


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.


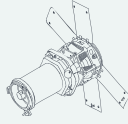
Operations

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




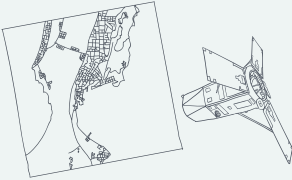

Direct Receiving System

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


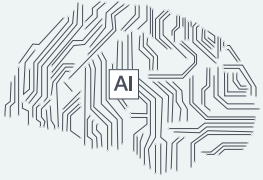
Satellite manufacturer

Satellite platform
Payload
Ground station

Satellite imagery provider

KOMPSAT representative
VHR optical and SAR
KOMPSAT operation

Geospatial analytics provider

Artificial intelligence
Dataset building
Analytic platform

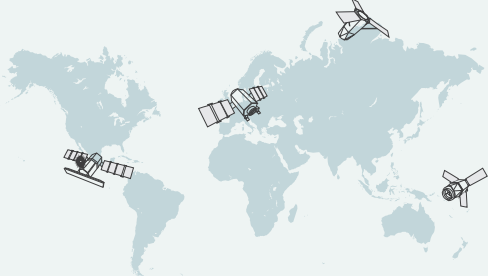
KOMPSAT (Korea Multi-Purpose Satellite) Program

National space development program
Developed and operated by KARI

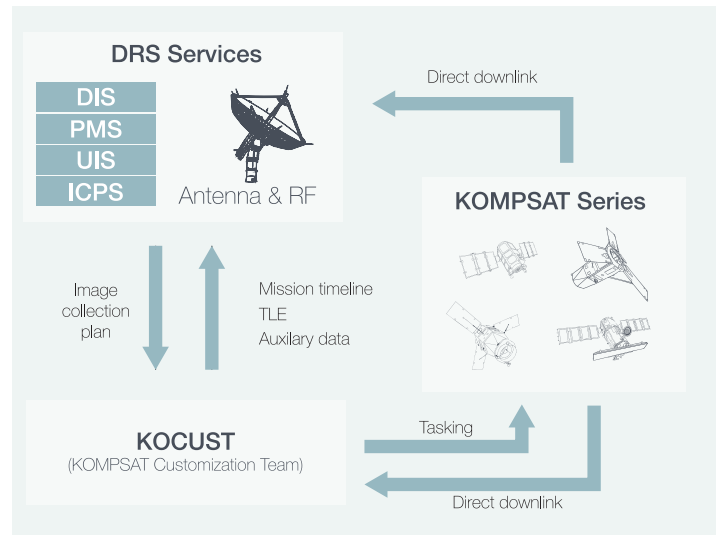
Direct Receiving System

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

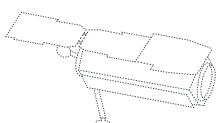
KOMPSAT Constellation operation



EO	KOMPSAT-2, KOMPSAT-3, KOMPSAT-3A KOMPSAT-7
SAR	KOMPSAT-5, KOMPSAT-6

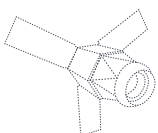


To be launched



KOMPSAT-6 (SAR)

Resolution Sub-meter class
Launch Scheduled for 2021



KOMPSAT-7 (EO)

Resolution PAN 0.3m, MS 1.2m
Launch Scheduled for 2022

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)

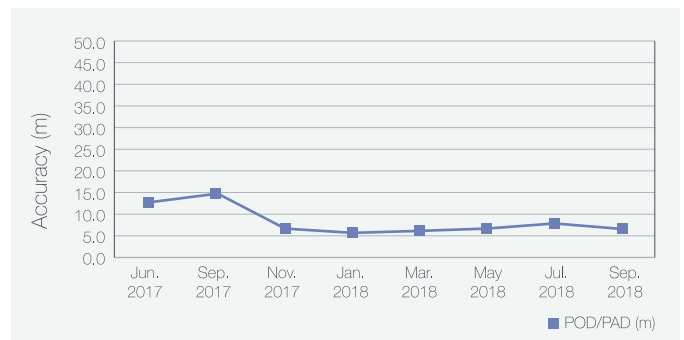
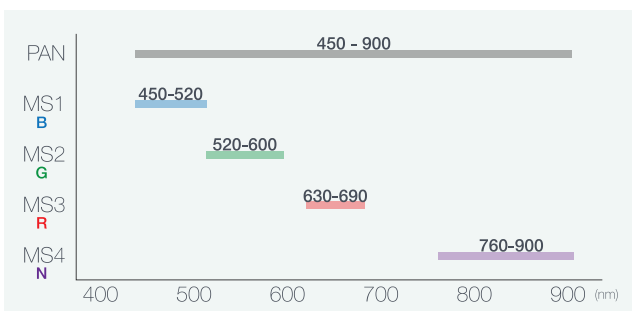
Orbit

