

# SMART EYES IN THE SPACE

## KOMPSAT

# SI Imaging Services

Exclusive representative of KOMPSAT image.  
Also distributor of TeLEOS-1 and Deimos-2 image.

SI Group

SI Group creates synergy and provides customized services with the collaboration.




**VHR Satellite images**

With the resolution up to 40cm, KOMPSAT constellation spots small features clearly and detects changes over sites.

**Operations**


We run KOMPSAT operation by our own including imaging plan, image processing, calibration, validation and so on.



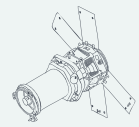


**Direct Receiving System**

It is a flexible and modular system for acquisition, archiving, processing, analysis and distribution of KOMPSAT image.




**SI (Satrec Initiative)**

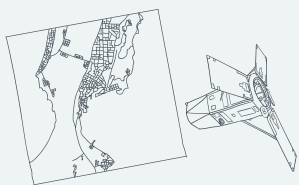


**Satellite manufacturer**

Satellite platform  
Payload  
Ground station



**SIIS (SI Imaging Services)**



**Satellite imagery provider**

KOMPSAT representative  
VHR optical and SAR  
KOMPSAT operation



**SIA (SI Analytics)**



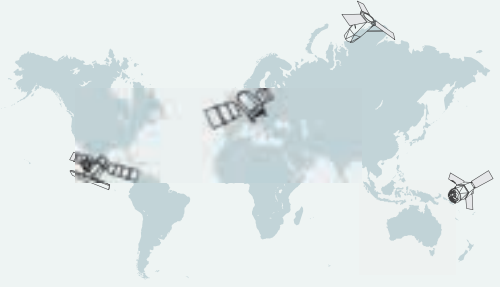
**Geospatial analytics provider**

Artificial intelligence  
Dataset building  
Analytic platform

## KOMPSAT (Korea Multi-Purpose Satellite) Program

- National space development program
- Developed and operated by KARI

**KOMPSAT Constellation operation**



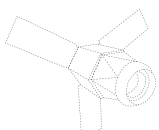
<b>EO</b>	KOMPSAT-2, KOMPSAT-3, KOMPSAT-3A KOMPSAT-7
<b>SAR</b>	KOMPSAT-5, KOMPSAT-6

To be launched



### KOMPSAT-6 (SAR)

**Resolution** Sub-meter class  
**Launch** Scheduled for 2020

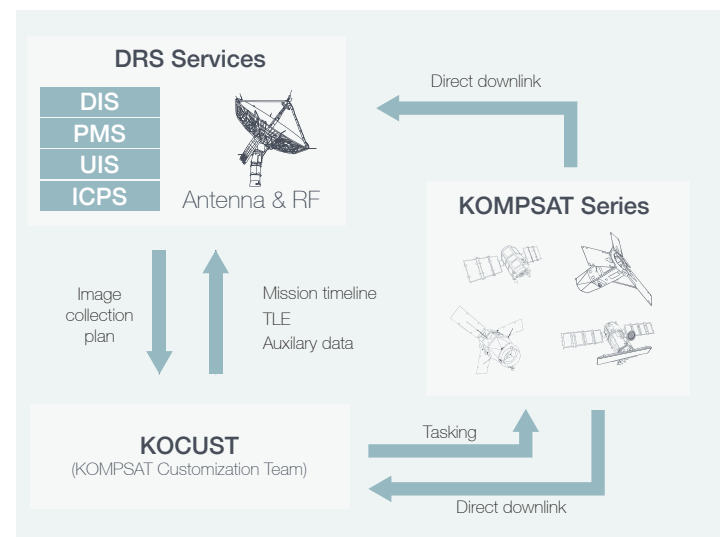


### KOMPSAT-7 (EO)

**Resolution** PAN 0.3m, MS 1.2m  
**Launch** Scheduled for 2021

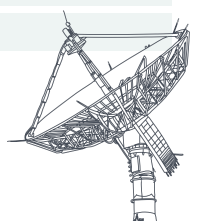
## Direct Receiving System

- KOMPSAT Direct Receiving Station(DRS) is a full ground station with antenna system and ground station terminal.



