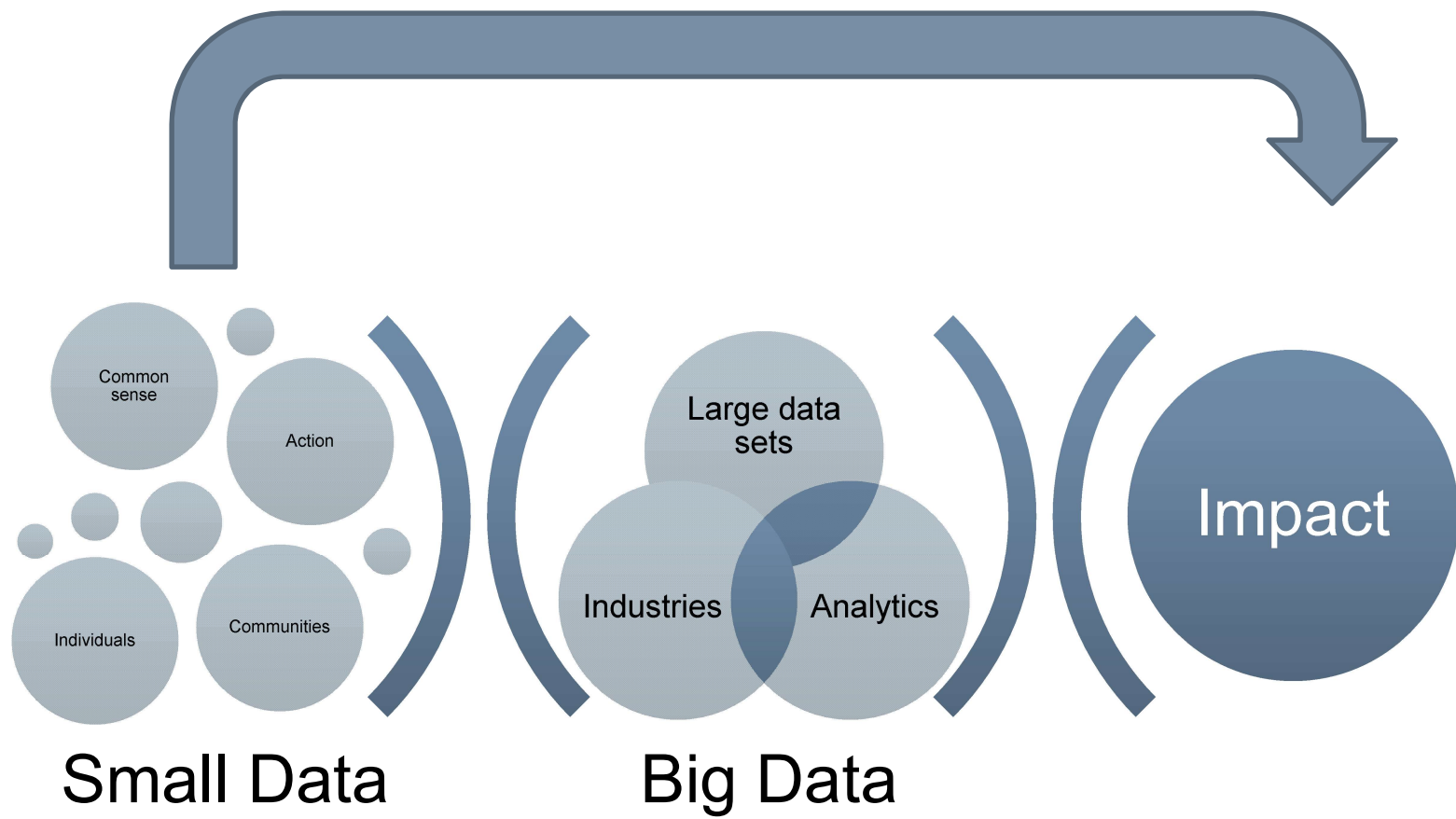


Big Data and the Human Touch

"Health care is a contradictory enterprise, generating terabytes of data in the course of a month but still requiring a high level of human touch...The challenge for us is to find ways to use that data to help patients get better faster while maximizing efficiency and lowering costs — all without compromising the human element of the patient experience."

- Dr. Mark Williams

What next for Africa and Healthcare Data?



Questions?

About the Presenter



Kudzai Chigiji is an Actuary with a particular focus in healthcare and banking. She works for WesBank Group.

Her experience spans life insurance, management consulting, healthcare consulting, social security development, banking and loyalty programs.

