



OM30
30cm GSD
Jorge Newberry Airport, Buenos Aires, Argentina

The Future of Earth Observation: How High-Resolution Satellite Imagery is Transforming Africa's Development

omeospace.com

Turcia Busakwe



OMEQ SPACE is your trusted source for imagery, services and satellites.

OMEQ



The most extensive portfolio of unique optical, radar, hyperspectral and other specialty satellites and satellite constellations



Supplier of imagery and solutions, in-orbit satellites and ground stations.



A team of experienced professionals supporting your success.





















A loyal distribution network with over 100 partners



Our headquarters are in Singapore.



WE MEET ALL DEMANDS: 100 Satellites for Optical & 25 RADAR satellites

OPTICAL																		
19 MEDIUM RESOLUTION																		
30cm			40cm/50cm		65cm	75cm		80cm					HYPERspectral					
OM30	OM30	OM30NEO	SV2	MS-8 EARTHSCANNER	EARTHSCANNER	GAOFEN-7 STEREO	DAILYVISION	DV WIDE	GAOFEN-2	NIGHTVISION & VIDEO	NATUREYE	ZY3	HYPERSCAN	SUPERWIDE	GF-4GEO	GAOFEN-5	ZY1 HYPERSPECTRAL	
																		
1	1	4	6	2	9	1	54	4	1	3	5	3	2	1	1	2	2	
0.30m PAN	0.30m PAN	0.30m PAN	SV2: 0.40m PAN 1.6m MS	0.50m PAN	0.50m PAN	0.65m PAN	0.75m PAN	0.75m PAN	0.80m PAN	1.2m	2m PAN	2.1m PAN	3m RGB bands	3.5m PAN	50m PAN 50m MS	30m 320 bands inc. SWIR	2.5m/10m/30m 166 Bands inc. SWIR	
1.2m MS	1.2m MS	1.2m MS	SV1/BJ3: 0.50m PAN 2m MS	2m MS	2m MS	2.6m MS	3m MS	3m MS	3.2m MS		8m MS	3.5 MS	20 bands 5-10-20m					
15CM SR OPTION				EXTRA WIDE SWATH 8 BANDS	EXTRA WIDE SWATH	NATIVE STEREO	INTRADAILY REVISIT			NIGHT & VIDEO		NATIVE TRI-STEREO	20 BANDS	500,000 KM² COLLECT	GEO STATIONARY		HYPERSPECTRAL	
			✓			✓	X	✓	X	X	X	✓	X		X			
			12-24 km			20 km	18 km	40 km	50 km	19 km	60 km	51 km	110 km		400 km			
			2 DAYS			5 DAYS	18 TIMES/DAY	2 DAYS	5 DAYS	3 DAYS	DAILY	3 DAYS	2 DAYS		8 SEC			

15-30cm
VVVHR

LARGE SWATH

HUGE

HYPERspectral

30cm
OM30 OM30 OM30NEO
1 1 4
0.30m PAN 0.30m PAN 0.30m PAN
1.2m MS 1.2m MS 1.2m MS
15CM SR OPTION

40cm/50cm
MS-8 EARTHSCANNER EARTHSCANNER
2 9
0.50m PAN 0.50m PAN
2m MS 2m MS
EXTRA WIDE SWATH 8 BANDS EXTRA WIDE SWATH

SUPERWIDE
1
3.5m PAN
500,000 KM² COLLECT

GAOFEN-5 ZY1 HYPERSPECTRAL
2 2
30m 320 bands inc. SWIR 2.5m/10m/30m 166 Bands inc. SWIR
HYPERSPECTRAL

6 satellites
NOW
12 soon...

