

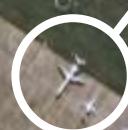


# The Future of Earth Observation: How High-Resolution Satellite Imagery is Transforming Africa's Development

[omeospace.com](http://omeospace.com)

**Turcia Busakwe**

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





**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

QMEO

OPTICAL											
19 MEDIUM RESOLUTION											
15-30cm VVVVHHR	LARGE SWATH	65cm	75cm	80cm	NIGHTVISION & VIDEO	NATUREYE	ZY3	HYPERSCAN	SUPERWIDE	HUGE	HYPERSpectral
30cm	40cm/50cm	MS-8 EARTHSCANNER	GAOFEN-7 STEREO	DAILYVISION	DV WIDE	GAOFEN-2	NIGHTVISION & VIDEO	NATUREYE	ZY3	HYPERSCAN	SUPERWIDE
OM30 OM30 OM30NEO	SV/BJ	EARTHSCANNER	GAOFEN-7 STEREO	DAILYVISION	DV WIDE	GAOFEN-2	NIGHTVISION & VIDEO	NATUREYE	ZY3	HYPERSCAN	SUPERWIDE
# 1 1 4 6	2 9	1 54 4 1	3 5 3 2	1.2m 2m PAN	2m PAN	3m PAN	3.2m PAN	8m MS	2.1m PAN	3m RGB bands	3.5m PAN
GSD 0.30m PAN 1.2m MS	0.30m PAN 1.2m MS	0.30m PAN 1.6m MS	0.50m PAN 2m MS	0.50m PAN 2m MS	0.65m PAN 3m MS	0.75m PAN 3m MS	0.80m PAN 3.2m MS	3.5 MS	2.1m PAN	50m PAN 50m MS	50m PAN 50m MS
15CM SR OPTION	EXTRA WIDE SWATH 8 BANDS	EXTRA WIDE SWATH 8 BANDS	NATIVE STEREO	INTRADAILY REVISIT	NIGHT & VIDEO	NATIVE TRI-STEREO	20 BANDS	500.000 KM <sup>2</sup> COLLECT	GEO STATIONARY	HYPERSPECTRAL	HYPERSPECTRAL
6 satellites NOW 12 soon...	11 satellites NOW 2 with 8 bands	20 km	18 km	40 km	50 km	19 km	60 km	51 km	110 km	400 km	800 km
12-24 km	12-24 km	5 DAYS	18 TIMES/DAY	2 DAYS	5 DAYS	3 DAYS	DAILY	3 DAYS	2 DAYS	8 SEC	400 km
2 DAYS	2 DAYS										

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

# WE MEET ALL DEMANDS: 100 Satellites for Optical & 25 RADAR satellites<sup>OMEQ</sup>

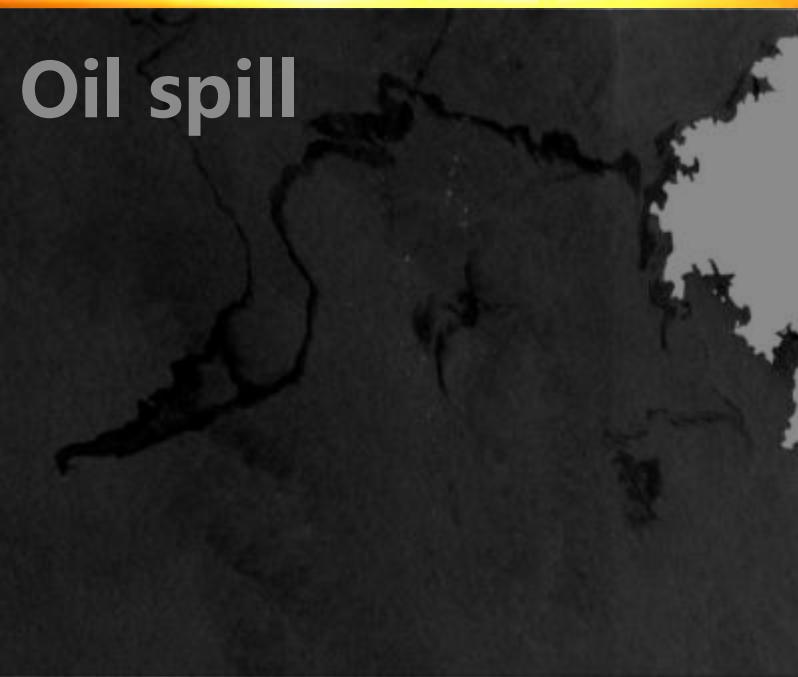


RADAR							
25 SAR							
C-BAND		X-BAND				L-BAND	
GAOFEN-3	C-SAT	SV NEO	AIRSAT X	PIESAT-1	PIESAT-2	LT1	AIRSAT KU
3	3	2	1	4	8	2	2
Up to 1m/100m	Up to 1m	Up to 0.5m/2m	Up to 0.5m/20m	Up to 0.5m/3m	Up to 0.5m/12m	Up to 3m/30m	Up to 0.5m/2m
C-BAND INSAR		X-BAND INSAR				L-BAND INSAR	
		DEM				DEM	
10-640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