### KOMPSAT DRS provides

- Planning for KOMPSAT series image acquisition
- Direct reception & archiving of KOMPSAT satellite downlink
- Standard product and catalog generation





# KOMPSAT-3A

**VHR EO**

## Product resolution

PAN : 0.4 m MS : 1.6 m  
@ altitude 528 km (nadir)

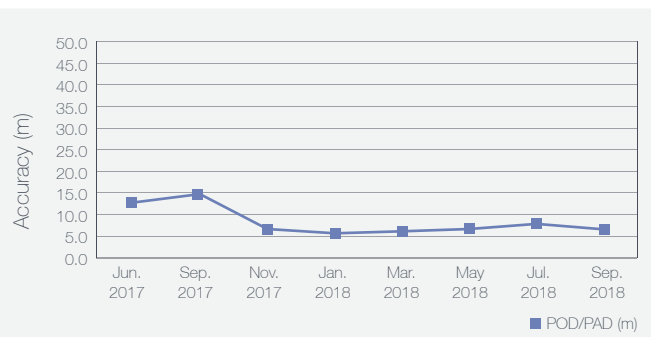
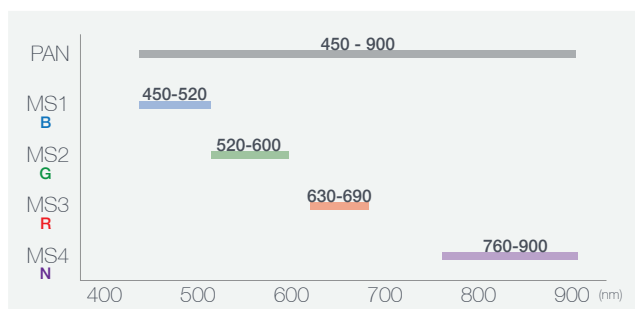
## Orbit

Sun synchronous orbit

## Location accuracy

6.20 m RMSE, < 9.40 m CE 90 with POD/PAD

## Spectral bands



## Data quantization

14 bits / pixel

## File format

GeoTIFF

## Map projection / Datum

UTM / WGS84

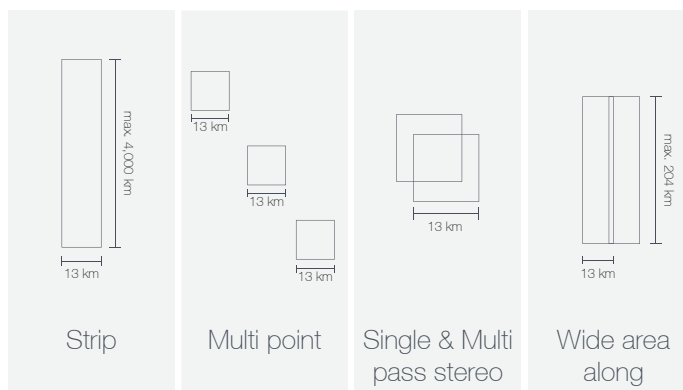
## MLTAN

13:30 (local time)

## Swath width

13 km (nadir)

## Imaging mode







# KOMPSAT-3

VHR EO

## Product resolution

PAN : 0.5 m MS : 2.0 m  
@ altitude 685.13 km (nadir)

