



End-to-end space systems for Earth intelligence.

Developed by SARsatX · Space Systems · Earth Observation



THE PROBLEM

Decision-makers need reliable Earth intelligence that optical satellites alone cannot deliver

Governments and enterprises across energy, maritime, agriculture, defense and infrastructure depend on timely, trustworthy views of what is happening on the ground and at sea. Optical satellite imagery fails at night and is blocked by cloud, smoke and adverse weather, leaving critical gaps. The region has also depended on foreign-owned space assets, with no sovereign capability to build, task and operate its own Earth-observation satellites.

THE SOLUTION

A full-stack Earth-observation company, from satellite to insight

SARsatX designs, develops and operates small satellites carrying Synthetic Aperture Radar and optical payloads, then turns their data into decisions. Radar imaging works 24/7, day or night and through cloud and smoke, delivering reliable data where optical imaging falls short. An end-to-end ecosystem connects sensing, tasking, processing and analytics — with the EarthLife platform providing on-demand tasking and near real-time insights, and guaranteed data delivery within four hours of request.

TECHNOLOGY · KEY SPECIFICATIONS

Capability	End-to-end: satellite design, development and operation, through to analytics
Sensing	Synthetic Aperture Radar and high-resolution optical payloads, fused with AI/ML
All-weather imaging	Radar operates 24/7, penetrating cloud, smoke and darkness; space-proven TRL9
Data delivery	Reliable, recent data guaranteed within four hours of request
Constellation	ArabiaEye — planned 16 small EO satellites, owned and operated from within KSA
Origins & backing	KAUST / TAQADAM spin-off; backed by TONOMUS (NEOM), Wa'ed Ventures (Aramco), KAUST Innovation Ventures, Access Bridge Ventures, Seraphim Space

IMPACT

01

A sovereign space industrial ecosystem

Designing and operating Earth-observation satellites from within Saudi Arabia to build homegrown space capability

02

All-weather, around-the-clock awareness

Delivering reliable radar-based monitoring independent of daylight, cloud and weather, where optical imaging cannot

03

Multi-sector decision support

Serving energy, maritime, agriculture, environment, defense, infrastructure and disaster response from a

04

From space to fast decisions

Turning satellite signals into actionable intelligence and delivering recent data within four hours to support