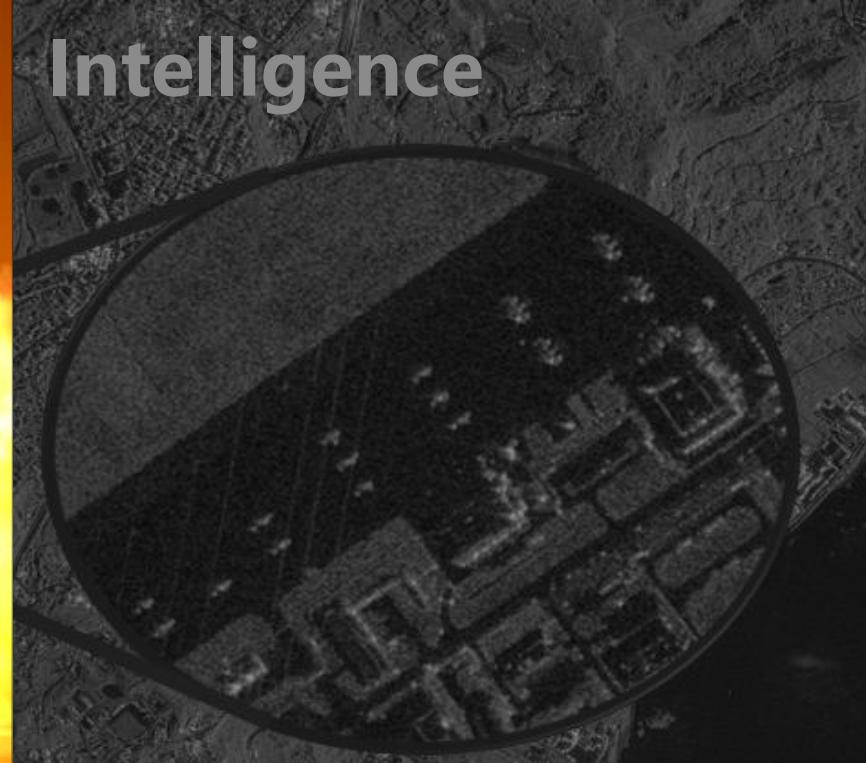
# Launches & Portfolio update



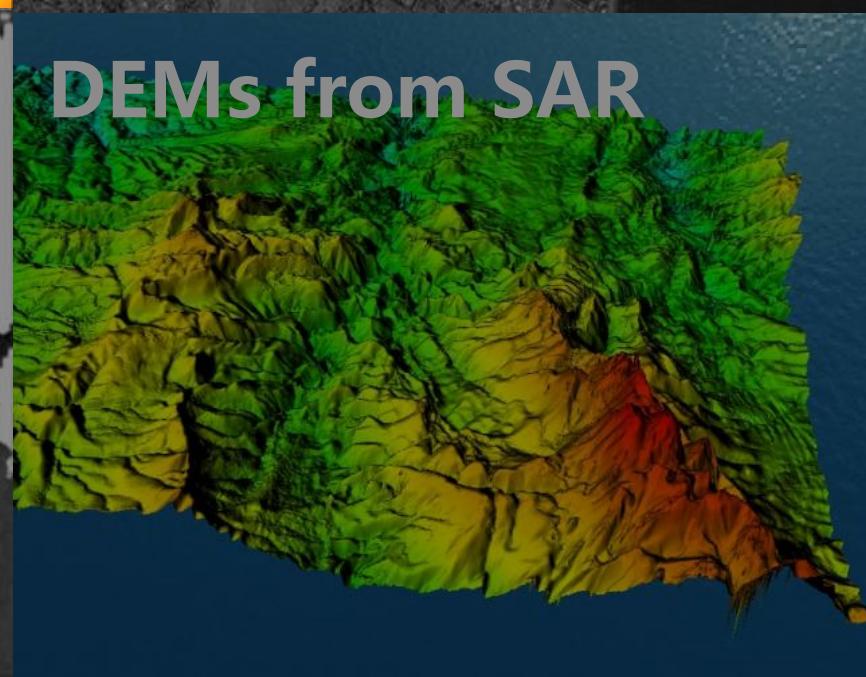
Oil spill



# Intelligence



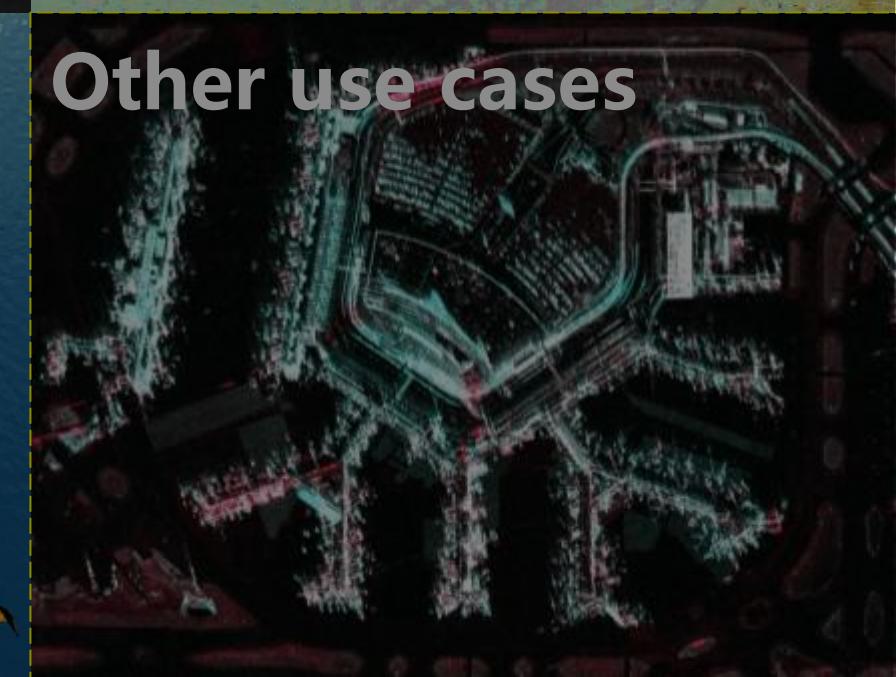
DEM from SAR



# InSAR



Other use cases

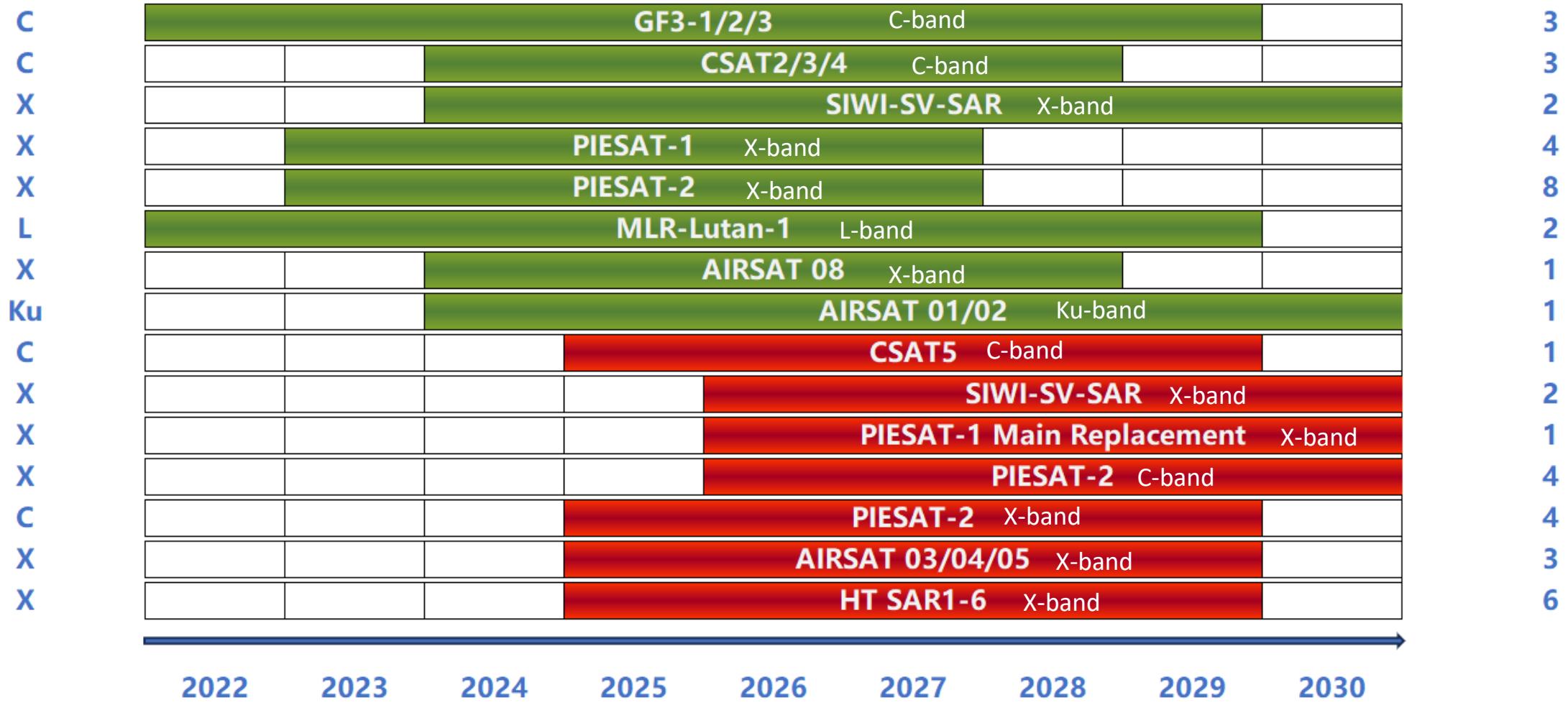


# Continuity of SAR Satellite Constellations



## Frequency band

## Number of Satellites



Scheduled Launches of SAR Satellite Constellations

