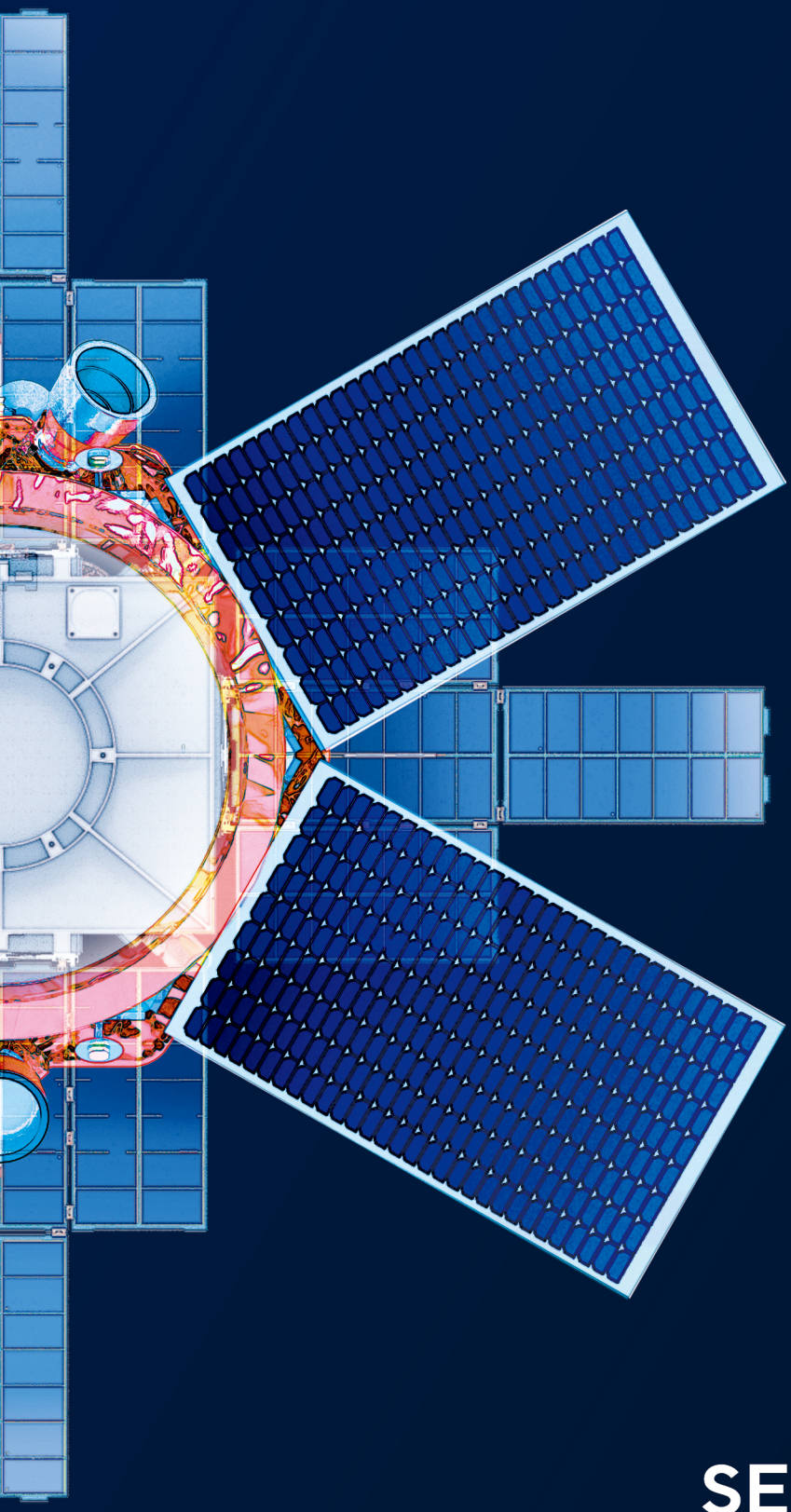
SATREC INITIATIVE



SENSING TO
INTELLIGENCE

Satrec Initiative provides global GEOINT solutions from Earth observation satellites, ground systems, imagery services, and AI-based geospatial analytics.

