



Extreme events are inevitable. Food crises are not. We provide rigorous, near-real-time and actionable agricultural insights that help governments, humanitarian agencies, markets, and the private sector respond faster and more effectively when disasters and shocks strike the global food system. We respond to natural disasters, conflict and war, supply chain disruption, and market information failures.

The Challenges



Drivers of **food insecurity** are intensifying: conflict, climate, economic inequality, and market uncertainty.



The **hunger crisis is growing**: 2.3B people were food insecure in 2025 - 638M more than in 2015 (United Nations).



No global capacity exists for rapid agricultural information. Timely information and a shared framework is needed globally.

The Solutions



Prepare: Generate forecasts models, anticipatory analysis, and lead scenario planning for chronic and emerging risks.



Respond: Quick-turnaround assessments, delivered in days, not months. Produce actionable insights and projections.



Empower: Open datasets and global networks that build resilience, leverage expertise, and connect analysis with action.



Our Impact

Under NASA Harvest, RAAPID has already delivered critical assessments across the globe spanning conflict (Ukraine, Sudan, Democratic Republic of Congo, Ethiopia-Tigray), climate shocks (Pakistan, Malawi), and market uncertainty (Russia, China). These assessments have helped close critical information gaps, inform policy decisions, and support targeted interventions where timely, reliable data was not otherwise available.

Conflict Response: Ukraine

Satellite data on the war's impact on food production bridged information gaps, guiding government aid to farmers and shaping national and international agricultural policies. RAAPID's assessments have quantified close to 30M tonnes of oils and grains that have been harvested on Russian-held territories, yet not reported in official statistics.

Climate Response: El Niño Impacts in Africa

RAAPID is responding to a severe drought in Kenya, partnering with the Ministry of Agriculture to provide real-time remote-sensing intelligence on crop yields, supporting food import and farmer subsidy decisions. RAAPID is also leveraging advances in AI models to provide earlier forecasts of ENSO impacts in Southern Africa - from Malawi to Zimbabwe -- and will be providing real-time monitoring of the upcoming season in partnership with local government and INGOs.

Founding Partners



Contributing Partners

GEOGLAM; AMIS; FAO; IGC; Arrell Food Institute; VITO WFP; East African Grains Council; Arizona State University; Virginia Tech University; University of Missouri.... and many more!

RAAPID, initially developed under NASA Harvest, is now incubated by RF Catalytic Capital. Visit rfcatalytic.org/project/raapid to learn how you can support efforts to put information in the hands of decision-makers and food on people's plates.