11 satellites
NOW
2 with 8 bands









.5 M
Km²

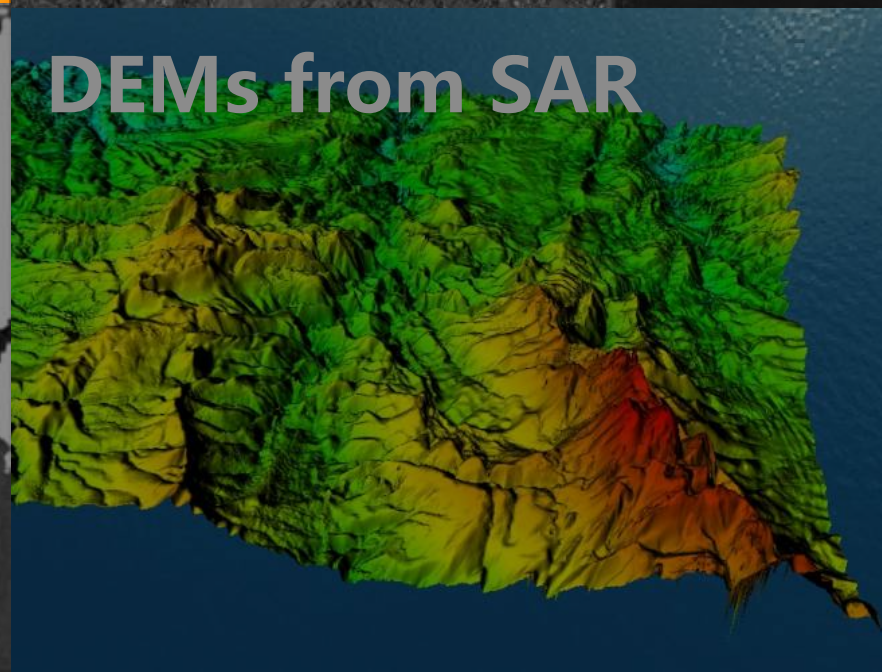
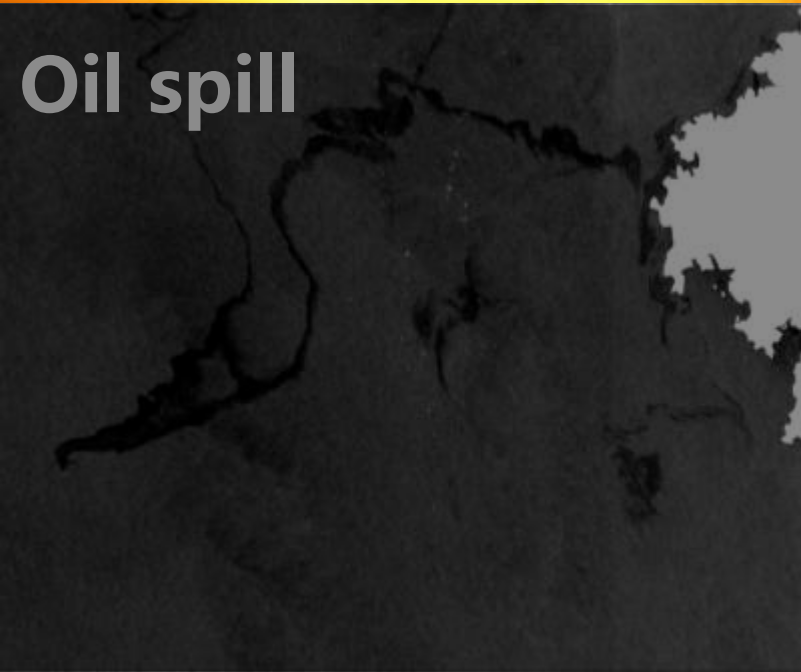
Task 166-
330 bands
incl SWIR

30m Environment, Water-Air pollution, CH4 detection, Mineral mapping

WE MEET ALL DEMANDS: 100 Satellites for Optical & 25 RADAR satellites

- All Bands
- Rapid revisit
- InSAR
- SSO & Inclined Orbit
- Formation flying for DEM
- Single, Dual or Quad Polarization

RADAR							
25 SAR							
C-BAND		X-BAND				L-BAND	KU-BAND
GAOFEN-3	C-SAT	SV NEO	AIRSAT X	PIESAT-1	PIESAT-2	LT1	AIRSAT KU
							
3	3	2	1	4	8	2	2
Up to 1m/100m	Up to 1m	Up to 0.5m/2m	Up to 0.5m/20m	Up to 0.5m/3m	Up to 0.5m/12m	Up to 3m/30m	Up to 0.5m/2m
C-BAND INSAR	X-BAND INSAR				L-BAND INSAR		
				DEM		DEM	
10-640 km	7-170 km	10-100 km	10-160 km	5-80 km	5-100 km	30-400 km	10-18km
3 DAYS	2-3 DAYS	3-4 DAYS	2 DAYS	4 DAYS	1 DAY	4 DAYS	3 DAYS

