Agriculture

After independence

Jakkie Cilliers

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Whereas agriculture is generally considered the mainstay of Africa’s economy, yields per hectare are the lowest globally and improving more slowly than in other regions. Also, because food is cheaper on the international market than domestically and because palates change with income, Africa is becoming more, rather than less, dependent on food imports, despite the continent having millions of hectares of arable land, with massive untapped agricultural potential.

Although African independence brought many political benefits, few accrued to agriculture. With limited exceptions, rural and agricultural development received little resource and budgetary allocation after independence, with leaders instead seeking rapid industrialisation or vanity projects. Most African governments also retained the bifurcated system of land ownership, with customary property rights in so-called tribal lands and formal property rights reserved for a limited few and in some urban areas. Effectively, the urban elites that shared the ethnic orientation of the governing party replaced colonists in state institutions and land ownership. The notion of formalising land ownership gained wider recognition only towards the end of the 20th century, when population growth had significantly complicated efforts at tenure reform.

Substantive yield-enhancing shifts were seen in agriculture elsewhere in the world, including mechanisation and the introduction of new crop varieties and agricultural chemicals in the green revolution of the 1950s and 1960s. However, in Africa the focus was on political rather than economic emancipation. Without tenure reform and being locked into an inequitable supply chain that effectively penalised efforts towards food self-sufficiency and disincentivised domestic value-add to its agricultural commodities, Africa continued to lag behind other regions with regard to agricultural productivity.

By the early 1960s, the Food and Agriculture Organization (FAO) of the United Nations estimated that average yields in Africa were approximately 1.1 tons per hectare, roughly 1.3 tons per hectare below the average for the rest of the world. By 2020, yields in Africa had increased to about 4 tons per hectare, yet were still 3.6 tons below the average of the rest of the world. Thus, for successive generations, agricultural yields in Africa have remained at about half that in the rest of the world, with little prospect of catching up in the Current Path forecast to 2043 (Chart 2).
Endnotes


5. T Lewis, *Transatlantic slave trade*, 2018


14. World Bank, *Aggregated LPI*

15. World Bank, *Aggregated LPI*

16. Embassy of the DR Congo, *Invest in DRC, Agriculture*


19. In 2003, the New Partnership for Africa's Development (now called the African Union Development Agency) published its Comprehensive Africa Agriculture Development Programme, with ambitious goals, namely to: allocate at least 10% of national budgets to agriculture; reach rural growth rates of 6% annually by 2015; integrate and invigorate regional and national agricultural markets; significantly increase agricultural exports; transform Africa into a ‘strategic player’ in global agricultural science and technology; practise sound environmental and land management techniques; and reduce rural poverty (see: M Fleshman, *Boosting African farm yields*, 2014).

20. The commitment to devote at least 10% of national budgets to agriculture and rural development was also included in the 2003 Maputo Declaration by African heads of state and reiterated in the 2014 Malabo Declaration on Accelerated Agricultural Growth and Transformation in Africa.

21. On aggregate, Africa spends only 5–7% of national budgets on agriculture, although a 2018 study found that 11 African countries did manage to allocate 10% or more of their budgets to agriculture in some years since 2005, with Ethiopia, Kenya, Mozambique and Sierra Leone achieving 6% agricultural...

22. AllAfrica, *Communique: Africa food security leadership dialogue*, August 5, 2019

23. IPPMedia, *Value add in Africa: First steps in a long journey*, 2019; also see: African Cashew Alliance, *About us*

24. The world cocoa industry is worth more than US$100 billion annually; also see: Y Adegoke, *Why Europe dominates the global chocolate market while Africa produces all the cocoa*, 2018; D Philling, The African farmers taking on big chocolate, *Financial Mail*, 16 December 2019; H Fofack, Overcoming the colonial development model of resource extraction for sustainable development in Africa, 2019


31. World Bank, *Agriculture in Africa: Telling facts from myths*


33. World Bank, *Agriculture in Africa: Telling facts from myths*

34. In contrast to the tripling in growth cited earlier, this was an improvement across the entire country, so the growth is understandably much smaller; see: JY Lin, *The Household Responsibility System in China's Agricultural Reform: A Theoretical and Empirical Study*, *Economic Development and Cultural Change*, 36:53, 1988, S199–S224

35. China-Africa Project, Chinese and African agriculture have a lot more in common that most people think: *Interview with Xinqing Lu, Associate Programme Officer for Alliance for a Green Revolution in Africa*, 3 December 2019

36. OEC, Brazil


38. L Abboud, *The robot revolution down on the farm*, 2018


40. R Kimani and P Bosire, *FarmDrive*, 2019

41. In most of rural Africa, precise location of a farm is objectively unknown so the location is determined via a series of SMS questions (e.g. time to walk to different primary schools). The more schools a farmer is familiar with in their area, the easier it is to hone in on their specific location.

42. J Bird, *‘Smart’ insurance helps poor farmers to cut risk*, *Financial Times*, 5 December 2018; also see, for example, https://agrocenta.com/ and https://www.zenvus.com/.

44. S Gebre, AGRA plans to invest $500 million in African seed companies, Bloomberg, 7 September 2016

45. The Alliance for Food Sovereignty in Africa and its allied organisations argue that 'AGRA has unequivocally failed in its mission to increase productivity and incomes and reduce food insecurity, and has in fact harmed broader efforts to support African farmers.' See: Various co-signatories, Open letter: The Green Revolution in Africa has unequivocally failed, 15 September 2021


47. Ammonia manufacturing contributes 1% of worldwide carbon dioxide emissions. See LK Boerner, Industrial ammonia production emits more CO2 than any other chemical-making reaction. Chemists want to change that, *Chemical & Engineering News*, 15 June 2019


49. Indorama Petrochemicals, About IEPL, Port Harcourt


54. Food and Agriculture Organization, Food wastage: Key facts and figures

55. InspiraFarms, Our team

56. The improvements in yields are similar in magnitude to the improvements seen in South Asia between 1980 and 2020, and in a similar timeframe. Indeed, South America achieved a much more rapid increase between 2000 and 2010, moving from roughly 7.8 tons per hectare to about 11.8 tons.

57. Chart 14 presents the reduction in extreme poverty in African countries across the low- and middle-income categories. The reduction in extreme poverty in Seychelles, Africa's only high-income country, is negligible.

58. The contribution of agriculture as a proportion of the Seychelles' economy, the continent's only high-income island state, was about 4% in 2019.

59. Some of these constraints can be overcome through technology, such as the use of precision irrigation and application of precise amounts of fertiliser exactly where they are required. Then there is also the potential of vertical farming, which could produce 180 m tons of food globally, according to some analysts.


61. Food and Agriculture Organization, Government expenditure on agriculture, 2019


63. Intergovernmental Panel on Climate Change, Working Group II: *Impacts, adaptation and vulnerability*, 2018


65. The International Institute of Tropical Agriculture does particularly impressive work in this regard. See: https://www.iita.org/
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About the authors

Jakkie Cilliers is the founder and former executive director of the Institute for Security Studies (ISS). He currently serves as chair of the ISS Board of Trustees and head of the African Futures and Innovation (AFI) programme at the Pretoria office of the ISS. His 2017 best-seller Fate of the Nation addresses South Africa’s futures from political, economic and social perspectives. His two most recent books, *Africa First! Igniting a Growth Revolution* (March 2020) and *The Future of Africa: Challenges and Opportunities* (April 2021), take a rigorous look at the continent as a whole.

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