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

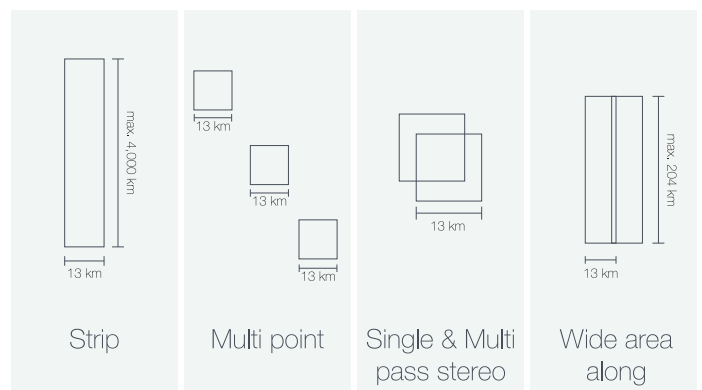
MLTAN

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)

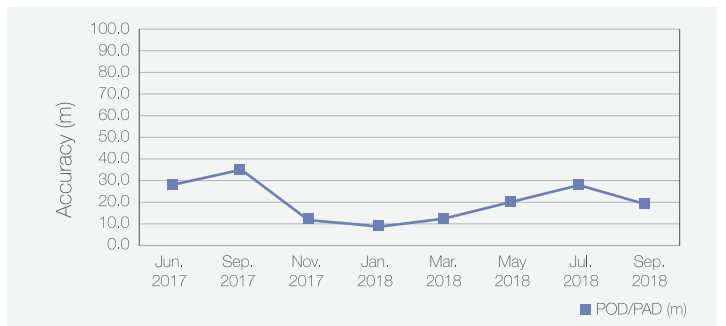
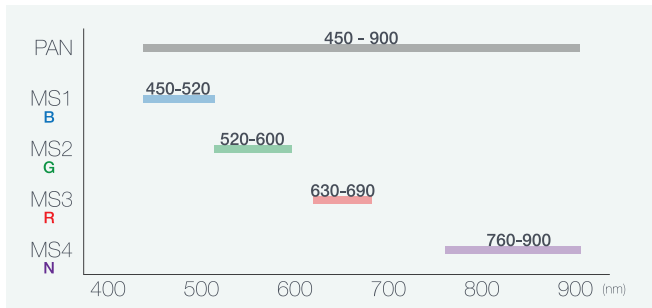
Orbit

