

# **The Africa Statistical Day**

## Dissemination of Mortality Key Indicators

National Bureau of Statistics

*23 November, 2015*

# OUTLINE

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- Introduction
  - Key Mortality Indicators
    - Crude death rate
    - Infant Mortality rate
    - Under-Five Mortality rate
    - **Life Expectancy**
  - Conclusions
  - Policy Implication
  - Way Forward
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# INTRODUCTION

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- Tanzania conducted its latest census in August 2012,
  - The Mortality indicators were calculated from the 2012 PHC data, using indirect estimation based on child survivorship data,
  - Mortality is the one of the important indicator of population dynamics and can be used by;
    - MoHSW to measure mortality trends
    - Social Security Schemes for estimation of pension and
    - Insurance companies for risk analysis
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# KEY MORTALITY INDICATORS

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## CRUDE DEATH RATE

- The country's Crude Death Rate lies at around 9 deaths per 1,000 population;
    - Which is within the levels recorded in other eastern African countries in the 2010 round of censuses,
    - CDR in urban is 10 deaths per 1,000 population,
    - CDR in rural is 9 deaths per 1,000 population,
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# KEY MORTALITY...

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## INFANT MORTALITY RATE (IMR)

- Overall IMR is 46 deaths per 1,000 live births;
    - IMR are the same for Tanzania Mainland and Tanzania Zanzibar (46 deaths per 1,000 live births),
    - IMR is lower in rural (46 deaths) and higher in urban areas with 49 deaths per 1,000 live births,
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# KEY MORTALITY...

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## UNDER-FIVE MORTALITY RATE (U5MR)

- Under-Five Mortality Rate (U5MR) is 67 deaths per 1,000 live births;
  - U5MR are the same for Tanzania Mainland and Tanzania Zanzibar (67 deaths per 1,000 live births),
  - U5MR in rural is 66 deaths per 1,000 live births,
  - U5MR in urban is 71 deaths per 1,000 live births.

## LIFE EXPECTANCY

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# LIFE EXPECTANCY

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- Life expectancy is the estimated average number of additional years a person could expect to live if the “age-specific” death rates for a given year prevailed for the rest of his or her lifetime,
  - Life expectancy at birth is an estimate of the average number of years a new born baby is expected to live subject to the mortality risks prevailing for the cross-section of the population at the time of its birth,
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# LIFE EXPECTANCY...

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- ❑ The estimated number of years an individual is expected to live generally decreases with increasing age,
  - ❑ It summarizes the mortality pattern that prevails across all age groups in a given year, such as children and adolescents, adults and the elderly,
  - ❑ Life expectancy can be measured at birth or at any age or age group,
  - ❑ Life expectancy at birth reflects the overall mortality level of a population,
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# LIFE EXPECTANCY...

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- Life expectancy is the single most influential factor that insurance companies use to determine life insurance premiums,
  - Understanding how insurance companies use the concept of life expectancy, and how it is calculated for the insured, can help to decide:
    - when to purchase a policy,
    - how to calculate the future potential value of a policy and
    - what to consider when choosing an annuity payout option,
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# LIFE EXPECTANCY...

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- Factors that affecting life expectancy;
    - Socio-Economic conditions (the better the condition, the higher the life expectancy),
    - When you were born
    - Your sex (Women live longer than men all around the world)
    - Personal medical condition and
    - Family medical history
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# KEY MORTALITY...

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## LIFE EXPECTANCY AT BIRTH

- Life Expectancy and Your Life Insurance Premium
    - There is a direct correlation between your life expectancy and how much you'll be charged for a life insurance policy,
    - The younger you are when you purchase a life insurance policy the longer you are likely to live,
      - That means there is a lower risk to the life insurance company because you are less likely to die in the near term, which would require a payout of the full benefit of your policy before you have paid much into the policy,
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# LIFE EXPECTANCY...

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## □ **Life Expectancy and Your Life Insurance...**

- Conversely, the longer you wait to purchase life insurance, the lower your life expectancy, and that translates into a higher risk for the life insurance company in that case, companies compensate for that risk by charging a higher premium.
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# LIFE EXPECTANCY...

