

# Can Cognitive Solutions Address Healthcare Challenges in Sub Saharan Africa?

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**12 labs. 6 continents.**



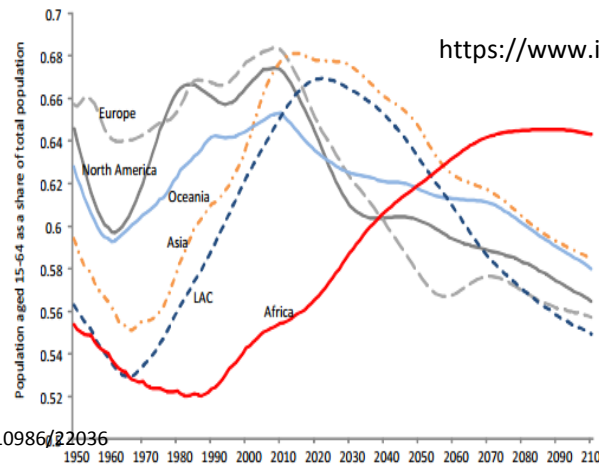
# The Healthcare African Context

Table 1. Africa Rising

	Total population (bn)			Working age population (bn)		
	2010	2100	Change	2010	2100	Change
World	6.9	10.9	4.0	4.5	6.5	2.0
Africa	1.0	4.2	3.2	0.6	2.7	2.1
<i>Africa/World (percent)</i>	14.9	38.5		12.6	41.2	

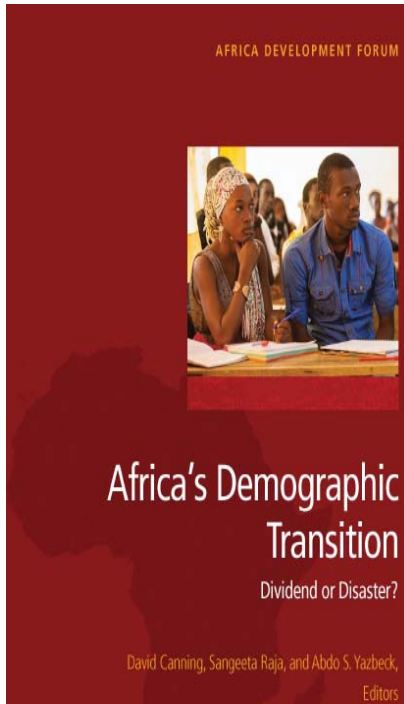
Source: IMF staff estimates based on UN World Population Database.

Figure 1. Global trends in working age population: 1950-2100



<https://www.imf.org/external/pubs/ft/wp/2014/wp14143.pdf>

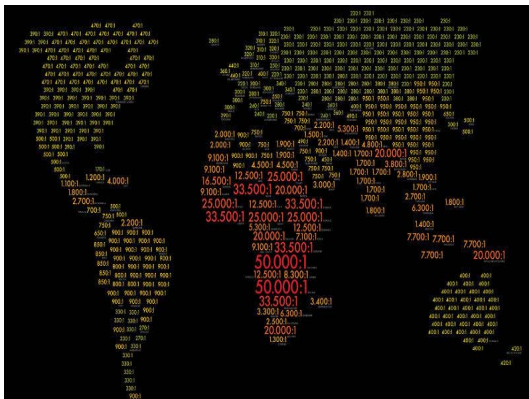
Source: IMF staff estimates based on UN World Population Database



<https://openknowledge.worldbank.org/handle/10986/22036>

**Double burden on healthcare system**  
 -NCDs on the rise  
 - “Africa’s New Silent Killers” (WHO)  
 -Infectious diseases are still there  
 -“Demographic **Dividend** or **Disaster**”

24% of global disease burden  
 15% of world population  
 3% of world healthcare workers  
 1% of world healthcare expenditures  
 Mostly on infectious diseases



# Welcome to the cognitive era

## Digital intelligence meets digital business

**Data is the new natural resource. Yet 80 percent of data is largely invisible to computers—the unstructured data that encodes language—and has therefore been useless to us.**

But IBM Watson applies its cognitive technologies to help change how we approach and understand this information. It can ingest this unstructured data and not only understand it, but also reason about it, combine it with structured data and learn from it. Now, products, services and processes can, in a sense, think. With every industry facing an explosion of data, cognitive solutions will change many aspects of how people learn and live, transact and relate, compete and win.



# Cognitive Investigation Loops