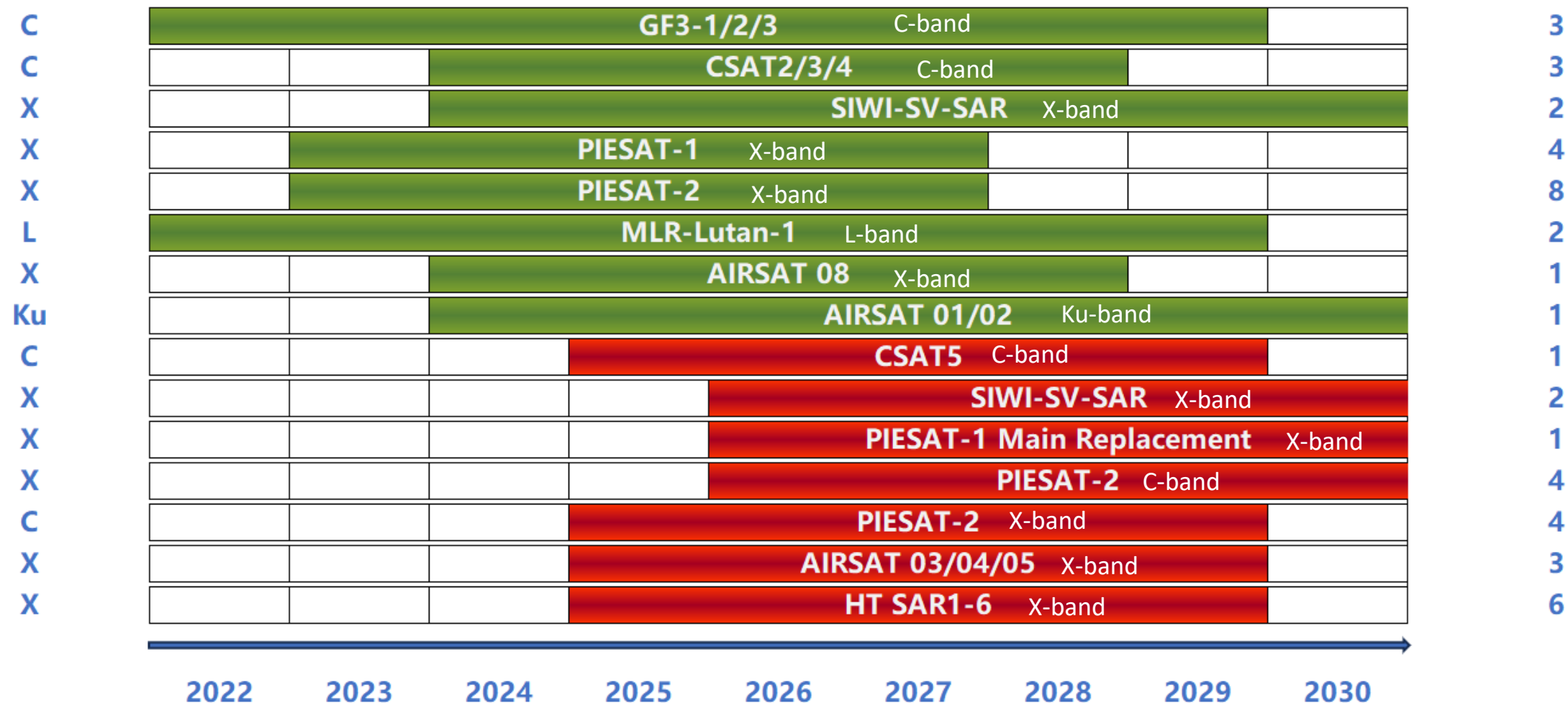


Continuity of SAR Satellite Constellations



Frequency band

Number of Satellites



■ Scheduled Launches of SAR Satellite Constellations

OMEEO Space Offering



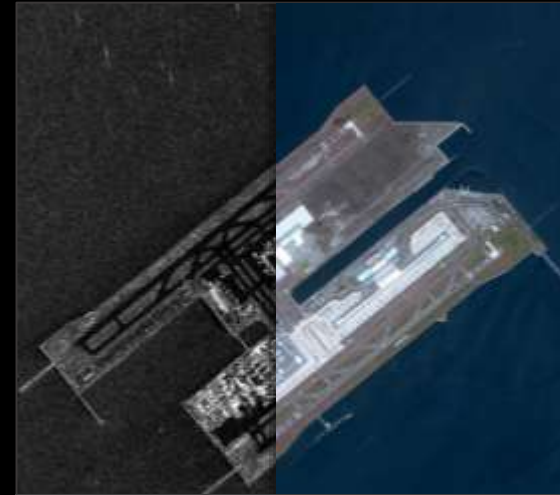
VHR COUNTRY COVERAGE AT 50CM

Annually updated 50cm global world mosaic



INTRADAY REVISIT AT 75CM

Target anywhere on earth with intra daily (+20 times a day coverage)



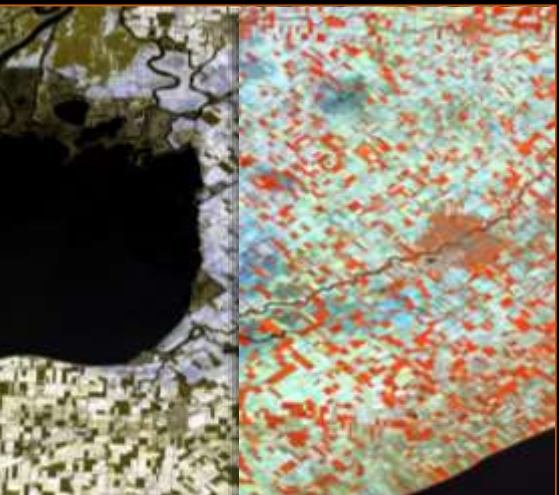
WIDE RANGE OF SAR CONSTELLATION

All weather, day/night observation with a wide range SAR constellation, incl. L-Band, C-Band, X-Band, S-Band, Ku-Band



DIGITAL ELEVATION MODELS (DEM)

Create the most updated DSM and DTM from 1m to 10m resolution.