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

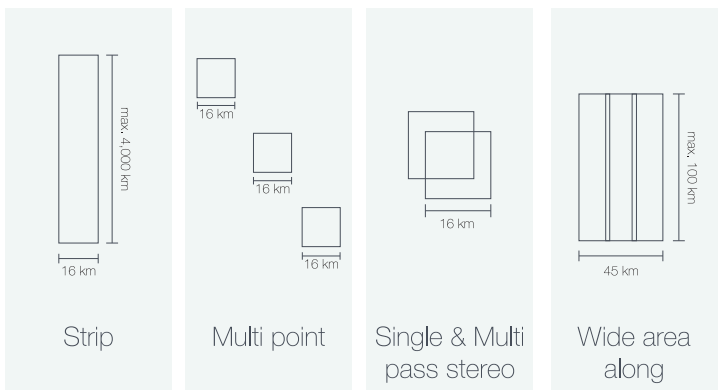
MLTAN

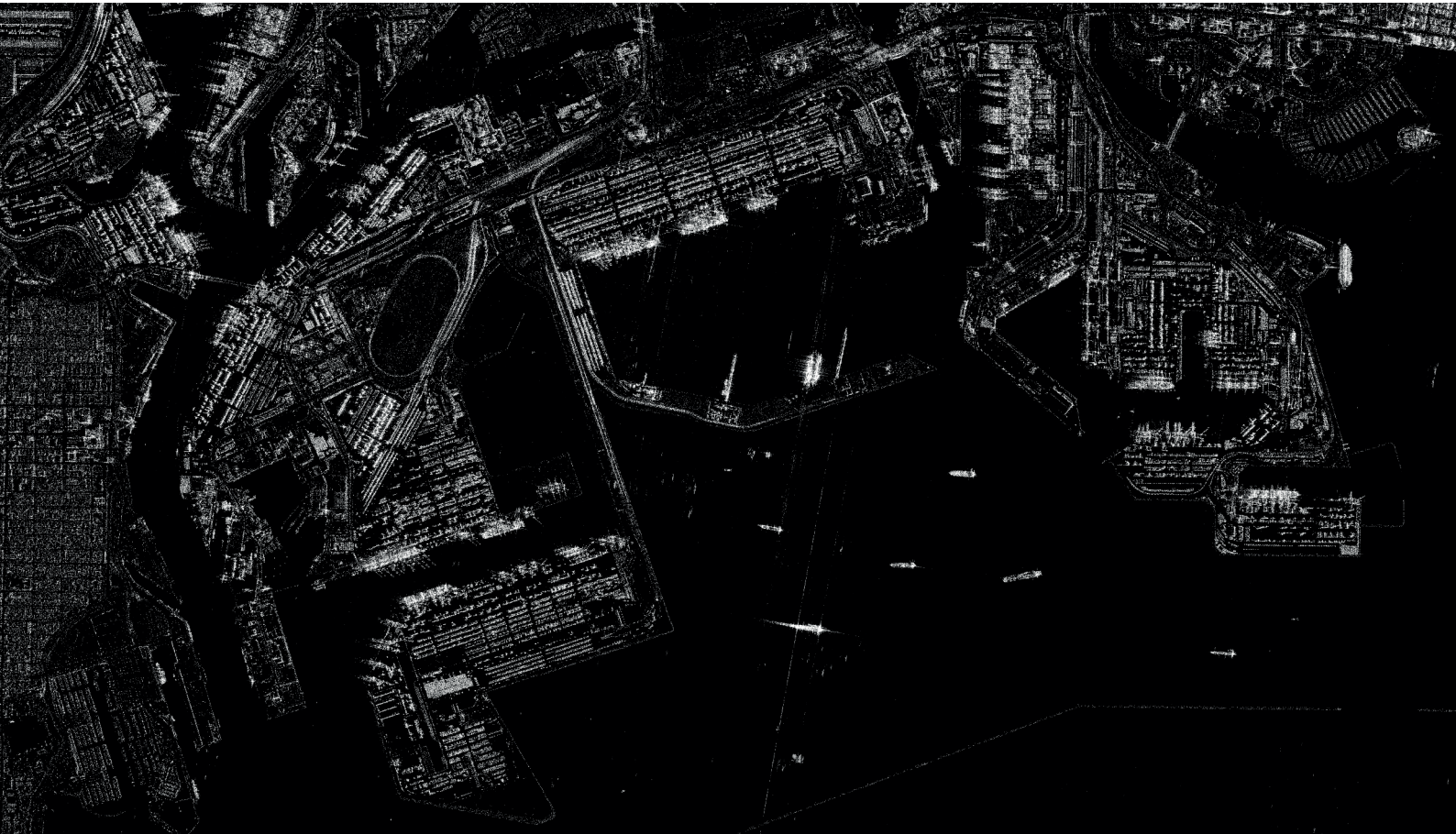
13:30 (local time)

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)

Location accuracy

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

Orbit

Dawn-dusk orbit

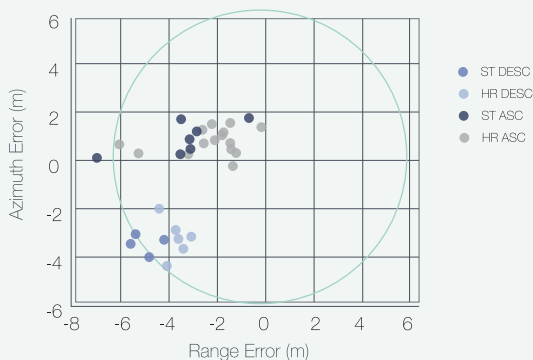
Orbit cycle

28 days

Imaging mode		GSD *	Swath *	Polarization
Spotlight	UH Ultra HR	0.85 m	5 km	Single Polarization (HH, HV, VH, W)
	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			

