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# The Evolution and Future of Social Security in Africa: An Actuarial Perspective

Presented by Members of the Actuarial Society of South Africa Social Security Committee
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## Outline

#### Introduction

#### African Highlights

#### General Framework of Discussion/Presentation

- Benefits Covered
- International and African Experience
- Current African Challenges
- Actuarial Involvement in Africa

#### **Areas Covered**

- Retirement Benefits
- Healthcare
- Unemployment Benefits
- Broader Social Security Nets
- Survivor Benefits
- Family Benefits
- Education
- Work Injury Benefits
- Disability Benefits
- Motor Vehicle Accident Benefits
- Gender Inequality
- Child/Orphan Grants

#### Actuarial Perspective and Contribution



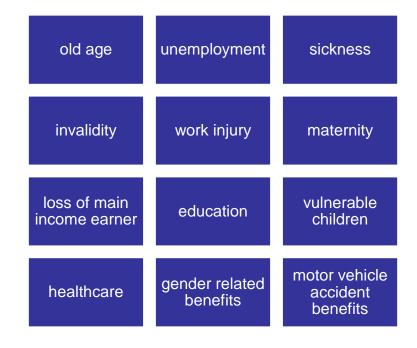


# Africa



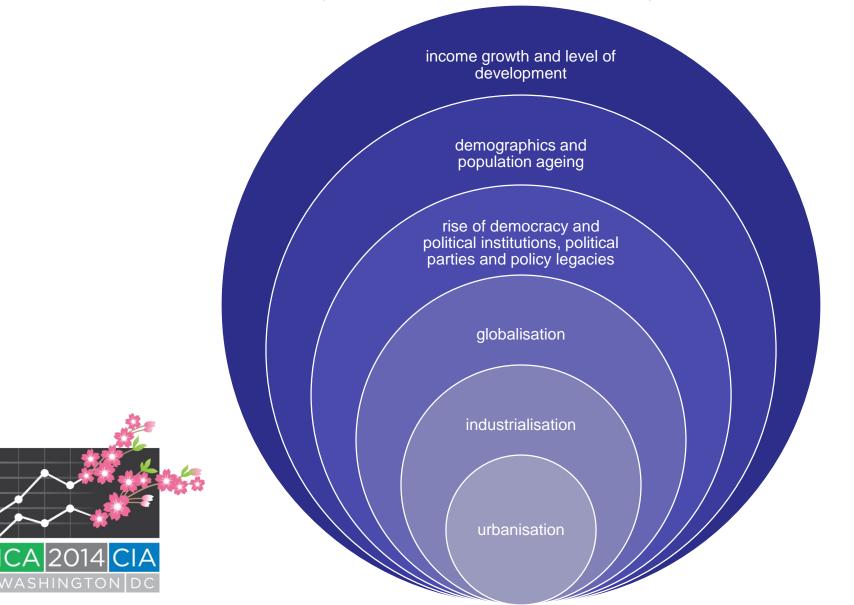


- Aim: Provide a high level summary of Social Security developments within the African context
- Role of Social Security in correcting several historical social ills.
- Marked increase in empowerment programs and grants for women and the youth.
- Actuarial Involvement: Assessing and ensuring sustainability of Social Security benefits





The main factors considered driving forces behind Social Security spending patterns are as follows:



- Brief economic and demographic features of Africa as follows:
  - Expected growth in GDP in 2014 for Sub-Saharan African countries was 5.9% compared to 2.1% for developed countries;
  - 11 of the 20 fastest growing economies in the world are in Africa;
  - 13 African countries were expected to grow at a rate higher than 7% in 2013;
  - Average gross debt to GDP ratio for Sub-Saharan African countries of 36% as opposed to 109% for developed countries;
  - Countries with the 10 youngest populations are all in Africa;
  - 41% of the African population are under the age of 15;
  - Africa is expected to have the world's largest working population in 30 years.

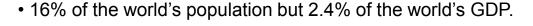




World's Ten fastest GDP growth rates - 2001 to 2010

Country	GDP Growth Rate
Angola *	11.1%
China	10.5%
Myanmar	10.3%
Nigeria *	8.9%
Ethiopia *	8.4%
Kazakhstan	8.2%
Chad *	7.9%
Mozambique *	7.9%
Cambodia	7.7%
Rwanda *	7.6%

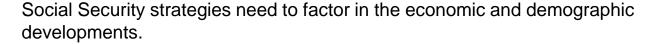
<sup>\*</sup> African country Sources - The Economist



- Proportion of people living below poverty line in Sub-Saharan Africa reduced from 51% in 1981 to 47% in 2008.
- •China reduced the proportion living below the poverty line from 84% in 1981 to 13% in 2008.