HYPERSPECTRAL IMAGERY

Hyperspectral imagery with up to 330 bands, including SWIR



DAY/NIGHT IMAGERY AND VIDEO

High resolution imaging and video capabilities for day and night



30CM WITH 15CM SUPER RESAMPLING

30cm resolution imagery or higher with super resampling to 15cm

1. **Advanced Geospatial Solutions**
2. **Immediate access through own ground station**
3. **Dedicated national satellites in commercial constellations**



Unique & Comprehensive Capabilities of Optical EO Satellites



30 cm and beyond:
6 now soon 12 satellites
Towards 20cm native

Hyperspectral Imagery
GF5 (330 bands/SWIR) and ZY-1
For mining & CH4 measurements

Annual 50cm worldwide mosaic
& country basemap
EarthScanner Ultimate 50cm
constellation

Unique solution for specific
use cases
Night, Video, DEMs, huge area
collect, geo, intraday...

Abu Dhabi Airport: 5 Collects at 14 minutes Interval



EarthScanner

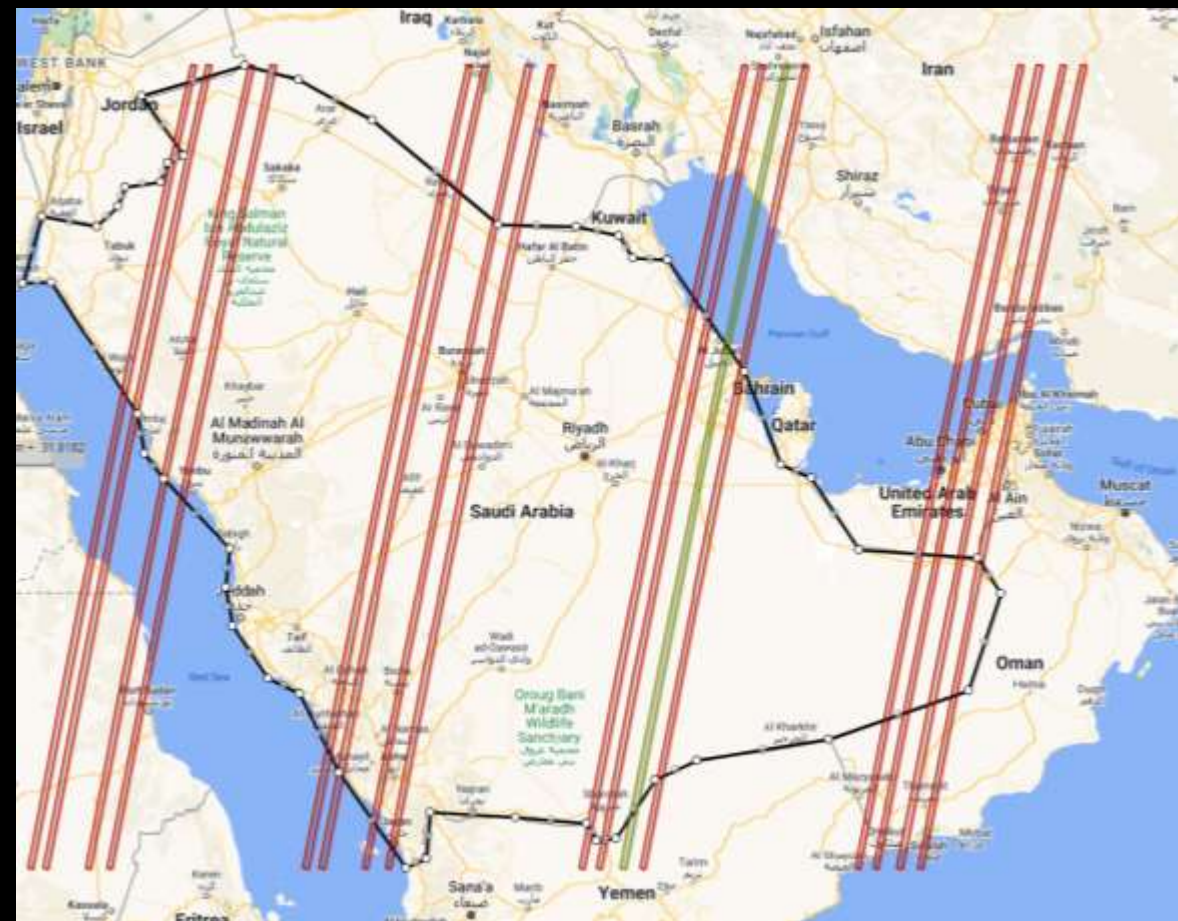
Fresh country coverage at 50cm

9 satellites at 50cm 4 bands with 150km swath
2 satellites at 50 cm 8 bands with 130 km swath

