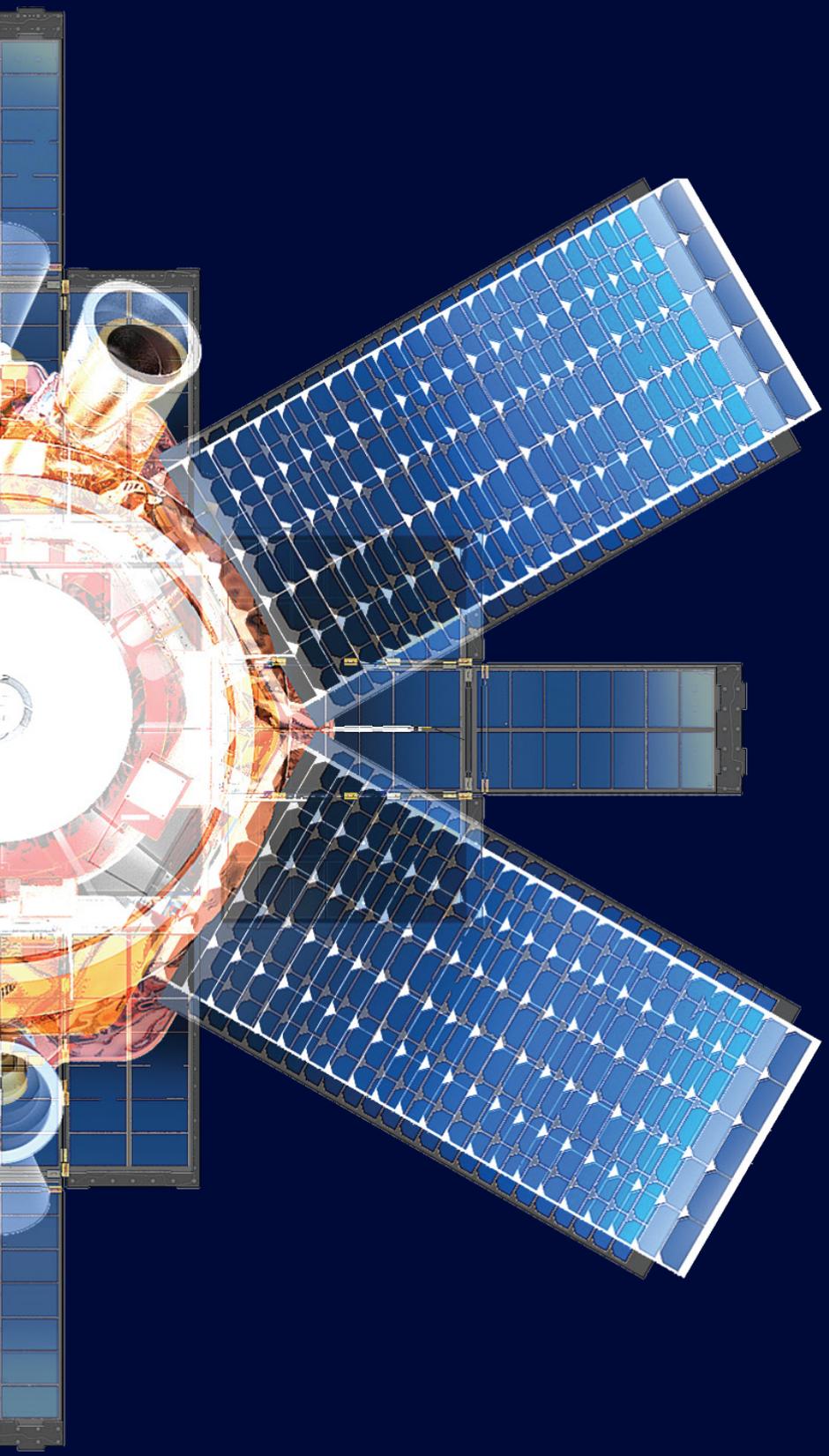


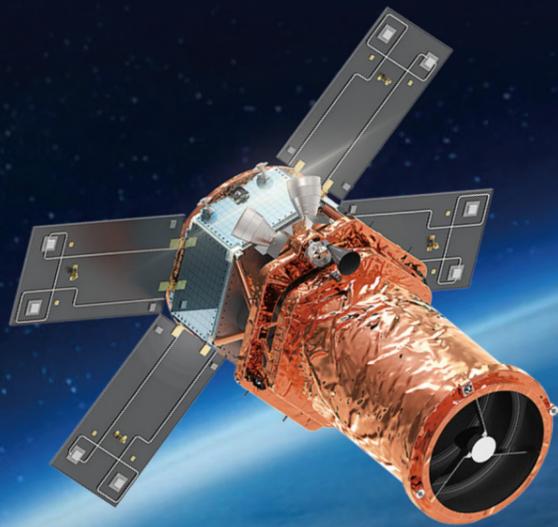
SATRECC INITIATIVE



Sensing to Intelligence

World-Leading Solution Provider for Earth Observation Missions

Satrec Initiative was founded in 1999 by the engineers who developed the first Korean satellite and a series of advanced small satellites. We have been focusing on developing high-performance