



Are Medium-Scale Farms Driving Agricultural Transformation in Africa?

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Key messages

- 1. Number of medium-scale farms (MSF) is growing rapidly
- 2. Medium-scale farms' (MSF) share of total area operated is growing rapidly
- 3. Medium-scale farms' (MSF) share of total marketed output is growing
- 4. Growing MSF is attributable to a prolonged surge in global food prices among other factors
- 5. Changing farm structure is fueling technical change and productivity growth at farm level, with multiplier effects throughout the economy
- 6. MSF are an important driver of rural transformation in much of sub-Saharan Africa













Number of MSF and share of operated area growing rapidly



			•				0.65	
	Farm size category	Number of farms		% of farms in Period II	% growth in number of farms	% of total cultivated area		% growth in are operated between
		Period I (year)	Period II (year)		between two — periods	Period I (year)	Period II (year)	two periods
Zambia		2001	2012		_	2001	2012	
	0 – 5 ha	797,157	1,167,315	83	46.4	79.1	47.9	-39.4
	5 – 10 ha	20,832	165,129	12	692.7	14.3	25	74.8
	10 – 20 ha	2,352	53,454	4	2,172.7	6.6	15	127.3
	20 – 100 ha		13,839	1			12.1	
	Total	820,341	1,399,737	100	70.6	100	100	
Tanzania		2008	2012			2008	2012	
	0 – 5 ha	5,454,961	6,151,035	91	12.8	62.4	56.3	-9.8
	5 – 10 ha	300,511	406,947	6	35.4	15.9	18	13.2
	10 – 20 ha	77,668	109,960	2	41.6	7.9	9.7	22.8
	20 – 100 ha	45,700	64,588	1	41.3	13.8	16	
	Total	5,878,840	6,732,530	100	14.5	100	100	
Ghana		1992	2013			1992	2013	
	0-5 ha	2,037,430	2,580,685	84	26.7	60.7	45.5	-25.0
	5-10 ha	116,800	320,411	10	174.3	17.2	22.8	32.6
	10-20 ha	38,690	117,722	4	204.3	11	16.1	46.4
	20-100 ha	18,980	37,421	1	97.2	11.1	12.2	
	>100 ha		1,740	0			3.5	
	Total	2,211,900	3,057,978	100	38.3	100	100	











Number of MSF and share of operated area growing in Tanzania



Farm size	Number of farn	ns (% of total)	% growth in number of farms between initial and latest year	% of total on farms k		
1 41111 3120	2008	2012		2008	2012	
0 – 5 ha	5,454,961 (92.8)	6,151,035 (91.4)	12.8	62.4	56.3	- 6.1%
5 – 10 ha	300,511 (5.1)	406,947 (6.0)	35.4	15.9	18.0	
10 – 20 ha	77,668 (1.3)	9% 109,960 (1.6)	41.6	7.9	44% 9.7	+ 6.1%
20 – 100 ha	45,700 (0.7)	64,588 (0.9)	41.3	13.8	16.0	
Total	5,878,840 (100%)	6,732,530 (100%)	14.5	100.0	100.0	





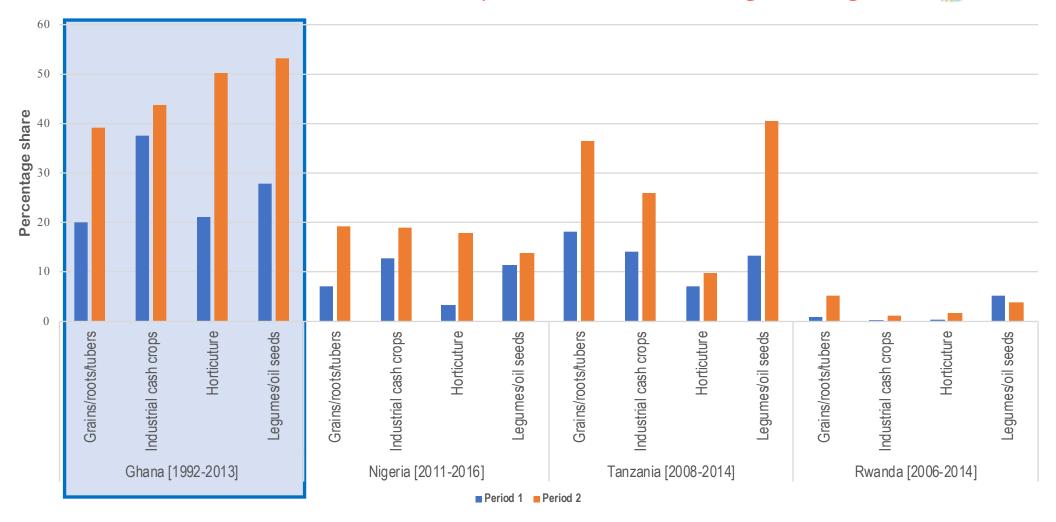






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Share of total marketed output under MSF is growing