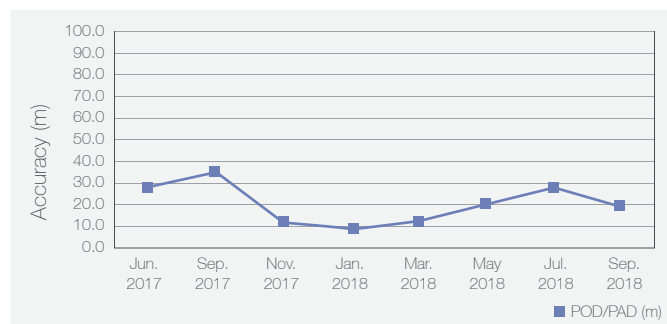
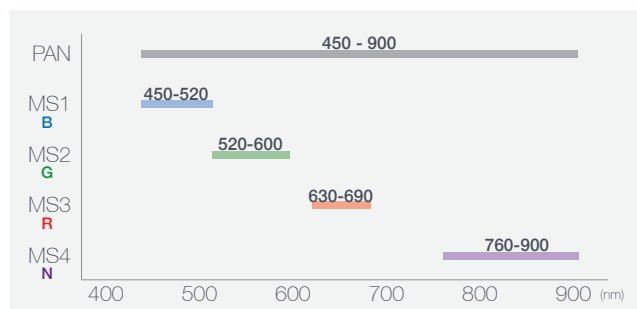
## Orbit

Sun synchronous orbit

## Location accuracy

19.9 m RMSE, < 30.19 m CE 90 with POD/PAD

## Spectral bands



## Data quantization

14 bits / pixel

## File format

GeoTIFF

## Map projection / Datum

UTM / WGS84

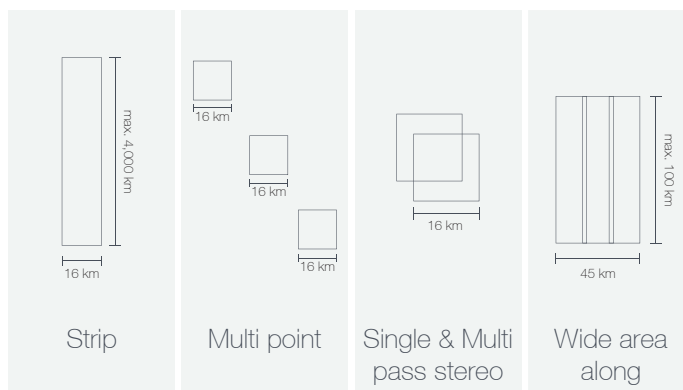
## MLTAN

13:30 (local time)

## Swath width

16 km (nadir)

## Imaging mode





# KOMPSAT-5

X-band SAR

Map projection / Datum

UTM / WGS84

Altitude

550 km

File format

HDF5 / GeoTIFF

MLTAN

06:00 / 18:00 (local time)

Orbit

Dawn-dusk orbit

Orbit cycle

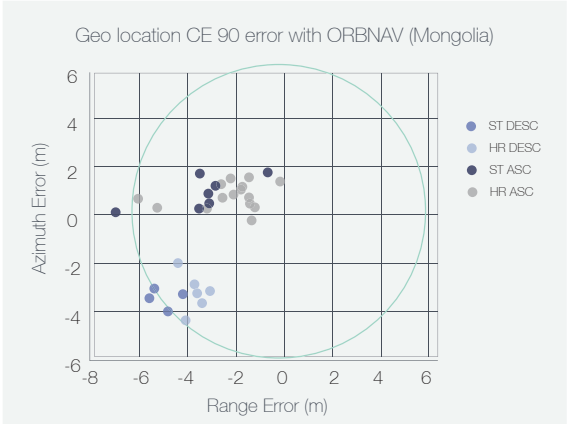
28 days

Imaging mode		GSD *	Swath *	Polarization
Spotlight	UH    Ultra HR	0.85 m	5 km	Single Polarization (HH, HV, VH, VV)
	EH    Enhanced HR	1 m		
	HR    High Resolution			
Strip	ES    Enhanced Strip	2.5 m	30 km	
	ST    Strip	3 m		
Wide swath	EW    Enhanced WS	20 m	100 km	
	WS    Wide Swath			

