

Pension Patterns and Challenges in Sub-Saharan Africa World Bank Pensions Core Course April 30, 2015

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Organization

- 1. Pension Patterns & Challenges
 - a. Scheme Design
 - b. Enabling conditions: Demographics, household composition, poverty and growth
 - c. Coverage
 - d. Adequacy and affordability
 - e. Sustainability
- 2. Questions for discussion



Scheme Design



Pension scheme design

			National Scheme		Separate or Integrat	ed with National Civil S	ervar	nts Schemes		Oratikular and	Even d'ann												
		Design			Canada from	Scheme		Occupational		Contributory and	Funding		Non-Contributory Elderly Assistance										
		PAYG DB	Provident Fund	Funded DC	National Scheme	National Scheme		Scheme (no national scheme)	Noncontrib.	PAYG DB	FDB	FDC	Universal	Pension- Tested	Means- Tested	Pilot Scheme							
	1 Angola	\checkmark			\checkmark					\checkmark													
	² Benin	\checkmark			\checkmark					\checkmark													
	³ Botswana							\checkmark				\checkmark	\checkmark										
	⁴ Burkina Faso	\checkmark			\checkmark					\checkmark													
	⁵ Burundi	\checkmark			\checkmark				\checkmark														
	⁶ Cameroon	\checkmark								\checkmark													
	⁷ Cape Verde	\checkmark				\checkmark	1/			\checkmark					\checkmark								
	[®] Central African Rep.	\checkmark				\checkmark				\checkmark													
	⁹ Chad	\checkmark				\checkmark				\checkmark													
10	Congo, Dem. Rep.	\checkmark			\checkmark				\checkmark														
11	Congo, Rep.	\checkmark			\checkmark					\checkmark													
12	Cote d'Ivoire									\checkmark													
13	Ethiopia	\checkmark				\checkmark				\checkmark													
14	Gambia, The		\checkmark		\checkmark				\checkmark														
15	Ghana	\checkmark		\checkmark		\checkmark	2/			\checkmark		\checkmark											
16	Guinea	\checkmark			\checkmark					\checkmark													
17	Guinea-Bissau	\checkmark				\checkmark				\checkmark													
18	Kenya		\checkmark		\checkmark				\checkmark							\checkmark							
19	Lesotho							\checkmark		\checkmark				\checkmark									
20	Liberia	\checkmark				\checkmark	3/			\checkmark													
21	Madagascar	\checkmark			\checkmark					\checkmark													
22	Malawi			\checkmark		\checkmark						\checkmark											
23	Mali	\checkmark			\checkmark					\checkmark													
24	Mauritania	\checkmark			\checkmark					\checkmark													
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28	Niger	\checkmark			\checkmark					\checkmark													
29	Nigeria			\checkmark		\checkmark						\checkmark				\checkmark							
30	Rwanda	\checkmark				\checkmark				\checkmark													
31	Sao Tome & Principe	\checkmark				\checkmark				\checkmark													
32	Senegal	\checkmark			\checkmark					\checkmark													
33	Seychelles	\checkmark				\checkmark				\checkmark			\checkmark										
34	Sierra Leone	\checkmark				\checkmark	4/			\checkmark													
35	Somaliland						5/			5/													
36	South Africa				\checkmark			\checkmark			\checkmark				\checkmark								
37	South Sudan						5/			5/													
38	Sudan	\checkmark								7/													
39	Swaziland		\checkmark		\checkmark						\checkmark			\checkmark									
40	Tanzania	\checkmark			\checkmark					\checkmark													
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43	Zambia	V				\checkmark	6/			V						\checkmark							
44	Zimbabwe	V			\checkmark					V													
1/ Integrat	ed for civil servants hired beginning in 2005.																						
2/ Integrat	ed first in 1972 and then further integrated in 1991.	reedue e cumlementere to a d	A from the Transum																				
4/ Integrat	ed for new civil servants beginning in 2002.	received supplementary benefit	t nom me Treasury.																				
5/ Legislat	ion is being developed to constitute a formal pension sc	heme for civil servants.																					

Enabling Conditions: Demographics, Household Composition, Poverty & Growth



Old Age Dependency Rates – low but growing

Projected Old Age Dependency Ratios

(Age 65+/age 15-64)



Source: World Bank database based on World Population Projections, 2010 revision.