World's Ten fastest projected GDP growth rates - 2011 to 2015

Country	GDP Growth Rate
China	9.5%
India	8.2%
Ethiopia *	8.1%
Mozambique *	7.7%
Tanzania *	7.2%
Vietnam	7.2%
Congo *	7.0%
Ghana *	7.0%
Zambia *	6.9%
Nigeria *	6.8%



## Pensions





### Retirement

#### Provision objectives

Smooth consumption from working life into retirement

Protect against poverty in old age





# International Experience

Region	Number of	Тур	(may be multiple)	
	countries	Mandatory DC, replacement target = % lifetime earnings	Mandatory DC, independent investment management	Non- Contributory, state financed
World	193	78%	17%	42%
Sub-Saharan Africa	46	72%	4%	17%
Middle East and North Africa	20	90%	5%	10%





# Major Challenges

Equity and adequacy: coverage rates modest; self-employed, informal sector

Administrative concerns: costly, sometimes weak

major issues with pension systems in Africa

Affordability: promise generally large; already large % GDP

ICA 2014 CIA

Governance: generally weak

Sustainability:
many PAYG;
scheme rules;
demographic change

#### Potential Intervention Areas

Intervention	Comments	Address
Create safety net	<ul><li>Simple, small, universal</li><li>Fiscally viable and sustainable</li></ul>	Equity
Improve coverage rates	<ul><li>Private and informal sectors</li><li>Self-employed</li></ul>	Adequacy
Rethink earning-related protection	<ul> <li>Realign benefits and contribution rates</li> </ul>	Affordability
Recognise / fund a portion of liabilities explicitly	Depends on financial viability	Sustainability
Protect benefits	<ul> <li>Improve governance and accountability</li> <li>Diversify provision sources</li> <li>Legally recognise benefits</li> </ul>	Governance





# Reform Types

Туре	African example	Potential issue(s) addressed
<ul> <li>Parametric</li> <li>Retain existing structure</li> <li>Change: Contribution parameters Benefit parameters and / or Eligibility conditions </li> </ul>	Kenya	Sustainability Affordability Adequacy Equity Predictability
Non-financial (unfunded) DC <ul><li>Link between benefits &amp; contributions</li></ul>	Egypt (terminated)	Sustainability Equity
Full/part prefunding	Nigeria	Sustainability
<ul><li>Incorporating behavioural economics</li><li>Nudge into better decisions</li></ul>	Rwanda	Adequacy
(Partial) individual contribution match by state		Adequacy



#### Other possibilities:

- Limit transaction costs
- Expand sources of provision
- Improve access
- Mandate participation
- •Create a single UIF and retirement account



## Intervention Pre-requisites

Aligned to goals of retirement system

Conducive macro and fiscal environment

Credible government commitment

Local buy-in and leadership

Supporting structures in place

- Adequate regulation and supervision
  - Effective Operating Systems





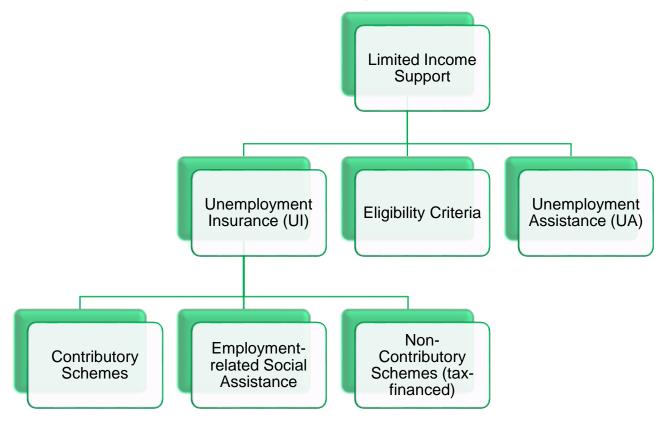
# Unemployment







## **Benefits Covered**





# African & International Experience

**AFRICA** 

Limited Published Documents

Challenges

Demographic Differences

INTERNATIONAL

Hidden Employment Reemployment Incentives

Severance Payments

Hiring Subsidies Compulsory Enrolment in formal employment

Continuous Evaluation



# Current African Challenges

**Administrative Burden** 

Access To Payments

**Limited Coverage** 

**Availability Of Information** 

Corruption, Fraud & Eligibility Enforcement

Varying Financial Performance

Lack Of Coordination





# Health





## Healthcare

"access to key promotive, preventive, curative and rehabilitative health interventions for all at an affordable cost"





#### Healthcare

#### Goal 4: Reduce child mortality rates

Target 4A: Reduce by two-thirds, between 1990 and 2015, the under-five mortality rate

Goal 5: Improve maternal health

Target 5A: Reduce by three quarters, between 1990 and 2015, the maternal mortality ratio

Target 5B: Achieve, by 2015, universal access to reproductive health

Goal 6: Combat HIV/AIDS, malaria, and other diseases

Target 6A: Have halted by 2015 and begun to reverse the spread of HIV/AIDS

Target 6B: Achieve, by 2010, universal access to treatment for HIV/AIDS for all those who need it

Target 6C: Have halted by 2015 and begun to reverse the incidence of malaria and other major diseases