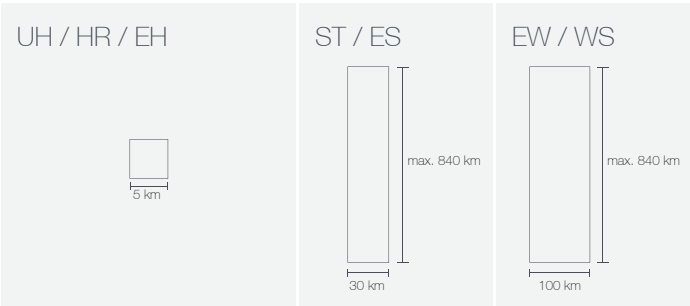
\* @ nominal incidence angle of 45°

## Location accuracy

Location (Geometric)	Ground resolution		
	ES	EH	UH
6.22 m CE 90	< 2.5 m	< 1 m	< 0.85 m



## Imaging mode







# KOMPSAT-2

VHR EO

## Product resolution

PAN : 1.0 m MS : 4.0 m  
@ altitude 685 km (nadir)

## Orbit

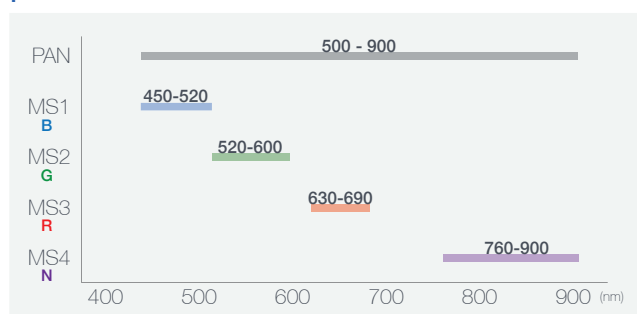
Sun synchronous orbit

## KOMPSAT-2 Archive coverage

Since July 28, 2006



## Spectral bands



## Data quantization

10 bits / pixel

## File format

GeoTIFF

## Map projection / Datum

UTM / WGS84

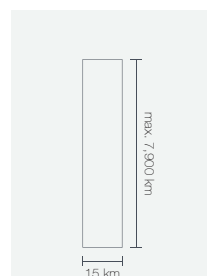
## MLTAN

10:50 (local time)

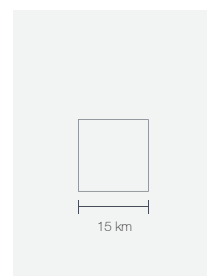
## Swath width

15 km (nadir)

