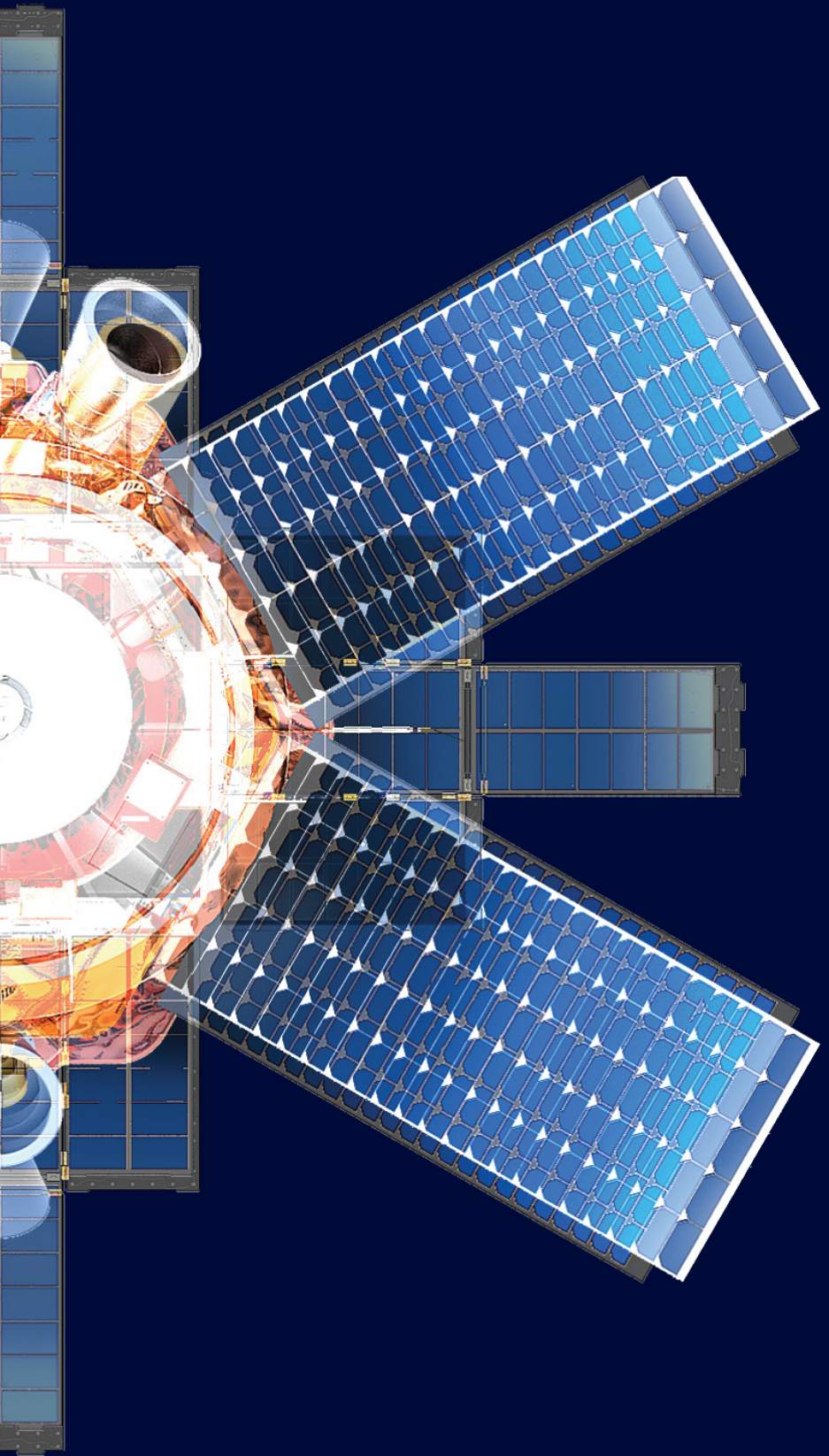


# SATRECC INITIATIVE

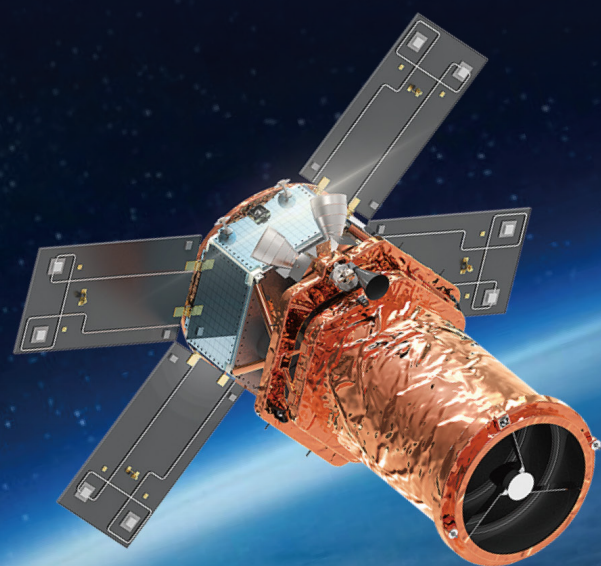




# Sensing to Intelligence

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





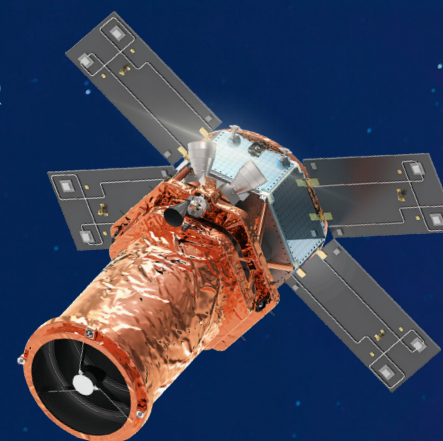
EO SOLUTION PROVIDER THROUGH VALUE-CHAIN INTEGRATION

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

As of 2023

# Satellite System Portfolio

VVHR