# Health Insurance Models and Funding Models

#### **Beveridge Model**:

Great Britain
Spain
Scandinavia
New Zealand
Hong Kong
Cuba

#### **NHI Model:**

Canada Taiwan South Korea

#### **Bismarck Model:**

Germany
Switzerland
France
Belgium
Netherlands
Japan
Latin America

#### Out-of-Pocket Model:

Rural regions of:
Africa
India
China
South America



# African Challenges in Healthcare

- Healthcare is inequitable and inaccessible to a large proportion of the population
  - Quadruple burden of disease
  - Shortage of healthcare professionals
    - Lack of adequate infrastructure
  - Poor technology both medical technology and IT
    - High unemployment rates low level of funding
      - Poor education
      - Poor living conditions
        - Cultural diversity
      - Political/Civil unrest
      - Geographical density
      - Crime and corruption





# Broader Social Security





# **Broader Social Security Nets**

Survivor Benefits

Family Benefits

Work Injury Benefits

Disability Benefits

Motor Vehicle Accident Benefits

Gender Inequality

Child/Orphan Grants

Education

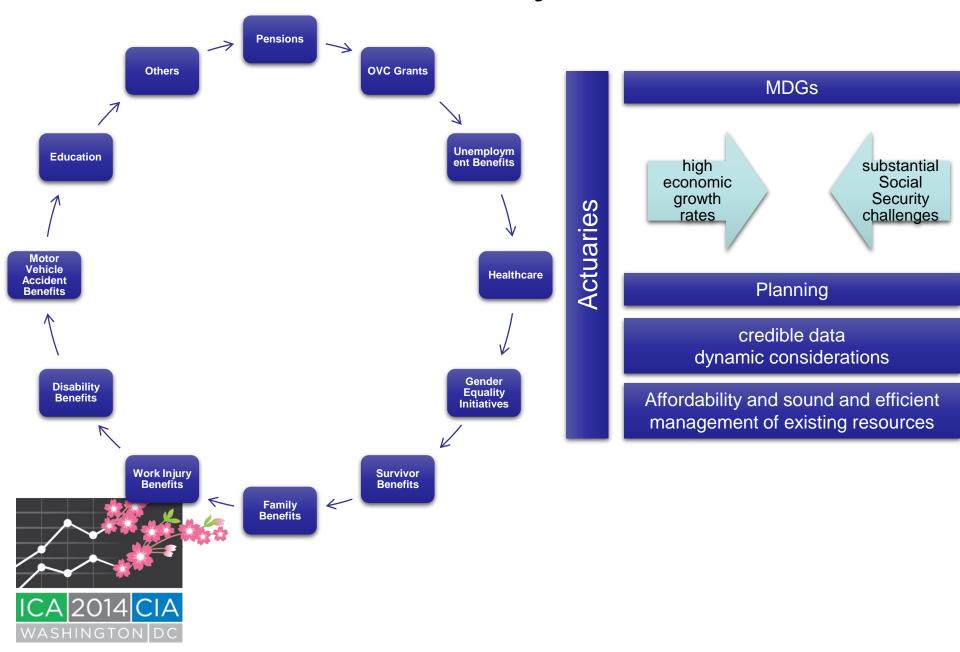


# Conclusion

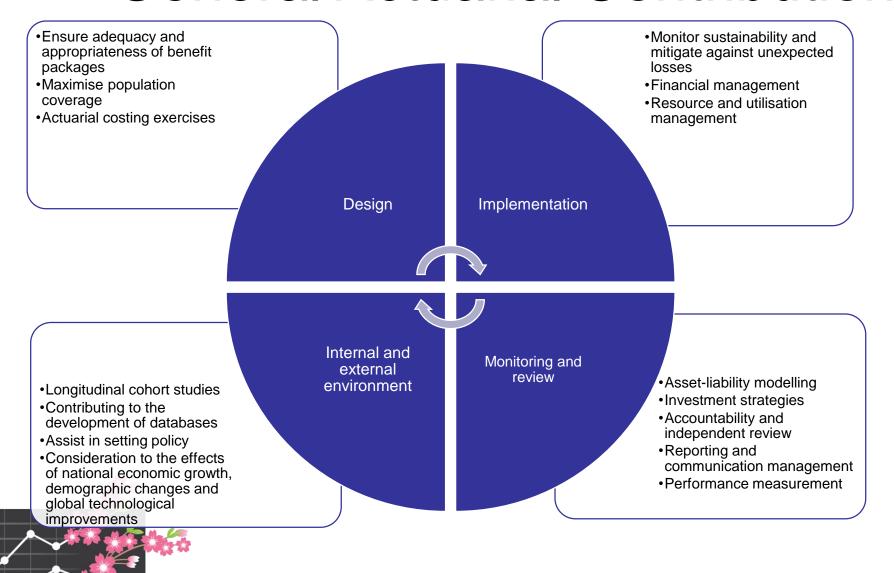




# Social Security in Africa



## General Actuarial Contribution





## Questions



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