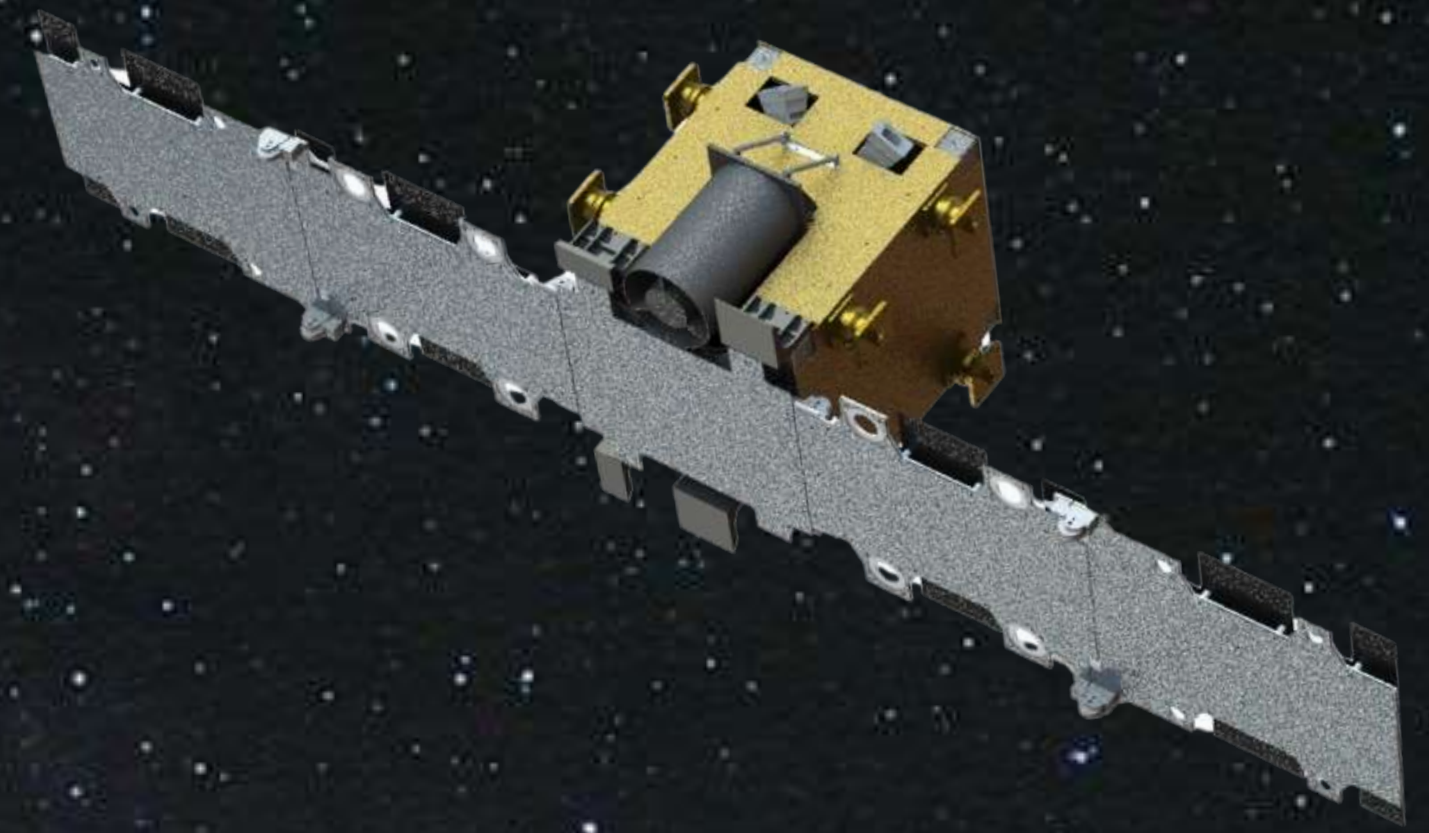


GALAXEYE



**SYNCFUSED OPTOSAR CONSTELLATION FOR
STRENGTHEN MARTIME DOMAIN AWARENESS**



Our Background



RAKSHIT BHATT
VP PRODUCT

SUYASH SINGH
CO-FOUNDER & CEO

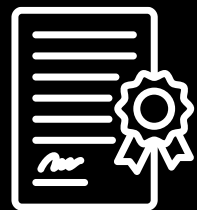
DENIL CHAWDA
CO-FOUNDER & CTO

KISHAN THAKKAR
VP ENGINEERING

PRANIT MEHTA
VP SALES OPS

PRAKHAR DOSHI
VP BUSINESS DEV

DR DEB JYOTI PAL
SVP BUSINESS DEV



6+ Patents
Filed across countries



100+ Members Strong
including ex ISRO/DRDO Scientists



Recognized by PM
Featured in 'Mann Ki Baat', PM Modi's podcast





Supported by iDEX

Backed by Marquee Investors
Raised US\$ 14 Mn+



Current Imaging payloads fall short

Imaging Payload	Advantages	Disadvantages
 <p>EO</p>	<ul style="list-style-type: none">• Easy to interpret• Has colour information• Easy to detect & Identify targets	<ul style="list-style-type: none">• Cannot see through clouds• Cannot see through camouflage• Limited to daytime
 <p>SAR</p>	<ul style="list-style-type: none">• Can see through clouds• Can see through camouflage• Day and night imaging• High revisit rate	<ul style="list-style-type: none">• Difficult to interpret noisy image• Need specialized skills for interpretation• AI assisted target detection is extremely challenging

Fusion is the way to go!