small/medium satellite systems for Earth observation missions. Today, we provide from remote sensing satellites, ground systems, imaging services to AI-based geospatial analytics integrating the Earth observation value-chain.



Satellite Systems



Electro-Optical Payloads



Ground Systems

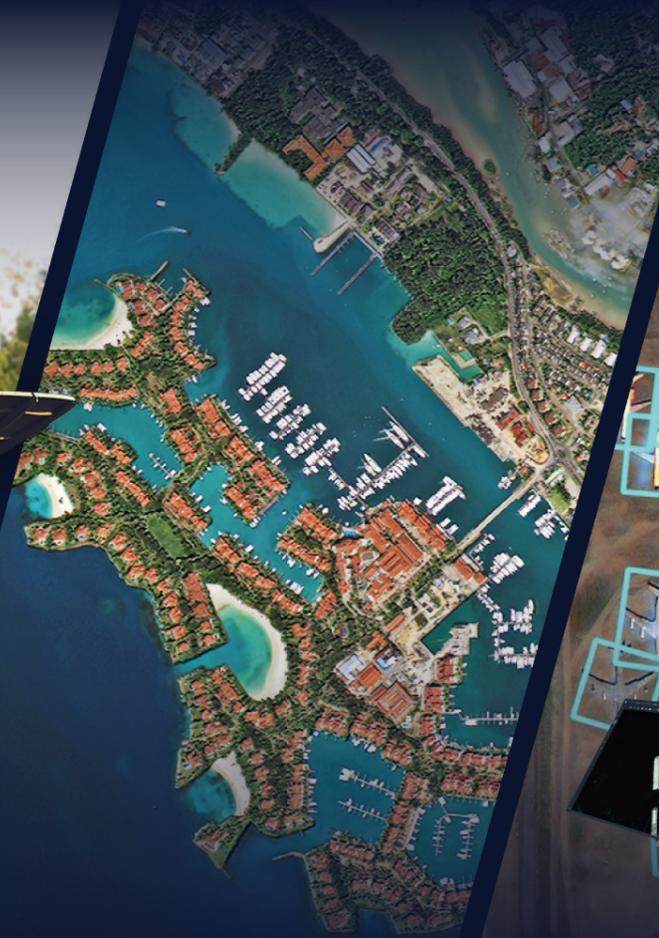
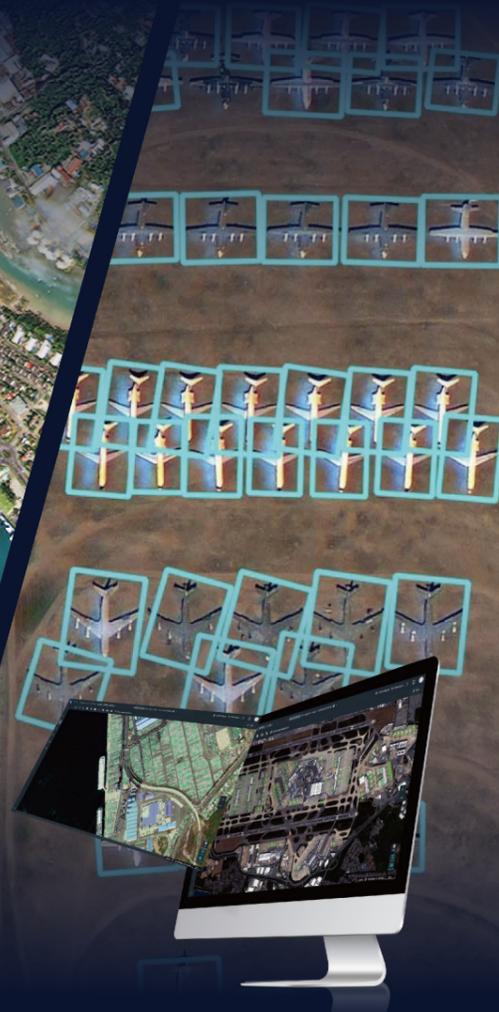