EarthScanner's unique capabilities at 50 cm



Earthscanner: Only sensor on the market that can achieve 50 cm and large swath



8 days passes over KSA with 2 SV NEO sats
30 cm and 15 km swath.
Long strips may require two or 3 passes.



8 days passes over KSA with 3 Earthscanner sats:
50 cm and 150 km swath.
Long strips may require two passes.

ULTIMATE EarthScanner: Powerful Before, More Powerful Today.



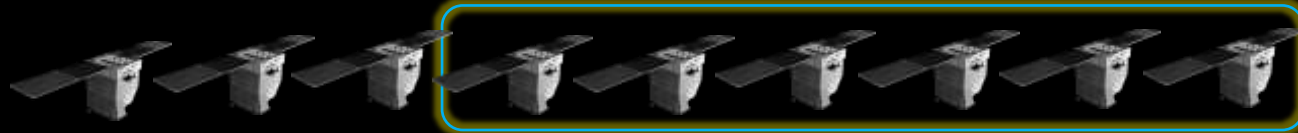
2020: 1 sat



2021: 2 sats (late September)

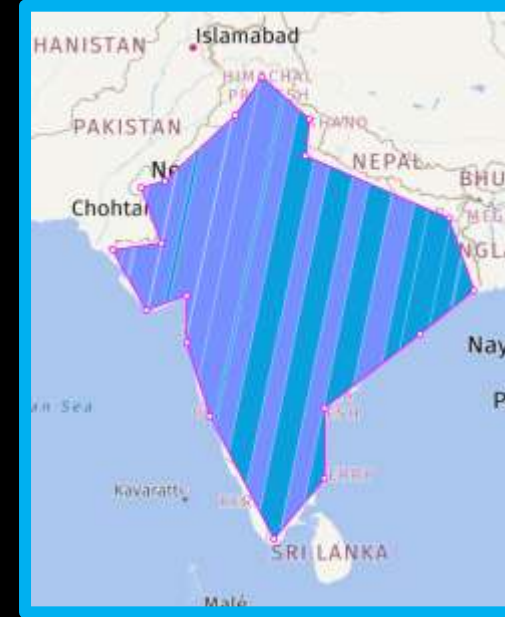


2022: 3 sats (june) 2023: 3 sats full year



2024: 3 sats full year + 6 sats November

2025: 9 sats full year



Covering India or Mexico in 1 week



Covering KSA in 5 DAYS





Coverage simulation: the complete nation of Namibia can be covered by 50cm images from Earthscaner satellite constellation within 3 days