Best-buy Earth Observation Solution Provider



Satellite Systems



Ground Systems



Imaging Services



Geospatial Analytics

SENSING TO —— INTELLIGENCE

SPACE HERITAGE

30+ Years of Passion for Space

- Overseas - Satellite System
- Overseas - EO Payload
- Domestic - Key Program

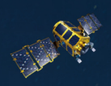
1992 – 2009


1992
KITSAT-1


1993
KITSAT-2


1999
KITSAT-3


1999
KOMPSAT-1


2006
KOMPSAT-2


2009
RazakSAT


2009
DubaiSat-1

2010 – 2019

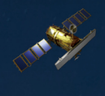

2010
COMS-1


2011
RASAT


2011
X-SAT


2012
KOMPSAT-3


2012
EO Satellite

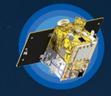

2013
KOMPSAT-5


2013
DubaiSat-2


2014
Deimos-2


2015
KOMPSAT-3A


2015
TeLEOS-1


2014
Velox-C1


2018
EO Satellite


2018
GEO-KOMPSAT 2A

2020 – 2025


2020
GEO-KOMPSAT 2A


2021
CAS500-1


2022
EO Satellite


2022
NeuSAR


2023
425
EO/IR


2024
425
SAR


2024
SpaceEye-M


2025
EO Satellite


2025
Etihad-SAT


2025
SpaceEye-T


2025
KOMPSAT-7

2026 – 2030 In Development


2026
CAS500-2


2026
CAS500-4


2026
SpaceEye-M


2027
SpaceEye-M


2027
KOMPSAT-6


2027
Experimental Comm. Satellite


2027
Early Warning Satellite


2027
EO Satellite A


2028
EO Satellite B

2028
SpaceEye-T 2

2029
EO Satellite

2030
Microsat Const.

Customers & Partners

Agency for Defense Development
KARI Korea Aerospace Research Institute
KIOST Korea Institute of Ocean Science & Technology
ETRI Electronics and Telecommunications Research Institute
SATREC 인공위성연구소 Satellite Technology Research Center
Korea Meteorological Administration
Korea Hydrographic and Oceanographic Agency
National Institute of Environmental Research
National Geographic Information Institute
National Institute of Agricultural Sciences
National Institute of Forest Science
National Institute of Meteorological Sciences

KOREAN AIR
LIG Nex1
Hanwha Systems
KAI Korea Aerospace Industries, Ltd.
مركز محمد بن راشد للفضاء Mohammed Bin Rashid Space Centre
ST Electronics Satellite Systems
DSO National Laboratories
elecnor deimos
AIRBUS
ThalesAlenia Space
Turkish Aerospace
TÜBİTAK UZAY
Kementerian Sains, Teknologi dan Inovasi
Nanyang Technological University Singapore
GISTDA

SATELLITE SYSTEM
PORTFOLIO

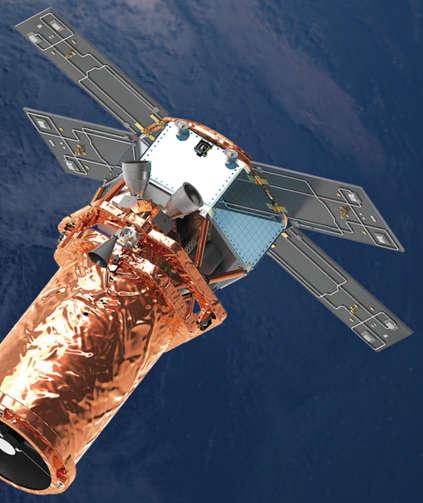
VVHR Electro-optical Satellite

SpaceEye-T

SpaceEye-T is the world's first commercial satellite for native 0.25 m resolution imagery.

SpaceEye-T is designed to collect VVHR image data with a wide swath for applications that require timely responses.

Additional satellites will be manufactured for constellation operation.



Key Specifications

GSD	PAN 0.25 m / MS 1 m
Bands	PAN + 4 MS
Mass	≤ 700 kg
Storage Capability	5 Tbits
Bits per Pixel	12 bit
D/L Speed	2.0 Gbps

Coverage

Native Resolution
25 cm

Swath Width
12 km

Imaging Capability

Imaging Time
210 sec/orbit

Daily Collection
300,000+ km²

VHR Small Electro-optical Satellite

SpaceEye-M

SpaceEye-M is a small satellite to produce high-resolution image data.

A constellation of SpaceEye-M can perform precise monitoring over a large area with high revisit.