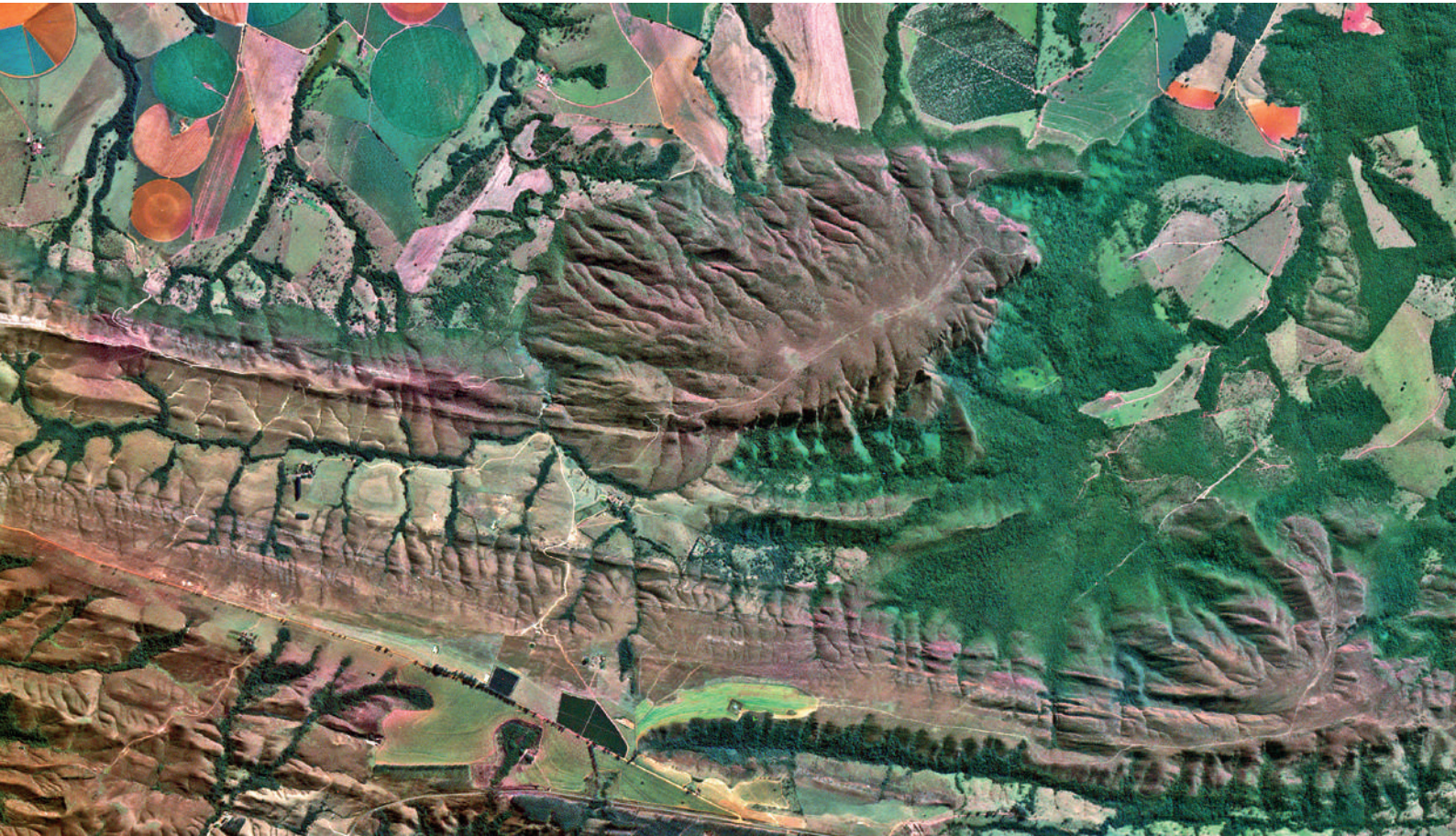
* @ nominal incidence angle of 45°

Geo location CE 90 error with ORBNAV (Mongolia)