Note: Mauritius and Seychelles have not been included.



Demographic window offers a positive environment for reform

Total Dependency Ratio Projections

(Percent)



Source: United Nations, Population Division, Population Projections, 2012 Revision,



Household composition 87% of elderly live with non-elderly



Percent of elderly living in households with non-elderly

Source: World Bank ASPIRE database, accessed November 2014.



Growth Projections offer a Positive Environment for Most

Recent and Projected Annual Real GDP Growth Rates



Source: IMF World Economic Outlook Database, 2015.



High poverty levels < \$1.25/day & weak correlation with GDP/capita

GDP per capita and Poverty Headcount





Source: World Economic Indicators, 2012.

Note: Poverty headcount is from the most recent year between 2005 and 2012. The GDP per capita data is from 2012. The lack of uniformity between the poverty headcount figures and the GDP per capita figures **WORLD BANK GROUP** Social Prot/Ceffects the difference in data points.





What is the coverage gap?



Individual pre-retirement wage as a % of the average wage in the economy



Key Challenge – Labor force coverage



Coverage – strongly correlated w/GDP per capita





Contributory pensions generally cover those w/wage incomes & better off in retirement



Elderly coverage weak (except in countries with non-contributory schemes)

Elderly and Labor Force Coverage

(Late 2000s; percent of elderly over eligibility age; percent of labor force)



Sources: ILO, World Bank, country administrative data.

What has contributed to the coverage challenge?

- Low, volatile & non-wage incomes (w/populations substantially rural and informal)
- Payroll-tax contributory schemes best aligned to formal sector employment
 - Contribution rates may discourage coverage & compliance
 - Vesting periods penalize informality
 - Discretionary indexation creates uncertainty
 - Compliance & enforcement costly
- Voluntary occupational & individual schemes offer options but need to be better regulated & supervised in many countries to ensure public confidence.





Adequacy & Affordability



Adequacy of non-contributory pensions – tension with coverage and cost



...target replacement rates in some cases too high to be widely afforded or sustained



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p Source: Social Security Programs throughout the World: Africa 2013; and Bank estimates.

...Contribution rates linked to target income replacement & scope of benefits



Source: Social Security Programs throughout the World: Africa 2013.

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...uncertain indexation & vesting periods can discourage participation of some workers ...

Indexation

Vesting periods

Contributory Pension Indexation

Angola	NA	25																										
Benin	Discretionary	25																										
Botswana	1/																											
Burkina Faso	Discretionary (acc to wages, minimum wage & resources of the scheme)																											
	Discretionary (according to changes in the cost of living, depending on the financial resources of the																											1.0
Burundi	system)																											
Cameroon	No explicit indexation																											
Cape Verde	Ad-hoc	20	-																									
Central African Republic	No explicit indexation																											
Chad	Discretionary (by decree according to actuarial projections by the National Social Insurance Fund)																											
Congo, Dem. Rep.	Discretionary																											
Congo, Rep.	Price																											
Cote d'Ivoire	Price (and according to changes in the cost of living, depending on the financial resources of the system)	15	+																						17			H
Ethiopia	NA																											
Gambia, The	2/																											
Ghana	Wage indexation																											
Guinea	Wage, depending on the financial resources of the system																											
Guinea-Bissau	NA																											
Kenya	2/	10	-										H		⊢₽		H					H			7	 -		H-
Lesotho	1/																											
Liberia	NA																											
Madagascar	According to increases in the legal minimum wage																											
Malawi	4/																											
	Benefits are indexed (adjusted) by decree according to changes in the average salary and the legal																											
Mali	minimum wage, depending on the financial resources of the system.	5.																										
Mauritania	Price, depending on the financial resources of the National Social Security Fund	5																										
Mauritius	NA																											
Mozambique	NA																											
Namibia	1/																											
Niger	3/		_																									
Nigeria	4/	- 0																										
Rwanda	Ad hoc on the basis of Presidential Decree	0	_			· · ·				0	a 0	- n -			- ·		0 7			π <u>-</u>		1	0 7	, <u> </u>	- "	- <u>-</u>		<u> </u>
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Seychelles	Periodically according to revisions in the regulations which specify the benefit scales and benefit adjustments		Se			Dem	ial G	3 0	lea-E	zam.	d Pri Seycl	zimb	۷	14144	BU	ape	l Rel	te d'	0 (adae B	ж Х	Tar	2	Came	0 2	:	z v	, ogu
Sierra Leone	Wages, depending upon the financial position of NASSIT	1		2	-	ò	o		uir	5	, an	IN I		į		Ü	cai	Ö		Σ	i	N.		Ŭ				ŭ
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Togo	Price																											
Uganda	2/																											
Zambia	Wages																											
Zimbabwe	No explicit indexation																											
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3 Points scheme int Pro	chection & Labor	-																										

Source: Pension Programs throughout the World, Africa, 2013; and Bank estimates.