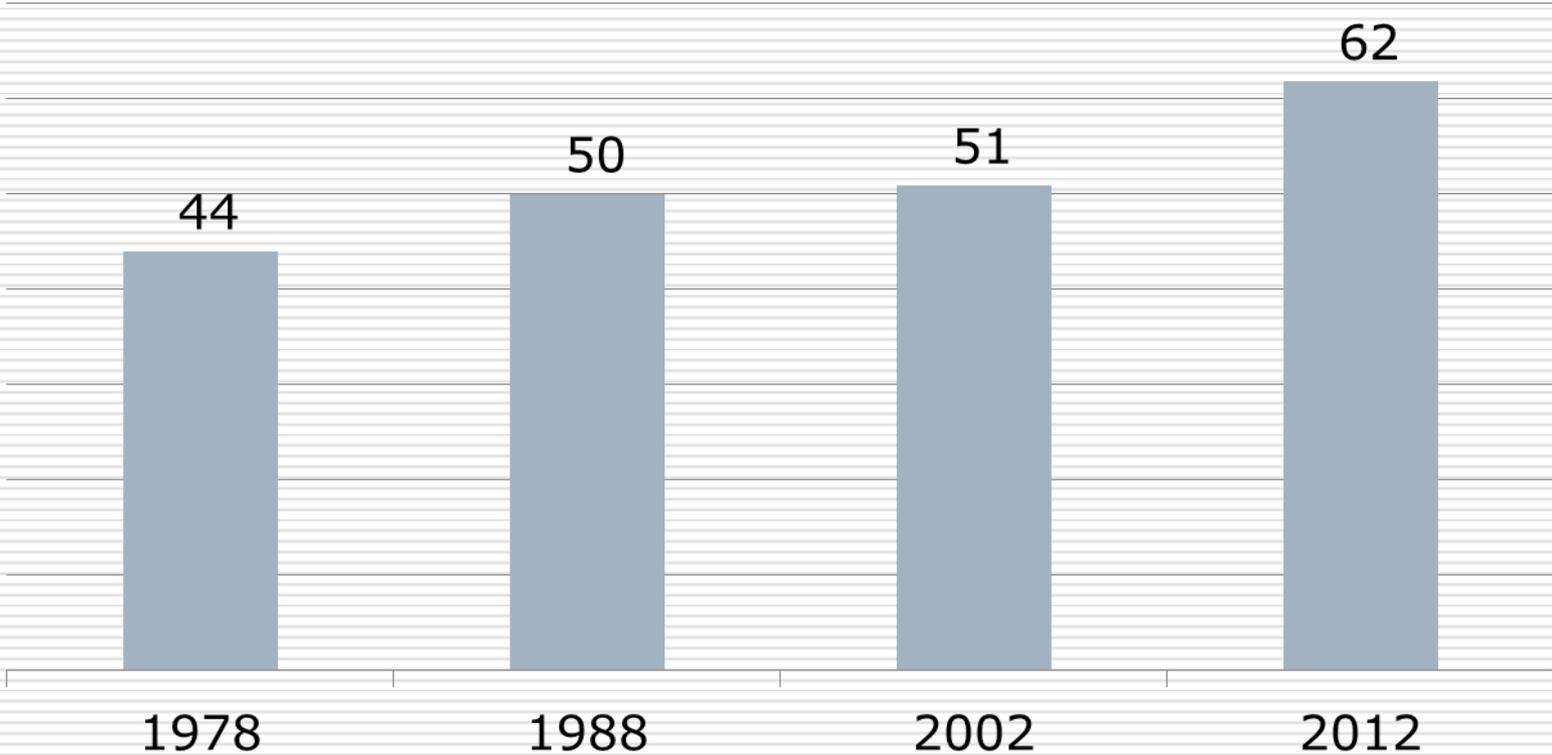
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- The overall life expectancy at birth was 62 years in Tanzania;
    - Is higher in Rural area (62 yrs) than in Urban area (60 yrs),
    - Is higher in Tanzania Zanzibar (64 yrs) than in Tanzania Mainland (62 yrs),
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# LIFE EXPECTANCY...