Accurate Fusion = SyncFused OptoSAR



Cloud cover in optical



SAR image



**SyncFused OptoSAR
image**





GALAXEYE

WORLD'S FIRST & ONLY

SyncFused OptoSAR

IMAGING SATELLITE

**Launching
Q1 2026**

We invented our own architecture

Mechanical synchronization

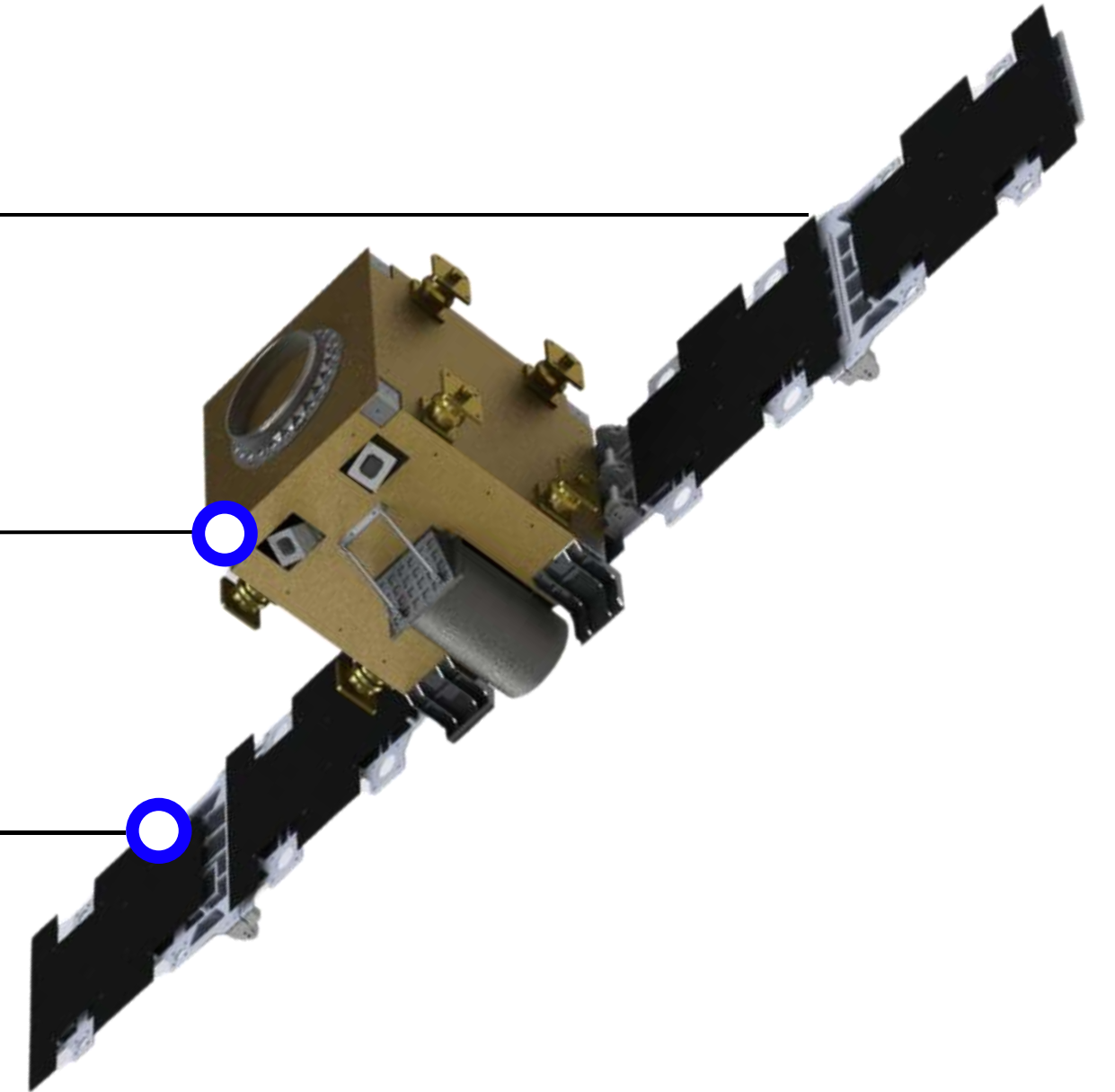
for perspective matching at
~0.1 deg accuracy