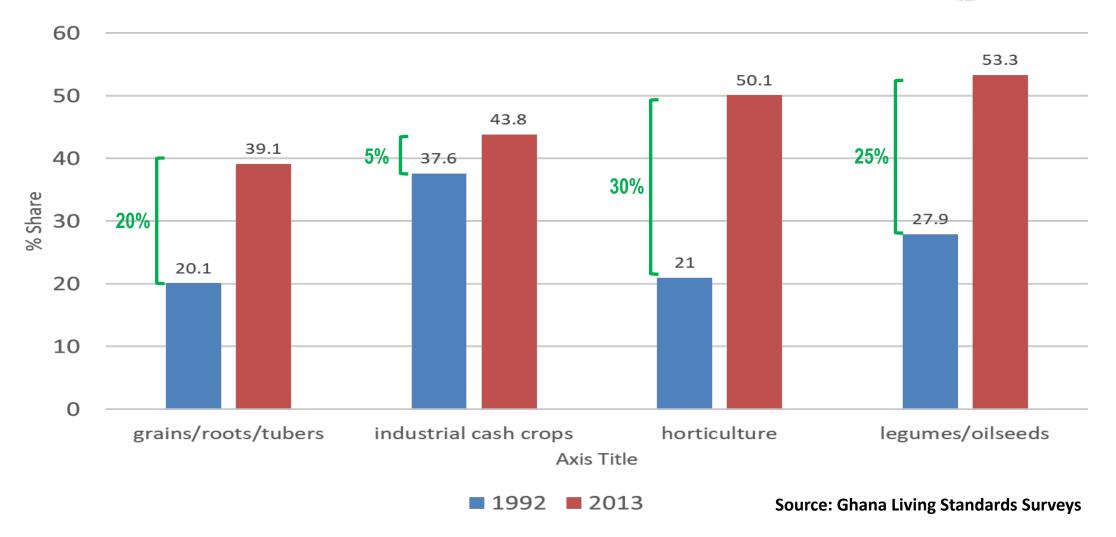






Share of total marketed output under MSF in Ghana

















Characteristics of medium-scale farmers





Category 1: Formerly small-scale farmers who successfully expanded their operations –

- Now typically operate 5-20 ha
- About 10-40%% of total MS farms



Category 2: Rural people who were primarily in non-farm jobs, then invested in farming

- Much more likely to be related to rural power structures chiefs, state govt, religious leaders
- Now typically operating 5-20 ha
- About 40%-50% of MS farms



Category 3: People formerly/currently reside in urban areas

- Formerly or currently salaried jobs, public sector
- Many retirees in this category
- Typically operating 20-50 ha
- Often "telephone farmers"
- 15-25% of total MS farms









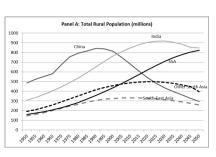












Causes of changing farm structure

- Rise in world food prices heightened investor interest in farmland
- Urban farmers and farm lobbies capture of land policy $\rightarrow de$ facto land laws have become more favorable to MS interests
- Rise of land markets for purchase/sale considered illegal only 20 years ago
- Increasing population growth leading to increased land scarcity
 - Land inheritance declining
 - Rising demand for land → rising land prices
 - Rising challenges of youth and young adults access to land \rightarrow migration
 - Relatively slow growth in numbers of small-scale farms













Consequences of changing farm size distributions

- 1. Rising use of mechanization rental markets utilized by small-scale farms
- 2. The rise of this sector is associated with increased large-scale investment in grain wholesaling
 - Investment response by private traders in value chains due to the growing surpluses dramatically reduce the unit cost of rural assembly
- 3. By attracting private investment around them, these farmers may improve input- and output market access for surrounding smallholder farmers
- 4. To the extent that these farmers spend in the local economy hiring labor, purchasing food and services they will stimulate off-farm employment opportunities for rural people formerly dependent on subsistence farming













...there are some challenges

- 1. The rapidly growing share of land in the medium-scale holdings is leading to concentration of landownership and use
 - Gini coefficients on land cultivation rose from 0.51 to 0.54 in Kenya, and from 0.54 to 0.65 in Ghana; in Zambia, the Gini coefficient on landholdings rose from 0.42 to 0.49
 - These levels of concentration "far exceed those of most Asian countries in the 1980s."
- 2. The rising concentration of land is driving increased land scarcity
 - Constraining the growth of small-scale farms and raising entry barriers into farming to new entrants, like the youth and young adults
- 3. Medium-scale farms get their land from traditional chiefs or by purchasing land from others, including small-scale farm households
 - Land moved from customary to statutory tenure, sometimes leading to the loss of land by smallholder and youth and young adults



















Have MS farms contributed to agricultural transformation in Africa?

- 1. 4.84% real annual agricultural growth in sub-Saharan Africa between 2001-2015
- 2. 70% of agricultural growth has been attributed to area expansion
- 3. Farms 5-100 hectares, while accounting for 5-10% of farms, have accounted for about 30-50% of the growth in total national value of production (small sample caveat! drawing from Tanzania, Kenya, Uganda, Rwanda, Malawi, Zambia, Nigeria, Ghana only)
- 4. MS farms appear to have contributed significantly to SSA's agricultural growth mainly in countries where major potential for area expansion















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