# OMEO Space Offering



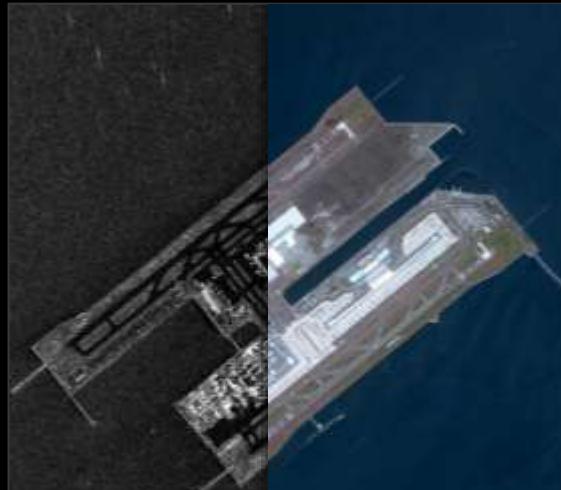
## VHR COUNTRY COVERAGE AT 50CM

Annually updated 50cm global world mosaic



## INTRADAY REVISIT AT 75CM

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



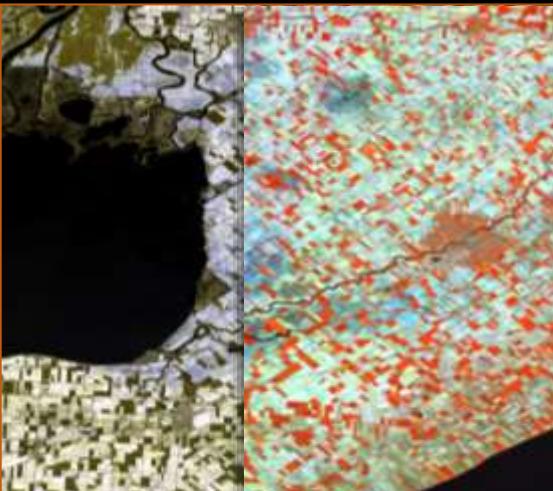
## WIDE RANGE OF SAR CONSTELLATION

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