GSD	PAN 1 m / MS 3.2 m
Bands	PAN + 4 MS
Swath	9.6 km
D/L Speed	600 Mbps



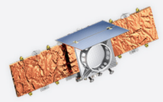
VHR Small SAR Satellite

SpaceEye-R

SpaceEye-R is a small high-resolution SAR satellite that allows monitoring and observation in harsh weather conditions and night time.



GSD	0.25 m (Spot)
Bands	X-band
Swath	> 100 km (Scan)



SATELLITE SYSTEMS

As a leading company with global competitiveness in developing Earth observation satellites, Satrec Initiative provides high-performance satellite systems optimized for various missions.



Satellite Platform

to satisfy mission requirements with high agility and stability, high-reliability data communication, and stable power generation

EO Payload

to generate high-quality image data with large-aperture telescope and low-noise electronics

Ground Systems

to maximize satellite operation efficiency and generate high-quality imagery

SATELLITE SYSTEM **DEVELOPMENT**

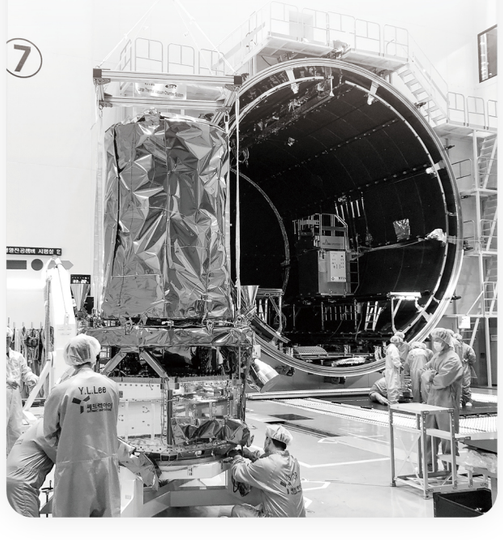
STEP 01 **Design & Analysis**



STEP 02 **Manufacturing & Assembly**



STEP 03 **Space Environment Test**



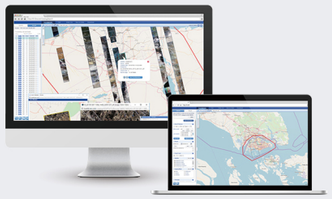
STEP 04 **Launch & Early Operations**





GROUND SYSTEMS

Commercial Ground Systems



Mission Control System

- Satellite Control
- Flight Dynamics
- Mission Planning
- Data Management & Archiving
- Satellite Simulator

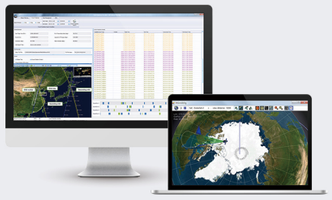


Image Receiving & Processing System

- High-speed Image Data Acquisition
- Radiometric / Geometric Correction
- Image Collection Planning
- Catalog Search & Browsing
- Post-launch CAL/VAL

Defense Ground Systems



Mobile Ground Receiving & Processing System

- Mobile ground system for EO/IR satellites
- Mobile ground receiving system for SAR satellites
- Movable antenna, trailer, shelter, and support equipment
- Image receiving, processing, and analysis



SMUDI Secure Satellite Imaging Platform

- High-speed satellite/aerial image display
- 2D/3D terrain and image display
- 2D/3D simulation
- Image analysis
- 2D/3D engine and server equipment

SPACE COMPONENTS

Satrec Initiative develops and provides different types of in-house space components such as high-accuracy attitude control sensors, compact electrical components, and high-efficiency electric propulsion components.

Through our in-house design and manufacturing capabilities for space components, we provide cost-effective solutions optimized for system performances.