Image Credits: KARI, SIIS

Imaging Services



Geospatial Analytics



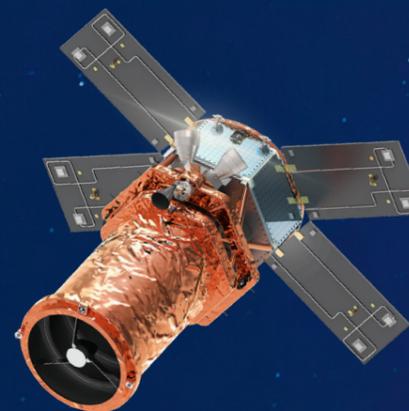
EO SOLUTION PROVIDER THROUGH VALUE-CHAIN INTEGRATION

<p>30+ SPACE PROJECTS</p>	<p>8  SATELLITE SYSTEMS</p>	<p>13 SATELLITES UNDER DEVELOPMENT</p>
<p>6  ELECTRO-OPTICAL PAYLOADS</p>	<p>0.3m VERY VERY HIGH-RESOLUTION</p>	<p>20+  YEARS LONG-TERM PARTNERSHIP</p>
<p>IMAGING SERVICES  8  SATELLITES</p>	<p>IMAGERY RESELLERS  160+</p>	<p>GEOINT ANALYSIS AI PACKS 50+</p>
<p>QUALITY MANAGEMENT ISO 9001 AS 9100</p>	<p> EARTH OBSERVATION SATELLITE SYSTEMS</p> <p>  SATELLITE IMAGING SERVICES AI-BASED GEOSPATIAL ANALYTICS</p>	