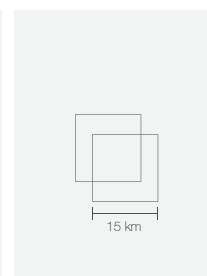
## Imaging mode



Strip

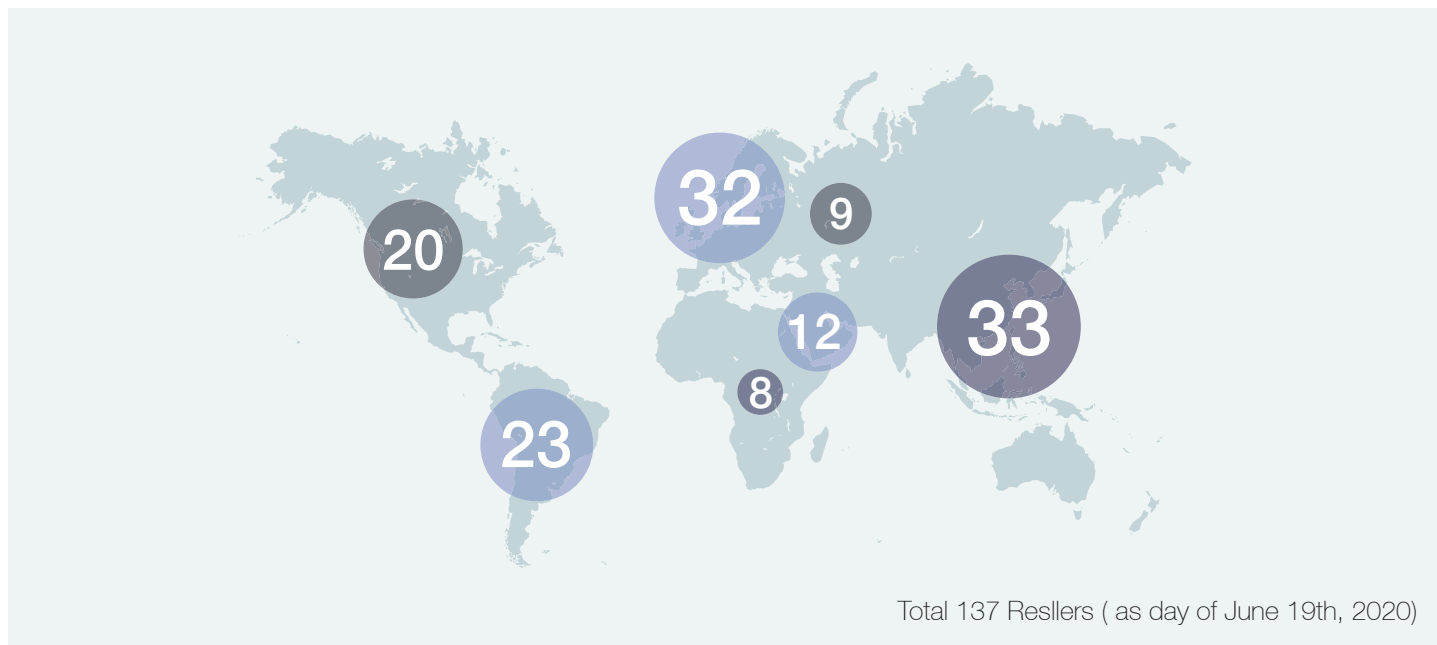


Single point target



Multi pass stereo

# Our resellers



**Argentina** IMAGENES GEOGRAFICAS S.A. **Austria** GeoVille Information Systems GmbH **Azerbaijan** Azercosmos **Bangladesh** Bridge Computer Technologies **Bahrain** AeroMap Technology Systems **Belgium** GIM Geographic Information Management nv **Bolivia** CMIS S.R.L. **Brazil** Chamaeleon Geotecnologias / ENGESAT Imagens de Satellites Ltda EPP / F5 Software LTDA / Globalgeo Geotecnologias Ltda. / Novaterra Sensoriamento Remoto Ltda. EPP / TECTERRA GEOTECNOLOGIAS / TERRAGRAPH GEOPROCESSAMENTO EIRELI-ME / Visageo LTDA / Visiona Tecnologia Espacial S.A **Bulgaria** Remote Sensing Application Center (ReSAC) **Canada** ATG-GIS Consulting / CTQ Consultants Ltd. / Ecosat Geobotanical Services Inc. / Effigis Geo Solutions Inc. / MDA Geospatial Services Inc. / PhotoSat Information Ltd. / Planetary Remote Sensing INC. / SkyWatch Space Applications Inc. / XYINTEL Geospatial Services **Chile** GEOSOLUCIONES / Imagenes Satelitales Globales Ltda (Imagen-Sat) / OrionData **China** Beijing Space Eye Innovation Technology Co., Ltd. / Beijing Vastitude Technology Co., Ltd. / SpaceWill Info. Co., Ltd. **Colombia** GeoSpatial **Costa Rica** DIT Space Sociedad De Responsabilidad Limitada **Czech Republic** GISAT s.r.o **Denmark** Dhi Gras A/S **Egypt** GeoMAP Consultants **Ecuador** GeoInt Cía. Ltda., GeoSpace Solution **France** Geo4i / Geosys Co.,Ltd / Latitude Geosystems SAS **Germany** CloudEO AG / GAF AG / German GeoConsultants Group (3G) **Greece** TotalView **Hong Kong** Geocarto International Centre Ltd. **Hungary** GeoData Services Ltd. **India** Excel Geomatics Pvt. Ltd. / Raj Technologies / Suhora Technologies Private Limited **Indonesia** Barrata Global Technology / PT. Integrasia Utama **Israel** Imagesat International NV **Italy** e-GEOS S.p.A / Sysdeco Italia s.r.l / Serco Italia S.p.A **Japan** Infoserve Inc. / PASCO Corporation **Kazakhstan** Kazakhstan Gharysh Sapary **Kenya** SPATIALMAPS CONSULTING LIMITED / Orbital Africa Ltd **Lebanon** MAPSGEO s.a.r.l / GIS/Transport, Ltd. **Malaysia** Satellite Imaging sdn Bhd **Mexico** Cloud Mapping