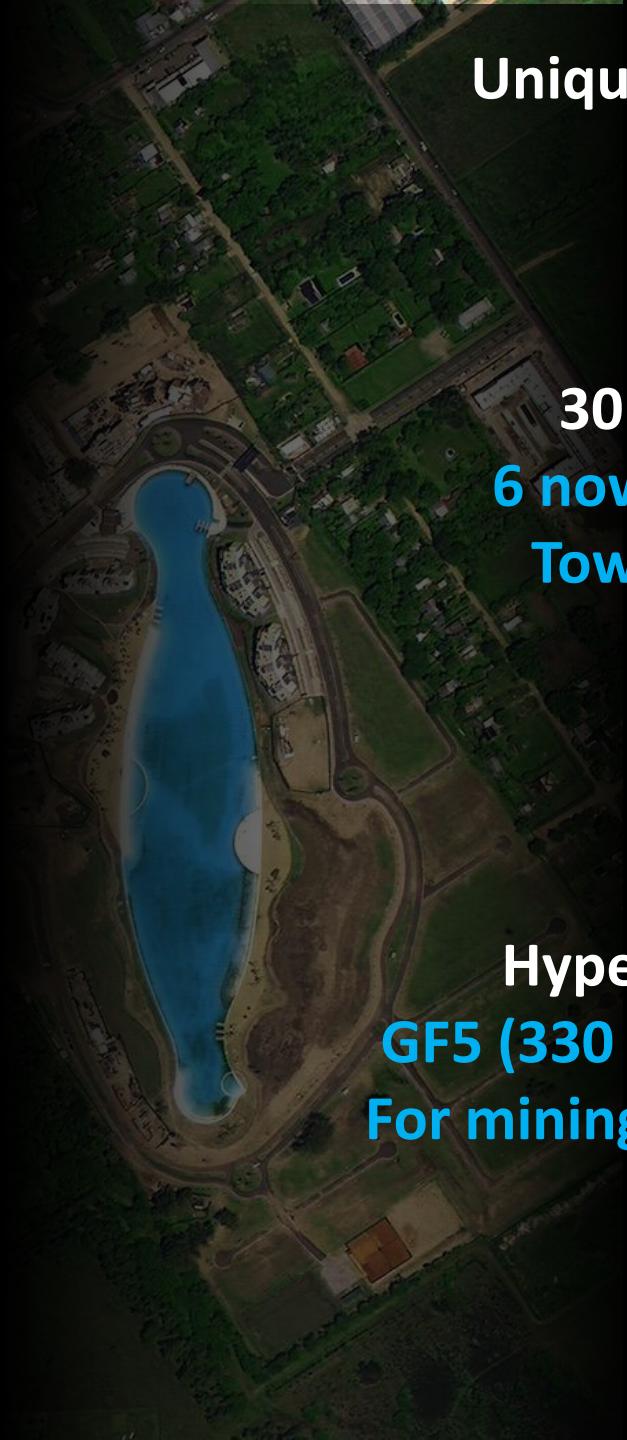


## 30CM WITH 15CM SUPER RESAMPLING

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

A high-resolution satellite image of a coastal area, showing a mix of urban development, green spaces, and a large body of water. The image is partially covered by a dark blue semi-transparent overlay.

