RAAPID

Rapid Agricultural Assessments for Policy Impact and Decision-making

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.

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 Solution

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.

RAAPID is the first initiative to integrate satellite data, socioeconomic indicators, and market insights into rapid agricultural assessments. **We respond to natural disasters, conflict & war, and market information failures**.

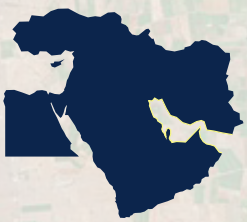
Global Impact

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. Future efforts will be supported by RF Catalytic Capital to expand and scale its global impact.

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.

Supply Chain Response: Strait of Hormuz



RAAPID is monitoring high-risk regions and major exporting countries to track how disruptions to fertilizer and energy markets impact agricultural production and food supply. Using satellite data, market intelligence, and climate indicators, assessments will include planted area, crop conditions, and yield estimates while maintaining a dynamic country risk watchlist. These efforts provide insights on emerging production risks and its implications for global food systems.

Founding Partners

- NASA Harvest
- University of Maryland
- University of Strasbourg
- Microsoft AI for Good
- Google.org
- FEWS NET
- Planet

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!

RF Catalytic Capital

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.