Electronics synchronisation

samples sync at ~8 us accuracy

Software Synchronisation

for resolution and geolocation at
~<5px accuracy



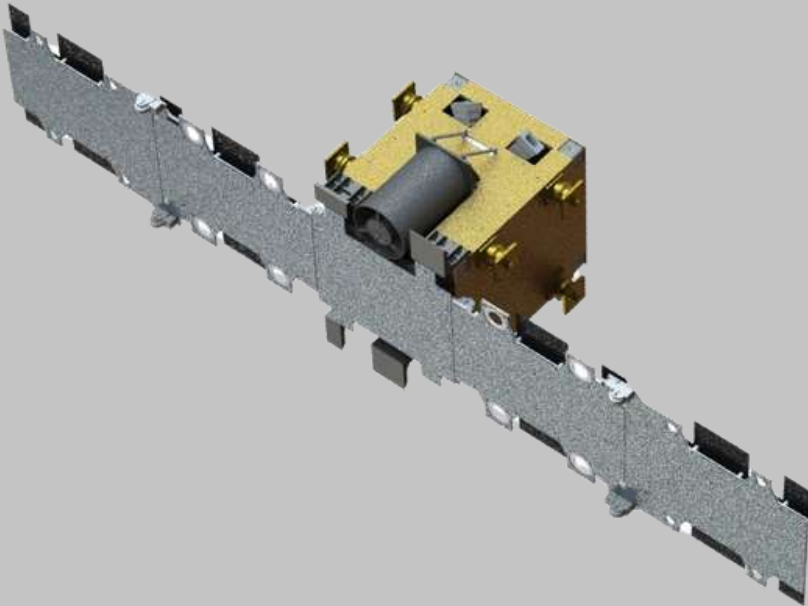
CORE IP - SYNCHRONIZATION



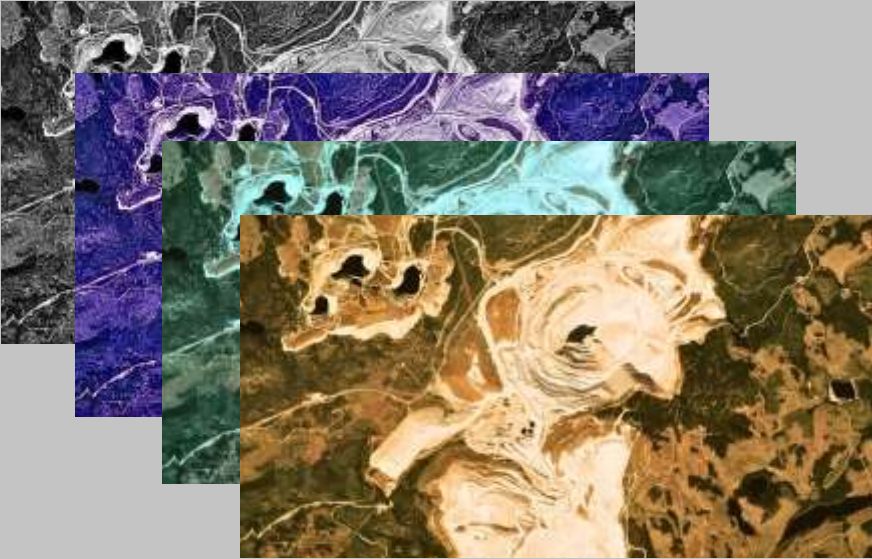
Our Space based Offerings

Upstream> Downstream

DRISHTI SATELLITE



DATA AS A SERVICE



Drishti satellite constellation

AI analytics Solutions

**GALAXEYE
HyperNova**



Mission Drishti - India's largest private satellite

SAR Sensor

Stripmap Range and Azimuth

Resolution: 1.8 m @25o

Polarisation: VV

Swath: 30 km

Other Imaging Modes:

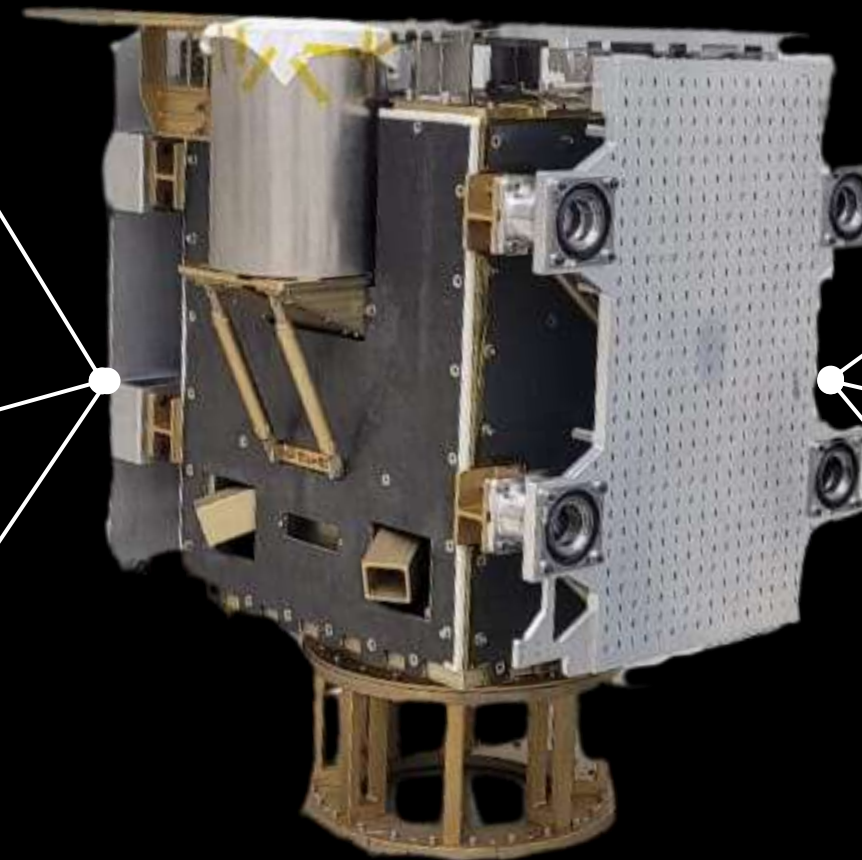
Spot(0.9 m), Sliding Spot

Look Angle Range

-45 deg to +45 deg

Satellite Mass

170 Kg



PAN+MSI Sensor

Native GSD: 1.5 m

GSD : 1.8 m @25o

Swath: 10km,

7 Bands: PAN + 6MS (all 1.5 m)

(Coastal Blue, R, G, B, NIR, Red Edge)