**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

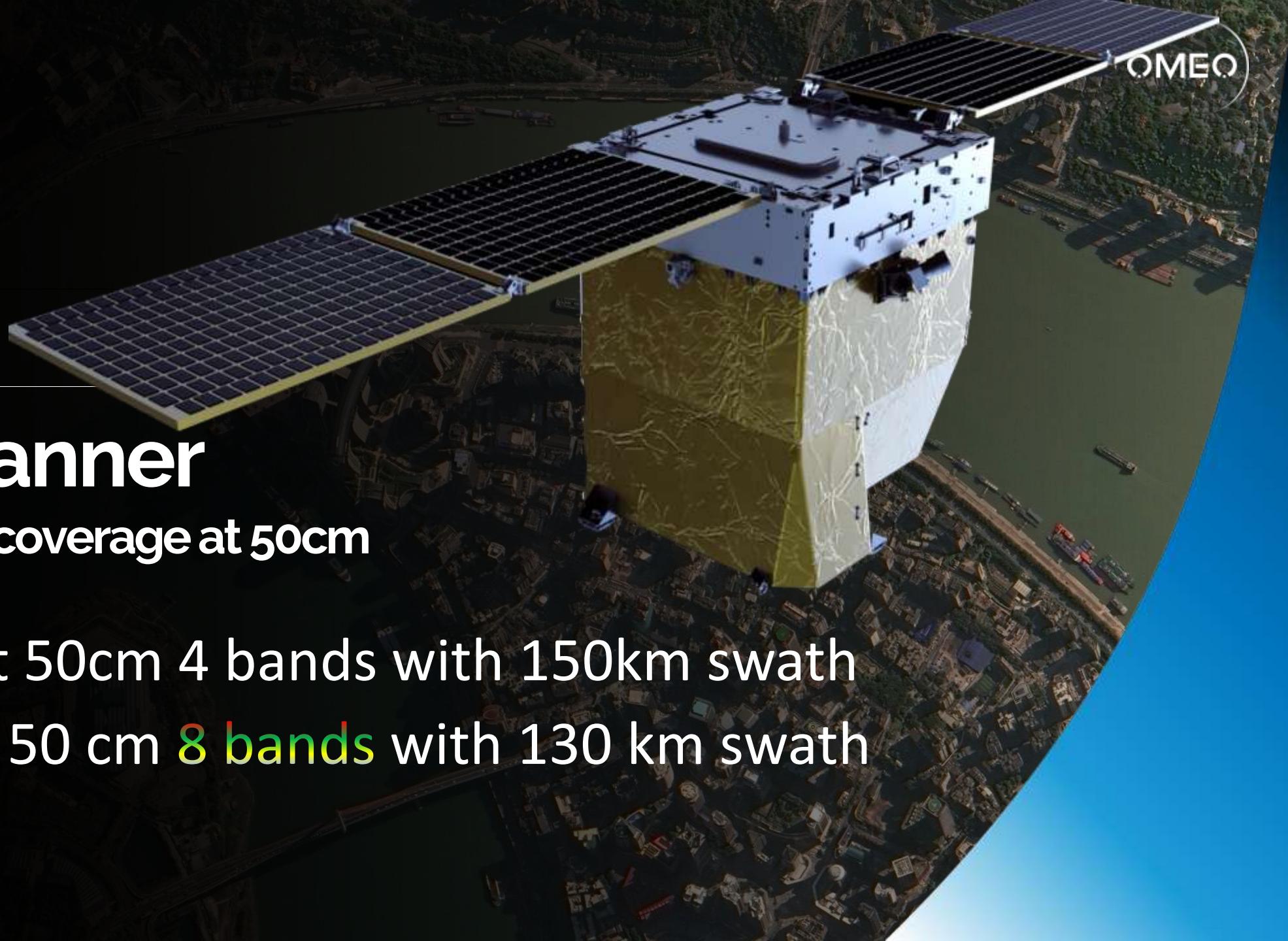


# EarthScanner

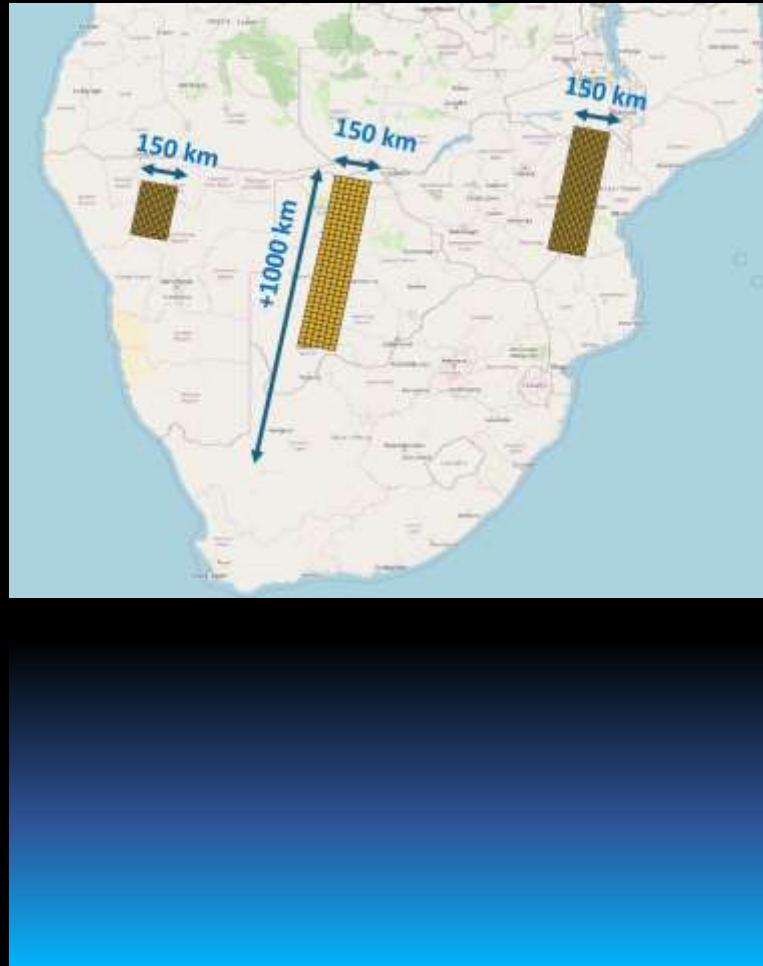
Fresh country coverage at 50cm

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



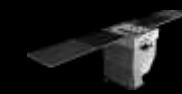


8 days passes over KSA with 2 SV NEO sats  
**30 cm and 15 km swath.**  
Long strips may require two or 3 passes.