As of 2023

Satellite System Portfolio

VVHR



SpaceEye-T

@ 600 km

Bands	PAN + 4 MS
GSD	PAN 0.3 m, MS 1.2m
Swath Width	14 km
D/L Speed	1.6 Gbps

VHR

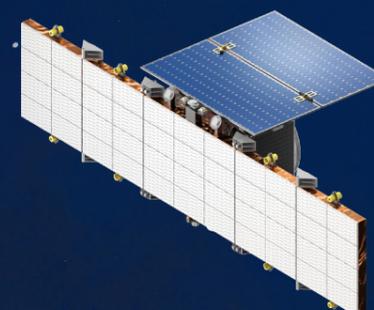


SpaceEye-M

@ 500 km

Bands	PAN + 4 MS
GSD	PAN 0.8 m, MS 3.2 m
Swath Width	9.6 km
D/L Speed	600 Mbps

SAR



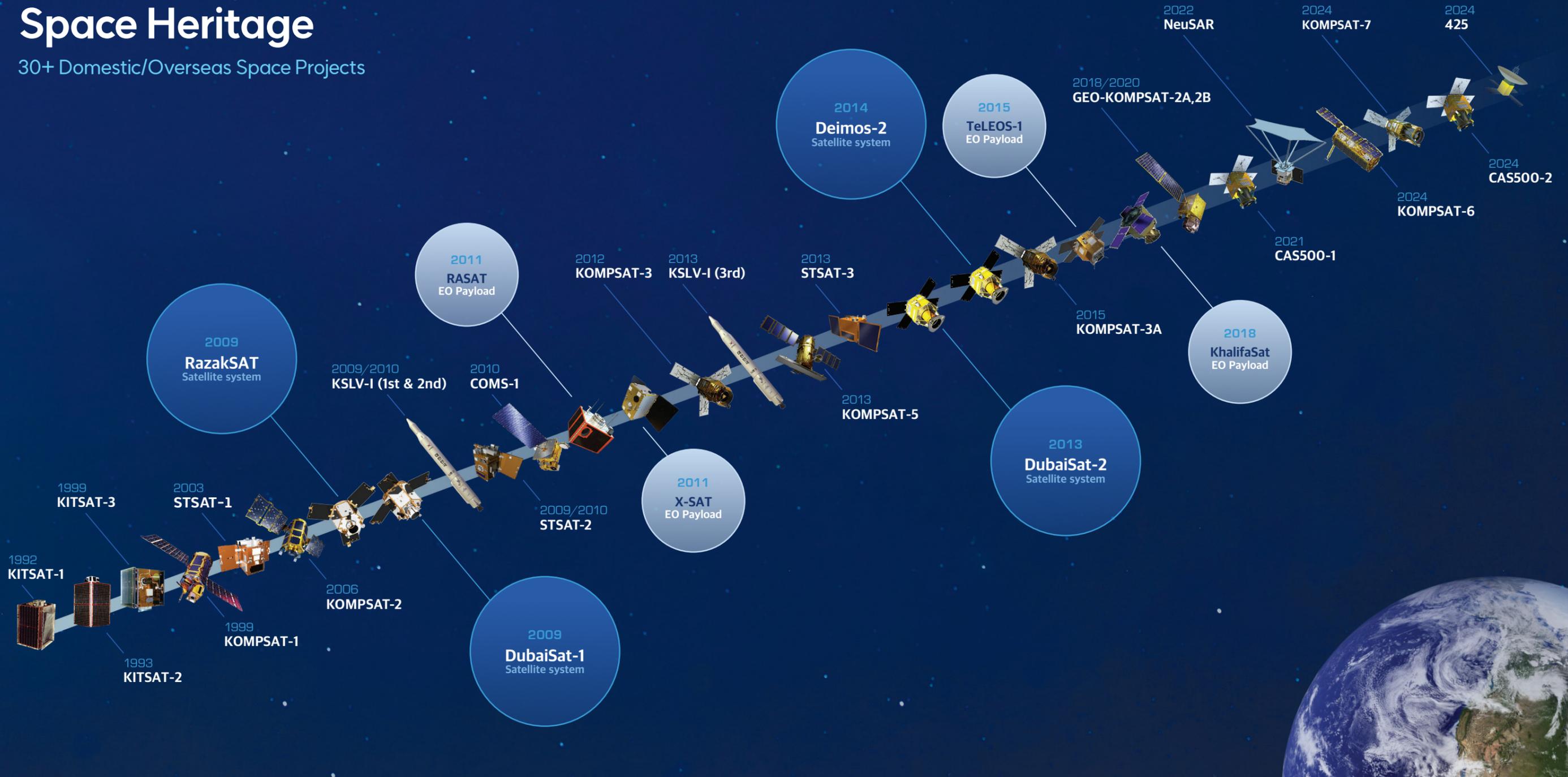
SpaceEye-R

@ 500 km

Band	X-band
GSD	< 1 m (spot)
D/L Speed	600 Mbps

Space Heritage

30+ Domestic/Overseas Space Projects



Customers/Partners



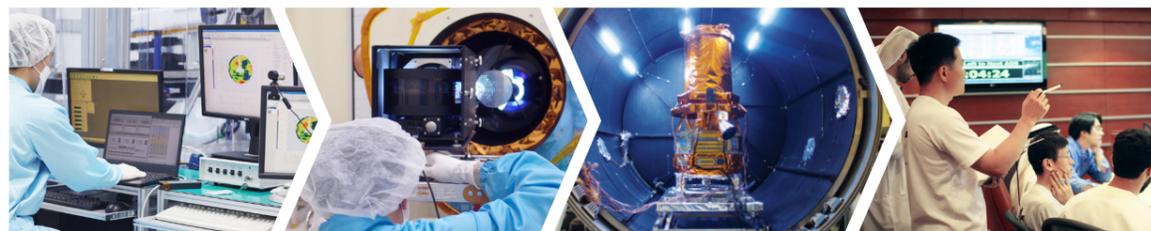
Satellite Systems



High-Performance Small/Medium Satellites

Satellite Platform	EO Payload	Ground System
 <p>High-speed maneuvering, rapid data transmission, and stable power supply to complete mission of satellite</p>	 <p>Provides high-quality images with large diameter optics and low-noise detectors</p>	 <p>Maximizes satellite operational efficiency and image quality through optimized systems</p>

Satellite Systems Development



01 Design & Analysis 02 Manufacturing & Assembly 03 Space Environment Test 04 Launch & Early Operation

Ground Systems