Orbit

Altitude: 505 km SSO

LTAN: 11.00 AM

Lifetime: 4 years

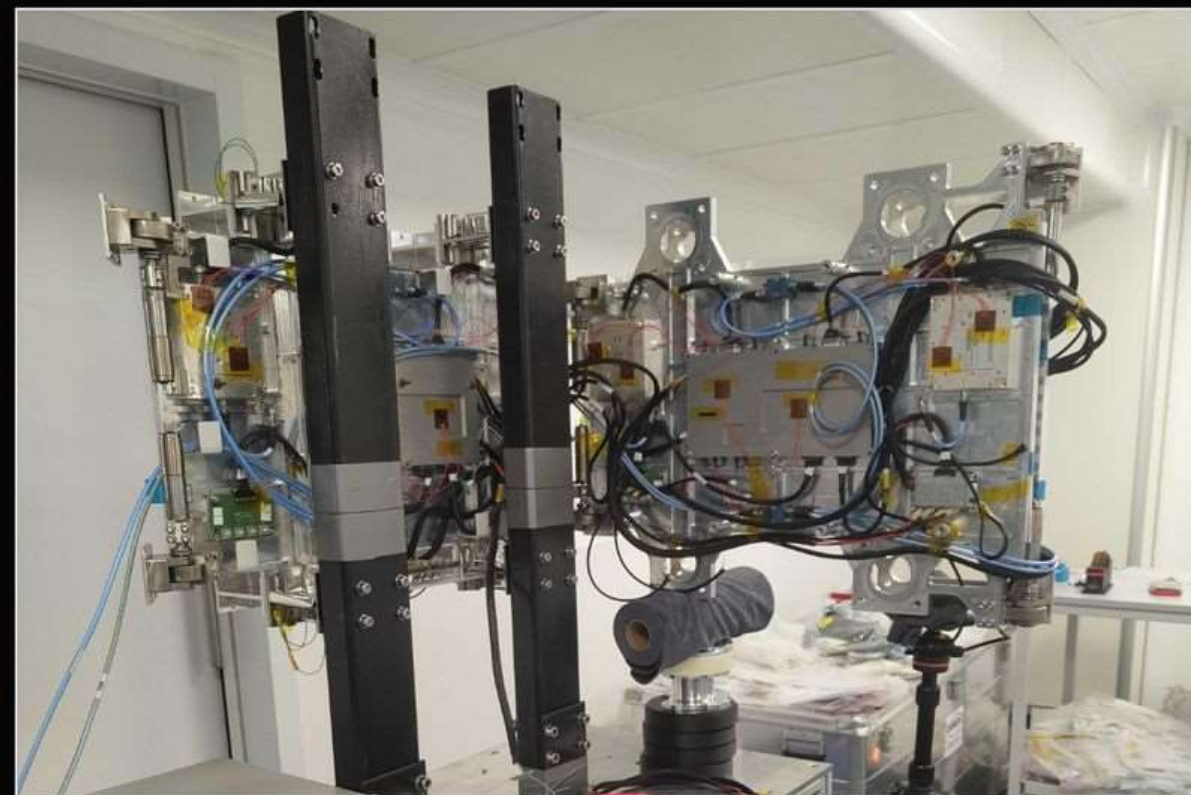