Sustainability



Mapping contribution rates against full career replacement rates suggests that some countries may face sustainability challenges

Contribution Rates and Calculated Replacement Rates for Defined-Benefit Schemes



Source: Social Security Programs throughout the World, Africa: 2013 and World Bank estimates.



... and some countries have projected unsustainable fiscal burdens over the medium-term







Pension spending generally low compared to regional benchmarks yet understandable when considering dependency and coverage rates

Pension Spending

(% of GDP, % of Government Expenditure – late 2000s)



Source: ILO, World Bank estimates, IMF World Economic Outlook Database, 2014.

And the fiscal envelope is modest compared to other benchmarks



Efficiency can exact a high cost

Administrative Expense Indicators



(US\$ or % of Benefits/Expenditures)

Source: Oleksiy Sluchynsky, Defining, Measuring and Benchmarking Administrative Expenditures of Public Pension Programs. Draft mimeo, 2012.

Note: An "x" above the scheme indicates that the actual costs of operation are more than 5 times the predicted levels based on the averages observed for 100 pension and social security programs throughout the world.



What are the costs of various social pension benefits?

Cost Estimates for Elderly Assistance Schemes

(% of GDP)



Sources: World Development Indicators, accessed 3/2015. Note: demographic data is from 2013; GDP data, government expense data, poverty gap data from 2008-2013 as applicable.



What contributer to potentially growing fircal costs?

- National schemes maturing
- Early stage in demographic transition, but possibly more advanced in covered workforce
- Contr. rates & benefit formulas inconsistent w/long-run balances
- Administrative costs
- Civil servant schemes Growth in system dependency ratios & some with inconsistent parameters.
- Transition costs for civil servant schemes adopting funding.
- Social pension costs increase w/growth in elderly populations
 & scheme expansion



Reform Principles



Reform Principles – contributory schemes

- Explore new design options voluntary, liquid, & possibly with special subsidies for the poor to save.
- **Parametric reforms** choices between years of work life, contribution rates and replacement rates actuarial projections to guide reform options.
 - Retirement age
 - Contribution rate
 - Accrual rate
 - ➤ Wage base def.
 - Vesting
 - Minimum pension
 - Indexation
- Harmonize & merge



- civil service & national schemes (w/occupational top-up as necessary).
- Strengthen regulation & supervision of occupational & individual schemes (esp. for self-employed, unemployed, informal workers).



Reform Principles – non-contributory schemes

- Universal support for the elderly exclusion errors need to be weighed against fiscal costs.
- Cost-benefit analysis of targeting the elderly can be weighed against targeting poor households
- Matching contributions could be linked to worker savings & elderly assistance benefits.

Poverty headcount by age group

 Infrastructure needed for public transfers - identification, targeting, record-keeping, disbursement.

Cost of social pensions to eliminate poverty gap amongst the elderly



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Questions for Discussion



Cloring the coverage gap

- Should a core focus of social security be oriented towards increasing the coverage of elderly poverty protection?
- What contributory designs and non-contributory support offer the strongest potential for scalability?

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- Should cash transfers target the poorest, including elderly in poor households?
- Alternatively, should universal support for the elderly be offered to avoid exclusion errors and labor market effects (or cases with a legacy schemes)?

Aligning pensions to needs and enabling conditions

- Should payroll-based PAYG DB schemes in SSA depart from the scaledpremium approach adopting lower benefit levels where needed consistent with affordable long-term contributions and sustainable balances?
- Where in the region might the risks of pre-funding outweigh the benefits due to insufficient enabling conditions (incl. fiscal capacity to support transition costs, regulatory & institutional infrastructure)?
- What are some of the tradeoffs involved in coordinating or merging civil service and national schemes?