Mission Control System

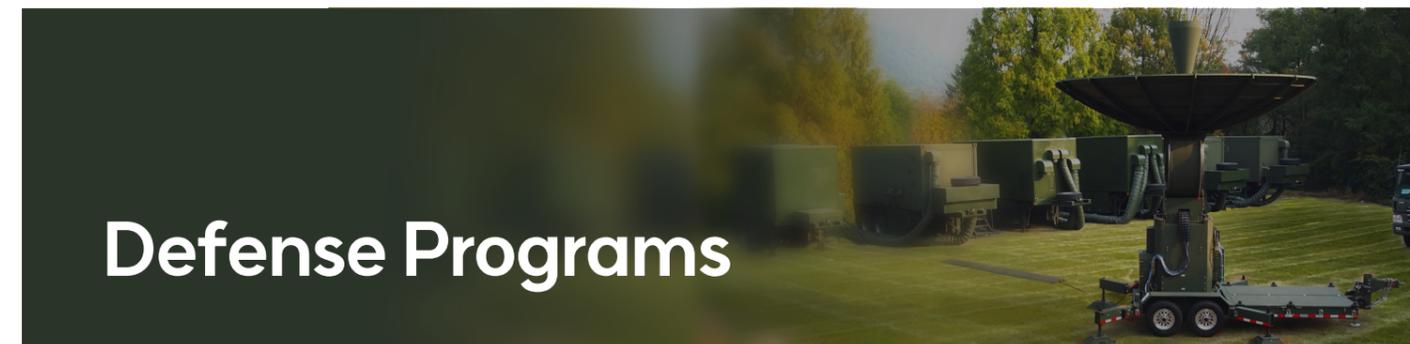
- Satellite Control
- Flight Dynamics
- Mission Planning
- Data Management & Archiving
- Satellite Simulator



Image Receiving and Processing System

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

Defense Programs



Mobile ground station

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



SMUDI Secure Satellite Imaging Platform

- Satellite/Aerial Image Fast 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.



Knowledge Transfer

1 Training Courses for Satellite System

SI provides tailored training courses that cover a wide spectrum of satellite system development from mission analysis to ground station operation and post-launch calibration/validation.

2 On-the-Job Training

Our experienced engineers provide the on-the-job training (OJT) to design, manufacture, test, and operate satellite systems.

3 Launch & Early Operation (LEOP) and In-Orbit Commissioning

We provide support during launch campaign, early operation, and in-orbit test, which is one of the most critical phases in satellite system development.