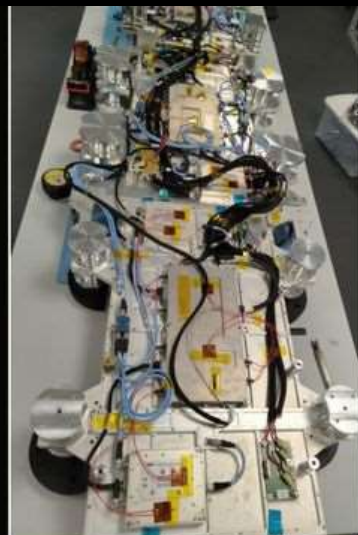
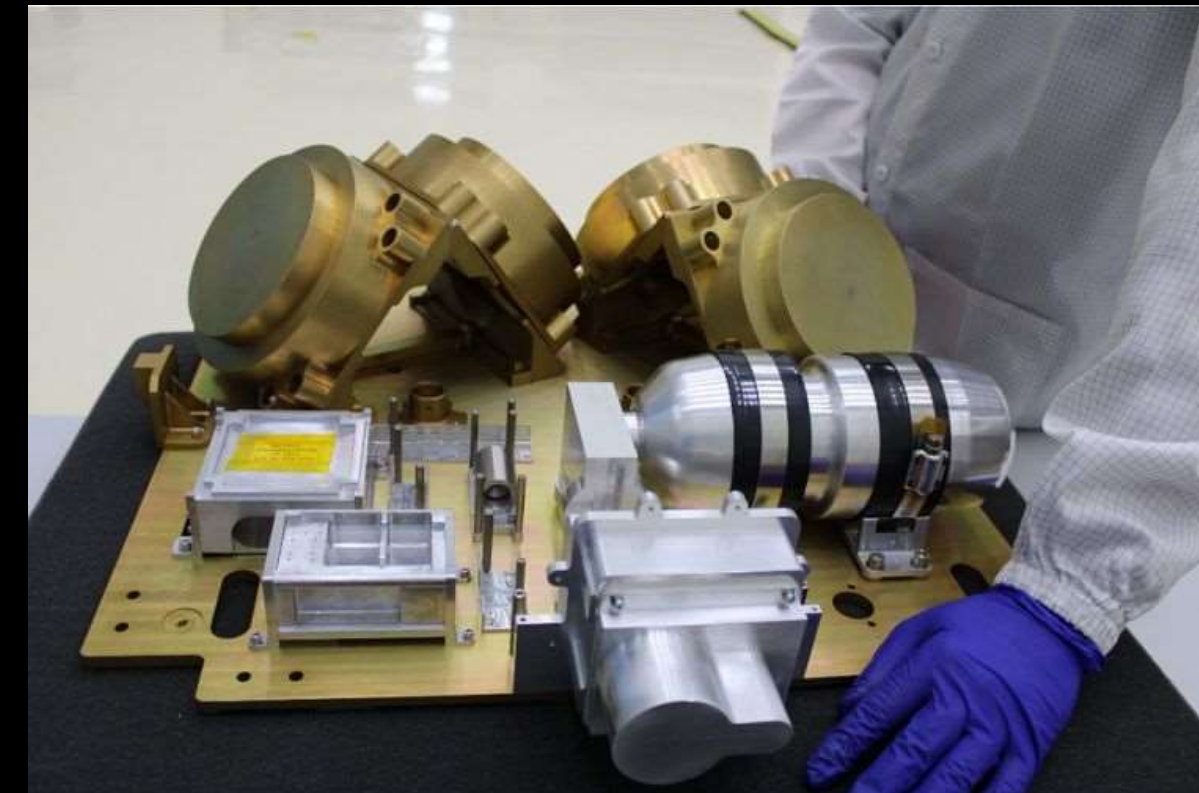
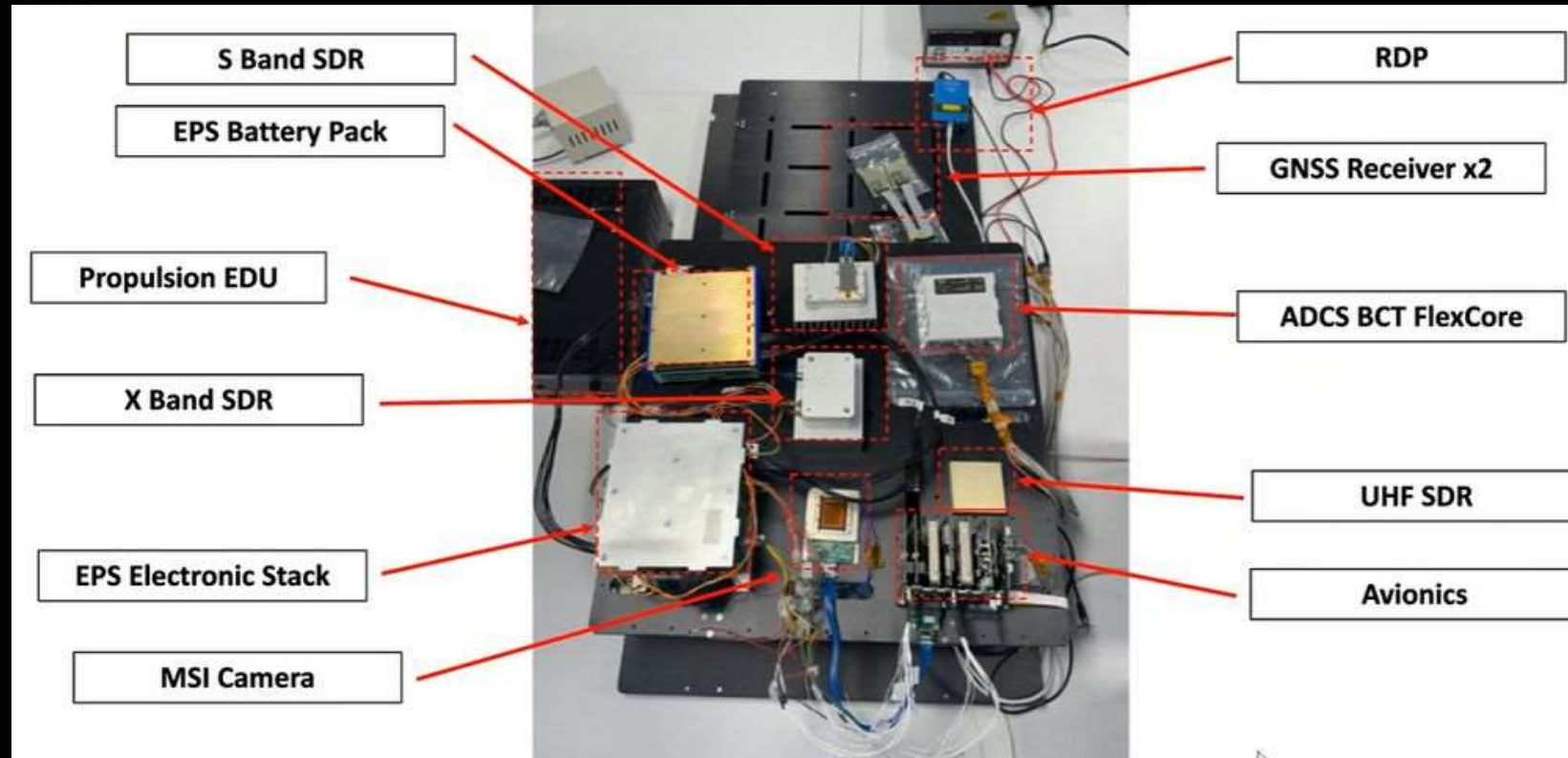
Satellite Size