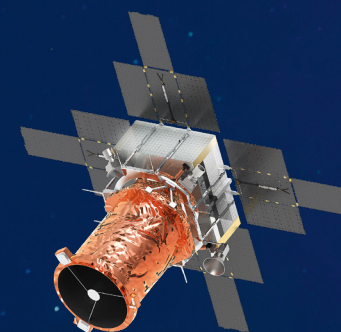


**SpaceEye-T**

@ 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

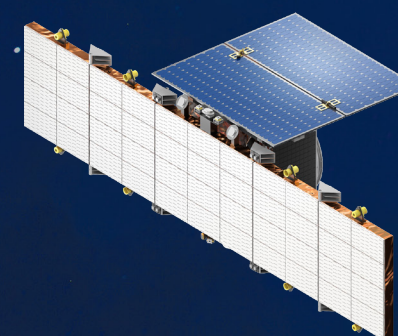


**SpaceEye-M**

@ 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**

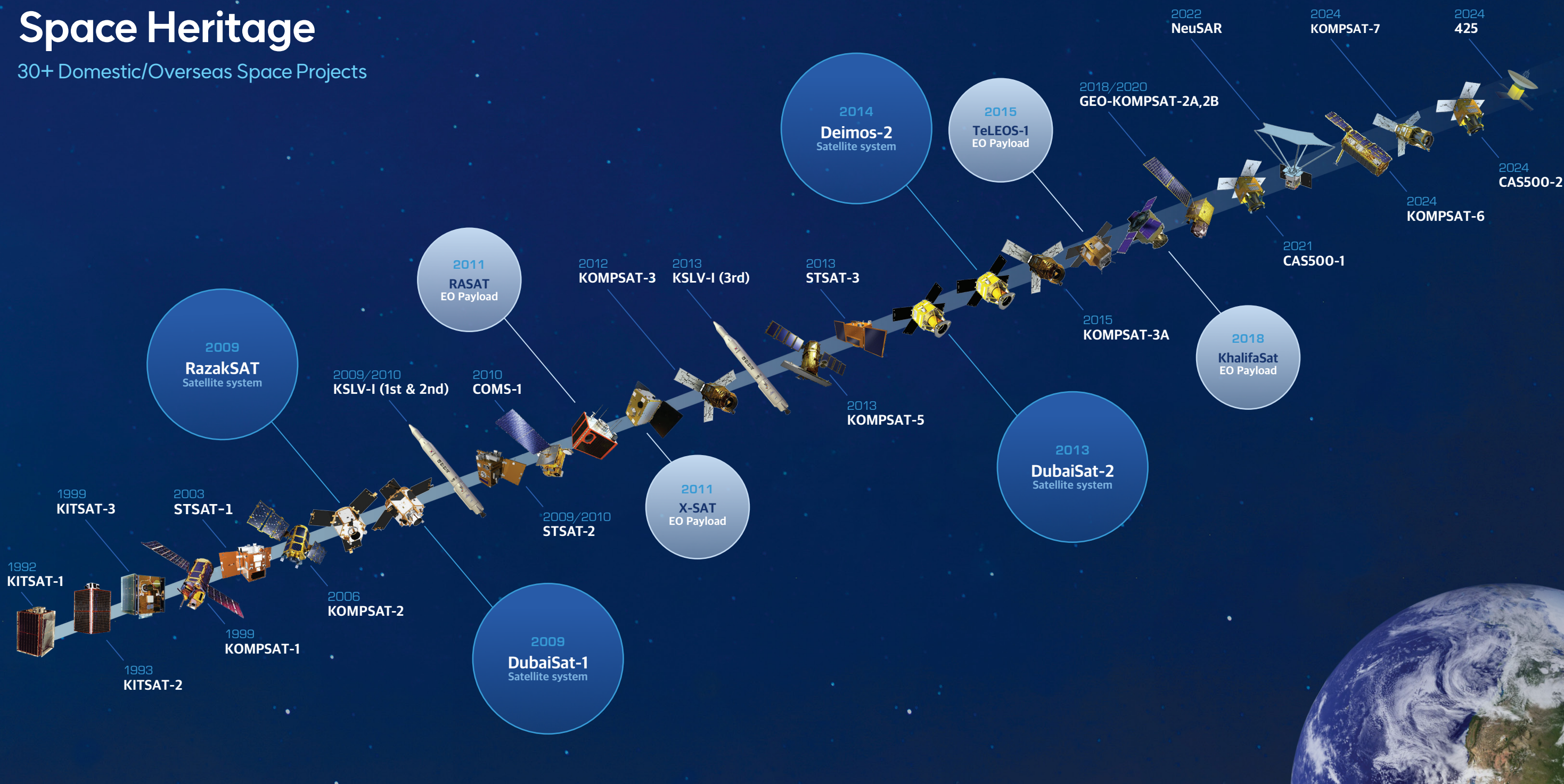
@ 500 km

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



# Space Heritage

30+ Domestic/Overseas Space Projects



## Customers/Partners

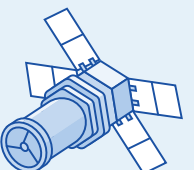






# Satellite Systems



## 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



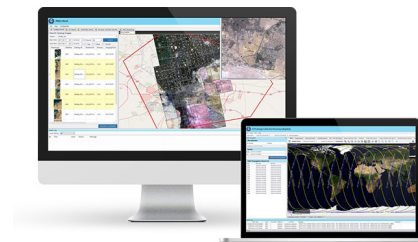
01 Design & Analysis   02 Manufacturing & Assembly   03 Space Environment Test   04 Launch & Early Operation

# 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.





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