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



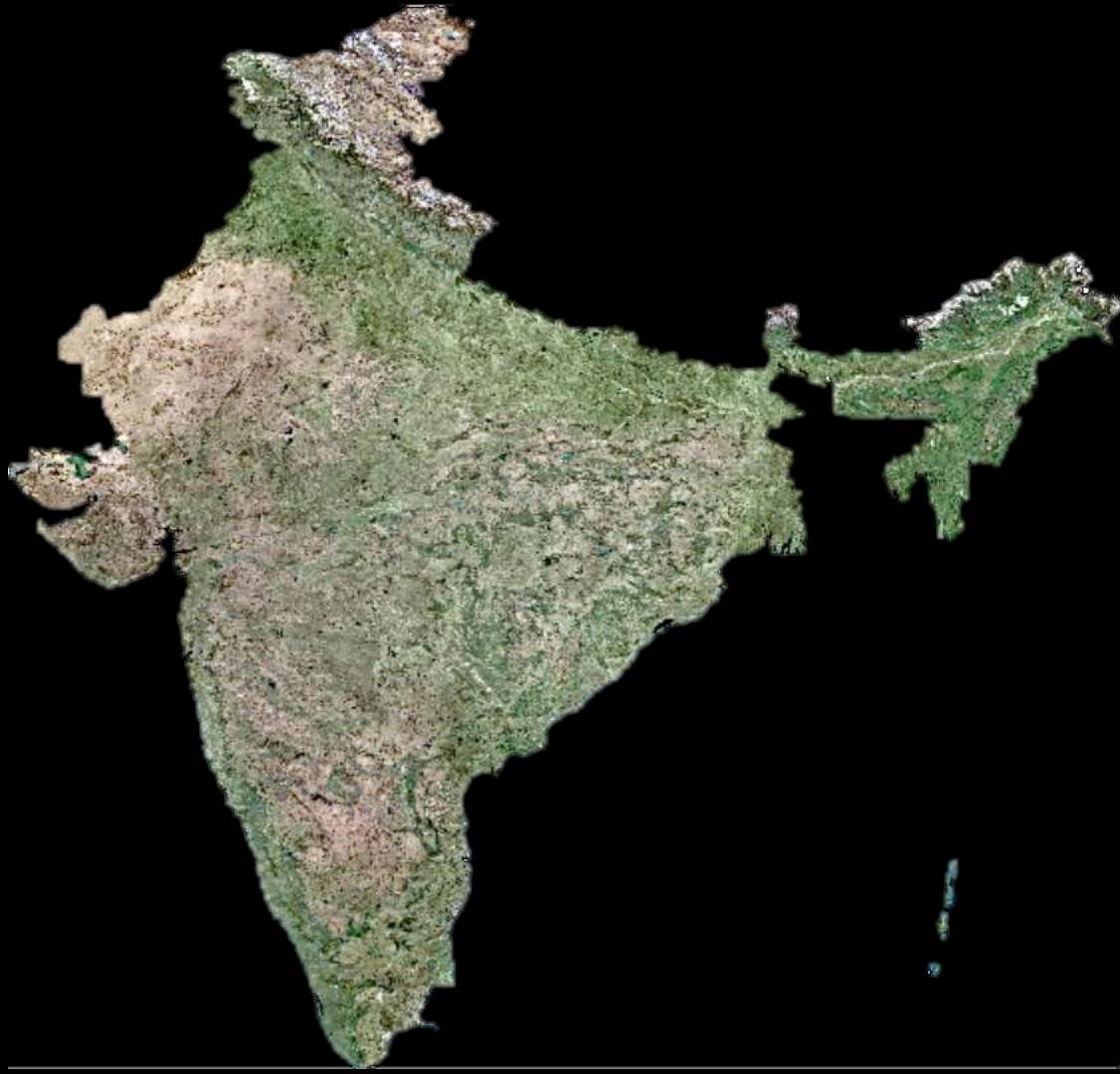
Covering KSA in 5 DAYS





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

# 50cm Worldwide Mosaic – Updated Annually

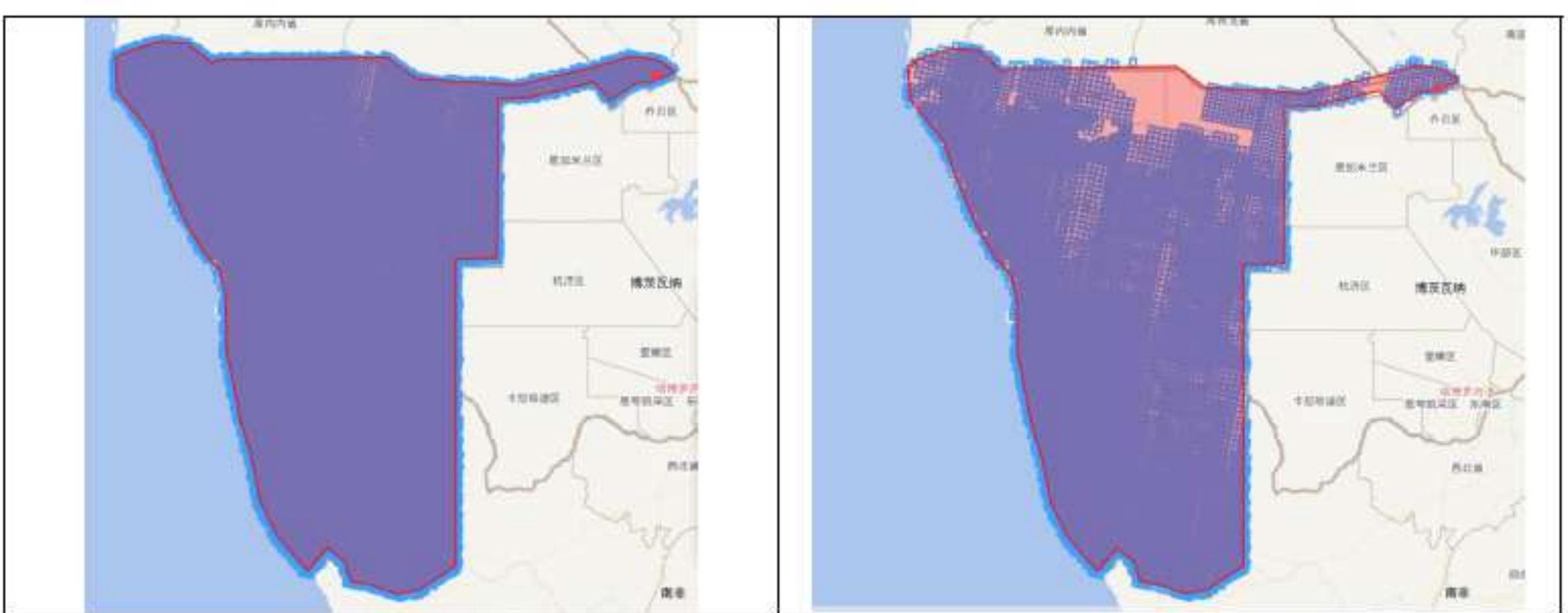