Imaging mode





KOMPSAT-2

VHR EO

Product resolution

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

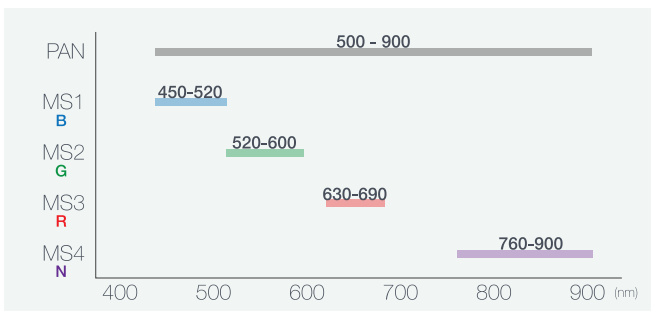
Orbit

Sun synchronous orbit

KOMPSAT-2 Archive coverage

Until December 31st, 2020

Spectral bands



Data quantization

10 bits / pixel

File format

GeoTIFF

Map projection / Datum

UTM / WGS84

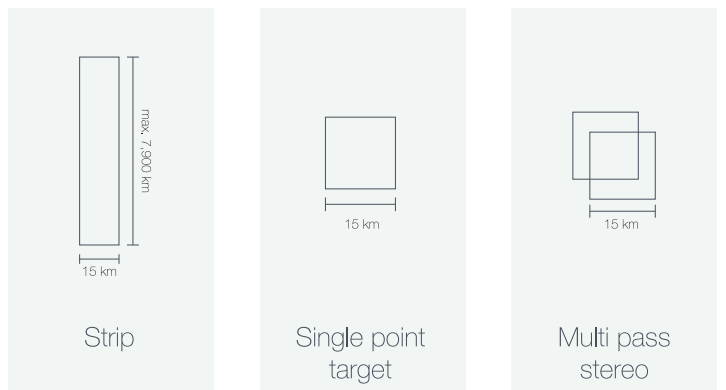
MLTAN

10:50 (local time)

Swath width

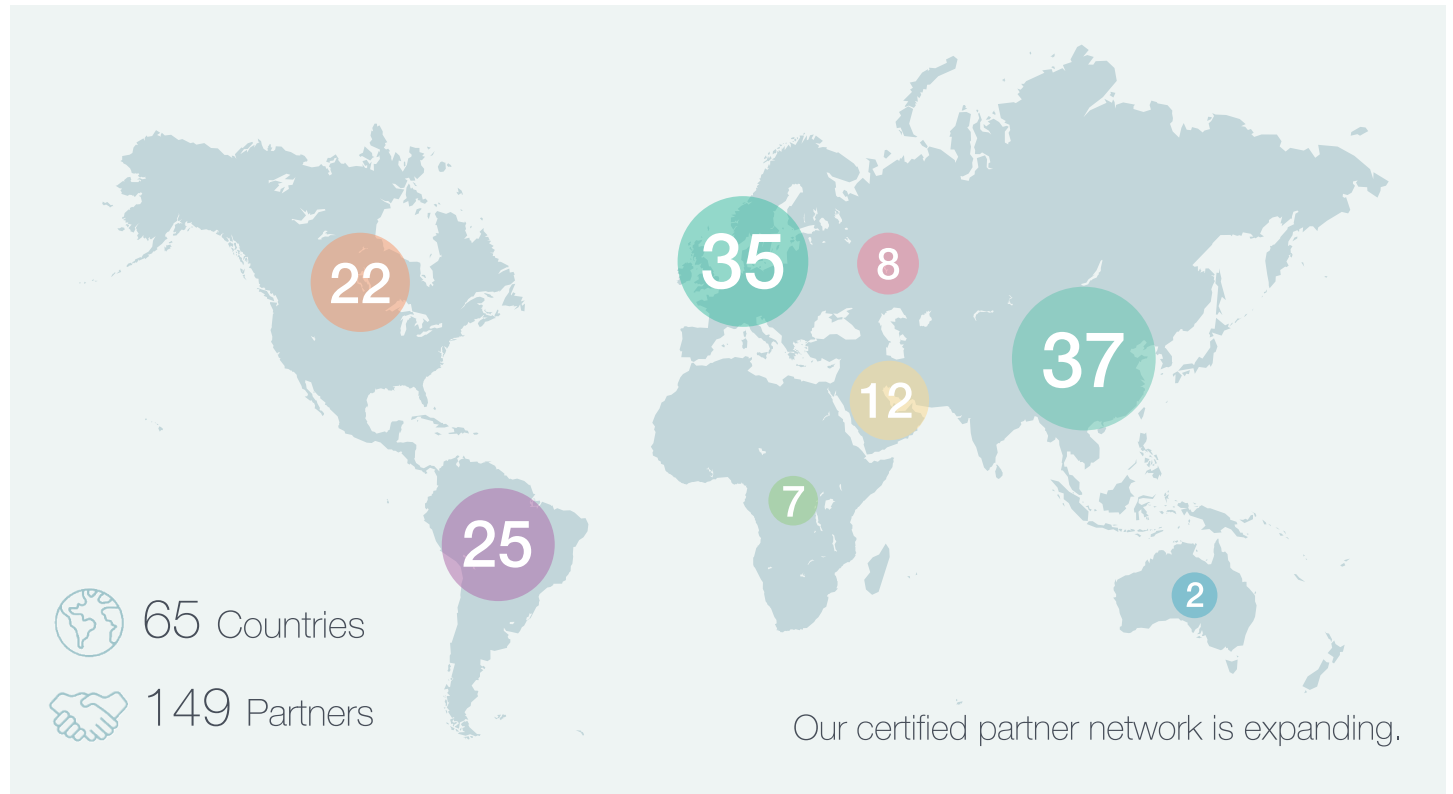
15 km (nadir)

Imaging mode



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“ FAIR ACCESS TO SPACE ”

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