Jeonmin R&D Complex(HQ):

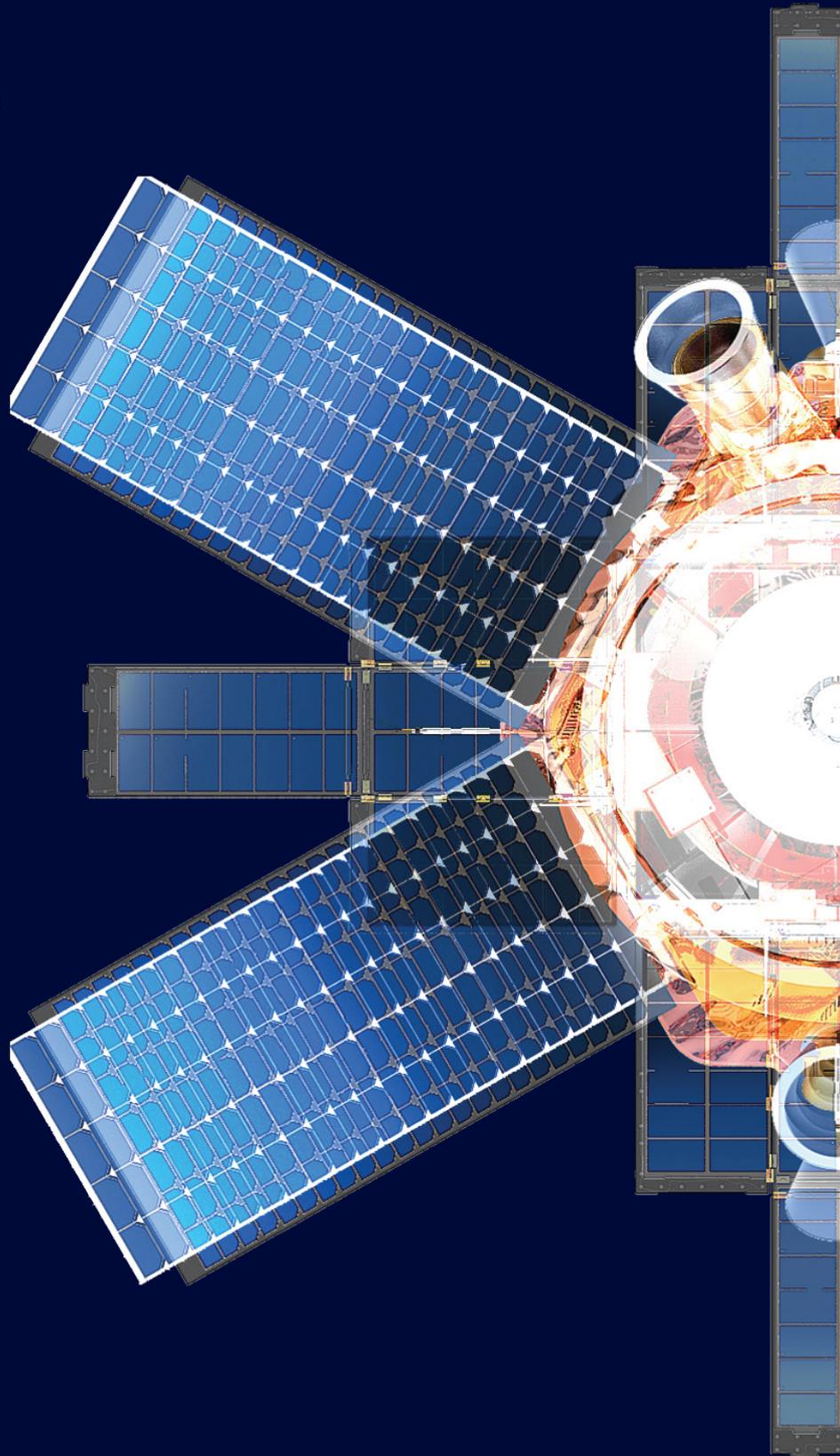
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