

Descartes Lab, Inc.



**Descartes
Labs**

Santa Fe, NM

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SINCE ITS FOUNDING IN

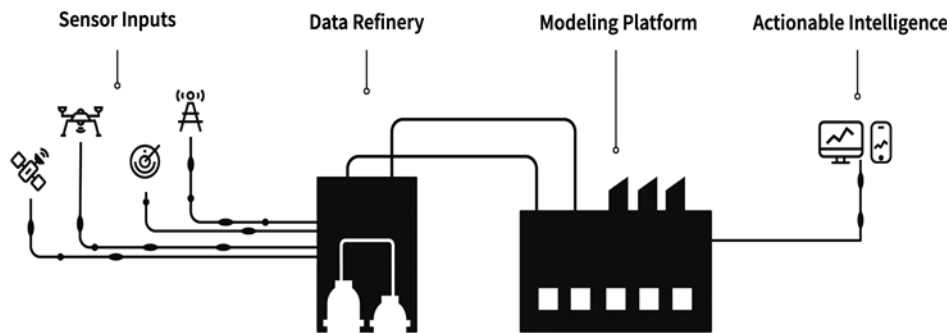
2014

1 SBIR Awards

100+ Employees

SB Socioeconomic Category

0 Patent from SBIR/STTR



Solicitation:

Software/Analytics Exploiting Commercial Satellite Imagery

DARPA SBIR Sponsor

SB162-009 Topic Number

Improved performance Primary Innovation

Adaptability Secondary Innovation

Satellite Imagery Analysis for Automated Global Food Security Forecasting

An important DoD need is to improve large scale situational awareness. This need can be met by leveraging the growing availability of public and commercial satellite imagery and sensor data.

Building on a satellite imagery platform developed over seven years of IRAD research licensed from Los Alamos National Labs, Descartes Labs' machine learning algorithms successfully forecasted US crop growth five months ahead of USDA reports. Their cloud-based automated satellite imagery analysis and forecasting tool is being refined to provide indications and warnings for crop health and acreage planted for wheat and barley in the Middle East/North Africa (MENA) region by country to assess food disruption that could be associated with political instability.

IMPACT

This analysis product provides information to monitor, assess, and anticipate problems in a region where food security, population growth, and environmental stress intersect with and drive political instability, human migration, and conflict. It also supports business intelligence for farm operators and suppliers, commodities traders, and crop insurance companies.

BEYOND PHASE II

Descartes Labs has received \$2.9 million from DARPA to build out cloud infrastructure that can be used to import, store, and process geospatial data as part of the DARPA Geospatial Cloud Analytics program. An additional \$4.2 million will support organizations building data models and automated processing tools on top of its cloud for specific sample projects. Descartes is in discussions with NASA and USAID for additional applications and are selling more products to the commercial sector. Descartes recently completed a \$30M series B venture funding round.