Storage



Solid State Recorder



Image Compression Unit

Propulsion



Xenon Feeding Unit



Power Processing Unit



Thruster Head Unit



Sensors



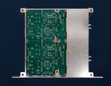
Star Tracker



Magnetometer



Sun Sensor



GNSS Receiver

Electro-optical Payload



Payload



Auxiliary Camera Unit

Communication



S-band Transceiver



Steerable X-band Antenna



X-band Transmitter Unit

Power Subsystem



Battery Charge Regulator



Primary Power Management Unit

Onboard Computer





Command & Data Handling Unit

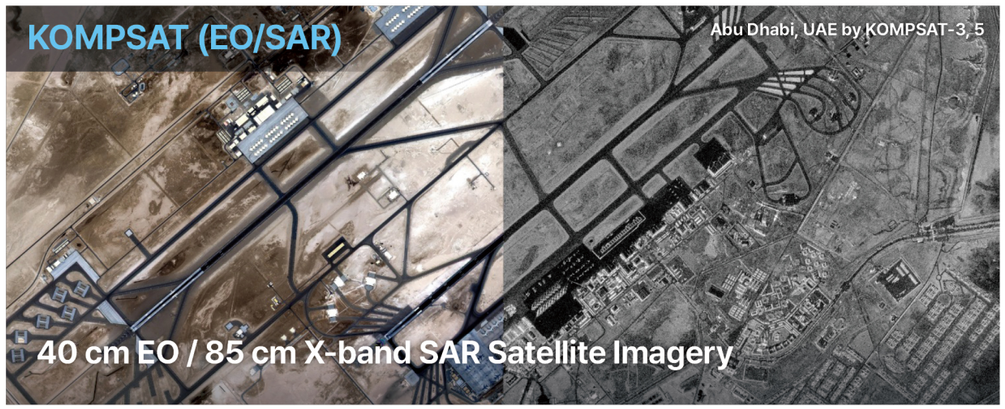
SIIS (SI Imaging Services)

SI Imaging Services (SIIS) specializes in the commercial supply of Earth observation satellite imagery. Through SpaceEye-T, delivering 25 cm VVHR (Very Very High Resolution) optical imagery, SIIS continues to contribute to the advancement of the remote sensing and Earth observation industries worldwide.

SpaceEye-T provides imagery capable of identifying vehicle types and even monitoring crowd distribution from space with its 25 cm resolution, which is the highest among currently operating commercial satellites.

SIIS also provides VHR (Very High Resolution) optical and SAR imagery of KOMPSAT series to customers around the world.





SpaceEye-T Open Data powered by aws

Explore ultra-high resolution (25 cm) satellite imagery on AWS Open Data!
Scan the QR code to get started

SIA (SI Analytics)

SI Analytics (SIA) is an AI-powered satellite imagery analytics company.

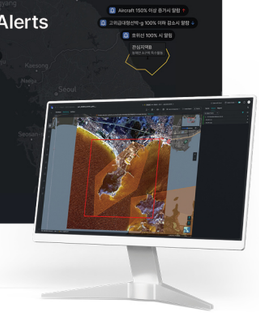
By combining artificial intelligence and military specialism, SIA developed OVISION, a platform that automatically analyzes large-scale satellite data.

The platform is deployed by government agencies and public institutions, with a focus on national security and intelligence applications.

OVISION Intelligence

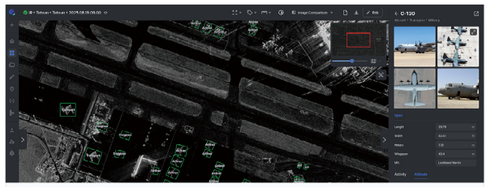
ACD·ATR Technology — Supporting Decision-Making Across the Entire ISR Cycle, from Imagery Collection and Detection to Analysis, Assessment, and Action

- Area of Interest(AOI) Automated Surveillance &Change Detection with Real-Time Alerts
- Change Magnitude-Based Situational Analysis & Threat Indicator Identification
- AI-Driven ISR Scenario Recommendations and Prioritization
- Optimized Multi-ISR Asset Tasking and Intelligence Collection Efficiency
- Continuous AI Model Training & Performance Enhancement with AI Acquired Data



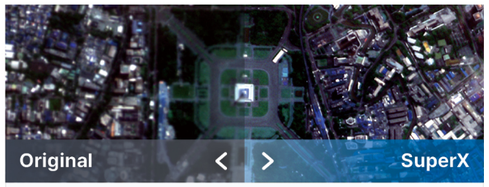
Linked Solutions

AI PACK
Geospatial Foundation Model for Satellite Imagery



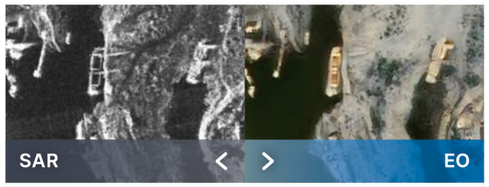
- Rapid adaptation to new areas and mission types
- Customized intelligence delivery with fine-tuning support