2021 India Country Mosaic



2022 India Country Mosaic

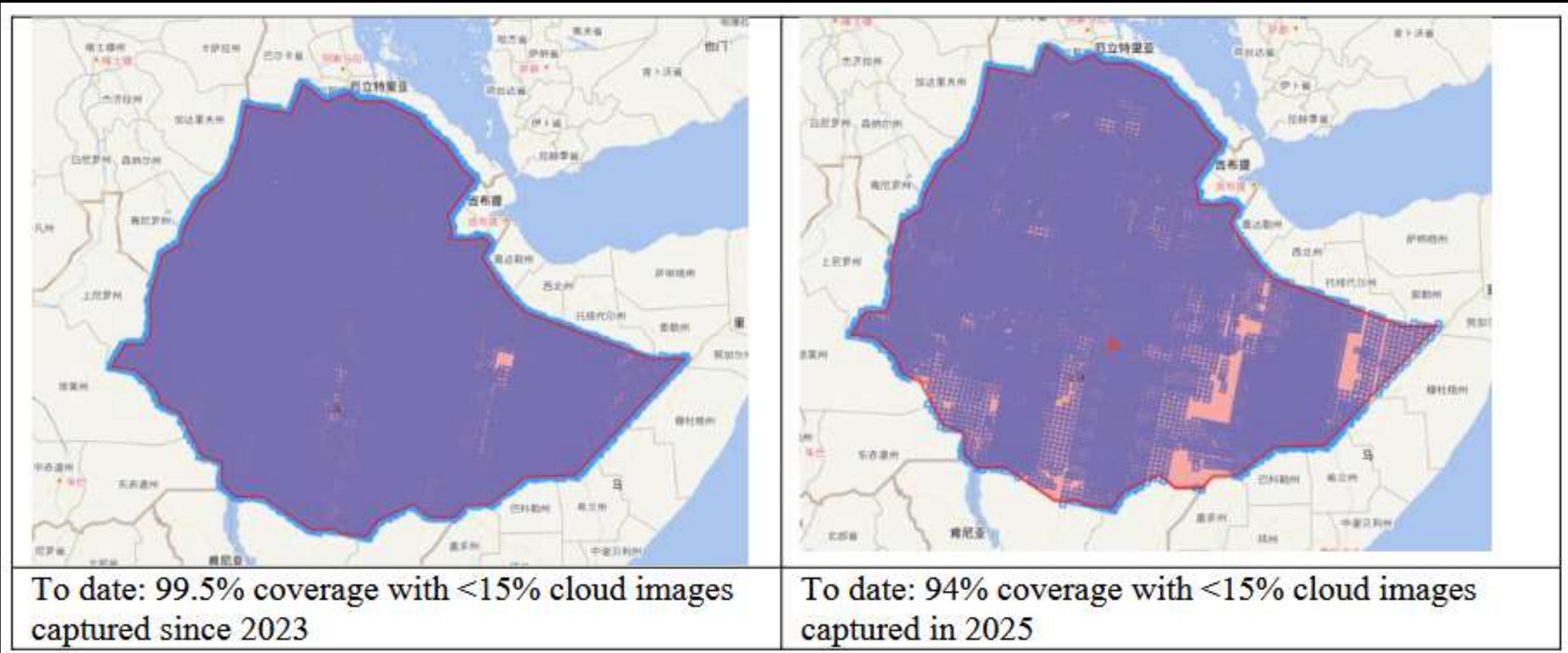
## 50cm country coverage of Namibia



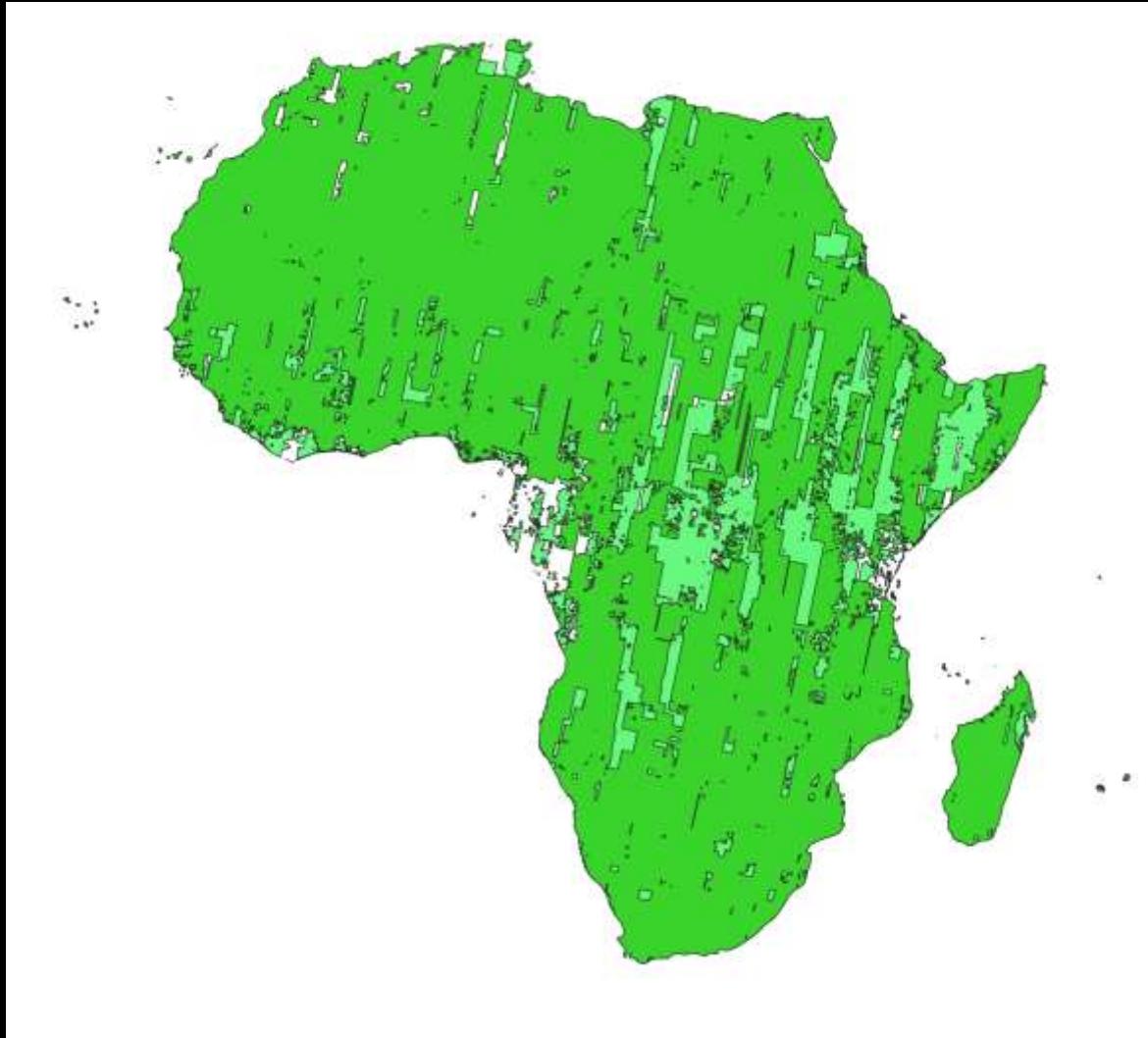
To date: 100% coverage with <15% cloud images captured since 2023

