

# Monitoring Food Security Threats from Space

## A Seminar on Technologies for Quantitative Crop Estimates and Condition Reporting in Agriculture

**Thursday 21 April 2016**

**Centurion Country Club, John Vorster Avenue, Centurion**

As population growth, climate change, land degradation and economic uncertainties ravage food production and price, so the need for efficient, accurate and reliable near real time monitoring and estimation of agricultural production becomes essential. Recent rapid developments in Earth Observations and Aerospace science, Information and Communication Technologies, Image processing and Instrumentation has made crop monitoring a “high tech” activity.

Observations of the earth by means of satellites provides repetitive, reliable and consistent information about our planet on a global scale. When combined with “in situ” observations, it’s an extremely powerful tool for monitoring our environment. Numerous advancements in this field have improved the accuracy of agricultural crop assessments and predictions.

**The Crop Estimates Liaison Committee proudly presents this one-day seminar. Some of the latest technologies will be showcased and it will be demonstrated how they are integrated to produce quantitative crop estimation systems that are accurate, cost effective timely and reliable.**

Essential earth observation services support South Africa’s environmental and resource management, and monitors agriculture from space. Earth observation satellites, and in particular the use of time series analysis, allow for detailed identification of agricultural activities. It is a powerful tool for disaster management, provides accurate and timely information about climatic events and can help assess the impact thereof. Remote sensing and GIS technologies are also essential for managing and finding mitigation measures for soil erosion as well as surveying water resources and quality monitoring.

**We cordially invite you to an informative and insightful event. Learn more about the latest technologies used by the South African Crop Estimates Committee consortium. Find out what the future holds for quantitative agricultural crop estimation and food security in South Africa.**

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Please RSVP to obtain further information regarding this event.

