

Transforming our understanding of
Africa's food resources



Digital Earth
AFRICA



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Digital Earth Africa is using satellite imagery to improve the management of Africa's food crop production.

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Food security is a fundamental human right and means people have access to enough safe and nutritious food that meet dietary requirements at all times. Yet it is estimated that current production of crops will need to double by 2050 to meet future needs¹. The COVID-19 global pandemic could see food supply chains in Africa reach crisis levels².

Digital Earth Africa is using satellite imagery to improve the management of Africa's food production through the ability to monitor crops. A continental-wide food crop product is being co-developed with African stakeholders that will allow anyone to better understand how crops respond to different farming practices.

Within the DE Africa platform, you will be able to identify trends and changes over time to improve food production strategies. This will help African farmers use their land and resources more sustainably, and support ministries and state departments of Agriculture, international organizations, academia and industry to make more informed decisions for improving food security.

Front image: Aerial view of crop circles North of Strandfontein, South Africa.

Above image: Crop circles in Southern Egypt using Sentinel-2 satellite data.

1. GIS Geography. (2018). Agriculture Technology: How GIS Can Help You Win the Farm. <https://gisgeography.com/farming-agriculture-technology/>

2. World Economic Forum. (2020). COVID-19 is exacerbating food shortages in Africa. <https://www.weforum.org/agenda/2020/04/africa-coronavirus-covid19-imports-exports-food-supply-chains>