1m x 0.8m x 0.83m

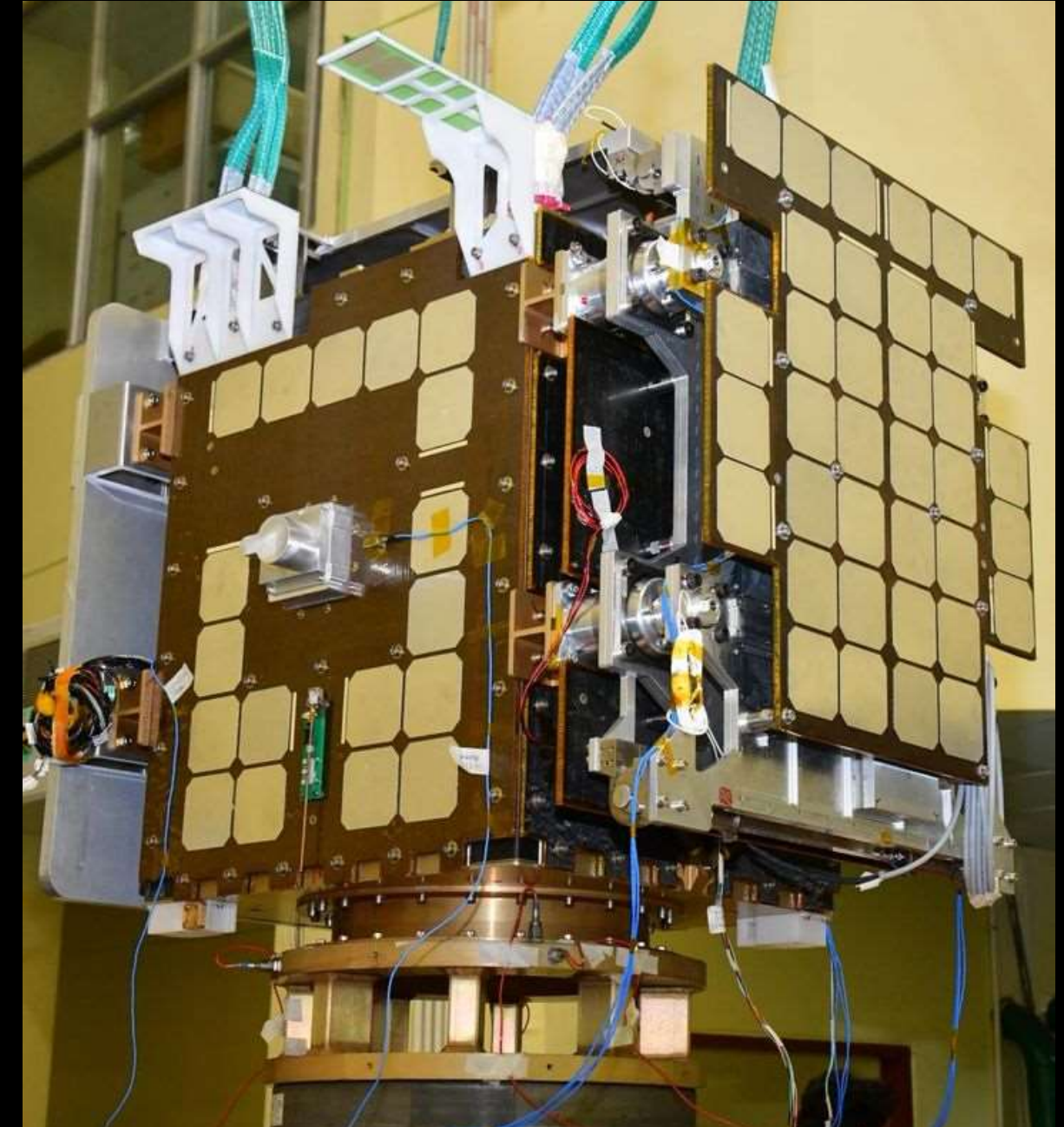
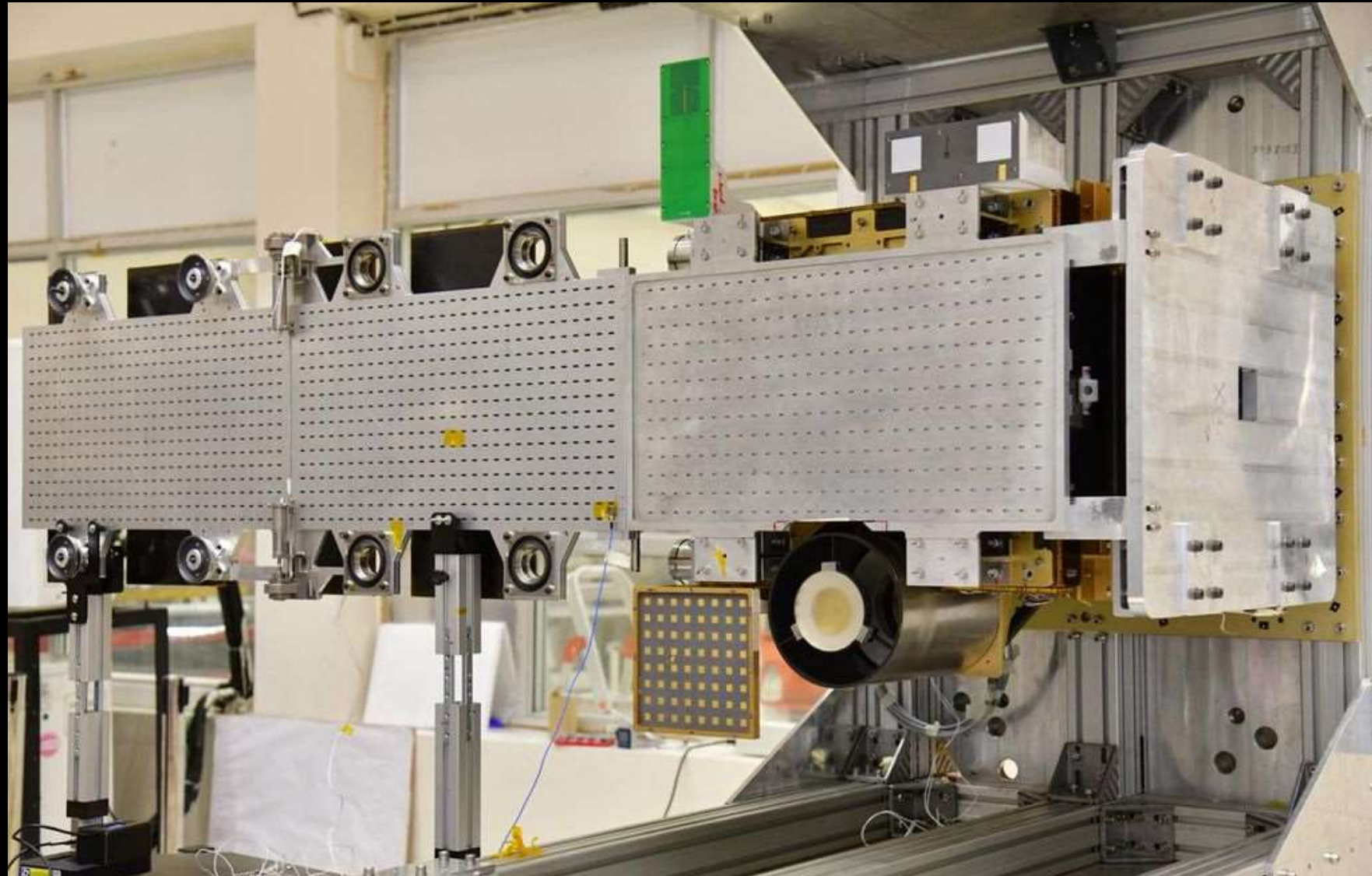
*Gen-2 Satellites will be upgraded to offer ~0.5m GSD SyncFused OptoSAR Datasets.