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

## 50cm country coverage of Ethiopia



Africa COVERAGE MAX CC 15% 50 cm



2024 Continent almost complete

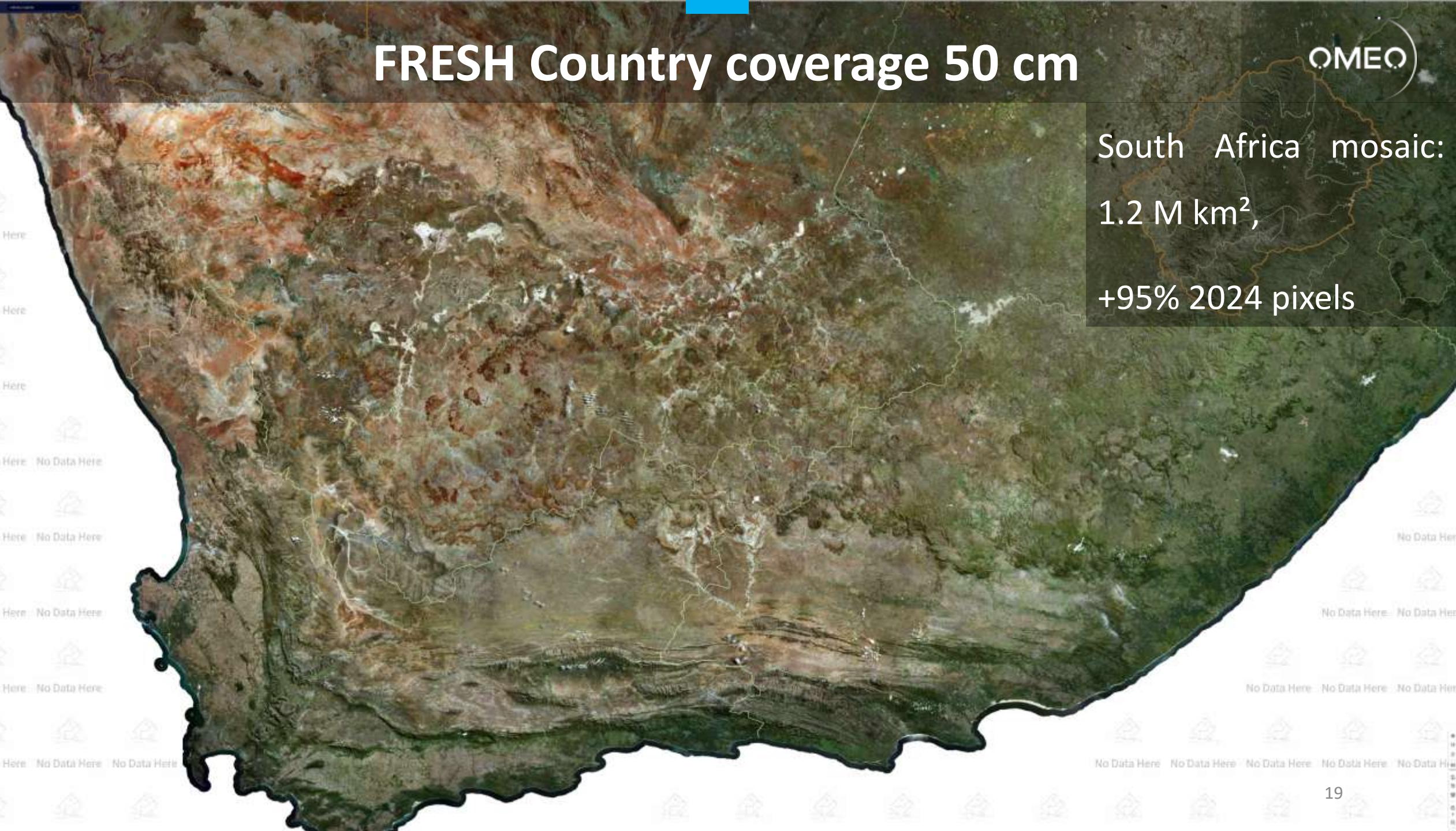


2025 (dark green) Jan April 4 Months

# FRESH Country coverage 50 cm

OMEQ

South Africa mosaic:  
1.2 M km<sup>2</sup>,  
+95% 2024 pixels





EarthScanner 50cm, Namibia, World Mosaic 2022



EarthScanner 50cm, Addis Ababa, Ethiopia





Mexico, Toluca de Lerdo, 2024.02.21

30 CM



OMEÓ

OMEÓ

**15 CM**

30 cm native AI resampled to 15cm



OMEQ

OMEQ

30 CM



30 cm native AI resampled to 15cm

**15 CM**



OMEQ



OMEQ

OMEQ

**25 CM**

25 cm native now producing



**20 CM**



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

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Email: [turcia.busakwe@omeospace.com](mailto:turcia.busakwe@omeospace.com)



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