SuperX
AI-powered Satellite Imagery Super-Resolution Solution



- Up to 2× resolution enhancement
- Maximizes existing ISR asset value and analysis efficiency

SAR2EO
Synthetic EO Generation Solution

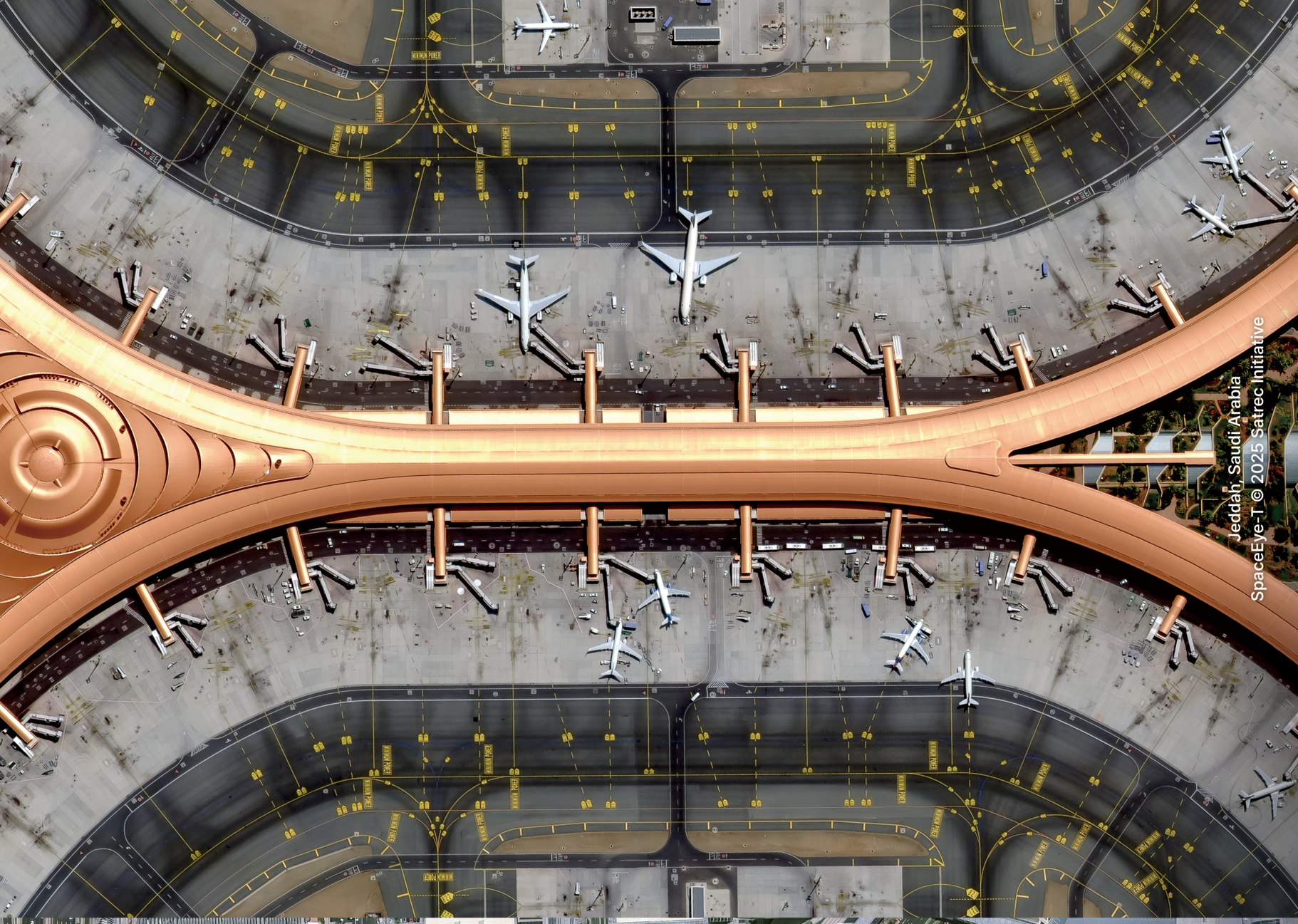


- Automatic SAR-to-EO conversion
- Compatible with existing EO analysis pipelines

nK Insight
North Korea Intelligence Analysis Service



- AOI change detection and threat indicator analysis
- Continuous monitoring using EO and SAR imagery