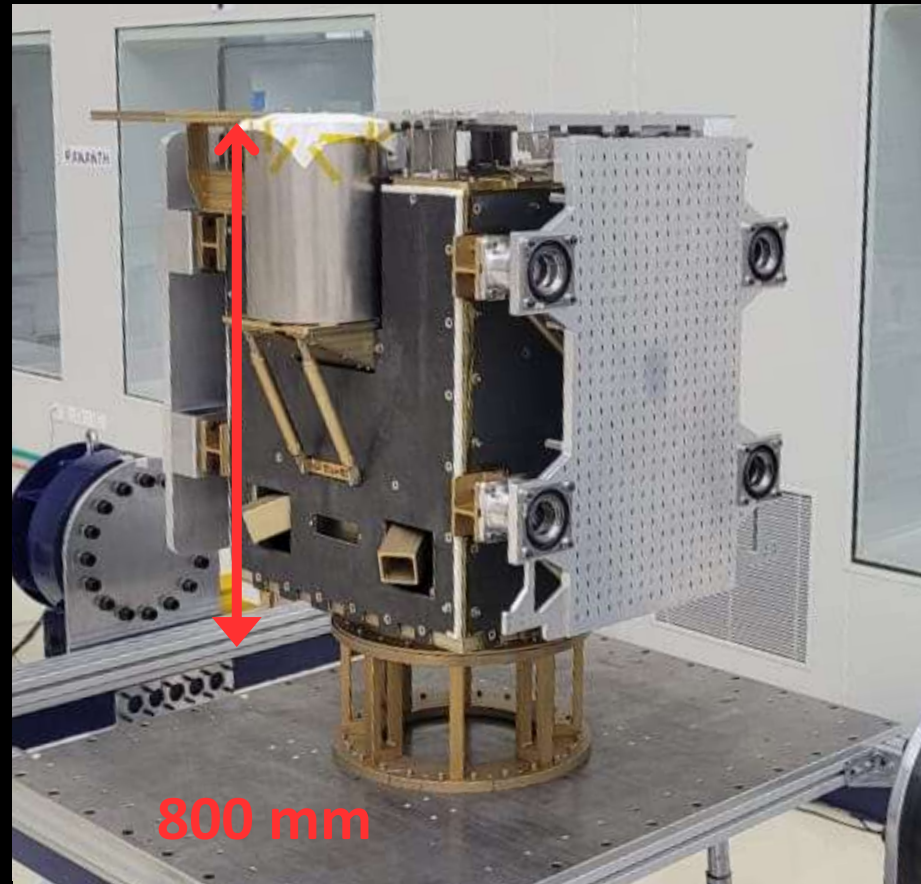
Development of Mission Drishti



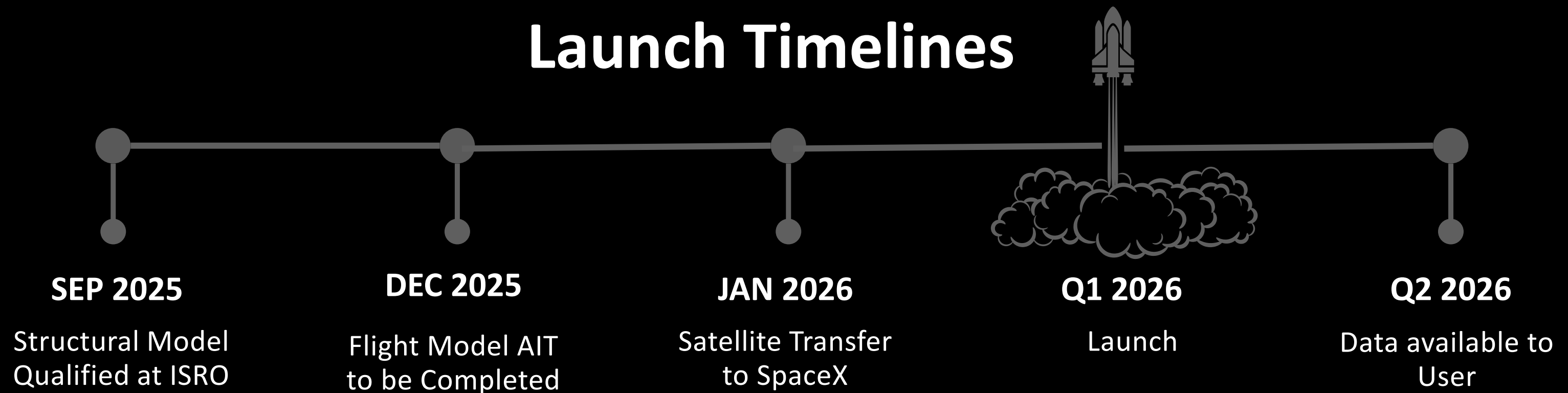
Testing at URSC successful



Flight Model assembly in progress!



Launch Timelines



Potential Usage of Syncfused OptoSAR Data for Maritime Domain Awareness



Key Capabilities of Syncfused OptoSAR data



Easy to interpret all-weather, all time images for sustained surveillance



Syncfused OptoSAR data enhances submarine detection at shallow depths as the SAR component captures, surface disturbances, periscope wakes, and low-visibility patterns, while the optical component captures surface reflections, bubble trails, and wake geometry.



In oil-spill events, SAR detects roughness anomalies on the sea surface while Optical imagery captures the spectral signatures of oil. Hence, Syncfused data significantly enhances the ability to distinguish true oil slicks from look-alike phenomena.”



The accuracy of identification of vessel type increases by the usage of Syncfused OptoSAR, as SAR captures shape, size, backscatter intensity, scattering behavior, and wake motion direction whereas, Optical adds texture, color, structural layout, and fine-detail attributes.