Technologies, S.A. de C.V. **Mongolia** Zoloton LLC **Mozambique** AFOLUTE SIG LDA **Myanmar** Suntac Technologies Co., Ltd. **Nepal** B.G General Suppliers **Netherlands** Geoserve B.V. **Nigeria** Aerial-View Solutions International LTD **Norway** KONGSBERG Satellite Services AS / TerraNor Kartanalyse Nils Erik Jorgensen **Pakistan** SANDHU ENGINEERING and TRADING CORPORATION (SETC) **Peru** Geo Edex / SPACEDAT PERU S.A.C / Geomática Soluciones S.A.C. **Philippines** Skymap Global Philippines Inc. **Poland** ProGea 4D sp. z o. o. **Qatar** Ideal Solutions **Republic of Korea** Gaia3D / GEO C&I / HASANKONG / Hojung Solution / INDYWARE **Russia** Geo-Alliance / Innoter Ltd / Prime Group / SCANEX Research and Development Center / Racurs Group / Sovzond Company Ltd. **Saudi Arabia** Orbits Engineering Firm / The Quality Geospatial Engineering Company **Serbia** Environmental Modeling Solutions **Singapore** ST Engineering Geo-Insights Pte. Ltd / SkyMap Global Pte. Ltd. **South Africa** Landsat Mapper / SCS Global Information (Pty) Ltd **Spain** DeimosImaging, S.L.U. **Sri Lanka** GeoEDGE (Pvt) Ltd / Geo-N-able Pvt, Ltd. / GeoPlus Solutions (Pvt.) Ltd **Taiwan** Lotus (H&R) INC **Tajikistan** Design and Research Institute "Fazo" **Thailand** Geo-Informatics and Space Technology Development Agency **Turkey** JEODIJITAL BILISIM TEKNOLOJI MADENCILIK INSAAT TAAHUT SANAYI VE TICARET LIMITED SIRKETI / NiK Insaat Ticaret Ltd. Sti. **United Arab Emirates** Dolphin Air / Gulf Geo Information Solutions FZC / Gulf Survey and Engineering Services (GISTEC) **Ukraine** TVIS-INFO LTD **United Kingdom** Brainn Wave Limited / CGG NPA Satellite Mapping / Earth-I Ltd / Geocento Limited / Satellite Terrain Engineering Ltd / Terrabotics Ltd. / Veritas Imagery Services Ltd. **United States** Airborne Response, LLC / AllSource Analysis / APOLLO MAPPING LLC / BlackSky Global LLC / Earth Observing System / East View Geospatial, Inc./ Land Info Worldwide Mapping, LLC / Map Mart / Maxar Technologies / Orbit Logic Incorporated / Ursa Space Systems Inc. **Venezuela** Mattie Engineers **Vietnam** E2E Solutions Co., LTD / GeoInfo Co., Ltd. / GeoViet Consulting Co., Ltd.



**“ FAIR ACCESS TO SPACE ”**

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