

IAF EARTH OBSERVATION SYMPOSIUM (B1)
Interactive Presentations - IAF EARTH OBSERVATION SYMPOSIUM (IP)

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LINKING DEMAND & SUPPLY THROUGH EARTH OBSERVATION DATA

Abstract

In Africa, hunger is increasing at an alarming rate. The COVID-19 pandemic, conflict, drought, economic woes, and extreme weather conditions are reversing years of progress. Twenty percent of the population living in Africa is experiencing hunger, but Africa is well known for its productiveness in the agriculture sector. Some of the major causes include uneven distribution chains within the region which affect and create a huge gap for the vulnerable communities. The COVID-19 pandemic has also affected most communities in a case where different communities are not allowed to access food markets or travel from place to place to the supplies they need. In cases where communities are less vulnerable, production outputs are in limited supply.

Through *Earth Observation* data, innovative technologies can be built and enhanced to create a link between the food supply and the vulnerable communities in the form of decision support mechanisms. These mechanisms can be used and operated by authorized personnel at the decision-making levels in different states and regions for better outcomes. In addition, earth observation data and technology can assist these smallholder farmers living in vulnerable communities to enhance their production for sustainability.