Maritime Defense Awareness Powered by AI

AI for Object
Identification

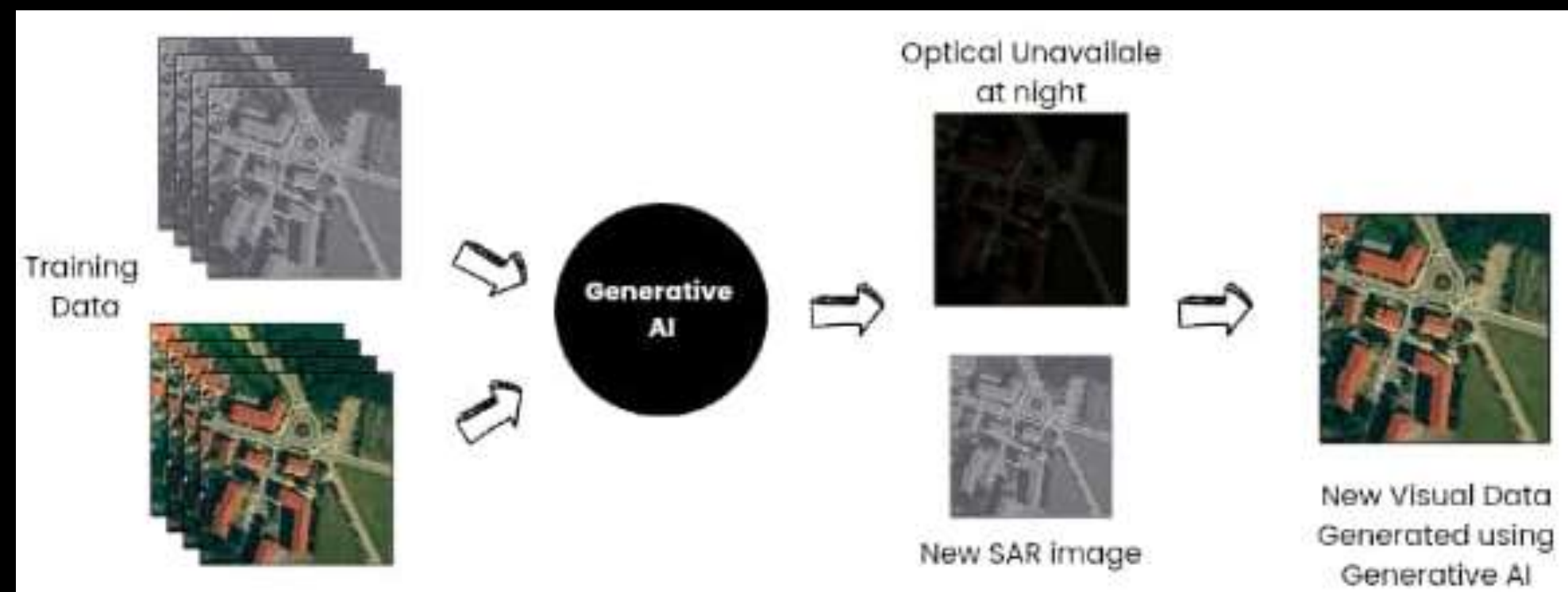
Generative AI
SAR to Optical



Generative AI; To Generate Intuitive Optical Data from Available SAR Data



Only Possible with SyncFused Datasets



AI Powered Image Detection & Identification



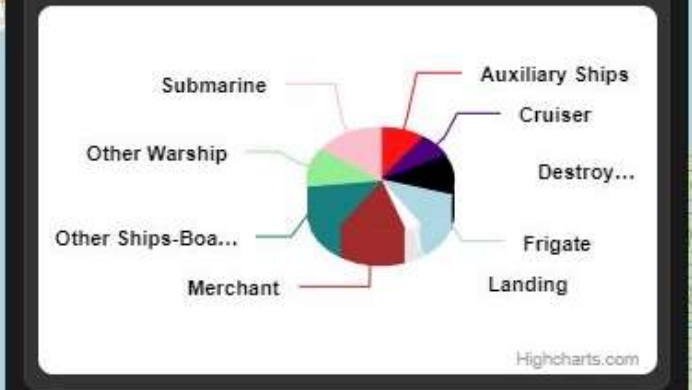


Layers

Insights

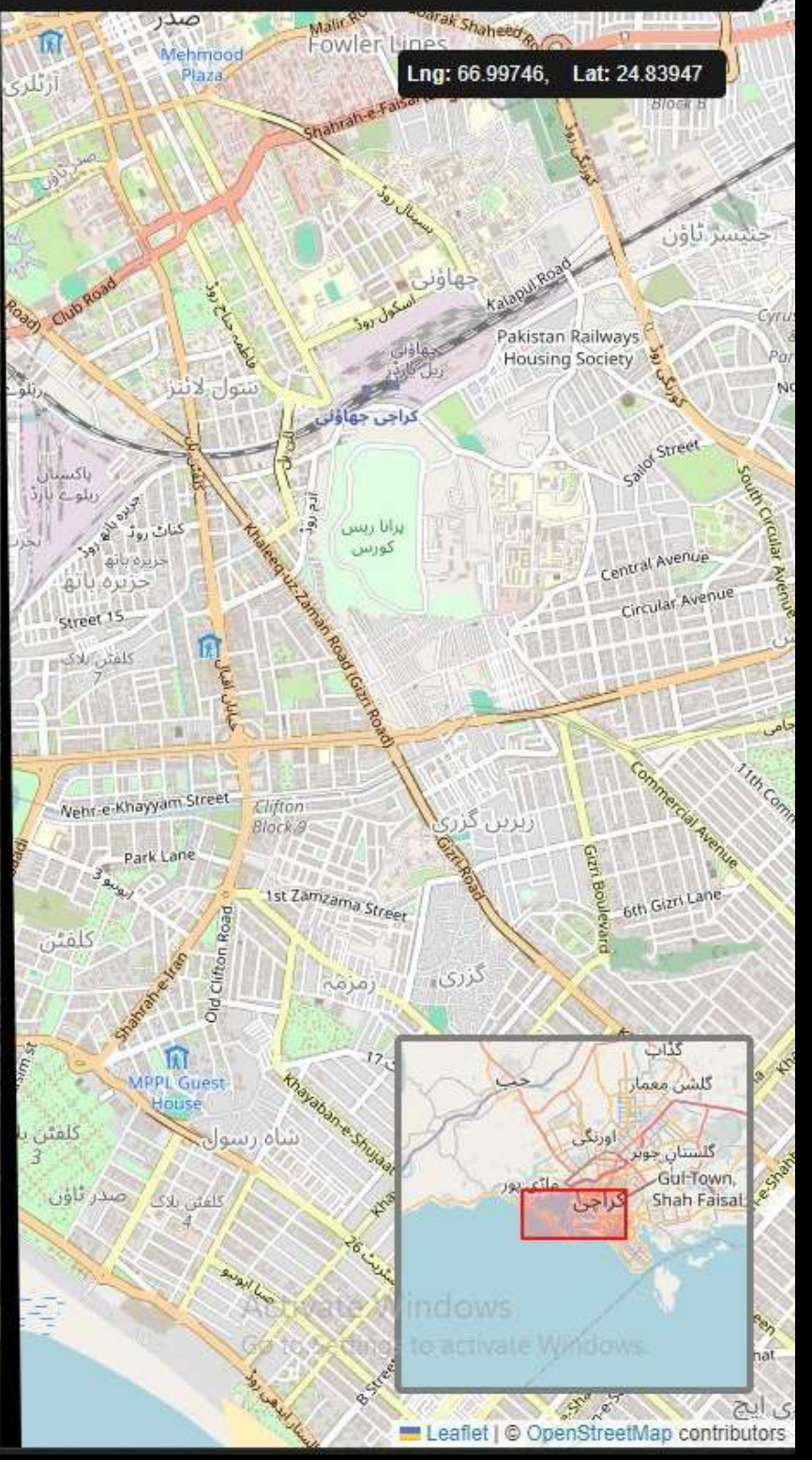
Edit Chart Save Chart

Ship Classification



Filter Sort Save Table

Classes	Total	Average Confidence
Submarine	5	44.78
Merchant	1786	43.66
Other Ships-Boats	1985	43.40
Destroyer	6	39.39



Thank you

Get in touch



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SVP - Business Development
deb.jyoti@galaxeye.space