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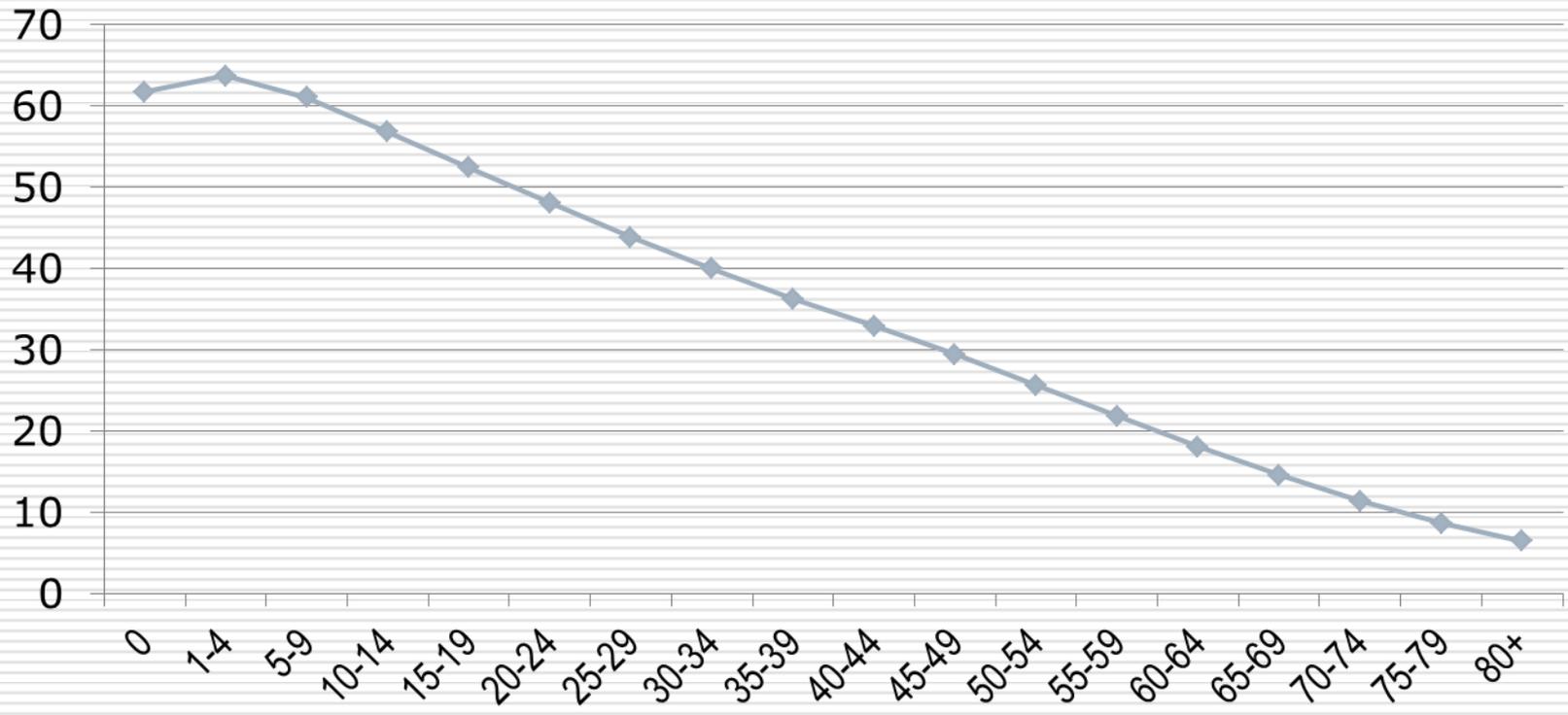
## Trends in Life Expectancy