Jeddah, Saudi Arabia
SpaceEye-T © 2025 Satrec Initiative


Dubai, United Arab Emirates
SpaceEye-T © 2025 Satrec Initiative

SATREC INITIATIVE

Munji R&D Complex (HQ)

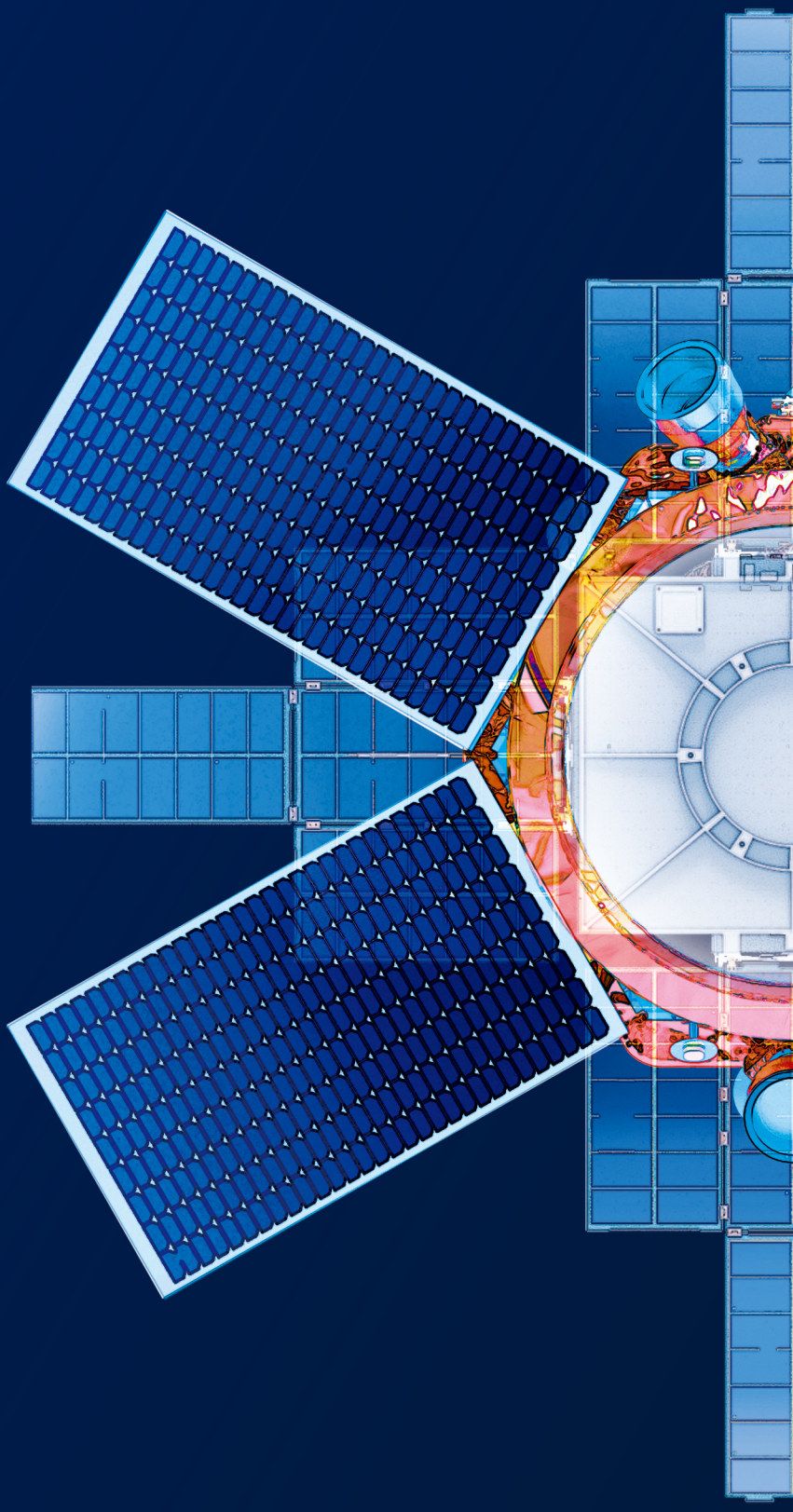
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SI IMAGING SERVICES

www.si-imaging.com

SI ANALYTICS

www.si-analytics.ai

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