50cm Worldwide Mosaic – Updated Annually



2021 India Country Mosaic

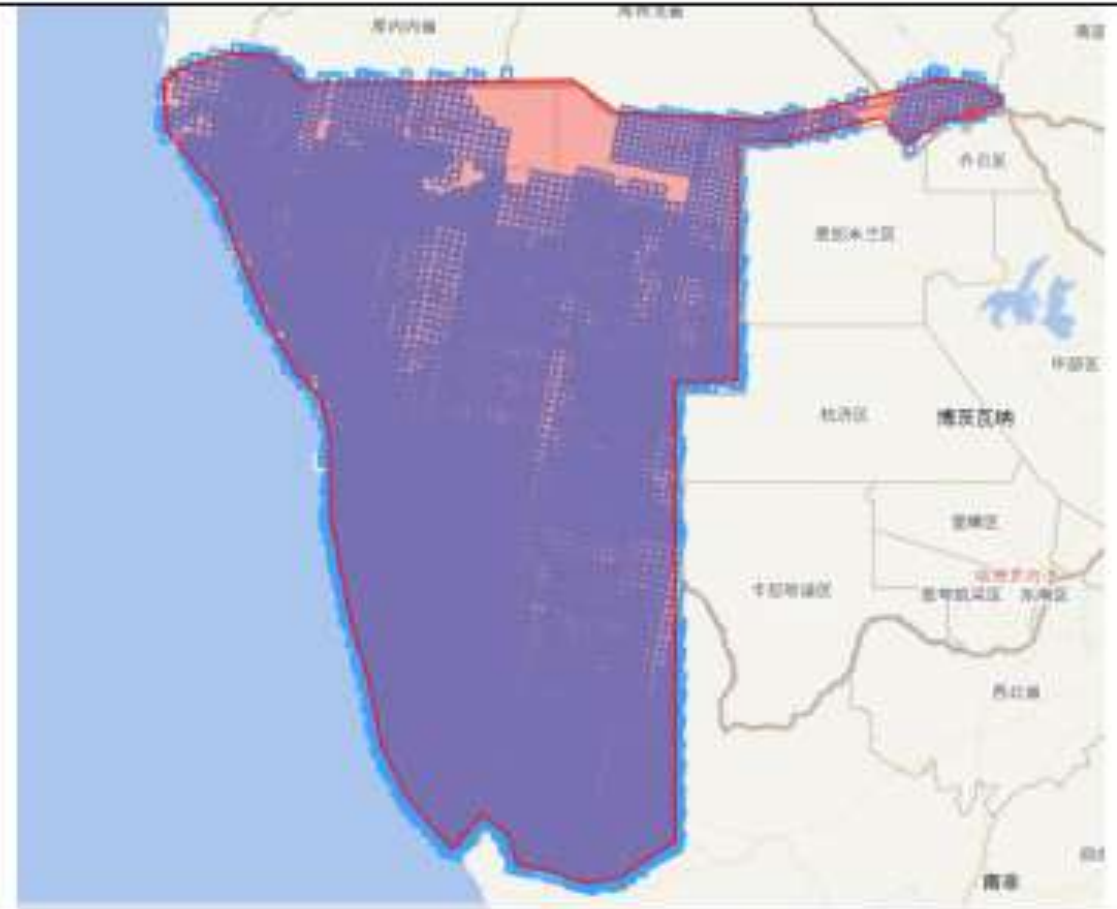


2022 India Country Mosaic

50cm country coverage of Namibia



To date: 100% coverage with <15% cloud images captured since 2023

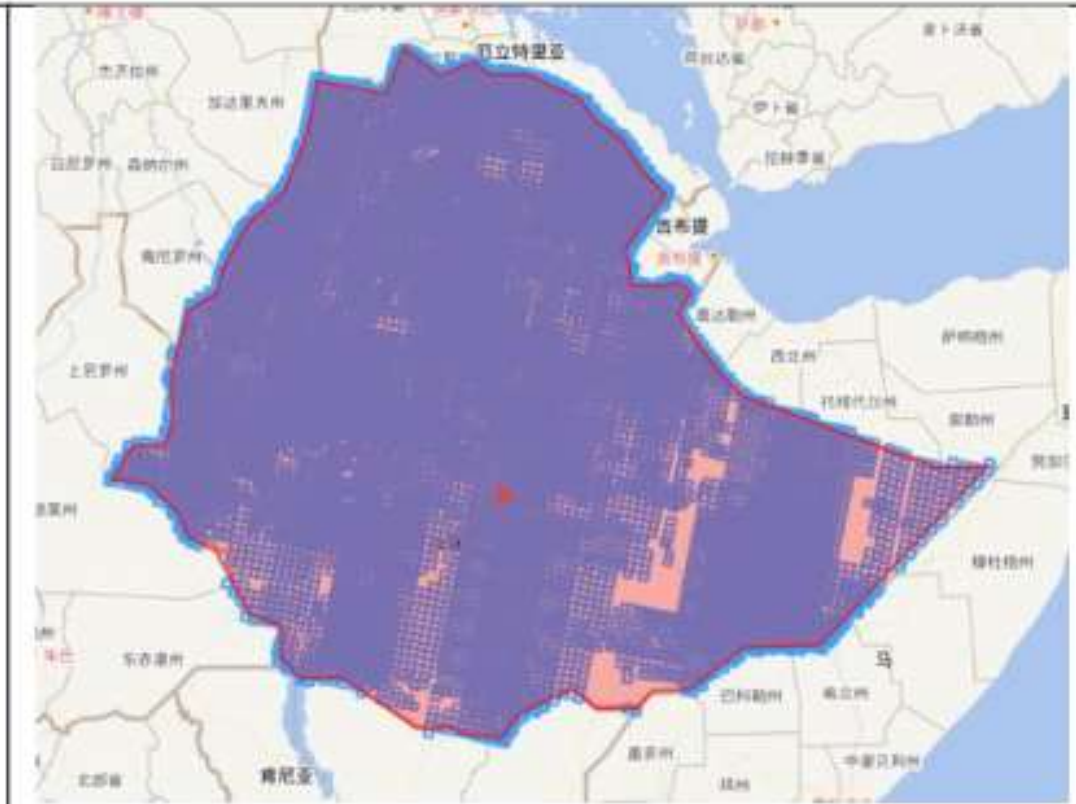


To date: 94.1% coverage with <15% cloud images captured in 2025

50cm country coverage of Ethiopia



To date: 99.5% coverage with <15% cloud images captured since 2023

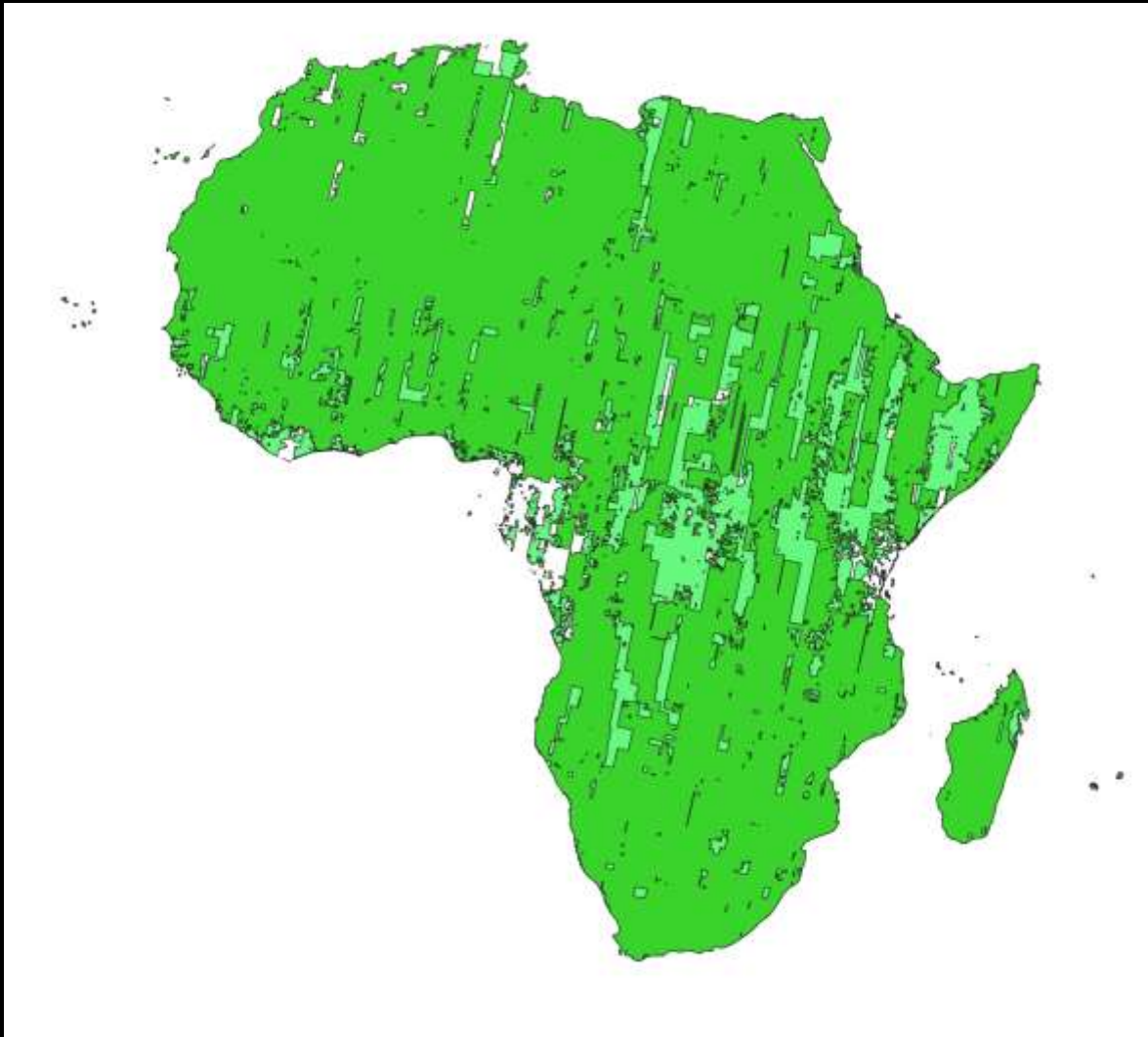


To date: 94% coverage with <15% cloud images captured in 2025

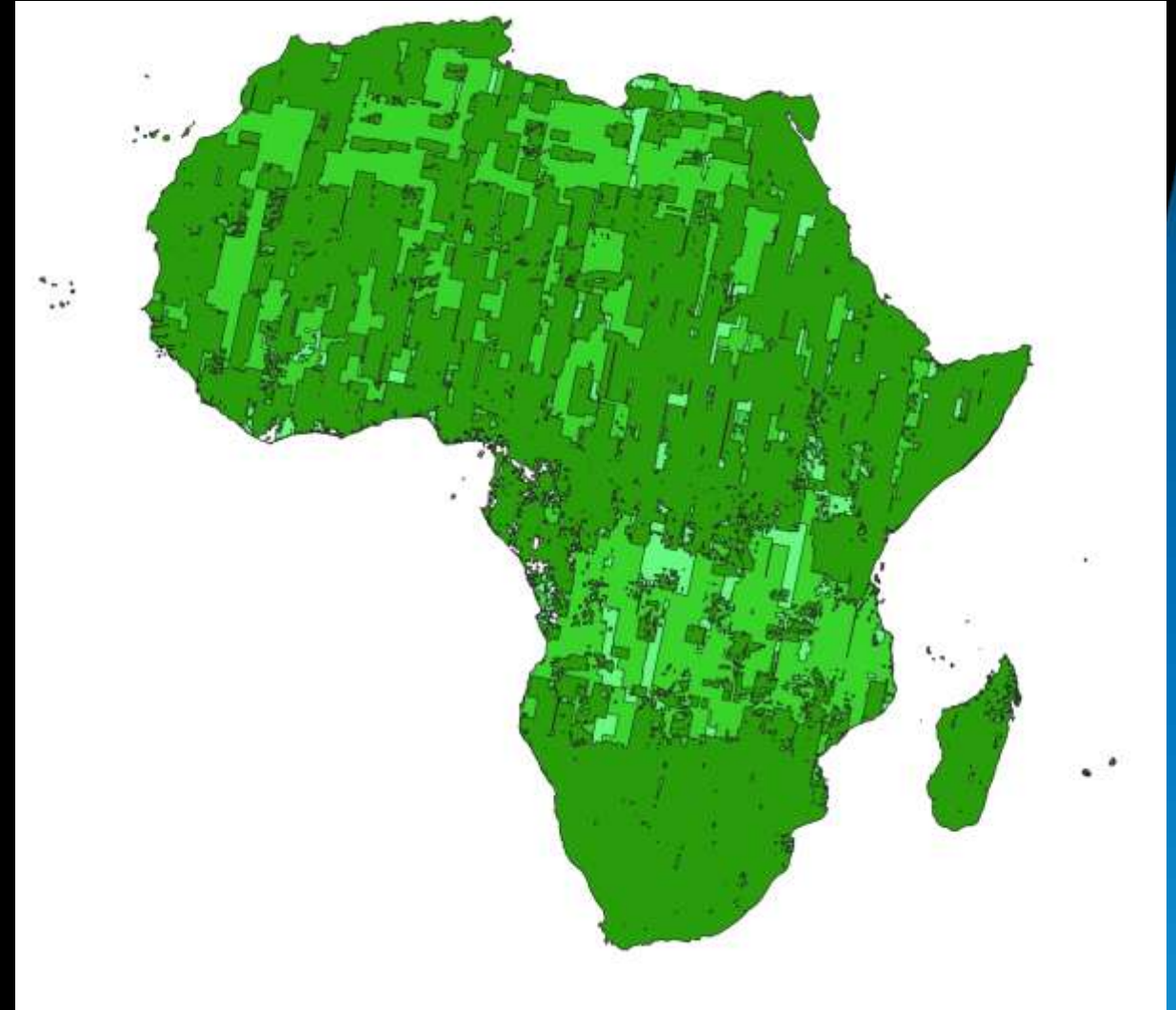
EarthScanner: 9 satellites at 150 km swath and 50 cm resolution



Africa COVERAGE MAX CC 15% 50 cm



2024 Continent almost complete



2025 (dark green) Jan April 4 Months

FRESH Country coverage 50 cm

OMEO

South Africa mosaic:
1.2 M km²,
+95% 2024 pixels





EarthScanner 50cm, Addis Ababa, Ethiopia





OMEQ

OMEQ

30 CM

Mexico, Toluca de Lerdo, 2024.02.21



OMEQ

OMEQ

15 CM

30 cm native AI resampled to 15cm



30 CM

Mexico, Toluca de Lerdo, 2024.02.21



OMEO

OMEO

15 CM

30 cm native AI resampled to 15cm



OMEO

OMEO

25 CM

25 cm native now producing



OMEQ



20 CM

20 cm native (conclusive test, next generation mass production H2 2025)

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OMEQ

The background of the advertisement features a satellite image of a city. A large, multi-story building with a distinctive circular roof is highlighted with a green rectangular border. The OMEQ logo is positioned in the bottom right corner, consisting of the word "OMEQ" in white capital letters with a blue circular graphic element behind it.

Spectacular specs.

Thank you!



@omeospace



Download our satellite datasheets
now on omeospace.com