# LIFE EXPECTANCY...

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**Life expectancy by age**



# LIFE EXPECTANCY...

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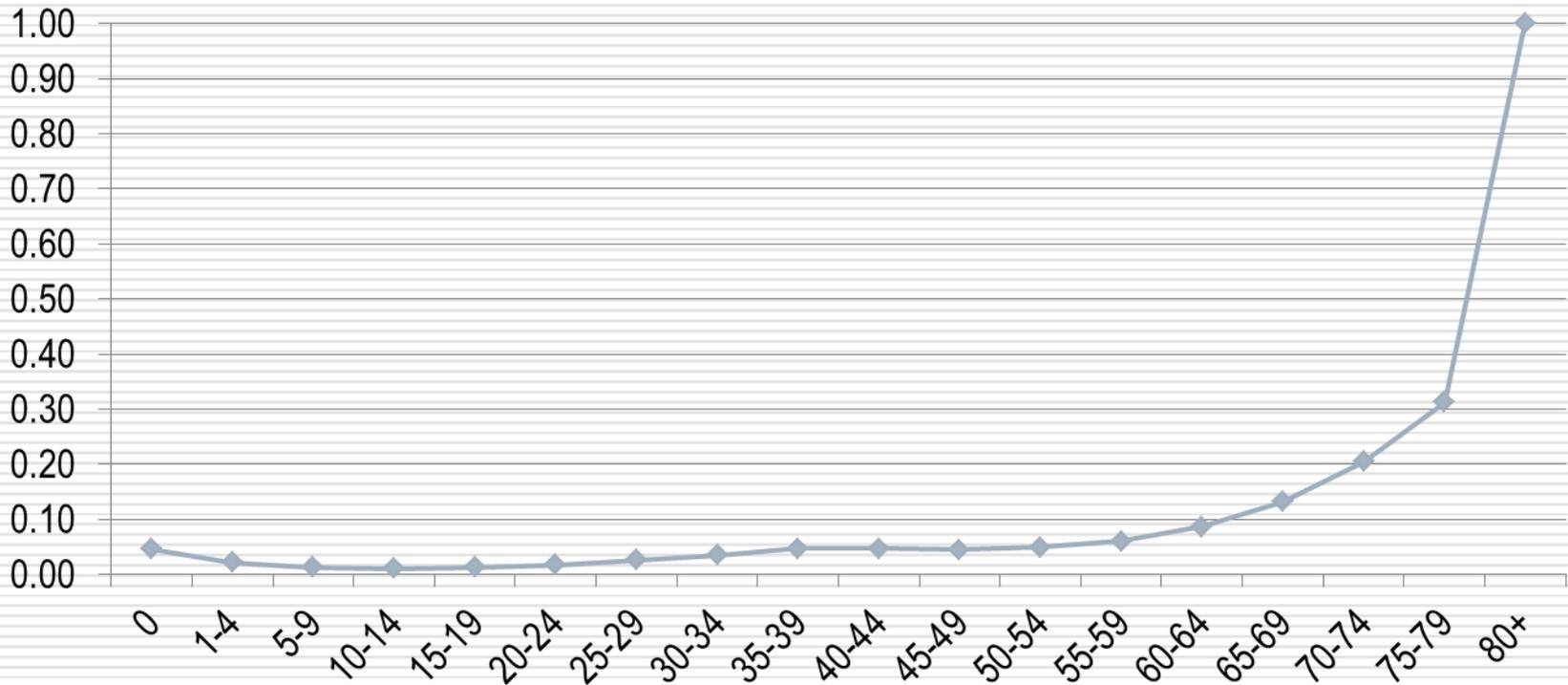
## Life Expectancy By Age Group

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# LIFE EXPECTANCY...

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## Probability of Dying by Age Group



# LIFE EXPECTANCY...

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## Life Expectancy at Birth by Region

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# POLICY IMPLICATION

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- ❑ The NBS has established the current situation about life expectancy at birth of Tanzania,
  - ❑ This call upon planners to set out new targets according to the existing Policy Frame Works on Social Security Scheme,
  - ❑ The most affected group to acquire social and economic opportunities under 15 years which account for 45 percent of total population and elderly population of age 60+ (5 percent),
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# WAY FORWARD

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- Social Protection Policy has to incorporate all these results derived from the Census so as to improve the life expectancy of Tanzanians.
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# CONCLUSION

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- ❑ The life expectancy at birth has increased from 44 years in 1978 to 62 years in 2012 (an increase of 18 years),
  - ❑ There is wide regional variation, life expectancy in some region is higher and resembles that of developed countries such as Arusha and Manyara,
  - ❑ Retired persons of age group 60-64 are expected to live 18 years more,
  - ❑ Adult mortality rate is higher at older ages as it has been seen at age 60+
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# THANK YOU

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